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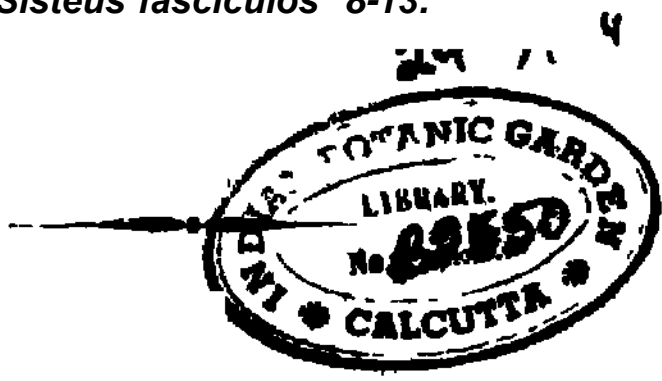
ES A. 11

**DIAGNOSIS
ORIENTALIS
ALBUM NOVARUM.**

ORE

ISSIER,
GENEV. SODALI.

Volume secundum.
Sisteus fasciculos 8-13.



LIPSIAE.

APUD B. HBBHMAHir.

1842-1854.

DIAGNOSES

ANTJUU1 fHUINTALM IHWABII.

PAHISIIS - TYPIS MAHC1 DUGLOUX ET CON
VIA £COLB-DM-M£DECINE , 90

PRIEMONENDA.

Haec series prima Diagn. pi. Orientalium tredecim fasciculos complectitur annis 1849-1835 editos quos auctor nunc in volumina bina Indice jam dudum postuiato aucla disjunct.

Fontes e quibus species novae hic describe depromptae fuerunt sunt subsequentes.

inera varia a beato Aucher per omnes ferè Orientis Graeciam, Asiam minorem, Syriam, Arabiam petraeam /ptum, Mesopotamiam, Armeniam*, Persiam, liltus le Arabia? draertse instituta. Familiar nonnullae nempe :ulacesB, Berberideae, Papaveraceae, Fumariaceae, Cru- et Umbelliferae seorsim et fusiis in Ann. Sc. Nat. mnis 1841, 1842 et 1844, descriptae fuerunt et earum peculiaris ad finem voluminis secundi Imjus libii in botanicorum commodum additus fuit. Permuliae autem tuis Aucherianae ab aliis auctoribus v. gratis in Illustr. Mentalium cl. cl. Jaubert et Spach et in Prodromo Gan- jjino divulgatae fuerunt.

c Iter auctoris anno 1842 per Graeciam centralem, Pello- lesum, Lydiam, Gariam, Bithyniam et circa Byzantium. va Iter secundum auctoris annis 1845-184C per iEgyptum, ~~crs~~ petrseam, Palaestiam Syriamque.

ba Pl
-L
R. G

i° Plants a cl. amiciss. G. de Spruner e varlis Græciæ parlubiis annis 1841-1845 missae.

¶° Iter a cl. et amiciss. Th. de Heldreich anno 1844 per Ai^olidem, Laoniam et Messeniam susceptum.

§° Planis a Ixato Ghr. Pinard ex Caria et Pamphylia anno, 1845 missa¹.

7° Iter Holdreichianum anno 1846 per Pamphyliam, Pisi-
fium, Isauriam et Lycaoniam. . .

8° Her. cl. de Heldreich anno 1846 per insulum Cretani.

i° Planis nonnullae ex itineribus cl. Th. Rotschy in monte Tamo (1836) et per Syriam borealem Mesopotamiamque (LK41). Plures species utriusque itineris seorsim a cl. Prof. Kenz in Appendice ad *Librum Russegger's Reise* et in aliis libellis describitur fuerunt.

10° Iter a cl. Th. Kotschy per Persiam australem anno 1842 institutum.

11° Iter Kotschyianum anni 1845 per Persiam borealem.

12° *Vhnlx* Orientales variae a cl. cl. Husson, C. FonLensi, Pesbilozza, Noë aliisque missae vel in herbis observatae.

15° Planulae a beato W. Griffith et a cl. et a cl. a cl. i° Sloaks in Orientis regionibus India) finitimis detectae.]

14° Species tandem paucissimae Hispanicae vel Atlanticae quae omnes denuò in Pugillo p. nov. Africa? borealis et panicae descriptae fuerunt.

Auctori in anno habenti Floram Orientis quondam tempore u illa aptior visa est ratio quam specierum studio diligenter quam potuit maxime inenumbere, lapides coacervare tripliciter (ut ex quibus se ipso vel alio opifere sedificium olim edificare) labore possit; si ad hanc rem non spectasset laborem deservit. Liones congregandi profecto fastidiosum certum est (hic scellum esset.

- ^ in hisce linoellis irrepsisse nullus usi qui facile nun intelligat, nullus saltern ex eis qui simili opera; vacaverunt. Ex <is eiToribus alios auctor materiũ et observ&lionibus ulterioribus adjuvantibus jam emendavit, alios Deo volente in postopum castigabit.

Series secunda jam inchoata descriptiones plantarum no\arum in itineribus recentioribus cl. cl. D^r Stocks, Griffith, tie Heldreich, Noë, Huet da Pavilion, alionimque collertarmn complectetur!

Auctor ut occasione datã utatur botanicis amicis pro auxiliis variis quibus labori suo auxiliati sunt gratias pernraltas agii
•I eos rogat ut sibi Floraeque Oriental] olwervationibus planisque missis iterũm favere vclint.

DIAGNOSES

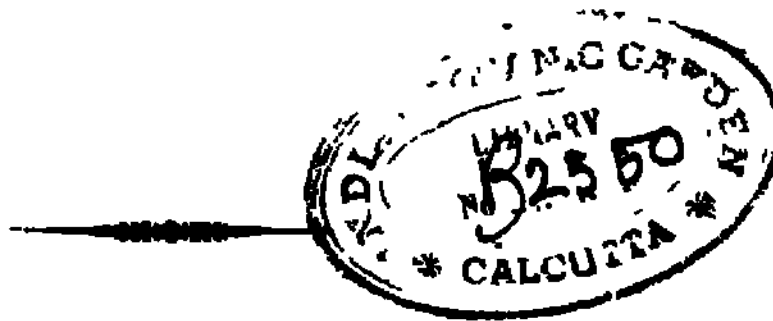
1RVH ORIENTALIM MUROM

—
N- 8.
—

AUCTOHE

H. BOISSIER,

Soc. Pen. Gnnv. SODALI.



PARIBIIS.

lofi^BCI DUCLODX ET CONS.

- 1902-03-15-1903, 00.

DIAGNOSES

PLANTABUn OBIENTAJI11111 BNWM117M.

RANUNGULAGEiE.

62551
CALCULUS

*ksaum*STELLATA L. var. *Heldrichii* Bolss. —Minor. Involucnim tripbyllmn follolis abbreviate obtongis oblosiuscnUs. Flores pallldiftshnb roaeo-grlBel parrl diametro 9-H tineas lati. Petala elliptical obVm.

^Hab. la damois montls *Akrotm* et fauoUnis montto *Malaaoa* propi t^doniam Greta. Heldrelch Marie 1846.

Varietas elegans dbtinctaqnc sed a specie nullo modo Beparanda.

ADONIS PALJSTIHA BOIBS.

A. aonoa, calycegtebro demfun reflexo, cauls elala sulcato divanca-tim ramoslaalmo, petalis magois obovato-cunealb mlniaOa, apicft *c u*-pellonna cyHodricã elongate, carpflUiaaxl horiuDtalUer impoaltis basl iocraBsatia tnberculato-rugosis medium versta marglne aogulato-dentato drcolarl Inatrncctls superoè tevinscalis striatls ID rostrum andDatfr-BDbrecarram attenuatia.

flab, ad basin moatium JadUB Inter *Bamlah* et *Hierotoiyman*, tn vallibus^rov. Sanaria propè *Sanvir* la agria et pingnlbus gregariè ereacena. Legl Apr. et Nato.

Planla aaspè *k-t* pedalls_t floa dlametro « H 8 Uo. Bgepè tatos, carpeUa Mia lata vtâmlodfeaiuqaflad awdlum iacruaatalblqneia nutrgloem xam deotaUun abeuntla lupernò la rostrum subrecurvum co-

neco-altenuala. Indote fructus appropinquanda A dentate JDel quae quoque carpellis circulanter marginalis gaudet sed dimidiò minoribus et in quibus praterea raargo multò profundius dentatus est et rostrum brevissimum ascendens apice suo extremitati margini superioris contiguum.

RANUNCULUS ORIENTALIS L var. *heterophylla* Boiss. et Heldr. in pi Anat. exs 4846. — Punitus, folus alus insectis segmentis creatis dentatis vel etiam profundè partitis, alus multifidis.

Hab seeds vias et in liltore maris propè *Adalum* Pampliyis nuxus jppm Jknnia genuine in Deless. Ic select. I tab 33 exhibitA in quâ folia IMMlecompOBito-iDultifida sunt (Heldreich).

RANUNCULUS TRIGONOCARPUS DOISS. (Sect. *Ranunculastrum*.)

R. totus adpresse albo-villosus, radice..., folus multifido-decompositis lacinus auguste linearibus elongatis apice rotundaUwallosis caulis sessilibus, caule supernè dichotomè et divancabm ramoso, folibus... sepals deElxis longè hispidis, pedunculis fructiferis elongatis apice subincrassatis, spicâ fructiferâ capitatâ oligocarpâ, axi villosâ, carpellis praler pilos sedts raarginem exteriorem sparsos glabris bij¹-vibus triangularibus margine superioris brevi recto in rostrum horixol - • (ale apice subrecurvum carpello asquillODgum recQlineè abeuntî margine exteriori rectiusculo subconvexo.

Hab. verosimiliter In *Anatolia*, habeo specimen fructif. incompletum in coll. Aucheriana sub N° 37 cum *R. Orientali* mixtum.

Spica fructifera vix pisi magnitudines, carpella sensu verticillata (longior) lineam 4 *tjietata*, rostrum lineam longum. A. *R. Orientali*, *hithmiao* et affOnibus eximie distinctus carpellis fere non tobermlatis, latero exteriori rectiusculis vel subconvexis nec profundè bilobis.

RANUNCULUS CIDIOTUS Boiss. (Sect. *Bamneulastrum*.)

a. totus ad petiolum patentibus ad caules ramosi et folia adpressè villosus, foliis normalibus ad 8;3 vel 3;4 tripartitis basi cuneatis partibus basi Bubangustatis apice obtusissimè 3-lobis, caule medio erecto semel rarius bis dichotomo cum flore longius pedunculato In dichotomo, foliis caulibus binis oppositis seculibus 9-3 seeds 1[^] nita linearibus elongatis, sepals deflexis palatis et longis

dies, petalu crebernmè venulosis, splct (hictiferà ovato-rofauū, an glabrâ/carpclUg Qunioribus) triangulari-ovatlS Ueribus sparslni et marginem vends albo-pilosis In rostrum rectum carpelio squilongom abeuntfbus.

Bab. in *Tauro OUcto* Kotschy pi. exs. N« 9 sub *R. owyspermo* MB.

R. oayspermus a nostrâ specie longè differt fibris radcalibus oirato-rotundis, foliis majonbus magis divuis baai trancalis vel subcordaUs, Doribua dunidib miaoribus, carpelbs glabris etc. Noslra species est quasi intermedia inter *R. Sprwunatum* et *R. argyrewn* qaonuuuioir indumento patcmiori, fblis IDfeioribus 5 lobis basl cordatls^aule ramoaiori, carpelli tuberculati rostra recurvo discedit et posterior babel folia cuneala equidem sed multo magis lobata, fibres radicates vaHo elongatas, iadumentum totius planta valde patulum, carpella tuberculala etc.

HANUMCDLVB CDFBBIW Botes. et Heldr. In pi. Cret. exs. 4846. (Sect *RauunctlastTwn.*)

R. radice albo-bJspdiilâ tuberculos ermnosos oratos acalos fibrasque tenues elongatas intermbtas edenti, caulibus folia partim superantlnfl simpleibua blflorsve petiollsque pllis adpressiusculs blrvitis, follu radicalibui pUlsalbis sparsis obslUs ambltu ovatis blpioaatisectis I sspiūs ajugis lacinlu parvia obovatls indlvbis vel 1-3 parUtis obtusis, folns cauliois mmimis plnnatisectis lacinils linearibus abbreviatis, sepalis adpressis vindi-robclUs laid albo-margiaatis glabrlusculis, pelalis obovatis subretusis mtus citrlnis extbs rubello-cupreis, carpelliB juolonbus in rostrum rectum apice drcinnatum abeuntlbus.

Bab. in saxosis monUs *Tavoutsi* Eparchte *Stita* Crete alt. B000'. Ueldrach AprOi *Am.*

Caales 3-4 pollicares, floras magnitudinis *R. phhnoMu.* Yaldè af-Uni§ foliorum formâ JI. *leptaleo* DC. Delesa. Ic. Select, tab. 38 qnl differt tuberculw radicaUbus lpsis In flbras elongatas attenuatls, indumento caulis patolo, folus denfque glabria, carpelli rosro a basl vabt inenrro.

LANUNCULUS BDimuinBiiB Boias. ef Hohen. in Kotsch. pi. Pen. bor. 1846. (ed. *Banunculastrum.*)

R. glaberrlmB, radice fâsdculato-gnmort flbrfa oWonfeb Vel eylln-

ovati nee globosâ, axi hirsute nee glabrâ, carpellis parte supenon ' subinflatis nec compressis, rostra evfdenler circiDnalo.

BANDITCBLUS BBACIYLOBUB Boies, et Hoben. In Kotsch. pi. Pen. bor. 4846. (Sect. *Heeatonta*.)

B. radice obliquè descendenti fibras cylindricas verticales edenti extremitate truncata, foliis omnibus radicalibus glaberrimis pediculis paucis suffultis parvis ambitu rotundis trisectis segmentis cuneatis abbreviatissimis lobatis lobis ovatis acutiusculis apice saepius callosis, pedunculis radicalibus unifloris nudis folia paulo superantibus birds, sepalis parvis birsutis flavidis patentibus, pelalis obovatis Davis, carpellis flunioribus) glabris rostro recto apice subincurvo spicato terminalibus.

Hab. in humidis montis *Totschal* propè *Teheran* alt. 6000' Kotschy No 466.

Plautula 2-3 pollicaris uniflora, folia diametro 6-8 lin. lata, floret magnitudinis *R. demissa* et *diuina* affinis et quae a nobis plantae foliis in laniis oblongas vel lineares multipartitis ab his differunt non

BANUNCULUS GHIKOPDI in BOÏBB. et Hoben. in Kotschy pi. Pen. bor. 4846. (Sect. *Hecatoma*.)

B. glaberrimus, radice perennante fibras radicales cylindricas edenti, tollo dense fibroso, foliis omnibus radicalibus basi expansis breviter petiolatis ambitu oblongis pinnatisectis, segmentis minimis abbreviatis subsessilibus in lacinulas minutas oblongas acutas multipartitis, pedunculis tenuibus flexuosis 4 vel 5 floris folia duplo superantibus nudis ad dimidiatam vel ad medium foliolo linearibus obscuris, flonibus parvis, sepalis dorso parvis birsutis demum deflexis, pelalis obovatis flavis, spicâ carpellorum rotundâ, aii glabrâ, carpellis Junioribus glabris In rostrum longiusculum apice circinnato-recurvum abeuntibus.

Hab. propè moles glaciales In alpibus *Hasarlschal* In parte occidentali montis *Elbrus* alt. 40000'. Kotschy N° 496.

Folia cum petiolo sesquipedalia semipollicem viz lata lobis fructibus % tin. longis lineam latis, scapulis 3-pollicares. Species ambitu angustiorum foliorum notabilis propè *B. proeumbentem* collocanda quae laniis folio-

rum longè majonibus, indumento caulis adpresso, carpeWB hlrsutis etc differt.

IsopTami CABPITOBUM Boiss. et Hohen in Kotschy pi. Pert. bor. 1846.

I. perenne glaucescens csesphosum, caudttibus reHqnils pettolonnn vetustor um dense squamosis tmbricato-coñunnanbus apice foHa sea- posque edejitibus, foliis petlolo tenulasifflo basi dilatato anEUstèque membranaceo-aurlcolato suffultis biteroatis, divlslonlbuB primarlis lcn- guiscott petlolulabs segments subsessililius roiundis In lobos f-3 parvos breves ovatos obtusos ad medium vel ad basin usquè Oasis sob lente puberulis, scapis uDiQork folia pauld superantibus sob flora bractels binls laoeolabs basi dilatato-auricubtlls obsitfs, sepalls IUadnis ovatis sepnenta fbliorum magnitudine suft mnltd superantibus, petalis obovatis apice emarginatis, stylis subclrcinnato-recurvls ovarltoque papfllosfs.

Hab. in eicelsls alpis *Hasmisehal* hi parte occidental! montis *El-brus* alt. 14000'. Kotschy N» 604.

Affine cbaracteribiu et florum magnlndlDe *I. grandifloro* a qno dif- fir rt candiditubuB denslms squamosis csspltoBisque r foliorom segmenlis in lobos breviores mlnoresque dlsectis, stylis undnatls papUlosls nec redls **glabris**.

NIGELLA BicotoH. Bolss. et Heldr. \n pi. Anat. axa. 4846. (Sect. *Nigellaria*.)

N. ^labra viridiB, caallbus erectls 4 basi dlchotomiB ranúsque striclls follosifl, folliB plñnatlsectis lachnUs linearibus elonflatis acnlis, floribns parvlB basi nodto, sepalis caEruleis patulo-defleite oboTallB obtOBls basi atlenualis, petalis minutb stipitatls caneatls bUobls lobis trtangidari- OUB pañe pUosla to ladniam llnearem apice obtnaam caDosam atte- naatis, nectario ad basin exterioran Hmbl petallnl inflato ovato, lacioiâ aaccessorlâbaai trlangular! apice attenuatê Unearie basi interior! Umbl orfâ, antberia muUeU Btigmatibuaque rnbro-brunneU, stylis tn flore patoDtibus recunia, pedicelio fructlfero anguloao Incnuato, carpelUs erectiB pbaolet'tuberculatiB dorso carlnatfs In fructon obconicum pentagonum ad 1;3 loogitudinis concretU, stylis erecto-patulis frucju

DnranauM LAMGERUM BOIBB. et Hohen. ID Kotachy pi. Pors. bor. 4846. (Sect. *Delphmastnm.*)

D. glaberrimum, radice subbulboso-incrassat&, caole elato tereU lam supernè parcè paniculato-ramoso, foliis amplis longè petiolatis ferè ad basin osquè palmatis, partitibus lobos latè uncinatis acutos elongatos flosculos, racemis abbreviatis laxiusculis, pedunculo calcar paulo breviorè basi bracteis subbreviori suprâ medium bracteis linearibus setaceis glabris suffultis, floribus intensè caeruleis, sepalis ellipticis glabris apice dilatatis petalis squamatis, calicibus longioribus glabris recto ad apicem usquè sensim attenuato, petalis superioribus coriaceis obliquè truncatis præter apicem sparsissimè ciliatis glabris inferioribus basi longè stipitatis ad tertiam partem usquè bilobis deorsum et longè barbato-lanatis.

Hab. ad latera meridiem spectantia montis *Elbrus* Kotschy No 430.

Plants 6-8 pedalis, folia inferiora magnitudine et formâ ea *Aconitum lycocton* referentia, calcar 7-9 lin. longum. Ei affinitate *D. penicillati* et *smiticifolium* ab eis et aliis speciebus Orientalibus a me descriptis differt staturâ elatâ, glabritie, foliis amplis diametro sæpe semipedalibus, etc.

PAPAYEEICK.

PAPAVERB. TEMIFOLIUM BOISB. et Hohen. in Kotschy pi. Pen bor. 4846. (Sect. *Bkaades.*)

P. animum totam infero setis basi la papuias dilatata longis albis crispis patulis obsitum, caulibus e collo pluribus tenuibus consistens præter basin foliferam scapiformibus unifloris, foliis ad collum et secus basin canthum congestis sessilibus brevissimè petiolatis brevibus ambitu lanceolatis bipinnatis lobis minutis tenuibus oblongis mucronatis, pediculis fovea triplici longioribus parcè hirsutis vel glabris, sepalis longè et parcè lobatis, petalis parvis carnis coloris bad cantho maculatis, filamentis nigris setaceis, capsulâ parvâ breviter oblongâ glabra, disco stigmatifero piano rotundato sexlobo.

Hab. in schislosis finds *Schtr Den month Elbrus propē. Derbfind KotschyW»247.*

Caules cum pedunculis tripollicares, folia pollicem longa, floras eis *P. dubti* minores diametro dro. 9 Un. latl, capsula J-4 lin. longa, Planla folls tenolter dissecUs aliisque notis dlsUnctlsslma.

PAPAYEH DMBONATDV Bolss. (Sect. *Pyramidostigma*.)

P. annum vel blenne adpressē pilosum a bast ramōsum caudibus sobdlffosls flexuosis abbrevlatis ramosls intricate csspiltosis, folls parvls in pettolom brevem attenuatis oblongo-lanceolatts sinuato-pln-natta lobla paucis rotundatta obtosis, peduncūus flexnoste csespite 9-3 plb longloribus, floribus pnnicefs parvls, sepalis pareē setosls, capsulā angustē llinean-oblongā basl attenuate substiptatfi glabrā, disco siigmatigero piano quinquelobo ad centrum En umbonem .conicum producto lobls rotundatls vlx disjonctls.

Hab. In Jago Llbanl *Gebel Barttek dlcto Inter /Mr el Kamar et BasoJuya* coplosum. Fl. Jun. Julio.

Planta 4-5 pollicarls, caules procumbentes dlvaricatim ramosi brevisslml intricati subcseapltsl, floras eis *P. dulni* panto minores, capsula e Un. clrc. longa sesqlllineam diametro lata. Formā disd inter *Rhaades* et *Pyramidostigma* media ab els disco non exactē pyramldato sed piano, a priorUms umbone centraH conkso-dongato dtocedens.

FUMABIACEJE.

CKUHWUM fiurasrois Kotschy var. *braoteato* Bolss. et Hohen. ID Kotschy pi. Pen. bor. 48*6.— Major, folia cum peliolo scaplqne MO polUces sspē longa, bractea memtaranaces virentes oMongobmceolatB acuminatas pedunculos superantes, eaten spedel.

Bab. In pnentpils ad cataractas *Ser Abk Sohirr montts Elbrus* alt. 6000*.Kotachy.

CORTDALES BCT^FOLIA SQtQi. var. *subuniflora* Bolsa. etHeldr. In pi Cret. e u. 4847.— Gaulis graalia humills aplice duo folia -opposita ternata vel blternata ferena, segmenta pellolulata ovata vel oMonga obtusa, pedunculus a*IHarls foUto brevlor 4 rarilu, I flow medium

verstis bracteâ ovalo-rotundâ basi amplexkauli launulâque setaceâ
bractes oppositè stipatus, capsula subglobosa.

Ftmaria umfiora Sieb. Beib. in Greta II p. 320 Icon.

Hab. In lapidosis eicelsis montium Mto Crete. Sieber! Hajdrddi!

A. *Cor. rutofbha* spedflce non dffert. — *C. Erdehi* Zuccar. in
Munch. Acad. III. tab. 9 fig. 9. eat *C. rutafotia* Ipsa.

CEBATOCAPNOS PALASTINA BOIBS.

C. glaberrima viridis, caulibus teneris ramosis scandentibus, foliis
brenasnid petiolatis biternatis 6-9 pbyllis divislonibus 10DJ6 pettolu-
latis tnyhylla foliolis petiolulatis leneris integerrimis ovaUa obtnsis
mucronulata omnibus vel tantum nico divislonis Intennedia foliorum
supenorum In drrhnm capiUaceum nmoabsimum mutatis, racerals
oppositifoliis brevUer pedunculatis floriferis donate tandem elongatto,
pediceUiB brevlsslmis patulis bracteolâ linear! els sublongiori suffultis,
sepalis Dullis, corollâ minatft supernè suraam subrecurva roseft ad
apicem petalorum Ineriorum purpureo^violetaceâ, petalo rapenorl aliis
paululum longiori basi In calcar ovatum obtusum pedicello SBqullongum
producto, fructuB blformlboB, pluribus (In aplcâInferioribus) ova-
to-subquadratis compressis apice truncatto Iblqne operculo conloo-
umbonato brevUsimo demtan secedeatl clauals longitndinaliter paral-
lel et tenuiter eulcato-striatis demum seeds sulcos fenestratiB did
dedduta, fructibus superioribus raceml 4-1 penlatentibus Indebto-
centibus qnlntuplb longioibns iinaafi-hp^a^ia^ ntrinque attsnmrbi
parte Inforlorl semlnifera striata Bnpertorl Inanl rostrlfonnl compla-
nato-ensiforml recta, seniine solitario nlgro lovl nUidbwimo sab-
inCIUTO.

Hab. in rupestrilbw umbrosiB totius regionis montana PalgaatinfB,
in via inter *Ramla* et *Jerusalem* ad rapas et mum, in monte *Go**
rixim suprâ *Naplowe*, In montibus *Carmitl* et *Thabor*. Fl. Malo. ,

Planta tenerrima fade omninb *C. ofaviculata* rands et oanllbus
valdè Intricatis. FoUoram Inferionim segmenta MO UQ. longa lataqne,
snperlorum senslm dbmtnuta acntflora, ncemls florlferi cum pedncolo
1-8 pollicares, floras amsnè rosel magnit. eorum *Coryd. daoUmatm*,
Fructus- Inferiores 9 lin. longl Uneam latl operculo umbonato-mucro-
nato 4^4 lin. longo dausi, fructuB Buperions 6-7 lin. cum rostro
•ongi, rostro parti gemlnifera aeqoilongo vel loogiori. Pericarptnn
constans membranls duabus alter* eiteriort dflriori subcrutucel hi

fructibus inferioribus tandem seeds soloes angustè fenestrata, alter* interior! liberft tenerrimà tenoissimft rnfescentl semen Indodenll. *Ce-
nt, umbrosa* Durien ex Algeria orrhinda, cojus Iconem pflchram frue-
tùsque benevolent is clar. auctoris debeo a met Bpedflcè differt follollB
dupl6 vel triplA mlnorlbna oblongis acntt a, floribus dlmlldō minoribus,
fractibus Infeioribus dnrloribiis longios ombonatu fongosls tñans-
versè rugosls costis alteroatlm crassioribus, fructibus saperloribus
laeribus In rostram uocinato-recarvuni DOD compreaBamabeantlbuB.

FOMAHIA GDSBOHII Bofss.

P. glancescenB, caule bumill basi ramosè non scandentl, pettoDs
ednrboab, folloito crasfloaculifl cuoelformlbuB ahbrevlatie planto in
lobos angustos oblongo-lueares breves obtosos flsšu, racemls de-
mòm laiiusculis, sepals^Dvatls circumcircft dentiadatls mucronatla
corollâ tobo aeqallatia estqae 3-4 pl6 brevloribus, pedlceUlfl frocttferlB
recUlfl bractea tripl6 fructique dopl6 longioribus, fractal (medlocrt)
globOBCHsabronmresao obsolete carinato tubereolato aplice rotundato
bUoŕeolato.

F. Petteri Gnas. Syn. non Hchb. loon, nee Pariatore. *F. oaprtioata*
var. 7. ex partfl Pariatore lion. Tumar.

..... **cano (Gnas. Haldr.) Algeria (Bové**
coll. seennda H" 137), prope *Auylum* (OreJnl).

Habitus et florum magnitudo *F. offloinalis* qua) longè differt folio-
ram ndnilB longioribus remolloribus, sepals ovato-lanccottlis cuspi-
date, fructn majdrt oocordato. *F. Petteri* Bcñb. Icon, e Daimattâ dlt-
fert pettoOa subdrrbosu, folila vlridibus Bopradecompositis, aepalb
rbombelB nrlnque medium ventaB unldentatis, naculla apicnlatls. *t.*
muralit Bonder denlqoe omnium noBtra magifl afDnla eat planto laxa
deèombens, lacinlls fotiorum oblongo-lanceolatis Inter BO remotts nee
parvJs confertls, peUolis snbcrrrosiB, fructu berl; an tamen ulterlo-
rfoB*obBerTadonlbns ambo plants In nnam spedem non eniirt cõn-
~~jugatls?~~ *F. oapreolata* ab Uace omnlbUB long* dJffort pediceflte
Irntibrũ recunrta, floribus majoribuB, fructn majorl aplice sob-
trancato.

Fnuau HBCTBH Bolka.

P_w caule recto noo BCMMkol^;petiolifl ecirrbcwIB, foUorum hotahW

mnulis angustè linearibus subcanaliculatis confertis, racemis liliu-
culis, sepalis e basi latioribus truncatè oblongis subintegris acutis corollas
tubo squallatis eaque plus duplo brevioribus, floribus pallid* apice in-
tensus violaceis, pedicellis fructiferis rectis bractea sesquialongioribus
fructu ferè duplo longioribus, fructu (parvo) ovoideo laevi vix com-
presso apice bifoveolato acutiusculo.

Hab. in Castellà veten prope *Miraflores* ad radices *Sierra di Gua-*
darrama (Beuter) In cultis montis *S. Nevada* prope *San Geronim**
(Boiss.).

Folia ferè *F. pumiflora* vel *micranthae*, flores *F. offeina* Hs Bed Be-
pala Integra, ab omnibus mihi nolis fructu minuto acutiusculo diversa.
F. Petten Bcbb. pro qua amiciss. Parlatore bene plantam habet ex
icone et descriptione certissime differt petiolis subclavatis, foliorum
laciniis multo majoribus lanceolatis flabellatis, sepala ad medium
utrinque unidentatis basi attenuatis, nuculis*globoso-compressi acuti-
usculis quidem sed brevioribus.

FOMABIA AINTOLIOA Boiss. in PIDETd pi. 6X8. 4841.

F. glaucovirens, caulibus decumbentibus, foliis edrribus, folio-
rum laciniis planis augustè linear-oblongis, racemis brevibus densius-
culis, floribus abbreviatis basi pallidissime apice intense purpureis
sepalis ovato-oblongis acutiusculis arcumcirca denticulatis corollam di-
midia longioribus ejusque tubo latioribus, pedicellis fructiferis valde
recurvis bractea fructuque sesquialongioribus, fructu minute tuberculato
sphaerico apice rotundato subcompresso obsolete basi carinato

Hab. in *Canà* (Pinar), in cultis montis *Carmel* (BOISS.); mihi
prope *Yaghtiam* Teroshniliter e seminibus ex Oriente casu advectis
observata.

F. mwrantha wr.pedunculis novvu Boiss. Diagn. S. pag. 80.

Foliorum laciniis eis *F. micrantha* aublatores nunquam canallou-
late, flores breviores, sepala proportione corollas longiora. Pritu» eam
pro *F. mwrantha* Varietate habueram aed nuper in Palestina eam vi-
vam observavi, e seminibus relate colui et ab ea sepalorum propor-
tionem, pedicellis constanter eadem eximè recurvato, seminibus paulo mino-
ribus vix canaliculatis distantissimam ease HA\.

FUMABU OXTLOBA Boiss.

F. pallidè virens, caulibus asceodantibus lotricatis, petiolis subcl-

tiiosis, foliorum laciniis plants latiusculis flabellatis oblongis aequalibus mucronulatis, racemis paucis et confertifloris fructu etiam brevissimis, floribus mediocribus angustis albidis apice virentibus, sepalis munitissimis lenis ope tantum peniculis corolla multo brevioribus angustioribusque lanceolate basi integerrime unquam dentibus. M. saepe evanidis instructis, pedicellis fructiferis rectis bracteam siccam vix superantibus fructu paulo longioribus, fructu magno bibruculato-rugoso sphaerico apice obtuso eubretuso.

Hab. In umbrosis ad parietes septentrionales verticale flumidas montis *Ganztm* supra *Noploiuo*, in monte *Carmelo*, legi Aprili 1846.

Habitus et folia formae majorum *F. capreolata* sed folia fere acuta! racemi 7-8 flori, corolla demum tria lobas longa angustissima, fractis foliis *F. capreolata* majores. Affinis *F. macrocarpa* Parlatores qua differt petalis eclrrrbosis, foliorum lobiis multo minoribus, sepala ejusdem formae sed duplo majoribus basi acute dentate, fructu major! crassus tuberculato fungoso.

FDMABIA JDDAICA Bolfs.

F. viridis, caulibus subsistentibus intricatis, pediculis subdichotomis, foliorum laciniis ovatis obtusis mucronatis, racemum dentem elongatis, corollae medlocris albidae apice purpurascens, sepalis minutis corollae multo brevioribus angustioribusque oblongo-lanceolatis acutis basi acute denticulatis, pedicellis fructiferis rectis apice incrassatis bracteam fructuque duplo longioribus, fructu minute tuberculato globoso compresso acutiuscule carinato apice rotundato-subtruncato.

Hab. In *Palmtm* cum praecedenti lisdem basi.

Fides et folia *F. capreolata*, (lores paulo maiores, fructus ejusdem forma) sed paulo major et tenulter loberculatus. Ex caractere sepalorum minimorum cum solis *F. macrocarpa* et *F. oviloba* confundi potest sed ab eis differt pedicello tenuliori bracteam duplo longiori nec eam aequanti, fructu minori multo tenuius tuberculato distincte compresso carinatoque.

CRUCIFERAE.

MATTHIOLA BINOATA B. fir. var. *bipectata* Boiss. et Heldr. In pi. Gret. exs. 1847. — Pedicellus ad basin vel medium versus basi floralis

linear! obinso idtegro florem aspè snpennti suffiltili, oranla caterùm specie).

Hab. In muris castelli *Suda* in *Onta*. Heldreich legit Harte florif.

MATTHIOLA DAMABGENA BOISS. (Sect. *Luperia*.)

H. perenns multicaulis collo affrutescenti. tota Indumenta panooso crasso denso albo ad folia juoiora flavido obsita, caulums simplicibus subangulosis paulò supra basin foliosam floriferis IQ raceuum 'poet anbesin elongatum abeuntibus, follu ad collum et caullum partem infimam numerosis ovatis vel onto-oblongis subintegris vel repandis vel utrinque grossis et irregidariter 3-dentato-lobatis, ioflms obtusis in petiolum longforem attenuatis superioribus acutis ~~subsessilibus~~, floribofl pedicello calyce triplici breviori suffultifl, calyce cano basi obsolete saccato, petalate sordide flavis Unibo lanceolato-tincari calyci sobxquillongo, siliquis rectis a rachide paucis divergentibus longissimis compressis linearibus conspue et breviter giiseo-tomentellis stigmale elangostlori sbrotando bilobo terminatis, valvis nervo medio teoui percareis.

Hab. in eolibus aridissimis suprt *Salehieh* propè *Damasoum* ubi legi Matome.

Caules fructifeni cum racemo 9-12 pollicares, folia infuriora cum petiolo 2-3 pollices longa 9-40 lin. hta, siliqua i pollicares fert % Un. lataj. Pulchra species foliis et habitu affinis *M. aolifohv* tloaa. qmo differt Indumento *muHb* tenoiori et adpreaslort, petalorum timbo longiori, siliquis angustifloribus atqmate aequilato terminatis.

MATTHIOLA ASPBEA Boiss. (Sect. *Pinarta*.)

M. annua vridla tota Indumento plia sparsis ramoais conatanti aaperuta eglandulosa, caulibus pluribus teretibus simplicibus pnfâ ~~haaim~~ folto Bam In racemum post antbesin elongatum abeuntibus, folto linev-laiiceolatu obtusiusculifl Integria vel obsolete repandis to petiolum brevem looge attenuatis, calyce aesaUi bad viz aicealo, petalorum Umbo rabello-Imdo apathnlato calyd subaquaUongo, siliqua sessilibus rectis patentifloris tereti-sbrotornlosis piffi nmoafa alils albidta allis flaridu longioribus asperis, siliqua conlco Wdentalo plasmuma penpkuo terminata cornutis cornubus conida etongatto erecto vel patBDtonu.

Hab. in Bterilisaimls caltdis Judam Inter S. Sato et mare *Uortuwm*, leg! Mffio 1846

Canto semipedales, folia inferiors UpoHkaria 4-5 tin. hta, flora magnitudlnls Jff. *osyoeratia*, slllqiw bipoilocarea conmbua S tneas loagis terminate, ii. *M. oatygmtt* et *M. UffidA* DC. qua probabffiter unlus apcciei forms lantùm aunt exlmlè dlffert Indumento noo ateUalo cano brevi veJutlno aed pUia aparaiä basl slmpllcfbng supenè ramoais aaperla constantl glandnlh nullta intermlxtia, aUiquaia rigldioribns craasforibas nunqnam oontords.

MOMTTIA PHOANA DC Dell. jEgypt. tab. 33 fig. 3. non Botaa. Ana. 484S.—*M. aspemma* Boias. aan. ISM.

M. tota aculeolia atellatla obsita, canUbua craasB ascendentibus, folla breviter petiolatis oblongis repando-dentotia, petaloram UDgue sepalia asperrimis breviori, ailiqua quadnngnlla BoWncorrâ stylo protliodè bllobo termioatis.

Hab. in *Agytto* (Delle, Hiuaonl) regno *MtucaUnn* Arable (Aucher), prov. *Berber* Nubia (Kotschy N° 963!)

Moçairu CAimatNS Boiss. — *M. PhOaama* Boltt. ann. Sc. Mat. 1842 non DC.

H. tota indumento denso atellato tomentbaa cadeaeens, caulibua tenuibua proatratla, folla ovatia oblonglave aubintegria medio anbpli-catta, petaloram UDgae sobeuerto, allfquiB recduacoHa cyllndrids stricUs aUgmate sessill bUobo terminatia.

Hab. In desertia *Arabia, Petrea* (Schimperl Boiaal)
Hanc Bpedem errooeè pro *M. PhilwanA* in opere atato habaeram et Iglturdlgnosem utriuaque hlc dare ntle duxi.

NABTORTIOM ADMIW Bolaa. et Heidr. in pi. Anat. exa. 4846.

N. pennne gtabrnm, radlce aubrepenste flbnuft, folla petiohda ambtln oblongis bipflnaUaectiB ladnlla Irregularibiu lanceolato-Hnearibaa obtuala aopè dentatta, caullbna erectis parcè ramoato, petaUa Intenaè -«i§ calyce dupl6 longiorlbufl, ncenda frocUferis longig rectla, pedicelUs hortaaotaliter palendbua (ructa dapUl longtorlBM, aUlqnto obloflgl8 baai MtBDoato-atiplitto aplce qooqne angaitatta stylo eh trW6 brevlon termfnath.

Bab. In pratis ad orientem fluvii *CatanhncH* non prorul ab urbe *Adalva* Pamphyllae. (Heldreich Apnll.)

Caules pedales bipedalesve, folia ea *JV. tyvestri** referent!* sed magni dissecta, flores eius hujus speciei panto majores, pediculi fructiferi 4 lineas longi, aequales cum stylo $S \frac{4}{1}$ Ho. longa. Inter species affines *JV. anops* differunt foliis indivisis vel latis, floribus pallide hiis, *JV. tyvestri* siliquis pediculis squamis, *JV. Uppizense* foliis inferioribus oratis vel auriculatis, racemo flexuoso, aequale pediculis longis etc.

NXBTKTIV VACHOCABFDII BOLFIS.

N. perenne glabrum, radice crassa pluridivisa, eorum vesiculis foliorum veterum fibroso, caudibus erectis teretibus flexuosis foliosis parce ramosa, bulbis radicibus longis petiolatis ?d oblongis obtusis basi acuminatis TOI basi auriculatis latisque vel pinnatifidis laniatis latiuscule oblongo-linearibus, foliis caulinis sessilibus pinnatifidis laciniis 3-7 acetate elongatis, racemia paucifloris fructiferis aversatis, petalis pallide lutetis calyce sesquialongioribus, pedicellis fructiferis erecto-palatis aequale longissimam lineariter angustate compressis apice in stylum longiusculum obtusum attenuatis in-splendore formis.

Hab. In effluvia alio ad radices Antiubani Inter *Hubeya et m Mica*, legimus 846.

Caules pedales, flos dissectione soft ea *JV. Uppizense* referentia sed radice majore, binae canaliculatae longiores et tenores, silique $4 \frac{4}{1-1}$ pollicaria Uoen $\frac{1}{3}$ late. Species prolema *JV. Lippi-Menti* sed ab omnibus silicibus longissimam distincta.

~~Nasturtium~~ *HibpamouH* Boiss. et tout.

N. perenne, caule simpliciter erecto folio superne paucifloro-rainoflo basi puberulo cateris glabro, folio gibbis radice ubi breviter petiolatis latis segmentis lateralibus ntrinque 6-0 multifloris orato-oblongis venter basin sensim dimittit terminantibus sinuato-natis 4-6 plis majori, foliis canaliculatis sessilibus pinnatifidis basi auriculatis laniatis linearibus integerrimis, petalis lutetis calyce sesquialongioribus, racemo (fructiferis brevibus, pediculis patentibus silicibus oblongo-cylindricis stylo triplo breviori aequali viz longioribus.

JV. *Pyrrerucwn* Beut. pi. Hlap. &&. el Bolaa. Voy. bot. Hlap. uon R. Br.

Bab. in Hiapanlā contrail ad Sot? da *Migas* prop̄s Matritum (Hooter), a la *Carhqa del Puular* In montibua Carpetanla (Paronl), ID regno-*Granatewi*. (Bolaa.)

Narturtio Pyrenaiio babltu et cbancterUnn Tiddē afflne fled differ! notia aeqiunfibua, folia Inferora brevliu petlolata sunt Begmentts lalenllbus minorUiua plnrloribus, florea maDifeatē mlnorea, sUlquai-cylindricsB nee ut In *N. PyrmaMo* ovato-oblonge targite, | 4/4 lbieaa longs Btylo 4f9 lineam loago aptoulats cum eo pedlcellum aobsquantees nee eo tripl6 brerlorea.—*N. Pyrenaŵum* e Gallā, Gennanlā et ItaŪā, eat certiaalme apectea Umueana ex iconlbua Horlaonll et Allonll dtaUs et ex vertna • *sUiotttaovalu.*

IUeTuiTimi NotmcoM Bolaa.

annuom glabnun, caullbus erectls vel decumbentHNu parcē ramoai folla tenerla Intenaē vlrdlbua tynto-ptauntlfidla ladntta baal conflut *h̄ua ovato-oblongia groaaē et In folla auperlōribna acutē lobatU <k taUaque_n florlbiiB minotU pallldē Inteto, petalla calyeevli laqalloiiglodbDB., noemo fructUero elongato, aUlqnto Unearlbna *ih.* >mpreaaia utrlnquē breviter affenuatta rtyio Ine vl apknktfa pediceflo patulo eanun latitudlno paulb longlori aolMttB.

Hitb. In humo llmoao ad marginea prornpfoa Mill In Agypto aope-rlorl (Bolss.I), In Nubia propē *Chartwi* Kotachy pi. exa. N° 814 sob **ttMrf.**

SDiqna 6-7 Uneaa long® Uneam late, folia inferiors aaspē 4-8 poll, longa ladntla pollcarflnia. Species a. *N. pahuitri* quocum confm ibU dlattncflaalma plnnla follorum paucioribus majoriboa profandna denttlla, florlbua panlb oajorlboa, illtqata tripl6 longlortbofl rtyto Ion- glorl mi[^]nhittg apice attenuatbi.

CARDAMUM OLYMPIA Boiss.

1. u. [^]erennlt glabn vel basl bMnla₁ canle erecto aukato, folila ten[^]e-
p [^]uol s 4-5, ju[^]ls os g m [^]À tle lajsralibue ovatia aublntegrla ver-
<ta baaln decreaaentaniB Inter ae remoUuscula termllnall tripl6 majorl
rapando tanlbilla rwUcaUbw aabrotundo baal cordatd In [^]caullis, [^]ca-
neato, pettolta exmirlcnlatia, pēuUs albla calyce dupl6 longlortbofl

antheris luteis, siliquis erectis glabris pedunculum subaequantibus
apice attenuate stylo earum luteo-lineato breviter terminate.

Hab. in pratis humilibus regionis tertiae *Olympi Buhym* uM c). Au-
cibus eam floriferam ego aulcro fructiferam legimus.

C. tenen Boiss. pi. Auch. Ann. Sc. Nat. 4841 non Gmettn.

Pedalia vel sesquipedalia, foliorum radicalium Begmentum Bipari-
um diametro pollicare, flora magnis. *C. amor** vel *pratouu*, aillqwB
9-4 S lin. longae lineam latae. *C. te iera* pro qui eam babueram difert
radice atoloniferis liliquis dimidiis aagvtioribus Qoriboaque majoribus.
C. acris Grisebach differ! segmentis foliorum contiguous, floribus vtol-
aceis, Biliquis pedicello duplo longioribus.

~~Præmonitionem~~ GHJKCOII DC. var. *tauoearpa* Balis, et Heldr. In pi.
fret. e «. 4846.—Valvulæ siliquarum papillis albis elongata crispulata
obscure, omnia ceterum spedit.

Hab. in bpidoris sylvaticis montium *LauUt* in Greta supra *Maitt*
alt. drc. 1000'

ABABIB IONOGALTX BOISS. (Sect. *AhmaHm.*)

A. biennium tota parte forcatis moliter Uraata griseo-trem-
teora, caulibus erectis ferè a basi paniculato-ramosis, foliis radio-
latis rosulatis subpeltatis oblongo-spathulatis dentato vel pinnati-
fido-latis lacinis biteralibus basi elongata acuminato-lobatis obtusis-
aimis terminalibus majoribus oratis repando lobatis basi confluentibus, foliis cau-
lidibus sessilibus omnimode basi amplexicaulis cordato-auriculatis acutè
dentatis vel pinnatifidis, calyce saccato vtoceco glabro vel apice parce
bracteato, petalis albis calyce duplo longioribus, siliquis (Jtulo-
ribus) linearibus gracillimis glabris erecto-patulis,

Bab. in *Caria* (Pinard), In pinibus mootto *Solya LycuB*(He]drel6b)_k

Planta 9-12 pollic, caulibus a basi ferè thynoideo-paniculatis, flo-
ribus magoludinis eorum A. *aOrifa* a qua differt foliis profundè den-
tatis vel pinnatisectis et sepe bipinnatisectis lyotis, caulibus non
abscendens nec basi stoloniferis aed recte thynoides, calyce vto-
laeo fodumentoque bracteato neque brevi tomeotello.

ABABIB CEETICA Boiss. et Heldr. in pi. Cret. eis. 4847. (Sect. *Ah-
mattam.*)

A. perennis vridu, caudibus aubrepontibus, pilis caulis foliorum-

A-11 — 21 —

goe raulnoram simplicibus, foliorum radicalium furcalo-ramoflissim-
plidibusque Intermixtis omnibus brevibus, foliis radicalibus oblongo-
spathulatis miegris vel obsolete dentatis in petiolum attenuate, caulibus
oblonga re] oblongo-uncinatis basi rotundatis, caule simplici pauci-
floro, sepalis violaceis glabris vel apice pilis paucissimis natis, pe-
talis albis vel pallidioribus cuoatibus calyce triplo longioribus, filli-
quata planis striatis longitudinally reovolis nervo valdiusculo, apice
brevis attenuata stylo breviter terminate, semina Uma....

Hab. in rupibus montium *Sphaciatorum* Crete prop. *Askyphott*
alt. 4000'. (Heldr.)

Caules vii aemipedales, flores magnitudinis *A. muralis*, siliqua
48-41 Un. longa lines 3/4 bta. *htMtA. tnwralx* abest differtio duffe Dlo
mnK6 mente copioso, pilis partibus superlons platis alpicibus, sili-
quis paucioribus, stylo terminali paulo longior. Semina juniora out-
fimbriata aptera videatur.

AUBI- SABMBA Bolts. (Sect. *Momatium*.)

A. sawn pilis ramosis pubescens, caulibus crassiusculis basi foliolis
bynoldeobus ovatis, foliis canaliculatis ovalis dentatis basi protractis
conoblongo-auguata apiculatis, necnon fructiferis recumbentibus vix
filiformibus, siliqua rigida erecta-patulis sub lente sapientibus puberulis
compressis pedicello brevissimo sequilato gurgate BobessDi termi-
natis obtusis, vatis unioervis obsolete venosis, seminibus apterte.

Hab. in ptinibus arenosis *Cadmi orientalia* prop. *Coiosaam* la
Caria alt. 6000'-6000'. W Jnnio 48«.

Affinis *JL. ovulato* pro quibusdam did. abest aed caulibus rigidioribus
magis thyrso-nosis, necnon crassioribus vix filiformibus, flores albi
paulo majores. *SWqua A. auria* Oata tamper est gradior pedicel-
toque subulato nivalibus brevibus

•1>AW§WAICABO188 {Sect. *Alomatium*.)

A. annua pomilla tenella tota pilis ramosis hinula, caule inflexo
obovato-patulo basi basi basin florifero, racemis apiculatis,
vridere tenues Beutosas, foliis obtusis breviter ovatis obtuse repunctatis basi
sindanso cordato-auriculatis auricubus amplexicaulibus, floribus
paucis, sepalis vix, imquibus gibbibus vel stelbto-pubentibus pedicel-

vm latioribus nneruvs margine subinuosis stylo breui eia angustiori apiculatis, seminibus apteris.

Hab. in rapetribus vallium Jugl *SinaUiei*, leg! Marte 1816.

Caulis tener 3-4 pollicaris, folia els *A. auriculata* breviora magis rotundata auriculis extremitate inter se contiguas, flores dimidiis nris nores, siliqua gracior magis compressa 7-8 lin. longa. Valvulae 4 nec 3 nervis margine subinuosis. *A. Montbretuma* quoque affinis est planta multo major foliis caulis regulariter et profundius dentatis, racemo fructifero recto laxissimo basi folioso, siliquis duplo longioribus.

Hesperis UNIFOLIA Bolss. et Hohen. in Kotschy pi. Pen. bor. 484ft. (Sect. *Hesperium*.)

H. perennis glaberrima glaucescens, radice crassa vertice, caulis 1-2 elatis teretibus parce foliosis simplicibus vel supernè parce paniculato-ramosis, foliis radicalibus et caulino infimo breviter-petiolatis orbiculari-cordatis obtusissimis integris vel obsolete serratis et rotunda um repando-lobatis, canaliculis inferioribus sessilibus reniformiter superioribus multo minoribus oblongis acutis, racemo recto pauciflora, petalis cupreo-rubellis uncinatis calyce glabro sequalibus, siliquis pedicello crasso erecto-patulo eis dimidio angustior triploque breviori suffultis longis apice acutis siliquis punctatis apiculatis, valvulis plano-convexis subnerviis, seminibus elongatis

Hab. prope *Sohah Natehim* in monte *Totoohal* prope *Teheran* aff. 7-8000*. Kotschy N* 148.

Planta florifera pedalis tandem elongata, folia inferiora 2-3 poll longa lalaeque firma glaucescens. racemi aequaliter vel pauciflori flores els *H. trisida* minores et petala praesertim multo breviora, siliqua 3-4; S-4 4; S poll, longa 4 4; 4 lin. lata pedicello drc. 46 Un. longof suffulta. Spedes forma foliorum distinctissima prope *B. tritum* vè *H. quadrangulam* collocanda. Facies quoque *Monodoria* add' aemula oblongo-cylindrica eam notissime demonstrant.

PAHIATOEU BOSTHATA Bolss. et Hohen. In Kotschy pi. Pen. bor 4846.

P. seeds caules et petiolos parce biseriatis ceterum glabra, radice cylindrica vertice plurilobata, caulis simplicibus basi foliosis racemos post anthesin elongatos nudos abeuntibus, foliis parvis triangulis

lart-rouindatts obtusè et rotundatim repando-lobahs radicalibus et canlinis inferioribus basi truncato-cordatis longè petiolatis superioribus basi breviter cuneatis subsessilibus, petalis albis lineari-cuneatis calyce glabro duplo longioribus, pedunculis patentibus incrassatis, siliquis lineari-cyathodricis punctatis Inter semina oblonga strangulatis In rostrum longum tenue incurvum abeuntibus.

Hab. In valle *Vubach* montis *Elbrus* prope *Derbend* Kotschy No J36.

Gaok antd anthesio semipedales dein pedales, folia diametro 6-9 pollicaria formà anà ea *P. davata*: referentia carnosia, Biliquo peduncolo % f ;S lln. longo suffulte pollicaria in rostrom recurvora teouem fort ilin. longum abenntes. Ab omnibus speciebus generis rostro distincta, transltum Inter *Parlotoriam* et *Allianam* prabens.

Кавказский **ХАМИВ** **Ботас.** et **Ноён.** In Kotschy pi. Pen. bor. 4816. (Sect. *Otupidario*.)

E. perenne caespitosum tottum pills adpressis simplicibus (bipartitis) nbsltum pallidè flaro-Trens, caudibus brevibus basi nudis, caullibus ttanis basi densè foliolis In racemum brevem simplicem a caespite breviter elsertum abeundibus, foliis parvis utrinquè adpressè hirtis Inferioribus Qbiongo-špathjiktibus obtusto integris vel utrinquè obwletis-~~glati~~ 4-JI denticulatis basi longè attenuate petiolatis, superioribus ~~scabris~~ lobis Dgo-uneärUniB aputis, pedicellis calyce blaaeoato plus dimidlo brevioribus, glandulis placenfaris trilobis, siliquis brevibus tetragono-conipressis adpressè hirtis stylo tenui earum latitudine longioribus terminals.

Hab. In cacominibus alpium *Haaartsehal* montis *Elbrus* alt. 4000*. Kofacny N» 487. ,

Babltu, foUorum magnitudinis et formà adne *S. mpextri* DC. eed /olla tñ dentata magis attenuata, tota planta pills simplicibus nee tri-~~Hdj~~ obslfa. Affine quoque *E. Aucheri* quod foliis integerrimis angustè lineariibus cuescentt-griliiB differt. Siliqua in meo specimenio tantum semperulcem longis.

Кавказский **ооКтоаиУ** **Lim** **fiolu.** in ftnard pi. e u. 4843. (Sect. *Ctapidaria*.)

Er. plennq, caule elato acutè angulato Inferni recto simpliciter folioso superne longè ei strictè ramoso-paniculato plia adpresis simplicibus

canescenti, Cois pilis minutissimis adpressis allls trifidis altis simplici-
cibus obailis ndicalibus longè petiolatn obtongo-spatindatis dentalte
pinnatifidiB vel phmatifido-lyrattB segments inferioribus minuUs re-
motis oblongs acnth terminal! multoties major! obtoao, caollnls «ib-
sessilibus sessilibusque acutè denticolatis, summls llinearibus mimrt*
dentlculatis vel integns, floribus mediocribin, petalis pallidé flavin
calyce breviter saccato dup!6 longloribus, glandulia placentarito obso-
lett trilobls, siUquis axl stricUsslmis pllis mlnntissimlB trifidla adpressd
et densd canesceDtibus asperis quadnngulis breiibas recdi vei 6OD-
tortis et tune obscurfbs aogalatlS stylo htatndiol sum sqolloDgo vel
loDgion terminatis. r

Syrenia gonxooaula Boiw. et Heldr. pi. exs.

Hab. ta *Carxa* (Pinard), in rupestribus prope *Toheltwkch* % Plsidte
(Heldreich), Antilibaoo propè *Zebdanx* et monte *Casno*. (Boiss.)

Gauls 4-1 pedalis, habitus et flores *ET. ouspxdoti*, slliqiis 7-9 UD.
longs vel recta strict* exactè et acutiusculè quadranguls vo. „Dtorta
obsoletèque angulate. Propter slliquas a latere non compressu el
semlna uidserialla *Erysimo* nee *Syrtnia* adnajerandiim. — SUlqua
valdè varlabiles faiquB speciel me docaerant genus *Strophades* a mf
in ann. Sc. Nat. 18i9 e spedmbibus nlmis incompletis propositiB
delendum esse et ejus species mode sequenli ad *Erystmum* radn-
cendas.

Stropftoda lancaolota* Boiss. loc. en. — EBTsimm *wnovakm*
Bolus.

Strophades Itnearis Boiss. loc. at. — EBTSUDM LINBABB Hntas,

ERTSIMUM MDTABIU Boiss. et Heldr. In pi. Cret. exs. 4846.
(Sect. *Ciupidaria*.)

E. perenne nanum totnm virens pills ampllcibUB paadBqne trifidb
adpresslssimè obsitum, rtdice simplfdverticaU, coUo mntidpiU ve*-
tigùs follOTum caullumque vetostorum lnerassato, caollbiis phuibus
fliformibus procumbentibus rubellis tolà longltudioe follosb BlmpU-
clsalmis apice 8-5 flores confertos ferentibus, follls nloutis radicalibus
oblongo-spatlmlatlsln petiolum atteouatift iotegrisTel obtuse snblynto-
dentatis, cauhiB mtaoribus snbsesslUbas oblongo^lneuUnu fnteger-
rimiB, petatts calyce subsaccalo plòs duplb longloribns piimtun flarta
dein rubris, siliqua juniore brevl adpresse nirsuta stylo loogo tennl
termlnata.

Bab. ID UIOSU mottton *La**it* | Crete alt. clrc, BOOO el nriaalmd
In notfe/d* (Heldreicu.) floret Maio.

Caolea S3 polllcaraa, folia minima, flows magnHudlnis eorum
9. *ttiati*. Species caulibua fillifonnibns pefBliaqüB venlootoribiiB dta-
tinettaslina pulcheUa ex form* illlqua janioria *S. rypestn* at videtur
sffinis.

COKUNUA otAMHFLoiA Botaa. et Heldf. ID pi. Anat eia. 4846.

C gi^bra glaoflo-Tirens, follia InferioiibnB ovalo-Tel ofa)ongo«p»-
tholatiB In pettolnm brarem attenuatfo, cauHnto-cordHls amplexicaoH-
bns obtiuls anricuita rotundatffi, racemo termnali paucifloro fructifero
elongaio, floribns amplls, petals flavta calyce dbldosubdoplb longlo-
ribofl eüertls, sfil^ota tongis reetia erecto-patnUs In Kwtrum langdm
compreswnn lineare da auguatiua atteouatta, valvulis conrerria doreo
trinerviis.

ib. *inLyoia* cl. Pestalozza, In mondbua OfnuMi et *Solyma* #tim
In reglone Inferlori (HeMrelcb), In monte *GhibeUeit* PampbylbB anprã
Alaga (Haldrelch).

Florea BOB *Brnub* napi* aquaD^s, IUi C_t *Orientalit* dnplb, C. iiM-
A>noa> trlplb majona, albqna 3-3 4/1 ptiHnjte roatro 4-8 lin. tongo
tehñtnata.''

MORICANDIA ttOUMk Boiss

Mr glaberrfana gUoeo-^rens baei soffrulieosa fsmoalaaintt dnmoaa
Tamlã foUoata hornoUnls tortooals Ugnosis cortice albidã vestills an-
nottnla \4rgaUa fleuoala, folds parria obiongia carnoaolla hiperloribiiã
et nmoram aterlllam Integrlã vel obtuaè dentaUa bad euneato-fltte-
media aubpettobtta, cantntaintegria eordato-ampiexlenhiiiiB obtmlã
veJ acoftucollt, racemiB ^nntnaHboa fractlferis anbDexaoda, pett«
um bnytaabflto, petatta roaelã calyce blaacoato dtankUi tongloribar.
~~siliquis erecto-patulis angustis linearibus stylo brevi conico obtuso tar-~~
ndnatla, valYnHa Garimto-unlnervtis, aemlnflnia aabuniaerlaHbin.

Bab. fn oral Arabiã petrol septentrional! eoptoã a Jago *Tik* ad
Unite Ntaatta, Legl Aprffi 4SJ8.

Fntfes 4«4 pedallft nmoalaabiiDa intrfealo-dnmoBus, folia 6-9 Hn
longa i-a late ramenaã- Junlonim aUqnandb majofã, flona Ulãt *M. or-*
ventit fereðlmldl6 m^noea, petalorum onguea Induai. SUIqoa 1 ~~47-5~~

et Bzpe 1 4 js polHcaris lineun mam lfta Tel angaatfor. Species a If. *orvenri* egregle dltlncta caule frutlcoso dumoBO, follte parvls eis ramorum Bterlllum dentate, illttqnlslongiorlbua angnstloribus.'— HOc probabillter referenda *Betpm\$ nitent* YMan. II. Llbyc. tab. y hg, 3. Nam qmmvis In lcone folia but rotndata exhlbeantur In descriptions aup*-rriora ampleiicaulla ease dlcantar.

Pro *BrauiioA Smaica* Bolu. Ann. Sc Nat. 4841. pone *Morioandia Stoaka* BolM. quam In vallf bos *Wadi Unit* et *Wadi Atrfam* Jogl 81-nalUd legl-Jfor. *hespmdifhm*DC.- Jf. onmi/WiaGay-ff^
peris acris Forsk. abunde quoque credt In annosto Jngl *Tth* AnBU) petrea.

BBASSIOA PKMICA Bolas. et Hohen. in Kotschy pi. Pen. bor. 4840. (Sect. *Micnpod%wn.*)

B. gbberrima pallide virens, folls omnibus oblongis vel oblongo-lanceolatis basi in petiolum fongē angustatis obtusate obsolete repandocranitibus supremis lloearl-lancaolatis Integrto, canle tneato a basi paniculato-ramofo, floribus palUdlulin6 Inteta, filllquia aupra torum atlpitatis Hnearl-titragonta a dono compresata yalde loruloria stigntla' seasilll aplculatiffi, valTuHs carinaliHinlnenttB.

Br. elongate Bolss. Ann. Sc. Nat. 4841 non EbrL

Bab. to *Mesopotamia* Andier 1. dt.1 PenU Avcner lo& dl.1 tarter aegetes ad *Teheran* Kotschy N» 99.

Afflns 0. *elongate* col e apedmlnttnu Incomplelli adjnniertm,^ qua) dffert foliiffi simrato-plmiattffidla alllqutoqae style longlOMOLO aptcubtlls,

KOTHOA AIABICA BolU.

K. anna, pffls slnpllccllnu adpKasls caneiceii, ~~caulis diffinis~~, folls obtoDgo-fipaUralatts obtob In petiolam l e D g l m d. ~~attobnnt~~ ^ racemis tennnallbna basi foUoato, lloribai alblls mlnbnis, aUlqñJe. pfr* dlceDo erecto-patnlo els vti longfori suOoltls onto-orbladatla styto <els qntntopl6 brevlori aplcalatlls, vdvidta pffls sparsHtdpfeaal ^ bair •Us, loeulll 4-1 spernrfs, semlnlbus plantsanffnatē n»r«taatlfcj,

E. Libya Bolss. Ann. 4841 non H. Br.

flab.IndeaerUf figyptl(Aocher), AnUaypMMiainMrtdamliir-H»GaMlnarenosis(BolB8.),

Canlet procumbentea vii aemlpedales, affliculs dtametno vlx 4. ~~4f4~~
UD. tale. Radix anaaa et vtralse birte *K. Lybiea* Wr. Lyb. lab. 16
Off. 4 qua differt slliculis dnpl6 najorlbua, kculia H.spermb.

*P*raocAaxisP nratmATA Bolaa. et Hohen. to Kotachy pi. Pen.
bor. ~~4846~~.

P. fbberrfma batl fratindosa glanco-rtrens curia brevlbv ereotts
fbUoala neemoa post tntbe«in abbravbjtoa slmpUcceiedentttiiii, fblHa
Blnlmta cuoeaUs bad In petiotam Unearam atteooatlB trifldla ladnlls
lineerlbusacutiB, floribiu__pedlceUls fructiferis erecto-patuUs aUl-
culA 3-4 pl6 loDgloribus, BUICU14 mlnimft ovato-globOBi glabrt atylo
ejn btltndlne breviorl anpenia, VBWB convaxlssimb, aepto onto
aplee sspltu fenestrato, flinlcullB bmtaalmla ad aplcem loeoU altt»
liberls.

Hab. in saxosis Meidan Abdallah in valle Louvs montis Elbrus Kot-
echy Mo 498 et 796.

Plantula 1-3 polHcaria, caolea euffruticoal ramoei, folia 3-4 Hn. looga
I ladnlls Uneo 3; 4 tafia, aUlcnta llineam ant panto ampllua longa. E. ape-
ctarine frnetlfero Beptta pentatentlbua tanUm donate deacripte et ideà
quoad genus aubdubla, babfaa et folia omniñõ *Prtrocaliidb* aed flmt-
fcall dtaaeplnientt'iBn addad. Ban priba pto *DitymophyM* apede
ntlAfehto aeaT In 'hot 'genera aepttum llineare aDgoatlaalmnñi ~~cat-st-~~
frbcUiB non tantbm ioflatus aed a tatere compreaaau. Tonan ~~genus~~
proprinm.

DBIBA Gunci Botoa. et Heldr. In pi. Grot. exa. 484T. (~~Sect. de-~~
zoptis.)

Dr. cBaplttoa nana, follia ad aplcem caudteulorom roalatta oralto
o«w(glTONlIt*illBa(^rigIdtepecUnatoH^ ~~lntls, scapls pllis rampals~~
' taaanlaUb floriferie eeaapltto vU exierttalrocUferta elongatto, i o l t
*« panvta, petalto palllde lnteta otiyee itx dupl6 longtorBiu.s taml-
oto-oofoUiB asqollongto, raoemo fruoUfero contnrto avbambelbto,
paaaoeUf idHi*ijjp mlyMpty>ngtn brerlorfbunVy aUbnUto pilla atDgQi
tometeUh exajttelUptfda tfylfbmtaBliao aptonlItto.

Hab. In caenmine lauarw-ineitlim *Lasuti* ajU. 6000'. (Oaldretab.)
~~www.vlaDr. Solbrunnenl forb-minora, scapi fructiferi. compre-~~
eeno M/i pollicarea, aUksola ferè 3 ~~lin. longa sequillipera lnto, af-~~

Anis Dr. *Aupo* MMB et *atperat* Bertol, a quibus facile disunguntur (ID-
dumento brevi sillicula) quae apice non acuta nec. basal attenuata eat,
stylo brevissimo.

DRABA OLYGABPA Bolss. (Sect. *Aizopsis*.)

Dr. *effispitosa* nana, foliis rosulatis linearibus subulatis sessilibus rigidis
dense pectinato-dilatatis, scapulis pilis ramosis hirsutis brevibus, floribus
parvis, petala pallide flavis calycei dupli longioribus, filamentis se-
pala paulo superantibus, racemo fructifero contracto, pediculis sillicu-
lâ abbreviatis, siliculis pube brevi ramosâ hirtellis oblongis basi
latioribus inflatis vix compressis apice acutis in stylum longius-
culum abeuntibus.

Hab. in cacaminibus *Hermoms* supra *Basoheya* in *AnUhbano*.
(Boiss.)

Dr. *vesuana* quae in eisdem montibus crescit multo rarior. Valde
affinis Dr. *Hupamo* et Dr. *aspera* quae; scilicet quae quoque alte-
ouatam habent sed non adeo acutam et potius stylo terminatam quam
ut in nostrâ specie in stylo abeontem, in eis specibus quoque sillicu-
lâ infernâ a dorso compressa eat nec targida, folliolaque eis ~~me~~ **planta**
latiora.

~~DRABA~~ DRABA MAGKOCABPA Boiss. et Heldr. (Sect. *Erophila*.)

Dr. annua, foliis rosulatis oblongis in pediculum attenuatis nunc
4-3 dentatis pilis ramosis parce obsitis, scapulis post anthesin laevibus
elongatis, petalis unguiculatis calyce plus duplo longioribus ad
medium usque bifidis, pediculis silliculâ paulo longioribus, ~~sityeu~~ **JJB**
gibbata tinnibus siliqua sessili apiculata laticordata 6-7 plus longio-
ribus.

Hab. in collibus maritimis prop* *Sroynewm* in consoruo Dr. *rnw*
Febr. et Hart. (Heldr.)

Erophila siliqua Bolss. et Heldr. in pi. Anal. «u. 4&J6.

Flores tunc *S. wna* majores, petala imprimis longiora, silliculae
5-6 lin. longae fixae unguiculatae, NOD conjungendi eat ~~wm~~ Dr. *linwn*
Botanicae. quae vera *Draba* species eat. Nomen speciacum outavi ob con-
fusionem *cm Or** *nUquatd* MB,

BUCHINGEBA Bolus, et llohen.

* Calyx bad squalls. Petala eblongo-spatfaulata Integra. Stamina erecta edectula. SUIcula planissima orbicularis transversè latior stylo aplcolata bilocularis dtspenna. Septum tenuissimram. Puncali brevisiml ex aplice locnli penduli. Seralna pendnla compresalBBItna angustè marginata. Golyledones planse. Hadlcula accumbeDB. — Herba Pereica annua tenera tola pills ramosls soabrlda, Me *Aaperuginis*, florlbua axfflarlbua mtlnmia, slllcula glochidlato-pUosâ. Genus aiDldss. etd. Profess. Buchlinger Argentor. dicalum prope *Oypeolam* et *Peltariam* coDocandom, ab eti aUteuffl non Indebiacentl aseptatâ dlversum, ab *Alytso* valvlB planissimis filamentisqiiè edeotulis, a *FaneUA* denlqnè calyce baai squall, loculls nonospermls et ab omnibus floribus axillarlbua babt-tuque discedens.

BUCHINOBBA AXIULABIB BolBB. 6t HobCO. ID KOtCby pi. P6T8. **bor.**
4846.

Hab. ad yeranna agrorum propè urbem *Teheran* April! Kotschy
Nº 40.

Badlx ternda simplex, cralea 1-3 teaeri subdecnmbentfia tenuea ~~sub-~~
oompressl aulcatt pills ramosls obsM 4-6 poll. loDgl tolâ longltudlne
alteroè follosl. Folia vlrldla utrinquè pube brevl aparaâ ramosa obslta
oblooga utroque latere 3-4 deotato-serrala obtusa vel acutluscua basl
caneatim In petlolum brevem attenuata i-HfJ poll, longa 6-0 KD. lata.
'Flores ex omnibus axlllls solitarll pedicello per antnesln eta trlplo
'Tonflorl suffuldl eos *Dr. wrna* rlx aquautes. Sepala puberula oblongo-
vlnUa. Petala calycera vii excedentia recta alba. Fllamenta flllfttrmla
fflw petahs brerlora. Ovarlurt albo-strlgostaalmmii. PedrelliB fröo-
tifer reounato-pataliB vel Bubpendulus 3-4 lla. longus. Slllcuta'pla-
mdaa transverse ovata 141% Un, longa 3 tata stylo recto llineam laogo
tennlata. Semen planum dlscoldeum angustè allKHnargtiiafeni 1 lin.
dlametrolâtom lotum loculum Implens.

ftiooit* CimoA Boto. et Heldr. ID pi. Gvsl. exs. 4847.

B. gûbrtmcala lenera canHbns aaflaadrttbui elongatu fbllcân i t-
mods in racemos laxos abeunUbus,foHisprimordlalUwsovaliBliidl-

' visis, ceteris bipinnatis laciniis oblongis obtusis Integris vel lobatis, summis trisectis laciniis oblongo-linearibus integris, floribus rosels magnis, limbo obcordato, filamentis majoribus anthera linearis vix sesquialterioribus, siliquis pendulis pedicello eis dimidio breviori suffultis lato-linearibus latitudine sua 7-8 plus longioribus 7-9 aperiens margine rectiusculis acutis stylo latitudine sua quadruplo breviori appliculata.

Hab. inter saxa montium *Sphacelotieorum* In fauce *Jskyphow* dicta alt. 3000'. (Heldreich) Fl. April.

Gaulis 3-4 pedales, folia eius *R. humana* simplicia, Flores eius ejus ferè majores, silicula 16-Solus. Longitudo 3 lata.

BIOOTM CAHNSULA Boiss. et Heldr. In pi. Anat. exs. 4846.

R. pumila glaucescens, caulibus pumillis a basi divaricatis ramis similis pectiolisque birtulis, foliis carnosulis primordialis bipinnatis ovatis edbesebilibus subretusis rubellis ceteris pinnalim vel bipinnatis taeniis margine crassiusculis minatis foliorum interiorum oblongis superiorum elongatis angustis hinc inaequalibus obtusis, floribus albis vel rosels, limbo obcordato, filamentis majoribus anthera vix sesquialterioribus, loculis antheris basi subdivergentibus, siliquis pendulis pedicello recurvo eis quadruplo breviori suffultis imbricatis latitudine sua 8-40 plus longioribus 4-5 super margine subincrassatis rectis ant irregulariter strangulatis acutis atque brevissimo appliculatis.

Hab. inter saxa maritima ad occidentem urbium *Adalia* In *Pamphyli* (Heldr.) Fl. Mart., fruct. April.

Plants a-6 pollicaris, laciniis foliorum eis alfarum specierum genericis minores superiores praesertim angustissimae. Silicula 4-10 lin. longitudo lata.

Ricota BOTOATA Boiss. et Heldr. In pi. Anal. exs. 1846.

B. tenera firagillima, caulibus erectis pectiolisque breviter urticatis nimosis saepe racemos laevibus, foliis bipinnatis bipinnatis pinnatis flonibus petiolatis segmentis ovato-cuneatis profunde et obtuse 9-st lobis, floribus parvis albis, limbo breviter obcordato, filamentis linearibus longioribus, loculis basi subdivergentibus, siliquis recurvo eis sextuplo breviori suffultis uncinatis latitudine quadruplo breviori

longioribus 7-8 spennis Inter semina strangolato-sinuatis obtusiusculis rarioribus acutis stylo latitudine soft Mpl6 breviori terminatis.

Hab. In faudibus montibus (Ximaas prop* Kourmalu Lyds et In profttorio Alaya PamphyUsto m is Inter fratres. (Heldreich.)

~~Flora~~ ~~longa~~ ~~fl~~ ~~lata~~ ~~magis~~ ~~dissectis~~ ~~lobis~~ ~~rotundatis~~, siliquis 4 | S 9 poll. ~~longa~~ ~~fl~~ lln. lata. A specie procedenti distincta foliis lenioribus magis dissectis lobis rotundatis, siliquis latoribus margine sinuatis. Spedes ternis blic descriptis In genere novam sectionem formant septi presentia siliquisque ltoearibus insignem com specie antiquiorum autem habito et characteribus optimè congruentem. *Rieotia* sic extensa a *Lunana* tamen siliqua non pedicellate seminibus immarginatis, a *Pteroneuro* nee placentis nee filamentis alatis optimè differt.

SAVIGNTA ÆCPTIACA DC. Tar. *oblonga*. Bolss. — Major, glabrescens, caules ~~fl~~-% pedales, siliqua pedicello elongate sapè pedicellata suffulta oblonga nee ovals, 6 lln. longa a late. Omnia ceterò spedd.

Bab. inter frutices fa arenosis nullis *Wadi Mokatu* Jngi *Smaitiei* obi tegl. Mart. 4846.

FABRIA KDLIGAULA Bolss, et Hob- in Kotacby pi. Perebor. 4846.
(Sect. *Phigia*.)

v. bast *Buffruttea* multicaulis tola pube brevissimè stellatâ canescens aspen, caudibus simplicibus foliis apice In racemum floriferum confertum delin elongatum abeuntibus, foliis lanceolato-linearibus subcanaliculatis integerrimis obtusis infernè in petiolum longè angustatis petalis intesè aurantiaco-hispidis, nervibus calyce stellato-pilosis longioribus laminâ obovata, filamentis omnibus edentibus minoribus utrinquè glandula stipatis, siliculis erecto-patulis pedicello squallongis orbiculatis bast subretosis plants breviter stellato-canaliculatis stylo deduo multiloculis loculis 4-1 spermatibus, seminibus orbiculatis immarginatis.

Hab. In monte *Sibnu* propè pagum *Paugala*. Kotschy. N^o 103.

~~longa~~ ~~circ~~, ~~pedalis~~, folia 4-4 ~~fl~~ polite, longa supernè 1 lln. lata, ~~longa~~ ~~fl~~ ~~lata~~ ~~magis~~ ~~dissectis~~ ~~lobis~~ ~~rotundatis~~, siliqua diametro 1-6 lln. lata. A. *F.* cotype distinguitur caule magis fradeso, foliorum formâ, a *Uiculis* jorbleabta multiloculis. *F. ojuvranthifolia* differt caulibus herbaceis, stigma bifido. Nostra spedes prstenâ ab omibus aliis seminibus non marginatis differt.

FABBHIA OVALIB Boiss. (Sect. *Eufarsetio*.)

F. suffrutescens duraosa tota pilis adpressis simplicibus, ramis intricatis indurato-subspinescentibus, foliis anguste lanceolatis basi attenuatis, calyce basi squallido, petalis lividis* Davis oblongo-linearibus, silicula adpressa canescenti ovata latitudine sua 4-4.5 pl6 longiori stylo brevissimo apiculata, valvulis ad medium subnerviatis, loculla subhexapennis, seminibus late margatis.

Hab. In desertis *Mgypti* et *Arabia petreæ* (Aucher! Sieber! Boiss.)

Valde affinis *F. jgyptiacæ* qua differit silicula latitudine sua 3-4 pl6 longioribus, loculis sub 48 spermatis. Eas plantas in loco natalibus semper distinctas esse vidi. Descriptio Forskæli in quo silicula oblonga semipollicaris esse dicitur me docuit *Ch. farsetiam* L. ad speciem macrocarpam spectare.

ACBBIETIA KOTMHTI Boiss. et Uoben. in Kotach. pi. Pera. bor. 48M.

A. capitata tota indumento ramoso canescens, foliis teneris deltoidibus obtusis utrinque obtuse 4-4.5 dentatis in petiolum eis subsequenter attenuatis, racemis terminalibus brevibus fructiferis secundis 9-9 floribus, floribus parvis, calyce basi subsaccato, petalis palatis rosellari-linearibus calyce duplo longioribus, filamentis anguste alatis aliam in dentem lateralem medium versus abeuntibus, majorum usque ad apicem sensim attenuatis, siliculis pedicello stricto eis duplo longioribus aofertis setato-tomentosa oblonga inflata non compressa stylo elongato superatis.

flab. In saxosis pneruptis regione *Mwah Mahal* montis *Elpu\$* propè *DSrbend*. Eotschy N. BO.

Floras eis *A. deltoideæ* dimidiis minores. Affinis *A. panriflora* Bp. qns differt filamentis omnibus dentalibus, pedicello siliculam quantulum stylo aucto squallongo.

AUBBIBTIA LIBAICOTICA Boiss.

A. densa cespitosa tota pube rana cana, foliis multibus oblongo-deltoidibus in petiolum attenuatis atrinque supernè dente auctis acutiusculis bipinnatis integris, racemis e caespite breviter caespitibus S-4 floribus, floribus medio-crispatis, calyce basi saccato, petalis purpureis linearibus calyce plus duplo longioribus, filamentis angustatis

alâ minorum in dentem lateralem apicem versus abeunt, majorum usque ad apicem sensim attenuate, sillicidis pedicello flexuoso eb 3-4 pl6 kmgtori suffaltis oblongo compresso stenato-canescens stylo eis equilongo vel paulo longiori apiculato, sendm Mig oblongo.

-Hah. in *Libano supra Cedro*. Legi Jnl. 4846.

Habitus *A. Columna*, folia apice 4 4 jl-J Un. tantum lata, flores Inter BOB *A. delto Uea et parviflora* magnitudine intersmittit. Ab *A. delto* de & erubescens* et *Columna* allentis non plura minterve commensurate, a posteriori cui prorsum affinis stylo allentis non duplo longiori. ab *A. Kotschy* foliorum forma, pedicellus stylisque elongatis dwerw.

ALTBSDM ELATDH BOIBB. et Heldr. in pi. Anat. exs. 4846

A. perenne basi caulem herbaceum elatum teretem parvè squamulis BteDatls obsitum spernè panicato-ramosissimum ramosque steriles Intrescitur basi imdos apice densè foliosos lepidoto-canos edentis, foliis ramorum sterilium adpressissimis lepidoto-stipulatis cantu Bpatnulatls apice rotundaUs in petiolam longè attenuatis, canaliculis sparse viridibus panè squamuloso-stellatis spatulato-subretusis, foliis ramorum in minimis, floribus parvis intermixtis flavis, petalis calyce panè squamulis albis consperso subdiplo longioribus OTato-floribus Integris/Mcemis fractiferis abraratis, pedicellus capillaribus patulis lenticulis filliculis esqallongioribus, filamentis omnibus basi appendice Ifaiguabnna apice subdentato eis squallongo ancilla, silliculis glaberrima orbiculari apice retiuâ stylo brevi tenuissimo apiculata loculis 1-spernis, funculis liberis, seminibus in una Uiris angusta marginalia.

Hab. In tota *Anatolia meridionali*, *Caria* in regione sylvarum ad meridiem *Cadm* sita (Bolss.! Plnard.1) ad raper portas fitepti Lyda (Heldrelch), In *Tdura* Kotschy N« 44.

A. tbrimm var. *Oriente* Solas, pi. exs.

Planta 4-5 pedali, folia ramorum sterilium cum petiolo 6-9 un¹ longa apice 1 Un. lata, silliculis diametro ferè 9 Un. lata. Donec, spemina fractifera legessem dicitur bane plantam habet pro Ytr. *A. Corgiei* quod eodem gaadet habitu et crescendi modo sed differt foliis sulculis triplo minoribus eis ovatis basi attenuatis.

ALBISUM CUNULATUM Bolss.

A. perenne basi caulem elatum teretem parvè atellato-lepidotum *pl«

corymboso-paniculatum ramosque steriles breves suffrutescentes superfructuosos canos confertim foliosos edens, foliis ramorum sterilibus dense lepidoto-canis angustè linearibus subcanaliculatis, foliis caulibus floriferis parvis stiliato-puberulis ovato-virentibus, floribus medio-lobis flavis, petalis calyce parvis lepidoto vix duplo longioribus spatulatis raris, filamentis staminum minorum internodiis appendice hinc formis auctis majorum utrinque alatis alae apice dentem abeantibus, racemis fructiferis valde contractis subumbellatis, pedicellis capitulorum flexuosis silicula sesquilineam lata. Species precedenti affinis sed ab ea forma foliorum, fructu stellato-hirto et ab omnibus mihi notis silicula narffine crenulato ductis distinctissima.

Bab. in collibus ad radices meridionales Ingi *Caam* In vtil Inter *Latakith et Suadteh. Legi Jun. 1846.*

Pedalis vera aetior, folia linearis pollicaria. Corymbus terminalis confertus. Silicula diametro sesquilineam lata. Species precedenti affinis sed ab ea forma foliorum, fructu stellato-hirto et ab omnibus mihi notis silicula narffine crenulato ductis distinctissima.

ALTBSDV CASSIUK BOISS.

A. bleone caule elato spinis solitariis rubro dense folioso pilis stellatis sparsis obsito supernè confertim et ramosissime corymboso, foliis mapis oblongo-lanceolatis obtusiusculis basi longè attenuatis «essibus virentibus utrinque pilis sparsis atellatis obsitis, ramorum multifloris angustioribus, floribus medio-lobis antrorsis, petalis calyce parvis stellatis piloso vix duplo longioribus spatulatis apicibus tris, filamentis staminum brevioribus basi appendice ungueformi ubero anetis, majorum utrinque alatis alae in dentem apice abeantibus, silicula ovata utrinque subattenuata pilis stellatis spatulatis stylo longioffculo apiculata, localia unilobulata, seminibus (immaturis) angustis alatis.

Hab. In agris derelictis et omnibus ad radices Jugt Owtf 1) «tater meridionalium cum precedenti mixtum.

Gaulis 9-3 pedalis, folia linearis poll, longa 9-4 lin. supernè bifida, «fif» rari terminalis densi multiflora diametro 4-6 pollitcam, nunc utentiam 9 lin. longa sesquilineam lata. A precedentibus quorum ~~faciem~~ ~~in~~ ~~M~~

catenâ neglectis radice bienn distoetisaimum, taâc nott solo A, *Wtar**-*biakit* afflnc quod dlffert caule racemum simpllcem longom edenli, floribus sUlcullisque majoribus etc.

ALTSSUM IDADV Bolss. et Heldr. ID pi. Gret. exa. 4847.

A. perenne muJtcaule totum squamulis margine mlnutluimè flm-
briatis argentaovlrens. caullbus basi nudls tenoibiu berbacels pro-
Btntte ascendentibusva fbliosla simplidibus brevifras In racemiim etlam
fractlfenimbreviflsunum subumbeMain abeuDtibus, folilsovatlBOblong-
gve obtasls basi in petlolnm brevisstannm atteiraatts, petals pallldè
lulois oblongu Integns, filamentis longloribos alatis al& angusiA ad
tertlam partem fllamentl obliqui trancati, brevloribiïB basi appendice
brerHsünâ llberl inatructM, pedlcellia patentlboa siDculam ovalam
aplice retDaam glabernmam vlrdem subaesiam nquaatlbuB, stylo ter-
ntinali sUiculum dinudium btltudinem subsequanll, localls moDospermls,
Bflminibus anguslisslmb alatis.

Bab. ad aaxa cacumlnum montis *Ida* act 6000' rarum (Heldreich).

^ *Habitus et modus crescendl A. Wulfenwni* quod a nostro dlffert
florlbiis dupl6 majoribus, indumento non squamulis sed pibs stellatis
constant!, stamlnum mlnorum appendice mult6 majori filamentQ vli
o-rerlorl, stylo Bllicule latitudnem subxquantl, sUcull plus minisve
stipitate floca' etc.

ALTSSUM SPBACIOTICDW fioiss. et Heldr. in pi. Gret. e.u. 4847.

A*,perenne caBspitosum totum sqnamolls stellatis denslBsimè argen-
tao-lapldolttm, caullbus brevtasunis herbacea densè foliosls simpUol-
buhl tploe ncemum sub antheal ob pedunculofl Infenorefl longisslmoft
eorymbosum fructlferum sabelongatum formantibnsf folls ovatb ob-
loniwe QbDBa basi attennatis Bubsessiltbus, petaus intenaè lately
oUoagb'liitegrlB medtto dorso steUatim plloais, JUameitïa najoribus att
fppil medium in dentem abeuntt mlnoribus appendice oWongft ela di-
'mbUa mlnori stipaUs, pedkelUs frocUferls rlgldls patulls •flcala o?a-
to^fOtJindl densè flflpidoto-argenWa aplice retasa stylo bravl apicubrta
dupl6 longioribus, locolls monospermls, semlnibusangustlasiae **mar.**
6 -- 2.

Hab. w ntonte *Stravopodw* cacumlnne ewejso jugl SpAooiofici **rarum**
(BaUnleb).

Crates 4-3 polUcares, habitus et floras A. *Atianttn* a quo dffert caulibus simplicibus oon suffruUosis, racamls per antheata propter pedloellos Inferiores elongates corymbosis. In A. *Atlantioo* prstereâ dentes filamentorum majorom ad apicem aiti aunt, appendix filamentl mlnoris eo vlx brevior, sillculs stylo longo aplculaue.

DIDTHOPB TSA ACCBDI Boiss. var. *tenophylla* Bolss. et Hohen. — Foliorum latinls liearl-setaceo acutiisculs nee obloogo-lineares. Si-licate minoreB.

Hab. ID montibus *Kuh DaUna* Persia? australia Kotschy N« 784, monte *ElvMmd* Aocber N° S47.

Hso planta forsâo rursûs observata et quoad floras (DUDC fgnotos) nota, a *DulymophysA Auohen* geuloâ ex alpibus *Elbrvi* oriundâ spe-dflcè distincta ent et bine *D. Kotsohyi* appellanda. — *Didymophy\$a* floras mlhi ID ADD. SC. Nat. 4842 ignoti, DUDC e specrarimbus *Kot-scbyaDis* ex monte *Elbrus* sic desenbendi. Calyx basl sequalis glaber. Petala unguiculata calyce duplb longiora limbo ovato albo. Filamenta| edenlula. Glandulae DUIS. Stigma capitatum.

CARPOCERAS Boiss

Thlaspt Sect *Carpocwas* DC. Prodr. Don A. Bich.

Calyx basi squalls. Petala integrassqualla. Stamina llben edènUda. Glaudute minntisstaiuB bin® ad basin staminum minonim. SULcuJa ttar tere compressa a basl ad apicem dilatata obversè trlangubris apfo&slnii lato lunulato bicornuta stylo apiculata. Valvuls dorso acutfe nayta>> lares aptera. Locuh bl-pluriovulati. Semlna oblonga punctulata vel sulculosa pendula. Fumcull basi dllalall. Badicula propè ceBUDte&nrarn cotyledonum sublateralter slta. — Genus herbas Orientales annuas biennes vel perennes fade et chancterlbus *Thlasptdi** dooatas toil quarum sUicute apters sunt comprehendens, ab *IberideUA* qua qno-que valvls apteris gaudet aifculâ aplce cornuta sendDlbiïBque HOD no-torrñlieiB distinctum, non wnfundendum CUD *ThUuptdu* Sect. *Aptery-gwm* Ledeb. quod e *Th. pumtio* constans valvulaa quoqnefferè aptafas habet Bed utnnquè altenuatas pronûs e cornulas, semioa ngular tter plenrorrhizea el quod a *Th. rotundifoho* geuencè gfjupgUwqut.

CARPOCKHAS Sumicov Boise.

C. aonuum glabrum, caule erecto aimplci aut vix ramoso, foliis (r»-
dicaUbus obovalis Bubpetiolatis cauliois oblongo-lanceolatis Integru
denticulatisve baai bastato-amplexicaullbus, petaUs liean-cuueatiB'
calyce paulb longlonbus, silliculâ ovata cornubus plants lanceolato-
irangularibus silliculae subsquilonis subarcuatis, loculto dlspermls,
Btigate sessilf, semlnUnis tongitudinaliter et arcaaUm Bolcato-strialb.

Thkupi ceratocarpon Murr. — DC. Prodr.

Hab. in *Sibirid*.

CABPOCKBAB OXTGBB&B BOIBB.

C. glabrum blenne, canle dato erecto terett lsrl foUoso superafe
corymb680-paniculato, follis radlcaUbiu oblongis longè pedoblis, cau-
IIOIB oblongis obtusls bast rotundatm auricalato-amplexicaallbuB, pe-
tallB albls llineirl-cuneatts calyce duplb longioribus, racemls fructiferta
longlB denslfi, pedcellie patulis silliculâ dupld longioribus, sillicutt oratâ
compreBsâ quadrangola cornobua BubsAacels rectlB sDlculâ dlmlldfr
brerioribus, stylo terminall cornubus paulultm brevion tandem ded-
HDO, IOCUIB dlspermiB, Bemlnlbus punctulatSt

TMaspt omyeenu Bolas. In Hoard, pi. *Syr. at*.

Hab. In nemoroals regionlfi Inferlorb Jugl Cunt Inter *Cauab* el
Suadieh.

Planta 2-84 }8 pedalls, flores magnit. *Thl. aroensu*, valvula cum
conra 3 lln. longa. A. preeedentl egregie differt caule ramoso, sill-
calls minûs compressis pbeentorum promlneDtift quadrangullB, cor-
nubussUiculs tenulasmls, floribus duplb maJOFibus, semtailbus potto-
tulatU Dec silicate.

GiiPoatBAa snNociBPDH Boiss.

~~g. t.~~ gtabrnm perenne cfflslo-Tlrens ~~—i''*«»'«.~~ canUbos lottorii atan-
~~dicibus pumilis racemum floriferum~~ capltatUB frncUfDmm elongataun
edeatibug, follfa radkalUmi nnmeroâu rowlitu ovatb petlolalla inte-
grto tel snbrepandlR, caullnla sessdlbu bastottHampleicaHllbttb. basi
mlMIè denticulatis auriculb mlnlmD oUongo-ltuearibus, petatts
etolongomnearlbue albu calyce aploe Tlolaaceiitl dupH» longiortbw,
silliculis pedloello erecto-patulo els breriorl auffullis obversè lanéo-

lalis, cornubus plams tnangulanbus siliculâ sexluplb brevionbns, sl>lo termiDali cornubus dlmidib breviori, loculis 4 spermiB, semlnibus minute puuctulatis.

ThUupt stenocarpum Boiss. et Hobe. In Kotschy pi. Pen. bor. 4 846

Hab. propè mves in monte *Totschal* propè *Teheran* Kotschy N" 466.

Gaules fructfen semipedales, planta florens *Th. praoot* vel *oooh-
ieanformi* shmlima, Bdicula Blin. longa apice vix sesquUineam lata.

CABFOCEJUB HASTULATUW BoISB

G. annuum glabrom pluncaule, caullbus ascendeatibuB slmpUdbuB vel parc& foliosis racemum ifirmloalem pauctflorum tandem elogatum edentibua, follis UHDIUS radicalibus ovato-rotundis bravter pellolatiB caulims oblongis vel oblonfo-bneanbiu denticulatis acutiusculls basi baslato-amplexcaubbus aunculls mlnutis oblongifi, petalis oblODgia roseis calyce triplfc longionbus, siliculis pedicello erecto-patulo eta |mftb brevion suffultia obversè linean-lanceolalia apice truncattt, cor-, aubus \aldè divergentlbuB subhorizontallbus Uneari-bmceolatis sUicolâ 6-8 p!6 brenoribuB, stylo cornubus squulloogo, loculis 4-6 Bpermis.

Thlatpi hastulatwn Stev.—SirtoAinwa *hattulata* DC. Prodr.

Hab. in *Georgti CauoasuA* et *PentA boreah.* (DC.)

TBLABPI HIQBomLUM Boiss (Sect. *Newotropw*)

Th. blenne vel perenne glabrom canlo-vlireDB, canlibus pluibus ascendentibus brevibuB foliosis aplice in racemum eilam fruAifermn abbrevataiB abeunUbua, follis radicalibus minutis ovatis petlolo els dnplo longiori Buffultb, caullnis oblongis acutiusculis basi acutlusculè auriculato-ampleucaulibus omnibus integris vel vix et parcè dentlcuJatis, floribus. . . siliculâ pedicello patulo crassiusculo eâ breviori suffultâ obo^' vata basi angustata rapernè profundè et siii u acato obcontotâ, aM nerv»' marginatâ supernè loculo latiori, lobls emargmatura litere extériottrotandatB interiori aculuisculis, stylo brevissbno emargnatura qnt-drup|6 breviori, IOOJIB quadriovulatis/senUDlbua laffibus.

Hab. lu regione montaaâ sylvatfcâ *Caan* in *Sgnd* boreal! undè specimen unicum frnctifenim retoli.

Caoles 3-4 poUicares, folia 4-6 tan. longa, racemus frnctifer poHicem longUB IS-to siliculowis. SilicubB 4-4 4}S Un. long* apice S Un lata. Specks in <nvtone t-aeterla neglectis radlco non annuA dlBtinètt.

TRILAPPI KOTSCHYANU* Boiss. *ol* Hoben. in Kotschy pi. Pfirs. bor. ISM. (Sect. *Neurotropts.*)

Tb. annum glabrum glauco-virens, caule pumilo simplicissimo folio racemum in anthesi dense capitatum dein subelongatum edenti, foliis ndlcahbus o\ato-roUindl8 rubellis longu-wule petiolate, caulibus ovalis obtusis integris anricato-amplexicaubbuB auriculis rotundatis, flonibus minhnls, pf [alls albis oblongo-linearibuB calyce violascenti subduplo longioribus, sdculls pedicello erecto-patulo el> subaequilongis suffultis orbiculato-obcordatis, omarginaturft profundâ ad locutum apicem usque product, stlgmate In sinu angusto sesain, alâ baal angntatâ supemfe laUsslmâ nervo tenui marginatâ lobis utrinque rotundatis, loculte i ripenniB, BeminibusfaeribûB.

Hab. ID monte *Elbrus* supra pagum *Paagala* Kotschy.

Spedmina mea florif. bipollicaria fractif. B poll, longa, floras Illta 7% *arvensis* minores, aillcula eâ hujus minor et pnesertim brevior (jfiameiro >6 lin. lata; ab eo praterâ dffert alls marginalls, semlnibus tpevlbas. 3% *orbiculatum* Stev. a nostro dffert fiUlcuia major!, all 'terro Talidissimo dntâ lobla inter se contlguis, enurgliaturft angDBtt param profundâ usque ad apicem locolonn non productâ, stylo longiflori, loculis 7-8 Bpermto.

TBLABPI ooHBOunrcui BOISB. et Heldr. (Sect. *Pteratropii.*)

Th. perenne glabrum multicaule. caudicibus brevibus induratis In caespitem coarclatis, caulibus pumilis foliosis racemum unicum rarHu bnos sub anthesi capitatos dein elongates edentibus, folilsradicahbnft OTatisobloDgisve obtusis intpgris vel BubdentlcubiUs in petiolium els brevior attenuate, caullolB oblongis acutis cordato-ampleitidlbuffl brevivimfe et rohnndattm anriculatiB, petalis palUdè ocñroleada calyce rabello pits duplb longioribus, antheris flavu calycem supennttbott aUknltâ pedicello patulo els paulo longiori suffulbB (luqioribus) oboordatis bBt attenuabs aplice breviter emargiatiB, alâ supemè JattodlntiD D&IU equanti, stylo sUiculâ vix breviori, locnUs 4 ovidatts.

Tl), *Ugmu* pi. Heldr. Analol. exs 4846 non Bol88.Dlagn.

Hab. ad Dives in regione superiori montis *Davrtu dqgh* alt. 6400V iDi»uidid(HeWroldi)TID *Maoedmxce* alpbos si specimen acl. ~~Fi-~~wulsky mihl sub *Th. alptnt* nomine mlBram hoc rect^ refero*

HaWtuB et flores *Th. preeceoçu* a quo diffirt pebdis ovñroleud^Biyto

multò longior. *Th. elegant* cm primum incautè retuleram diyersissimum est caule corymboso, foliis cauhnis abbreviatis ovato-rotundis, sepalis flavids, petalis albis, loculis 6-6 ovulalis.

TBLABPI TAYGETBIM BOUS. (Sect. Pterotropu.)

Tb. perenne glabrom multicaule, caudiculis brevissimis in cespitem coarctatis, caulibus foliis simplicibus racemum floriferum capitatum fructiferum elongatum edentibus, foliis omnibus plus minusve denticulatis radicalibus oblongis in petiolum eis longiorem attenuatu obtusis, caulibus oblongo-linearibus acutis basi acutè auriculato-cordatis, petalis albis calyce rubello subtriplo longioribus, antheris violaceis calyce longioribus, siue pedicello petalo-reflexo eis duplo longior suffultis (Junioribus) obcordatis basi attenuatis apice breviter emarginatis lobis brevissimis rotundatis, ala valvularum superne loculo xquilaterali, stylo silicula dimidio breviori, loculis 5 ovulatis.

Hab. in regione sjlvaticà Inferiori *Taygeh* supra *Mtstra* ubi togi florif. April 4842.

Habitus at floras omnino *Th. praeoea* vel *ochroUuoi*, ab utroque foliis omnibus manifestè denticulatis caulibus angustioribus acutiùs auriculatis, antheris purpureis nee Davis, a priori iterum lobis *AYimjk* multò obsoletioribus, foliis non rubellis, a posteriori petalis albis styloque breviori distinctom.

THL&SPI STBMOPTBamiBouis.et Rent. (Sect. *Pterotropis*.)

Th. glabrum perenne, collo fibrillis foliorum decedentium obsito canlem unicum simplicem parvè foliosum edenti, foliis parvis radicalibus rubellis ovato-rotundis petiolo eis longior suffultis, caulibus remotis oblongis acutiusculis basi breviter cordato-auriculatis, petalis albis calyce duplo longioribus, antheris flavis, racemo fructifero abbreviato denso, pedicellis patulis simplicibus subaequalibus, stylo angustè obcordato-lanceolatis basi longè attenuatè apice sinu rotundato emarginatis lobis rotundatis brevissimis, ala jam medium fructum versus loculo quadruplo angustiori ferè obsolete, stylo emarginaturâ triplo breviori, loculis brevibus, seminis hevis.

Ep. in *Sierra de Gvadanama* GasleUae veteris supra *Mt Pender* (Renter).

Plants fructifera 3-4 pediculis, folia radicalia diametro circ. 3 linee

lala, caolraa 3-4 longa, flores eis *Th alpestris* majorea, *Th. montani* mlnores, sillcula 3 lln longa apice 4 *ift* lata. Species silicon bas longè attenuatis longft stylatis angustlsslmè alatis a *Th. mantano* quod ailiculas basi rolundaias taabet divereisslma. Afflne radice perenni *Th vvrenti* Jordan quod distinguitur foliis inferlorfbus oblongn basi long* attenuate, anthem purpurris, sillculis multo breviortbus, emarginata lobia suboullis.

SOBOLEWSIIA STILOBA Bolss ot Hoben in Kotachy pi. Pen bor
4846

S ghberrlmaglauescens collo csespltosè pluricaull basi squamow), flblils radieilibus petiolo els multoties longlori snffiltils rotundato-cordatis obtusè lobatis subcoriaceis lobis 7-9 tngularibus, caulinis ad ramorum ortnm paucis minutis subseplibus cuneato-trilobis indivfslsve, caule supem^ brevltter paniculate, petalis albis calycepafentl-deflexo membranaceo duplb longioribus. racemls fructiferls vix elongalis, silicuh pedicello tenul patenii eis duplb longlori suffultis i latere oompressls oblongo-elliptids utrinquè attenuatis in stylum ~~longiusculum~~ stlgmate capllato termlnatam abeuntlbas, locuils disperslms.

Hab. In declivibus septentrionahbna montis *Elbrus* propft *Dsrbrmd* Eotschy N» B5

Habitu simillima *Graellsta Saxtfragtfolia* quus silicnlā a dorso compressā i^on septatā monospennā generic^ differt. *SobolewsJaa UthophUa* differt folus multilobiB, siliculis oblongo-lineaibufi mnticls. Hoc genus in DC. Prodr. incomplefè describitur et ejus silicula uniloculariB monospenna ease dicitur sed cl Ledebour qui probab. specimina meliora antè oculos habuit, in florā Hosslcā siliculam a latere compressam dispermam esse dicit. quod meae plants convenrt. *Sobo-Imoskiam* igitur inter *Thlaspideos* recensendam esse cenao sed cum •Uiculas junlores tantdm viderim nescio an septate vel prorsus esepftteshtf et embrynnls forraam non novl
pe

^OSSABDIA PAPTUCBA Dolss. var. *Kotschyi*. — Silliculx apice et tiam basi submarginatae caeterum omnia speclcl.

Hab. in declMbu septentrionalibus montis *Huh Barfi* et *Kuh Delu* 'ersfae australls Kotschy N» 513 et 387.

Ex specimlne Aucheriano *B. papyracea* a mp vlso sillcula basi atte-

nuata aplice Totundata eat, in altero specimimim cl. Kotachyi siliculas juniores eadem formā donates ndi et hanc fonuam ide6 vanabilem csse autumavl. Si tamen ulterior observaiio siliculas utnusque matu- res suam formam peculiarem servare doceret hoc in speciem aub *Br Kotschy* nomine engenda «sset.

EDNOMIA SUBDLATA BOISS. et Heldr.

K. perenns glabra, caulibus breinssimis auflhicosis procumbeuti- bas caspitose ramosis, ranus brevibus simpllicibus usque ad racemum sub anlesl captatum dense foliosu, folns tenuissimè subulalo-sub- teretibus atriabs acutis, petaus roseis calyce rubeUo bisaccato d_Upl6 longionbus Integra lmearl-obloogis, filamentis omnibus ezalatis eden- tulus, anthena luieis, sillculà pedicello alncto eà vii brevion sutuia ellipUcàcompressi basi rotundatà aplice snbretusà, alà marginali aD_ gustissimà a parle dimidià apicem veraüs fimbriato-lacera, stlgiaat'' aessili.

Hab. in parle occidental! montia *Gheidaghimri* Isaaricl alt. 8Un (Heldreich). Fl. Julio.

Suflhiticulus 4-S polhcaria, folia 3-4 tin. looga tenuissina, floi- amaenè rosei eos *JEth. seasattltt* aquantea in racemum dense capitatu- diapositi, aihculx S hn. longs vix aesquidineam lats, habitus *Ibert- delta eapstioscB* Boisa.

Semlna generis *Ibertdella* quæ nondom observare potueram ex spe- ckninibus fhicUferia *l. tnturma* et *sagittate e* Persià a d. Kotschy relatis notorrfalzea sunt ut jam suspicaveram.

~~ETNOMIA~~ GBANDIFLOBUH BOISS. et Hohen, in Kotschy pi. Pen. bor. 4846.

JR. perenne glaberrimum glauco-virens caulibus brevibus auffru- teacentDnis ramos tenues elongates virgatos foliosoa simplidusculos ascendentes vel prostratos edentibus, folus linearibus obsoleUMnlner- TMS basi attenuatis obtusis sspè mncronulatis snmmis angustionbl_ racemis flonferis laxiusculis, petahs purpureis afeniis integris caly| violaceo-nlgrescentl 3-4 plò longioribns, flameDUs majoribns basi alam edentulam obliquè evanidam dilatatis, siliculis pedicello all efs squllongo auffultis orbiculatis transversè aublitoribua basi rotun- datia supernè sinii anguslissimo ad medium usquè emarginatis, lobis¹

R 217

emarginatune amplis rotundalis diametro loculi subduplo latoribus sen margine obtegenibus emarginaturamque cindentibus, alâ marginali a basi angustiori sensim dilatata circumcircâ obsolete deuto-repandit, stigmatibus sessilibus, loculis monospermis.

Hab. in fauce *Sehtrdere* raontis *Sibnu* Kotschy N° 484.

Var. *p. parviflora*. — Fiona ferè dimidiò minores ceterum omnia speciei.

JEth. oondxfolum Hort. bolan. plures non DC.

Hab. in *Penia* Aucher N° 343 et 4419 A, in monte *Elbrus* prop* *Asadbar* Kotschy W> 455 Colitur frequenter.

Species pulchra floribus expè ea *Arbutis Alpina* magnitudine aequantibus, ab omnibus aliis speciebus generis filamentis majoribus edentibus basi angustè alatis diversa. Varietas *p.* frequenter confunditur cum *M. conditbho* cui ut synonymon adducendum *Lepuhwn leiocarpum* DC. et quod est planta LibanoUca diversissima ramis brevibus firmis crassisculis, siliis dimidiò minoris alis latere interiori concavisculis, staminibus majoribus basi dentatis. Eadem varietas a me ipso in Ann. Sc. Nat. 484S pro *JEth. membranaceo* DC. aompta 'iit simili quidem sed quod differ! alis fructibus integerrimis, sinu emarginato non clauso, staminibus majoribus apice dentatis, stylo sinum dimidium squaatur.

¹ *JEth. stylatum* DC (niod in Ann. Sc. Nat. cum *Lspidto Imoearpo*. — *Alh. oondtfolw* conjunxerunt ab eo specificè differt. — *JEth. Beyrieu* Tausch nitil aliud quàm *JEth. erutatum* esse videtur. — *JEth. polygaloules* DC. ex ins. Scio est *Crenulanaorbiculata* Bobs.

femmuwi CARDIOPHILLOIDV BolSS. et Heldr.

JEth. perenne glabrum glauco-virens basi fruticosum, ramis rigidis erectis foliosis supernè 1-3 racemos post anthesin elongates edentibus, foliis deltoideo-cordatu carnosulis sessilibus acutis lobis inferioribus rotundalis, petalis roseis calyce basi aequali sesquilongioribus, filamentis majoribus alatis sub apice latere interiori denlata, siliis pedicello recurro eis subsquali suffultis ovatis basi breviter et sinu lato emarginato-TetubiB, alâ a basi ad apicem sensim dilatata bicero-fimbriatâ aplee in lobos aethuculos loculo aequalatos abeunt, stylo emarginato multo raperant. loculis biovulatis.

Hab. in montibus topiaceis supra urbem *Bouldour* Pisidii rarior (Heldreich).

Gaules semipedales, folia ca *Polygala cordifolia* referentia VII 41 in longa lataque. Raceiui fructifera a-3 pollicares, flores eos *Eth. tasoa-Utts* squantas, sihcula a UD. longa. Ab *Jith. fimbriato* fohorum forma statim dignoscendum, tiabitu quoque *Eunomtam cordatam* refert a quâ flonbus roseis el genectis filamentis majonbus dentatu discrepat.

ATHIONEMA TiiEsiiFotiuH Boiss. et Heldr in pi. Pisid. exs. 4846.

JSXh perenne glabrum glaucescens basi fmiticosum, ramis virgatis elatis teretibus fohosis supernè pang corymboso-pamculatis, folns numerosls strictis eocrvus llinearibos ulnnquè angustatis acutis, racemis fructiferis capitabs dein elongalis, pelalu pallidè roseis purpureo-pictis calyce basi bisacvalo virescenti dupl6 longionbus, slammi-bns majonbus angustfe alatis latere interior! sub apice dcdtatis, ovano elliptico august alato stylo co longion superato, silicuiâ

Hab. in saxosis monlis *Olklatschx* propfe *Egtrdtr* in *PutdiA.* (Ueldr)

Sniipedalis, folia majora pollicem longa sesquilineam lala Flores illhs *jEth. texattlut* subdupl6 majores, caullbus elatis racemisqoe flo-i nferis confertis aflne *Mth stenoptero* quod differt folns brevionbusj obtusis, (iUtnenlis gibbosis etc

LEPIDIUM CHASIFOLIUM W K Var *ramostimum* Boiss et Heidi, in pi. Aoot. exs 4846. — Folia inferiors maxima ovata obtusissima 3poll.longa *Hfl* lata, caulinaoblongabasi rotundato-aunculata,caulis a basi subdivarcatim ramoBissimus amplisalmè corymbowis magis lalus quam Longus, flores el Billquu: omninu speciei

Dab. in locis salsis bjeme inundatis plamtiei *Konnh* inter urbem et radices montis *Karadagh* (Heldreich)

KNABTIEOCARPOS STBAMGULATUS BOISS

E. tolus pilis albidis hirsutus asper, cauibus ascendentibus procm-beotibusque elongatis simphecuculis e basi ferè flonfens, folns radi-cabus et inferionbus pionatipartitis segmeDtas oblongis xpiôs iterum profundè dentahs vel lyraUs terminali ovato basi confluentl petalis flaa-vis purpureo-^enosis unguibus violaceis calyce albo-hispido longiori-bus, raceinis loU longiludme brauteatis, bracteis oblongis vel oblongo-lineanbus acute dcutitiulalin, siliquis pedicellu stnclo brevi contorto terminal is .ulpresw scabris lancoolato-lmeanbus a latwe **compressis**

el iitnnquè acute cannatis ad semina valdè strangulatis paul6 suprâ basin articulâhs articulo infenori angustato pills ratausve incurvis aplce in rostrum comcum longiusculum tenue attenuatis

Baphanus recurvatus Del. Fl. Mg non Pen. — Delile Fl. Eg tab. 36 quoad floras bona quoad fructus *E. lyratum* poliùs referens

Hab in *Mgypto* (Aucher! Oussonl), lu *AralnA petred* versus *Palsstina* copiosè. (Boiss.)

Flores magnitudiuis eorum *Smaptd%\$ arvensts*, sillqua bipollicaris modo cornu caprarum alpinarum (bouquetin) nodosa basi ferè a lin lata Species distinctissima a quâ *En lyratus* DC — *Rophanus reewrvatus* Pore, qui in *Mgypto* copiosè crescit differt flonbus magis violascentibus eos *Rapistn Tugostwx* squantibus, silicuùs brevionbus quoque compressis sed longitudinaliUer stnahs nee nodoso-strangulatis *E arcuatus* habet sihquas longiores momlifformes quidem sed teretes nunquam cannato-compressas *En. pterocarpua* DC. deniquè differt siliquâ hispidâ infernè latiusculè alata non strangulata.

RAPHANUS AUCHEDI BOISS

•R annuus lotus pilis retrorsis hispidus asper, caullbus ascendentibus tandem elongatis infernè ramosis, folus rands oblongis indivisis SiBpiùs lyralo-pinuatipartitis lobls ovatis obtusis Irregulariter dentatis lerminali o^ato-oblongo major!, petalis sulphureis oblongo-spalhulatis integris, ungue calycem bisaccatum plus minus uispidum superanli, siliquis pendulis pedicello brevi contorto suffullis longis teretibus retrorsilm stngosis si basi tenuion sursum incrassatis apioe in rostrum breviter cylindncum obtusum kEve aspermum subangustatis tandem inter semina transverse in articulos secedentibus lntús medullâ Tarcis, semimbus oblongis orlhoploceis longitudinaliter sulcatis.

Brasnea Auchert Boiss Ann Sc Nat 4843

Hab III *Mesopotamta* Aucher lor. cit, *Persnd, australt* Kotschy N° 403, in *GalxlaA* in declivibus siccis montium et vallium in ascensu occidental! montis *Thabor* suprâ *Dabouneh* et in montanls calidis propè *Bomas* (Boiss)

Siliqua mature tripollicans supernè infrâ apicem diametro 4 3j411n. lata Infernè longè attenuata teres prater scabritlem laevis nullo modo strangulata. Pnùs bane plantam fructu tantùm immature viso ad *Brat' steam* retuleram, mter *Raphanos* siliquâ in articulos potius ruptili quam secedenti, semimbus oblongis suluulosi nee rotundis distinctissima

RAPMANUS PUGIONIFORMIS BOISS

R. annuum, caulis procumbentibus ascendentibusque ramosis petiolisque papillis sparsis albis hirsutibus asperis, foliis lyratis lobis lateralibus oblongis vel in angulis remotis ad basin folii sensim decrescentibus terminali ovato-oblongo obtuso multo majore basi angustato confluenti, foliis superioribus ad ramorum basin parvis oblongo-linearibus, racemis terminalibus fructiferis longis, floribus violaceis amplexifloris, petalis oblongo-linearibus unguibus calycem longum glabrum inclusum superantibus, siliculis pedicello brevi suffultis axillaris papillis brevibus sursum directis asperis in basi supra stipitem brevissimum pedicello angulatum articulatis supra articulationem crassis teretibus duris mucosis sensim in rostrum asperum tres modulosum asperum longissime coarctatum apice tenuissimum parte semiferi triplici longius articulis, seminibus orthoploceis globoso-subcompressis eximie punctulatis.

habitat in locis *Galtia* septentrionali a monte *Ithabure* ad *Banuu* in partibus herbis fraxinosis

Pulchra et distincta species floribus magnitudinis *A. sativae*, siliculis cum rostro a-4 poll longis, parte semiferi 3 lineas duodecim, rostro nigro superius lenissimum subpungenti.

RUSSONIA Boiss

Calyx *bn* bisaccatus lobis rosea linear-oblonga in *unguibus* sensim attenuata calyce duplo longiora Filamenta omnia filiformia ciliolata Torus inter semina indistincte glandulosus Ovarium uniloculare Stigma capitatum Siliqua linear-cylindrica basi breviter bivalvis sentata quo loculis dispersis superius valvas convexas duras rostro *PI* multo longior indebescenti parte inferiori tereti semiferi Inter semina fungoso superius sensim attenuate uncinato-recurvo superata. Semina loculorum pendula rostris erecta linear-cylindrica notorrhiza — Herba Arabica facie *ETWMTVB*. Genus cl et am. Husson Hot. el Medic Kjbiras profosson dicatum, ab *Erucaria* cujus siliquam babel eximie distinctum semioibus notorrhizis nee spirilobis Hoccharactere in online Prodr Candolleani prope *Anohomum* et *Sterigma* collocandum

UUSSONIA UNCATA Boiss

H. infernè parcissimè birtula ceterùm glabra, caulibus teretibus tenuibus erectis parçè ramoais, follis inferioribus pinnatim vel bipinnatisectis lacinis linearibus costâ mediâ viz latioribus obtusis integris vel parçè dentatis, sopenonbus pinnatis lacinis angustissimè hincibus, flonbus in racemos terminales primùm densos post antbes in longissimos dispositw, siliquis pedicello brevissimo crasso recurvo suffultis pendulis rostro valvulis quadruplo longior aplice valdè attenuato uncinato-recurvo suffultis

Srwsana pneata Boiss ID Pinard pi. e u.

Hab. in *Wadi Fetran* Arabia? petres Schimper N° 433, frequos in toto deserto Arabue petres Palxsbns contermino inter *Nuckl* et *Gaza* in arcnosis ad umbram suffruticum inter quos caules scandunt, in *Palcesttnoe* desertis (Pinard) Fl Apnh.

Flores palhdi rosei eis *E. Alepptea* minores, siliquarum valvulx SCB-quillineam longsbasi et aplice truncate, rostrum 8-4Shn longum basi l'ieae 3/4 latum.

FRUCARIA mcaocABPA Boiss

E. annoa caulibus a basi subdivaricatis ramosis ramisque infernu prasertim papillis albis retrorsum adpressissimis sparsis obsitis, foliis bipinnatisectis glabris vel parçè papillosis carnosulis lacinis hincibus angulo recto super costam mediamct inter se insidentibus foliorum radicalium abbreviatis lacionibus obtusis superiorum attenuatis angustatis, racenus fructifens elongatissimis stinctis, flonbus parvis roseis, petalis oblongo-spathulatis integris calyce glabrusculo subduplo longioribus, siliquis pedicello crasso brevi patulo insidentibus minutissimè pruinoso-brabridis glabrisve brevissimis longitudinaliter sulcato-striatis margine carnalis articulo inferiori 2-3 spermo valvulis, articulo sopenon mdebiscenti dimidiè breviori monospermo stylo tend asquillongo superato, seminibus parvis ovahs lievibus.

Hab. ID deserto *Arabia petna* contermino et in vallibus calidis inter *St.Saba* et *mare Mortuum* (Boiss.)

Species distinctissima, flores eis *E. Aleppioa* dimidiè minores, lacinis foliorum tenuiores confertiores, siliquis cum rostro *ih* vix 3 lin. tantum longis

UMPERA ARABICA Hort. list. ex St. *lustocarpu* Boiss — Siliqua
tota cum rostra pappi brevis ailiata obsita

Hab. in deserto ad limes *Palastwue* cum forma vulgari.

Seh Arabian quam in vallibus Sinai vixit abunde huiusmodi valde
variat foliis integris et profunde pinnatis lobatis, rostro vel siliquam
vix superanti vel c. 3-4 longioribus angustioribus. *Seh Perat-*
cam meam specificiter differre nunc dubito

IBATIS ICONIA ROIBS et Helder

I. glauca perennis, caulis crasso subangulato, collo succuiosis breves
apices et foliosos edentes, foliis radicalibus et surculorum oblongo-lanceolatis
in petiolum longius attenuatis, caulibus sessilibus basi attenuatis
acutis et multinerviis aunculatis omnibus obtusis, ramis angustissimis
linearibus, corymbo terminali densis amplo, siliculis pedicello filiformi
deflexo apice incrassato et irregularibus insidentibus junctibus etiam
glaberrimis ovato-oblongis basi rotundatis apice retusis, marginibus
cum laevem laticordium auxilianti

Hab. in agnibus prope *Koniah* (Heldfeld)

Plantula 4-5 pedalis, folia radicalia 3-4 pollicibus longa 1-1 1/2 pollicibus, latis,
silicula 5-6 lineis longa 3 laticordibus. Affinis *I. Candolleana* a qua glaberrima
totius plantulae et siliquis superne non angustatis differre et *I. glabra*
quae folia non aunculatis, siliquis velut utrinque attenuatis recedit.

IBATIS KOTSCHYANA Boiss et Bohon. in Kotschly prope Pers. bor. 4846.

I. glaberrima glauca, radice perenni surculos breves apice fo-
liosus edentes, foliis oblongis obtusis inferioribus in petiolum attenuatis
cuneatis sessilibus basi auriculatis aunculis rotundatis subdivergentibus,
panibus laxis subcorymbosis, siliculis pedicello filiformi patentibus
recurvo apice incrassato ovis brevibus suffultis breviter tomentosis ob-
longis elongatis basi attenuatis apice rotundato-retusis margine lati-
tudine parte semper laevem aequantibus.

Hab. ad radices montis *Demawend* in provincia *Lor*. Kotschy
N. 333.

Plantula 3-4 pedalis, folia circ. 3 pollicibus pollicem latis, siliculis 7
lineis longis superne 4/5 latis. Ab *I. oblongata* cui omnium maps
affinis differt siliculis non glaberrimis nec acutis, ab *I. benea* locuto
non jugato.

BORBAVA APTBRA Boiss. et Heldr. In pi. Anat exfl. 4846

B. annua glaberrima glaucesceos, caule erecto tereti folioso supernò dlnncatim corymboso-panteulato, follis oblongtelntegerrimis obtusis cordato-amplexicaiillbus rotundato-aurlculatls, racemlB post anthesin elongatis laxis, sillculis pedicello erecto els subbreviorl suffiiltis ovatis noo compresals rostra complanato breriter trianglari acuto els breviorl tenmnatis, rostri margimbus utnnquê In carinam angustam acutam seeds silicnlam decnrrentibus, disco utrinqnê trlcostalo Inter coBtas ruguloso.

Hftb. propè *Bouldour* Piaidte (Heldreich)

Planta 4;SH pedalis, folia Inferora polhcem longa superiora dinunuta, sflcula I 3;4 lin. lantàm longa 4 *ift* lata rostro 4 4;i lln. longo terminate. B. *Ortonalts* dlffert flructu major! tetraptero, fructn Inter alas tberculato

CISTINEJB.

~~HELIANTHEMUM~~ SYRIACUV Bolss (Sect *Hattmium*)

H. pumilum suffruticosum, cauhbus Lorluosis ramosissimis, folns denais sessllibus linean-convolutis suprâ pallidè virentibus subtiis canescentlbuB ramisque novelli& valdè vucoso-tunutU, scapiB e dumo breviter eisertie apice 3-4 floros umbellatos edentibus ad medium el iterlim apice duo folia opposita aliis paulò latiora ferenllbus, pedkelUft crassU, pelalis albis, calycis aepalis tribus ovato-tngubvUnu viaco-HiBBimiB, capsula pedicello paolb breviori oblongo-tngona tomentidlâ cajyceiasquanti trivalvi, senunibus brunnew compreBSJs concavu e>l-miè muriculati*.

HA. in jugo *Libanotteo* suprâ *Zachle* in consortio *Bhododendn* PontK».Legi Julio 4848.

Fruticulua bumflu habitu formàitae fohorum afflnls B, *umbeliato* a quo etai Bpednlua ferè omnife deflorate laniòT. viderini specificè dls-tioctum nabeo propter pedicellos crasBOa nee attenualos, hisptdlteai majorem totlus planlas, semina duplò majora brunnea nee nigra.

UBUANTHBHUM VBHTOBOM Bolss. (Sect. Eriocarpum.)

H. dumosum pomflum, ramu intncatllsslm̄s vetosUoribus albidis jooioribus pubenilis, follis flavido-vlrentibns pnbe stellate brovtalmā tomenlellls ulnnquē concoloribus ellf pllcis planls vel margfne convo-lntis snbt̄ns nervo prommulo percursis supernē sulcatis brevisslmē pe-Uolulatl̄s, slipulis parvls triangulan-lincaribus aculis peliolulos panto Buperaotibus, racemls brevlbus lails serondls 3-5 floris, bractew oblongo-lincanbus parvis cum flonbus alternis, pedicello post anlhe-BIQ crecto postēa deflexo calyce triple brevlori, sepalis extds brevfter etdensfestellato-lomentclhs intOs adpressfe pilosulis duobns exterioribus brevlonbus linearl-selaccia tnbus Interioribus ovatis elevatm̄ 6-6 nervtts, petalis aareis calycem pariim excedentibus, stylo flexuoso (lit* fonnl, ovarlo adpresst bfrsutissimo, fructu nutantl..

Hab. in cacumme Jugi *Tih* Arabise petrae in viā inter montem *Sinai* et *Nvekl* locis vntoslssunis. Legi Apr. ineunle.

Inter *H. elhptumm* Pers. et *Kahinum* ferē mediom, a priori diffeit floribus pedicellatis nee sessilibus majonbua, sopalis brevl̄sainē *Uvi*, mentella nee hirsutis, a posteriori cui floribus non sesslllbus accedtt̄ distinclum sepahs interioribus ovatis nee tnangulari-lanceolata acif-lissimis, ab utroque racemis laxis paucfloris.

HBLUMTRBHUH vBfiG&aiui Doiss. (Sect. *Euhelumthemum*.)

H. basl suffrullcosum csespltosnm, caollbus brOTIaslm̄s pTOBtratis ramosl̄B ramls brevlbuft̄ simpllcibua canla, follis adpressē tomentosocanb llinearibus vel Hneari-lanceolatis obtusluaculia margtae pHis ml-nbsye revolutis subUis nervo lato prominenti percursis, racemis laxls seefmdis bracteatis, bracteis lanceolatis pedicello tiip!6 brerioribiu, pedcelUB flUfonnibuB flexuoso-recurvta calyce longioribiu praeter to-mentnm breve bispidis apice Bublncrassatl̄s, petalia Intensē roselB, calyce scanoso fractlfero veslcario aepalis duobiu exterioribas mlnfania oblongo-linearibus obtusis triboB interlorl̄BUB ovatis albidls nape obsoletē et lnsqualiter bilobls albt̄dis nervls qoatuor rubriB validb̄ percurab prefer pnbem brevlasiaiam tomenteUam ad nervoB longē setoBIB, nervls exteriorl̄bos latere eierno tantām nervulosis, aDnUr tomentosā calyce broviorl, semlnl̄bus tuberculato-scabridl̄B.

Hab. in jugo *Tih* Arabia p̄cresp in coniertlo pracedentl̄B, In colll̄bun

calidioribus *Judaa* v. gr. In monte *Oheeto* prop* *Bethanion*, in descensu Inter *St-Saba* et *mart Mortuum*. (Bolss.)

Pulchra species affinis *H. Apenmo* et *H rosea*, ab eis nervo calycinis lateralibus pulchrè ramulosis, calycia indumento duplcl, sepalis fructifens majonbus magisque scariosto distincta

VIOLARIEA.

VIOLA GIBBICA Bolss et Heldr. (Sect. *Odorata*.)

V. acaulis minuta, stolonibus tenuissimis, folds parvis ovalo-cordatis obtusis crenatis crenis utrinquè 4-6 obsolete latis longè petiolatis pills loogu albis sparsis facie superiori et ad marginea prorsum obsitis, foliis stolonum minutissimis reniformibus, stipulis biceolatis longè acuminatis margine fimbriatis glabris fimbriis glanduliferis diametro transverso stipulis vix brevioribus, sepalis oblongo-linearibus (juncto, calcare obtuso sepalorum basin eicidenti, pedunculis petiolo sublongioribus ad medium bibracteolatis fructifens prostratis, floribus villosis, petalis imbricatis stigmate uncinato.

flab. In montibus *Lassvi* (Greta) alt. 6000' (Heldreich).

Plantula bipollicaris, folia dretter 6 lin longa lataque, floras dimidiis minora eis *V odorata* a qua ut et ab affinis differt minutie omnium partium, stolonum graalitate, indumento rariori pills majonbus nitidissimis constant!, foliorum crenis obtusissimissimis, petalis ebarbatis.

TULA THIBBALA BOISS. et Spr. (Sect. *Odorata*.)

V. acaulis, stolonibus elongatis, foliis utrinquè pills albis nitidis aopreaè tomentosa ovatis basi profundè cordata apice acuta vel attenuato-acuminatis circumscissis multirenatis ereolis ascendebus acolinisculis, foliis stolonum tenuissimis reniformi-triangulatis acutis, pedunculis petiolo longioribus infra medium longè bibracteatis floctueris prostratis, stipulis lanceolatis longè acuminatis fimbriatis fimbriis hirsutis diametro transverso stipulis longioribus glanduliferis, sepalis oblongo-linearibus margine ciliatis. Horti violaceae, Details laterales bibracteolatis emargatis, cahara obtusis Beptomm basia antecedentia, stigmate uncinato.

Bab ID monlc *Aitâ* Thessalise (Spruuer).

Habitus et floras *V. odorata* a quâ eximie differt foliis tomentdlo-
puberullis eximie acutis apice subaUenuatis, stipulis tomentelus longe
Umbnatis. *V. Dehnhartû* Ten differt glabritic, *V. alba* Besserquae
folia quoque acuminate habet differl eorum crcnis obttuis floribus
albis, Btolonibus cum plantâ ipsâ floreotibus, stipulis breviter flm-
bnatis

VIOLA LIBANOTICA BUISS (SCCI *Odoratv*)

V ruzomale indurato subhgnoso ramoso caudiculos oumerosoa
abbreviatos apice fohosos cespitemque formantes edenti, foliis looge
Iteliolatis ovatis acutis acutusculê et grossê denticulatis basi breviter
cuneatis ranus subcordahs pilis albis brevibus margine praesertim bir-
Luhs, slipulis oblongis vel lanceolatis acuminatis glabns margine glan-
dulis sessilibns conspersis, pedunculis folia aequaotibus infrâ medium
bibracteolatis, sepalis glabns oblongis acutiusculis angustê albo-mar-
glnatis, calcare obtuso calycem breviter excedenli, petalis pallidê vio-
laceia exlerionbus parcê cillatis Inferior! apice rotundato, atignuffc
uncinato, pedlcello fructifero erecto apice nutanti, capsulâ globosfl
tomentosâ.

Hab in *Ubano* supra Cedros, legi Julio 4646.

A. *V h|Tt&* et *ambngva* quibus afflms eximie differt rblw^oate li-
gooso multicipti, foliis basi cuneatis grossê et acutê dentaibi sUpulis
non flmbrlatis, pedunculis fructifens non prostratis, etc

VIOLA PAFILLABIS BOIS et Hoben. in Kotschy p^{PerB.} bor. 4816
(Sect. *Komimtym*)

V tota pilis albls brevisslnus tomeDteUoHanerea baai suffruUculosa
caudlcolis basi folhs velustis obsltts apice follotls coapitosis, fohis
oblODgis lDtegerrlmis obtusu vel acntloscdliB In petiolum long* atte-
nuatfl, stipulis papiUanHomentHis Inferloribot trlanguUrbuB, supe-
ribuB llineanbnB Integns vel ladnula seiaceâ aoctls, pedioeUta lenuibliu
folia soperanilbus retronôm densê bupidifliB infrâ medium bibracteo-
latis, stipulis a basi rotundatâ blapidnlâ oblongo-ianeeolatis acutis su-
perae glabns, petalis violaceis etftis glabrls inUu et margiDB dense
ct mlunte albo-papillosis, calcare ohluso calyeem valdê eicodenU,

sligmate breviler uncinaUr, capsulâ pedicello erecto flexuoso suffultik glabrâ.

Hab. In saxosis propè *Mtndan Abdullah* vallis *Loura* raontis *Elbrus* Kolsnby N° 536.

Habitus in (lores *V. cinerew eipaohyrrhztm*, ab eis stigmatis formâ, petalis IDUIS papiUosis etc distincta

VIOLA CALYCINA BOISS. et Heldr ID pi Anat. exs 4816 (Sect. *Melanmm*)

V. perennis vlrldis sub lente brevissimè birtella, caudiculis brevibus prostratis nudis csspltosis, caullbns brevissimis foliosis%foliisparvls ovatis vel rolundalis renfonnibusque basl rotundatis truncatis vel breviter cuneatas obtuslssimè et saepè obsolete crenulatis petiolo els plerumque longiorl suffultis, stlpubs digltatim 5-8 partita ladnlls laterallbua linearibus mediâ petiolulatâ oblongâ folium referentl sed minorl, pedunculis longissimls rectis alteniè et mlnutissimè bibracteolalis, sepalis latè oblongo-liDearlbus acutiusculis glabiis marglne parcè cHatuIs appendlce basilari obsolete, erosa, petalis flavis calyce sesquylongloiiibuB Intlis sub lente brevissimè pruinoso-papUlanbus laterallbua basl breviter albo-barbalis, calcare appendicibus calycfs duplA longiorl.

Hab. In reglone superiorl raonlls *Daorotdagh Pindta* alt. 3500' (Heldreich).

Folia majora 5-6 lin. longa.pedunculi s 1/2-3 poDicares, floreBeis *V. arvensxs* paulb majores. Species inter *Melama* perenoia calyce magno corollâ non multo breviori distioctissima.

VIOLA HBLDHBICHIANA BOISS (Sect *Melmmm.*)

y« annua subacaius ad petiolos caules et foliorum marglnes breviter papillosacmterium glabra, folus rafenoribuB ovato-rotundla aupeiorlbuB oblongls omnibus basi brevissimè in petiolum attenuatiB subntegrIB, sUpnlls linearibus integris basi pelloll adnatto eoque brevioribus rarltts basl externâ denticulo aucUs, pedunculiB folia superantlbiH snpernè 9 bncteolis setacea vu perspicuis abalus, sepalis glabris semUanceolaUs sublncurrts acutw basi breviter appendlcutatis, flonimu paryis, fteUlu paliidè ccralels calyce sesquilonçionbns laterali-

bus parce barbali, calcare obtusissimo appendices calycis parium excedenti

nab. ID lapidosis inter frutites propè pagum *Karabahir* ad radices montis *Gtmacis Lyeia* (Heldreich).

Afflms *V parvula* Tin el *V. ebracteolata* Fend, prior differl indumento dense liispidulo, sepalis latis valde tnlialis longiùs appendiculatis, corolla calyce bre\ion, posterior pedicellis ebracteolalis, appendicibus calycis calcar superantibus etr.

RESEDACEJE

RESEDA EREMOPUILA BOISS. (Seel *Ewneda*)

R annua glabra oaulibus erectis pumilis basi ramosis ranlsque acule striato-angulatis, follis ambitu oblongo-lanceolalis pinnaUsectls lactmis parvis linearibuB acutis mucroaulatis costx angulo recto insidentibus etsecòs cam angnstè decurrentibus follorom Inferiorum allquajfid6 abbreviatis obiongis cauliorum angustè linearibus omnibus mfringine sub lente papUIari-denticulatis, racemfs tandem longissimls tenuibus infernè lannsculis, pedicellis brevissimis bracteoUlineari-settu%â membranaceo-marginatâ calycem subsequanti suffullis, sepalis quinque linearibus angnstè membranaceis, petalis quinque albis glabris calyce subdttplb longloribus oblongo-cuneatis ad medium ferè iuquè tridentatis lacnlâ Intermediâ breviorl angustiorl laterallbus latere exteriorl subIncurns eis petali superlorls sspè breviter trüobis, disco ferè obsofoto, ovario vesiculososo-papilloso, stigmatibus quatuor, capsulâ oblongo-elongatâ acutè tetragonaalbo-vesiculosâ aplce truncatâ breviter quadridentatâ, seminibus reniformibus nlgris eiimiè tuberculatis. ,

Hab. m arenâ tenui deserb igypiiacI propè *Kahvrcm* et Arabic! usquè ad fines Palestins.

Planta floniera 2-B poHicaris frucUfera 6-10 pollicaris, foliorum lacinix eis *Jt. alba* tenuioreB brevioresque, flores els fl. *dba* ferè dimidiò minores, racemi frucuferi semlpedales, capsula 3 lin. longa. Pulchra species affBnis *A. alba qum* longe dlffert floribus pedicello eis sequilongo suffultis spicas triplb crassiores per anlhealn pynnndatas nee cylindncas formantibus, petalorum duplo majorum lacimis ajqatlibus, ovano non vesiculososo, etc. *H stonostaohyn* differt sspallt pe-

lalisque aems his ad medium slrangulatis lacioiis spathulatis, sligma-
tibus ternis, etc

RrasD* WOPBDROB Botss. (Sect. *Eureseda*)

R. anouatota paplllls elongatisalbis hirsute, caulibus teretibus as-
cendentibus valldis ban ramosissimu, foliis primordialibna iDtcgns
lanceoiatis obtusis csteris ambitu oblongis vel ovato-rotundatis pinna-
lissetim vel Bubpalmaim 3-7 sectis ladnlis foliorum Infeiorum oblon-
go-lanceolatis lats superiorum angustè liDearibus omnibus latere exte-
nori secns costam decurrentibus, racemls cylmdncis deosls post
anfbesin longlssimis, pedicello floribus sesqiiilongion capsulam xquaati
scabro, floribus inodons, calycis scabri lacinnis sems linearibus corol-
lam aequantibus, petalls senis ochroleucis saporibus ovatis cucullatis
eximiè ciliaris dorso eitùs mulbldis infenoribus a basi ovalo-rotundà
cillata 4-3 ladnlas edentibus, disco papulis albls hlrsutlssimo, fila-
mentis papillosis, stigmatibus tribus, capsula maximà sabnutanO ovatà
ventricosa campaDiformi tenui ad costas parcè papillan basi breviter
, atl'nuata apice traocato-tridentata, seminibus maximis curvato-teni-
foi^dbos transverse ruguloso-tuberculatis gnseis nitidls.

IZab. in *PalasbnA* propè *Gaxa* % *Bamla*, *Naplou*** Legi Aprlli 4846.
v % fiaoles 4-1 pedales, raceml fruciferl pedales longioreaque basi cap-
sntas maturas supernè floras alabastraque fereutes. Capsula diametro
6-7 lln. lata, semlna lines 4 4]4 longa. Species propè *R. phyteumam*
et oJoratamcollocandaab omnibus generis caulibus crasaia elatib, pe-
talls ochroleucis, capsulis maximis distincta.

In Diagn. I pag. 6. Im 30 loco *R. MedUerranece* lege *B. %nodora*
Bchb. *R. Mediterranea* vera L. et Lindl Coll. bot. tab. 98 est planta
omnln6 dlversa et *B. Mediterranea* Jacq. Ic. rar. tab. 475 ab utrâque
quoque dffert.

CARIOPHYLLEJE.

GTPSOPHIU OLTMPICA BOISS. (Sea. *Strutkiwn*.)

G. perennis glabra lotescènti-vireas, caudibus abbreviatis suffru-
Ucoffis lignosis nmosls Intriccattasimis surcutos steriles brevisslmos in

uespilem umgestus caulcuqie tenues humlles suupLiciasimos apice ca-
piUtos edentibus, foliis carnosiss subulato-lriquelns acutiusculis subliis
margme RcabriduUsbasi breviter connatis subpatulo-Incurvis, capitulu
magnitudine pisi densu bracteatis, bracteis ovaiis oblongave calyces
asquantibus utnnquc latc alho-marginatis dorso lalo viridl cnervi ex-
currenti acuminatis, calyce parvo obcoDico paplllan-hirtulo Infernc
vindi enervi ad medium usque in dentes nigricantes obloogos albo-
marginatos nervo eicurrente breviter setaceo-mucronatos fisso, pe-
tahs .

Uab. in regiooe superior! *Otymp Bithym* meridiem versus ad rupes
calcareas obi Augusto meunte 4B43 nondum floriferum legi

Plants ut *Pkmtago serpentine* in caespites lignosofi crescens, folia
fr-6 Un. longa lineam dimldiam lata erecta adpressa carnosa, scapi 4-5
poUicares folia pauca IDternodlo multd breviora fereotes, calyx Hori-
fer vix t lm. longus Species dlstlncta e spedmine imperfecto des-
cnpta prope *G glomeratam et sphvrocephalam* coilocanda.

GTPBOPBILA PILULIFEHA Boiss ctHeldr In pi Analol en 4846
tSec. *Strvthvum*)

G perenms glabra, caulibus suffiruUcosiB nudis erecliusculis ablirer
viatis cortlce albidâ vestitis surculos stenles breves apice fbllosog ciu-
Icsque longos tenues virgatos supernè parcè et dlcbotomè raosos
edentibus, foliis carnosiss subulato-tereUbus obtusiusculis alrictig vel
iucurvo-subpatuIB, caullnis intemodlo brevloribus senslm abbreviails
facilfi dociduls, ramls ngidls fillfonnlbus, floribus In capilulos plsifor-
mes (doboaoa dcnssunos basi et inter flores bracteis squamsfnfmihH
ovatis scanosu obtusia minutlssunis obsltos ad raraorum apicem soli-
larios aggregatls minutis, calyce breviter obconico enervi albo-vlres-
centi toto punctis calcareis tuberculato ad fertiam partem usao^ Ip
dentes ovatos latè albo-marginatos obtuslsslmos flsso, petalis cnñeato-
linearibusalbis calyce iongionbus, stamlnibns longè exBerbg cspauU
globosa minuUssimâ calyci squUoogft, aeminibiu biaia renifomdbiIB
oumie et regulariter tuberculatis.

Hab in pineto apnco maritimo a leucis ab urbe *Adaha PampHma*
oncnem verstus distanti Julio (Heldreich.)

Plaola 4-5 pedalis, folia 6-8 lln. longa lines 3;4 lata, capltutl"pe-
(hinculo pollicari vel IODglon ngldoteouissimo sufflnlti, calyx llneefyi
longus. Species inslgms prope *G glomeratam* et prasertlin *G, sphago-*

cephalam Fenzl. collocanda qaa posterior habtu et capitulorum magnitudinis notis similis differt foliis 8 poll, longis, capitulis seeds ramos ubi hesilibus, bracteis subcartilagineis irregulari-ovatis acutis calyces aquantibus

GYPBOPHILA DAMASCUS Boiss. (Sect. *Struthium*)

G. glabra glaucescens basi suffrutescens surculis brevissimos parces foliosos edeos, caulibus elatis virgatis parvis Bimē foliosis teretibus Inferne ad nodos incrassatis sopenit dichotomē effusis (H) anicillata, folia minutia sessilibus obovato-ellipticis acutis basi soba distichis earoosissimis margins glaberrimis, bracteis minutis triangulari-lanceolatis Baccatis, pediculis capillaribus calyce 4-8 pl6 longioribus, floribus minimis, calyce breviter coarctato-campanulato 5 & Bdis viridibus percoreo Inter eas aUw-membranaceo albo-pustulato ultra tertiam partem In filobos ovatos late albo-marginatos obtusissimos flsso, petalis albis linearibus calyce duplo longioribus, capsula...

Hab. In collibus arida supra *Damascum* ubi legi Malo 4BM.

' Virata pedalis, folia crassa rigidula 4-6 lin. longa 4/5 lata, Bores multifloris generis. Omnibus notis *G. Aucheri* et *virgatæ* affinis et ab eis foliis brevioribus, paucis glaberrima et praevalens calycis lobis oblongis acutis vel mucronatis distichis; flores luteo G. I*-*banolicæ* et *ovifolæ* dimidiato rariore

GYPBOPHILA ANATOLIC*. BOISS et Heldr. (Sect. *Struthium*).

G. perennis caulibus basi induratis nudis prostratis dein ascendentibus parte inferiori densiusculis foliosis tomentosis, superne glaberrimis et aequae paniculatae subulosis, foliis glaucescentibus bracteisque pubescentibus oblongo-lanceolatis acutis scissis basi attenuata bisulcato-obsoleta trinerviis carnosulis, bracteis minimis triangulari-lanceolatis scariosis, pediculis rigidis inferioribus calyce rariore longioribus cateris brevioribus, floribus minimis, calyce breviter unpanuato enervi Inferne albido-virescentibus dentibus lubo subquadrilobis oblongis obtusissimis nigricantibus albo-marginatis, petalis roseis lateribus calyce duplo longioribus, capsula...

Hab. In aridis planities *Kawah* ad *Souliman-hatri* prope radices notis *Karadagh* Junii fine vix florifera (Heldreich), In *Cappadocia* at *Evphrattim* Auher Vfi 845.

G. perfoliata var. *Bolsi* in pi. Heldr. Anal, ew

Caulis pedalis ad nodos subincrassatus flexuoso-gemmulatus, folia majora pollicem longa 4-6 lin. lata, flores magnitudinis *G. paniculata* a qua differ! foliis brevibus lalis non acuminatis alnsque notis. A. *G. perfoliata* cujus specimina Hispanica comparavi, floribus multioribus, pedunculis abbreviatis, calycis lobis brevioribus, corollis calyce non subquadratis longioribus discedit. Magis affinis *G. tinctoria* Wend qua quoque differt foliis majoribus plunerviis, pediculis longioribus, floribus majoribus

GYPBOPMLA NEBULOSA Boiss et Heldreich (Sect. *Struthoxylon*)

G. perennis glaberrima caulibus tenuibus erectis terribus aliis sterilibus raris ramulis remotis 6 foliosis alus florifera paulo supra basin dichotoma et divaricata ramosissimis paniculam effusissimam fortantibus ad dichotomas inferiores tantum foliosis, foliis sessilibus tenuibus viridibus oblongis vel oblongo-heteraneis obtusiusculis angustissime albo-marginalis ternerviis, pedicellis setaceis calyce 3-lobis longioribus, floribus minutis, calyce subtrotando-campanulato parvum albopustulato inter 5 fascias vides albomembranaceo ultra medium in densis oblongis obtusissimos albomarginatos fissos, petalis apertis uneari-oblongis calyce duplo longioribus, capsula globosa calyce longiori, senariis reniformibus tuberculatis.

G. tinctoria var. *obtusifolia* In Heldr. pi. Anat. cnu. 1846.

Bab. In vinctis prop* *Beyohehr* Isaariae (Heldreich).

Hac species a nobis olim *G. paniculata* adnumerata ab eadem differt foliis obtusiusculis brevioribus et in partibus pediculis calyce 5-6 obovatis longioribus paniculam multam magis effusam formantibus, calyces magnitudinis eadem Austriaca *G. paniculata* quantum sed petala multum magis elongata sunt atque exserta. *G. tinctoria* qua quoque pedicellis longis gaudet differt foliis multum amplioribus plunerviis, pedicellis crassioribus etc.

Gypsophila frutescens Boiss. Dugn. var. *frutescens* Boiss. et Heldr.—Folia secus ramulos magis adpressa paulo breviora laeviora obtusiora, flores ad rami apicem congesti subfauculati, petala intensius purpurea.

Gypsophila alba Boiss. et Heldr. m p]. Anal. exs. 4846.

llab. in pasuiis siccis montis *Stavros* prope *Isparta* Piskliae (Heldreich)

Pnils pro oovft specie habueramus sed note dlfferentnles nun&mlbi non satis graves cesso videntur.

GTPSOPHILA SERPYLLOIDBS Boiss et Heldr in pi. Anat. en. 4846. (Sect *Heteroehroa*.)

G. percnnis gTabemma caespitosa, caulibus fillformibus foliosis pro-
sratis subttis radicanibus sspè surcullformiler elongatis, foliis parvls
carnosulis enervlis obtusiusculls oblongo vel Lneari-subBpathulalis In-
fernè attenuate, axillis fascicuhferis, floribus In ramorum brevium
parte supenori axilianbus et ad eorum apicem sspiùs ternls racemos
pauaflosos brevissimos fonnantibus pedicello tenul calyd aquilongo
saffiiUis, calyce conlco-campanulato vrescentl glabro B costato pd ter-
tlam partem usquè in denies tnangulares acutos ciliatuos flsso, petalis
linpari-coneatis roseis obtnsis calyce dupl6 longloribus, fapsulâ...

Hab In pascuis siccis *Taun Isawrun* in monte *Gheidagh* suprâ *Alaya*
alt. ^6000-7000' (Heldreich).

Plants more *Thymi setpyUi* radicans surculosaque, folia 1-3 tin.
lon/jâ apice hneam lata, floras iDls *G. repmtu* paululnm minores.

In Dlagn. I p. 46 pro *Beteroehro& glandulosA* Bolu. pone *Gypao-
phila glandulosa* Bolss., cum genus *Heterochroa* formis Intermedils
in *Gypsophitam* manifestò transeat.

AHIYBOPETALDM CALESTHIAGDH DOISS.

A. perenne glaberrimum, caulibus subaphyllis teretibus a basi pa-
tenllm et dlchotomè ramoaissimls ad nodos Inferior^ incrassatis n-
mlsque ngidls divaricatlm ramulosls intricalis fragilllmis, foliis ad
partem infimam caullum hneanbus oblnsis basl attenuatls carnosn
plano-subconrexis enerviis, snpenonbus brevisslmè etanguslellnearl-
subulatis teretiusculls omnibus post antbesin dedduls, floribUB in dl-
cbotomlls supremis et ad ramulorum apicem solltarbs pedicello setaceo
ramolo tnpl6 tenuiorl calyce \ 4/8-2 pio longiort suffulfn, calyce flo-
riforo cvhndnco pube brevi glandullferS obslto quinque vltlu lallus-
culls virldlbua rubelllsve percurso Inter eaa byallno dentibus breviter
ovatis oblusis albo-marglnatis, petalorum ungne lineari-cunealo e ca-
lyce exserto in lamnam purpuream trlnartitam abeuntf, ladnin laten-

Jibus linearibus, intermedia vix longior linearum apice cuneatâ in appendicem obtriangularcm transverse latiore truncato-rctuaam horuon-
lallter breviter mucronatam dilalalft. ovario 8-9 ovulato, calyce
fructifero breviter ovato deratum ruptili, capsulâ ovatâ dentim basi
in 4 valvulas secundenh basi incompletè biloculan, seralibus ternis
mgrIB reniformi-subrotundis vix compressis exlmiè seriatim rugu-
IOBfl

nab. in incolbs *Ctelesynm* inter *BalbeckelZochle* et *Inter facheya*
et *Deir el Khamor* Julio florifera (Boiss)

Facie et characteribus affine *A. gypsoph%lo%dt* quod dlffert foliis U-
oearHiubtnquetris, calyce florifero brevlon *I* nec 3 lin. Iongo obscure
vittato, petali albi lamina Intermediâ auitius bicuspidatft basi utnque
ladnttlâ hneari anctâ, calyce fructifero ellipsoideo

TUNICA CHAMINKA BOISS

T (lercuuts caulium iunerosls teuissiniB sub lenle braviulmè
hirtulia asvendiiitibus parcè ramuloBis BtrleUs apice dlçnotomè ptVil-
culatis paucifloris, foliis Betaceo-Inquelris supernè sulcatis marline
scabridls gubincurvls superioribus abbrevlaUs axillis inferioribus fa^cl-
culos foliorura edenbbus, floribus soliUnis, pedicellis teniibus vl^ci-
do-hispidulis calyce 4-3pU> longioribus, calyce basi nudo breviter
campanulato bispidulo cnervl inter quinque vittas latas vindea albo-
membranaceo dentibus rotundalls obtusls albo-marginalis, petalls ca-
lyce duplb longioribus, ungue-nodo In bminam obcordatam dttalato,
capulâ calycl iBqullongâ, semlnlbuB latere exeriorl planls Interlorl
carinatis umblllco centrall donatla obontls obtusiB extremitate atle-
mmtls acutb acutè alatis.

Gyptophila gramxnea Fl. Grac. Prodr. 1 p. 179.

In lapidosts secils vlaa pronè *Calamata Measeala*. (Gltlard In herb.
Faucbè.)

Habitus et florum magnitudo *T. tamfragaei* *T. compnssa?* etli
A priori calycr non bracteato, seminibus carinatis quidem aed margi-
nata etc. divrrsa, posterior dlffert caulibus supernè compressis, foUls
planta laUoribus, floiibus aggregatIB, calyce nervoso, aeminibus uirro-
què planiB etc.

In Baldr pi. Taygel exs. loco *T. Oretua* lege *T. IUyinoa* F. et M.
viir. Bftt forma n loco umbrom excetso orla minus rigida caullbUB te-
nuionibus Imiirvib, calyce paululâm brviori.

TUNICA BIBTHOBPII Boiss

T. perennis tola sub lente pills raimiUssimls glandulifens obsiUi multicaulis, caulibua crectis ngidls Infernè simplldbus foltoſta ſupernt anguloſis alternè et breviter ramosfs paoculaiQ confertam ſapè ſub-ſtaſtiatam formantibus, foliis anguſtè llinearibus acubs gtrlotis trinervihs margine ſcabndls, pedicellls calyce brevionbus, calyce baſi nudo ablongo-obconico glanduloſo-birsuto inter G ſaſciae virldes trlnervias albo-membranaceo nervis tribua aplce In unum coalltta denflibus ovalis acutls albomarginatls nervo excurrente breviter mucronulatit, petalorum unguibus iulamlnas albas anguſtè obovatas atteouatls, ſemlnibus (ex Sibth.) oblongis plants.

Hab. ad radices *Taygeti* (Bory et Ghaubard), ad montem *Dſlph* Enbaſe (Aflcher), propc *Lebadeam* Bacotls (Spruner), In *Troade* (Olivier in DC. herb.), In collibua bjsulie *Amorg%* (Sibth.).

GypsophUa Wyrtea Fl Graeca non L — *G. armenotdes* Ser. in DC. Prodr.

Ufflnis *Tun. Illyrica*; — *G. Uynoa* L. qua in Italiã, Dalmatiã et qnpqne in Gnedã credt, ab eſ nt et a *T. oehroleuca* calycis vlltls a nee un, nervlis statlm dlgnosdtur; caullſ inſuper eſt rigidfor, panlcult niqqoam lain et rapè divaricate ſed brevte eonfertata ſtaſtiolata

TDHIQA OLTMFICA BOISB

T. annua vel biennis glabra, caulibus terelibos erpectia mfernead nodos IncoBsatis ferè a baſi ramosis ramis Qliformibus erecto-palullſ plnnes dichotomls paniculam elongatam ſparſiOoram ſubeffliHim formantibus, follis radlcallbus roſulatis expansls lato-linearibus abbreviatls acoUuBculis ſublgs trlnervUs nervo medlo valldlori, caulinis Btriclſ angostis acutls intermedio brevionbus omnlbns nurglne ſcabrldis, pedicellls capUarlbus rigidls calyce 5-4 p]6 loDgionbus, calyce Aaſi nudo glaberrimo obconlco Inter 9 nervos vlrides membranaceo, 'denilbns trlangularibus acubſ albo-marglnaUs, petalorum ungue nudo In lamlnam oblongo-linearem euertam obtuſam dlatato, capsullt calyce longiori, ſemlnibus minlmis obovatls plams exalatis late/e in-tenorl concaviuſaills carlnatis exteriorl convexuiſ.

! *T. ttneta* Bom. pi. Anat. exs 484a non F. et M.

Hab. in umbroſls montls *Tmoli* Lydia ad *Botdagh*, in ſylvis abielinis reglonb ſuperloris (*Hymp% Bitkynx*. Legi Jun. et Jul. 1841.

Hucusque a me ipso cum simillimâ *T. stricta* confusa quæ egregie differt raraulis strictissimis paniculam valde contractam formantibus, pedicellis crassioribus calyce 4-2 plib tantum longioribus, seminibus duplb majonibus oblongis acutioribus Hæc *T stricta* crescit in monte TauroKotsctiy n° 63, monte *Demawend* Persia Lor (Kolschy), montibus *Tarbagatai* Songnruc Kar et Kir

TONICV ARAJUCA BOISS

T annua tola glanduloso-pubesccns, caule pwnilo a basl dichotomy et subdmncattm paniculato-ramoso, folns margino scabris ceterm flabns radicanbus oblongo-lmeanbus basi attenuate obtusiuscutissubtiis obsolete tnnervns, cauhs angulò linearibus brevissimis strictis acutiusculis, pedicellis crassiusculis nVidia calyce sesquitongioribus, calyce obronico paroo Rlanduloso-p^berulo 45 nervi nenns elevatis in 5 Tascias vides membranâ albt sojunctas leroatim approximatis apicein unam confluentibus, denlibus trianguJaribus acutis membranâ alba usque ad apicem productâ marginalia, petalorum unguihrs in lamina alba linearibus calyce inclusas subangustatis, capsulâ eccllonga, semmibuB plants concavusculi9 nips epunctatis alâ e semue uon distincti cinctis apicc cmarginato bilobis umbilico supra centvom sito

Dab. in desertis *Arabux petrea* Palaslinam versos (Boiss).

Planta 3-4 pollicans, folia 3-4 lin. looga inferiora sesquilineam lata, calyx 3 lin. longus. Habitu et calycis formâ valde affrnta *T. braehypetafa* Jaub. et Sp et *T. pachygonia* F. et H. quæ tamen a nostrâ facite distinguuntur foliis cauhs hnean-selaceis longè acuminatis B-7 lineas longis, vittis tnnervibus calycis magis prominulis intervallo latiori separatis, denlibus calycis glabemmi in mucronem longum aplice setacem abeuntibus, seminibus subpellucidis et ided dlstinctè alata.

TUNICA IIIPIDULA BOISS. et Heldr. in pi. *JLrat e\s* 4846.

T annua lota glanduloso-hiBpidula, caulibus tennibus a basl dichotomy etdivanca'lmramosissimls ramisque flexuosis paniculam effUganr fonnantibus, foliis omnibus irinervlis glabnuscuUs margine lxxlbus angustè linearl-setaceis erecto-patulis superioribus bre>isgimio, peduDdilis tenuilms calTce 3-4 pl6 longioribus, calyce anguste obovato glanduloRO-puborulo elevatim 15 nervi nerns inferno aequidistmtlbnfr

apice tantum ternatim approximate internodis membranaceis, dentibus ovatis late albo-membranaceis nervo excurrente breviter setaceo-mucronatis, petalis anguste linearibus calyce vix longioribus laminam pallide ochroleucam bipartite laciniis brevibus ultra medium acute bifidis, capsula calyci subzquilonga, semiolibus platis nigricantibus epunctatis alatis apice emarginato-bilobis umbilico supra centrum sito.

Hab. in declivibus calidionibus *Taun* Pamphyli in regione inferiori inter *Maria* et *Adaixa*. Fl. Julio (Heldreich).

Planta 8-10 pollicans, calyx vix 3 lin. longus, ex aetate praecedentia et *T. paeblygonia*, ab eis egregie distinctus caulibus ramisque non rigidis sed flexuosis tenuibus effuse punctatis, calyce aogustiori, petalis quadrate ovatis integris obtusis

TUNICA STIBIACA BOISS

T. glaberrima Digrescenti-vitridis perennans basi suffrutescens multicaulis, caulibus filiformibus rectis vel ascendentibus ad nodos superius saepe geniculatis simplicibus unifloris raris ramulo auctis nigris asperulis, folia parvis anguste uncinatis-triangularibus crassifolius obtusiusculis supra sulcatis subtus earinatis margine scabridibus Internodio 3-4 plibus brevioribus basi breviter connatis, bracteis 8-10 calyci subsquilloso lanceolatis acutissimis subpungentibus praeter nervum rubrum crassum anguste albo-membranaceis, calyce oblongo campanulato brevissime puberulo tubo nervi albidis dentibus tubo triplo brevioribus oblongis nigricantibus albo-marginatis, Details aoguste linearibus obtusis ungue nudo laminam pallide roseam breviter exsertam, capsula...

Hab. in rupibus *Syrus* borealis prope urbem *Antiochiam* situs ubi specimina pauca Juno 1846 legi.

Caulis 6-8 pollicares, folia 3-8 lin. longa, calyx cum bracteis 4 lin. longus. Species distinctissima prope *T. danthotdem* collocanda.

TUNICA THIBSALA Boiss.

T. perennis glabra basi suffrutescens multicaulis, caulibus viridibus asperulis leuibus simplicibus junceis superae angulatis apice capitulum bracteatum compositum i-nimiferentibus, foliis subantbesiam exsiccatis anguste linearibus apice unguatis unguem marginem

lanibus internodio 3-4 plb brevitibus, bracteis calycem squantibus ovatis doreo stramineis subcannalis unnerviis margine latè albo-membranaceis obtusis nerro excurrenti sept mncronulatis, calyce obconico glaberrimo prater 5 nervos validos infernò vlresoentes supernè nigricantes oranm6 albo-membranaceo ad medium usquè in dentes oblongo-lineares obtusos muticos latè albo-membranaceos dlvo, petalis.

Hab. In *ThmaUd*, Aucher N° 537

Caules ferè pedales ob folia cftò decidua apbylla Juncea, bractee 3 |fr~l lin. longs 9 late, calyx 3 lln. longus fntrà bracteeas pedicellatus, pelala non vldl. Affinis f. *dianthoidt* a quft differ! bracteis ovatis obtusis aec lanceolatis acutis, calycis ad medium usquè nee breviter dentat dentibus hnearibus obtusis muticis nee triangularibus acutis

DIANTHIUS VISCIDUS B et Gbaub. var. *Tymphrestea* Boiss. et Sprun — Gaules tantum 2-3 pollicares, petala facie supenon glabra nee papulosa suprà baem hmbl maculâ transversfl intensè purpurea picla.

Hab. in monte *Velugo* (Tymbresto) jEtolis (Spruner).

D. wscido ut synonymon adnumerandus *D. Olymptus* Boiss. ~~Diagn.~~ I quem Don differre compen. Hæc pulchra stirps in omnibus montibus excelsionibus Gnecis crescit, monte *Delphi* Eubaes (Aucher) *Tymphresto*, *Olympo Thessalo*, montibus *Maedonue* (Grisebach) *Tayyeto* (Heldreich)

Pro *D. maerolepidi* Boiss Diagn. I p. 48 pone *D. GynV.* et M. spedem mini tune i{potam cum specimina Aucheriana desenbebam.

D. macTolepw Fend. In Kotsch. pi Pen austr. N» 689 non Boiss. est *D. sUnocephalus* Boiss. Diagn

DIANTHOS ÏIHENOLEPIS Boiss. (Sect. *Armeruutrum.*)

D. infernè brevissimè puberulus supernè glaber basi Buffrutescens, surculia sterilibusabbreviatissimis, caulibus erectis simplidsslmis tenulbus obsolete quadrangulis apice capitatis, foliis subquinenervis anguste hnearibus surculorum angustioribus abbreviatis, canlinis erectis margine remote scabrusculis Internodio brevioribus acuUs, vagina folli latitudine 2-3 plb longiori, capitulo denso 8-4 flor, basi cuneato-attenuato bracteis oblongis in cuspidem squamas ibquantem attenuatu suffollo, squamis calycinis quaternis albis enervis a basi angustilon sureum dlatatis cuneato-obovatis apice membrana lata Intense

purpureâ p̄caluli subdenhculalâ obtusissimâ truncatâ subrelusâ marginalls dorso supernè striatulo in anstam plûs minds elongalam producto, calyce squamis vix terciâ parte longiori oblongo striato virldi dentibus rubris rotundis brevibus obtusissimiB margme ciliolatis, petalorum lamiois roseis parvis cuneatis acutè et profundhisculè denticulatis supornđ papillan-punctulatis.

Hab. in *Mesopotamia* loco non indicate Kotschy pi. Assy. N° 164.

Caules 9-40 pollic, folia surculorum pollicem, caulls4 4;3 poll, longa lineam lata. Flores magnitudine Inter *D. polymorphism* BIB. et *D. diutinum* W. K. medii. Dentibus calycis obtuslssimis *D. polymorpho* accedit qul longè differt floribus majonbus, squamis ovatis tubo calycis tr[D]6 brevionbus muticis concoloribus supernè obsoletè marginalia

DIANTHUS MULTIPUNCTATIS Ser Prodr

D. lineolatus DelUe.

Snedes per totam Auatoham meridionalem et prsBsertlm Synam et PaL^stioam vulgatissima et cujus varletates sequentes nondum cogoitas

Var. *p. vetuttna* — GauleB follaque indumento breri denso caneB-centfla.

Hab. ID declivibus inter *Jerusalem* et *Jencho* et alibi in Syriâ. (Qoiss.)

Var. *y. mvsrantha*. — Yelutina, caules decumbentes 4-5 poll, pauciflon, calyx 5 lin. tanttm longus

Hab. propè *Cedros Libani* (Boiss.)

DIANTHUS POLYCLADUB Boiss. (Sect *Caryoptyllutfi*)

D. biennls vel perennis vlrllds a collo multicaulis, caulibus glabris vel Infernè tomentellis crassfuscis subangulatis elatis virgatis strictin a medio in ramos tenuissimos strictos squamosos elongatos aplice uniflorea dichotomie ramosisslmis, surcuhs nullis, foliis caullnis mferioribus Bub antheri Jam exslccatis csteris angustè linearibus strictis subflexuosiB trlnervus ciliatulo-scabridis interuodia squantibus, vaginâ folii latitudine breviorl, nodis tumidulis albidla, foliis ramorum subulaus adpressiB brevissimis squamafrmbuB, Bumms flori contiguifi, flonbufl parvis, squamis calycmis quaternls ovatis stramiaels subonerviis membraoaceo-marginatis obtusiusculia in mucronom brevom

aubulalum adpressissimum dorso productis, calyce stramco oblongo-cylindrico bractew subtriplici longior in densis lanceolatis acatis (mrimbrunft ban) lalluseulft superne sisuslm evanescent! marginalos flsso, lubo sub Ipnte punctulato trnuiti T undi-stnato strns ad basin tubl intervallis enervlis cdtiniium dorso drajirentibus sejunctis, petalia pallidit carneis lamina lanccolatâ auutâ ghbrih dcmtun lineari-convoluta calyce paulò lircvion

Hab. in montibus aridis pt humilioribus Synas inter *Darkousoh* ad *Oronlcm et planitim Aleppensem* Logi Jun 4846

Gaulcs S-3 iwdales, rami lenmssimi, calyces arc. 5 lin longi medium versus 4 V* "n toll. Florrhin minutis ad *D. Analolietim* vel *D. romosMMmum* Polr accedit stid radica indole rt calym nerva-lione naturalis p r^ D muldpunetafim Sep. at D fwiateHwn Fonzl collocandus eat qui recedunt flonbus tnpl6 majonbus, petalis dentatis etc.

DUNTIUS JUDAIGUS Bom. {Seel. *Caryophyllum*}

D. perennis lotus breviter et adressA grtBeo-loiDentosua, cnpjio-BO-mullcaulls, folia lanccolato-linaribus acutiusculis albo-margiatis facie supcrion eximu¹ cansiliculalo-plicatis inferior! carnalis ja(ulo-Tccurvis, radiolibus brevisisrais, uulinis mlernodia iquaiilibus, vagina Iblu lattudine brovion, caulibus unilluns quadrangulis, Qonbus magni» ebracUulis, squamia calycemiii qualernis glabns crecto-patulis a calyce subdlverganllibus ovaio-oblongis medio atrlaba rnargine lajvlbus stramlncs In inucronem fuliaceum acutiusculum BIB breviorcm erooto-paluluin attenuatis, calyce squamis subtnpl6 longiorl cylindrico supernft angusLito lenuiter slrulo virescenll dunlibus lanueolatis acutis clia-tulls VK membrdnacco-raargiiKitis, petalorum uiiigue longisslmfe In laminam flavulam integrani oblongam glabram ro quadruplò breiorecm aniphato.

Hab In declivitous cahdfs Judirac fnUir *Jerusalem* el *Jericho* ubi exemplar unicnm legi.

Plitita scmpedalis, folia radicalu scmpollicana caulina pollic. expifcata Ihn lataximlo plicata rocurvaque, squams dWergentca, cal^x 46-47 lin. longus Species palcbemma squamis divergentibus foUtsque recunls *D. Ithanotidem* refrens a quo folns non pungenli-bna rt inpnmls prllals non fimbriata longtus tamen difftrt ot appropinqmda *D. mmaddpho* Vent — *D. prtmmbentt* Pors qui glaber

est, habet folia ovata angusta nec complicate recurva, cauliculis dimidiò minoribus, lobum calycium proportione brevioribus et qui forsàn a formis *D. busolana* OGD differt.

DIANTHUS LYLOBBUDS Boiss et Heldr. iii pi. Cret. exs. 4847 (Sect. *Caryophyllum*).

D. glaber, caudicibus crassis terribus lignosis tortuosis procumbentibus surculos steriles paucifolios abbreviatis caulibus breves terribus basi densis fohosos siniphcissimos unifloros edentibus, foliis pallidè virentibus flexuosis flaccidis lanceolatis - linearibus margine scabris subtus ternerviis nervis lateralibus marginantibus, caulibus internodiis paulisper horibus, vaginà folii latitudine brevioribus, nodis subincrassatis, floribus bracteis summi brevibus linearibus acuminatis pilis minus distantibus, squamis calycibus quatuor albis enervis late ovatis obtusis brevissimè in mucronulum viridem obtusum atque calyce quadruplo brevioribus, calyce late cylindrico striato superne subangustato dentibus lanceolatis acutiusculis glabris angustè albo-membranaceis, perfoliatis utrinque concoloribus flavidis ovalo-cuneatis brevissimè et obtusis denticulatis in utraque lamina triplo longiorem tubum calycis paulo excedentem ramulis attenuatis.

Hab. In rupibus ad *Palaocastro* supra *Kitsamos* Crete (Heldreich).

Magnitudine florum, calycis et squamarum formè *D. sylvestrem* omnibus referens, differt caudicibus elongatis nudis crassius pennis anserinis, foliis brevioribus flaccidis lineari et amplius latis, eis surculorum radice quatuor; 2-1 poll, longis, petalis lividis oblongè denticulatis, laminà unguis multo brevioribus.

In pi. Anatol. exs. Heldr. et Pinard loco *D. aetmopetalæ* Fenzl pone *D. elegans* Urv., species *D. aetmopetalæ* equidum affinis sed diversa foliis 3 nec 7 nervis, squamis calycibus 4 nec 6-8, hisque notis.

DIANTHUS UTPOCDXOBUS Boiss. et Heldr. in pi Anat. exs 184G. (Sect. *Caryophyllum*.)

D. perennis virens pumilus exspiloso-mucosus, caulibus ascendentibus abbreviatis lenibus superne angulatis simplicibus vti parvis breviter ramosis 4-3 floris scabris brevissime papillari-velutinis, foliis brevibus angustè linearibus subulso-trinerviis ad marines et sæpe etiam ad uci-vos scabris, tunonam multum

↳aucis abbrevialissuims ngidulis, Odulius luleruodio ipultu brevion-
bus, vagini folh latitudinem subduplô superauli, squamis calyclms
qualerms stramlnels enervns ovatis membranâ albo-byalmâ latiusculâ
lencrâ superne latiusculfc marginalia m mucronem teoaem adpressuni
brevem attenuate, calycis IUIJO cylindrico striato squamae plds duplô
Huperanti apicc in dentil triangulan-lanceolalos aculiusculos marginc
uilfalulos basi rubellos snperne albo-membranaccos flsso, petalorum
laminâ supri pallide roacfl vel utnnqufe flavidi oblongo-cuneatft acute
denuculatA IMBI IDMIS pilosuM

Uab. in pascuis siccis *Taun Isaurtet* inter valles *TourtcheUar* et
Ermenek all. 3000' et in regione alpna monlis *Annmas* alt. 7000'
(forma minor) (Heldreich).

Gaulcs semipedales, in formâ alpina 2-3 pollic , folia radicalia \ft
pollicem caulina rarb pollicem longa, flores feris dimidiu minores els
D zonata a quo prtutoreft riiJfert denlibus calycis non aculissimis, foliit*
non 7-9 nervus, affinis quoque). *mndescmu* \is. qm disUnguitur
caule clato teroli raiuoso, bqumib denubnsque caljcis longb subolalo-
acumiDaUs, petalorum laminâ longâ angustâ

UIANTHUB KOTSCUMNUS Boiss ft Heldr. (Seel. *Caryophyllum*

D. pallifc virens basi suffruticosus caudicibus nudis sacpe subjon-
tatis laxfe exspitosis surculos brnisslnios caulesque plus minus elon-
gatos tenues virgatos simplices vel parcfè ramosos edenbbus, follis
omnibus abbreviate angusl6 lincarl-lanceolatis acutis sublûs 5-7 sul-
cato-nervoals margine et ud uervos saept ciliato-scabris, surculornm
brevisslmis rigidis subulato-tnquetris erecto-patulis, cauUmsinter-
nodio 3-5 pl6 brevionbus, flonbus terminalibus solitariis vel 8-3 con-
ferlis et tune subsensilibus parvis, squamis calyciniB quaternis ovatis
stramlnois cnerviu> obtusis angusti albo-marginalis dorso in mu-
cronem brevem obtasum excurrenti, caljcc ovato virldl toto sriato
squamis duplô longlon apice angustato in dentes o\ato-lrlangulares
obtusiusculos laliuscnk albo-iuarginatos aliatulos flsso, petalorum
calyce sesquillongiorum laminâ oblongâ mlegerrimâ glabrâ albâ vel
paldhBBimft carneâ sublûs concolon in unguem senslm attenuate.

Hab. in *Tauro* (*hluua* Kotschly N° 86 sub *D pallenlx*, *Taun Ly-
caonxco* in monic *Karadagh* supra *Larenda* et loter *Beyehehr* el
Kontah (Heldreich J

PlaliU 4/2 vcl 4 pedahs. folu *iji-i vuWmm*, Lahu-es b-6 Im lonpi

D. pollens cui auuciss Fend hunc relulerat et qui forsàn floribus basi bracteatis a *D. cinnamomeo* Fl Gr — *D. bcolori* MB. non satis differt est species a nostril meo SCDSU longè diversa follis tnnerviis multb lalionbus longioribusque, floribus triplb majonbus, petalis dentatis. *D. Anatohcus* magis affinis et pro ciijus formâ *D Kotschyanum* ollni babueram nunc sat mihi distinctus videtur squamis senis Dec quaternis, caule clatiori simpllciori, calyce magfo elongate *D. parvtflorws* afflnis quoque differt floribus dimidid minonbus, bracteis subulato-acuminatis, dentibus calycis acutis, petalis vix euertis

DIANTHUM MICRANTHUM Boiss. et Heldr. in.pl. Anat. exs. 1846. (Sect *Caryophyllum*)

D glaber \indis basi suffruticuloBus cacsplto-multicaullis, caulibus stnetis teouibus rigidulis teretiussculis simplicibus vel apice breviter furcatis 2-3flons, folus tunooum radicalium caulinisque brevis-Binus rigidis acutis tnnerviis margine scabridis inferioribuB subtus SSBIIU papillari-puberulis, caulims adpressis interuodio multoUes brevioribus, vaginâ diametro basi folii dupl6 longiori, bracteis quatemis bre^liter ovalis enerviis stramineo-virescentibus obtusissimis angustè albo-niarginatis obsoletè et obtusè mucronulatis calycem dimidium non aequantibus, calyce brevi lato oblongo-dololifonni viridl-strlato denhbus ovato-rotundis obtusisslmis angustè merabranaceiB ciliaUilis, petalis calyce duplb longionbus lamiaâ supernè albâ subtus virescenti-rubcllA glabrâ intcgernmA obovalâ.

Hab. ID berbidis *Town Isaunm*, in montibus suprâ *Tourtchalar* alt. 4000' et loparte occidentali montis *Ghetdagh*. alt 6000'. (Heldr.)

Gaules pedales tenues slricli numerosissimi, folia 5-10 lia. longa scsquilioeam lala, calyx 3-4 lin. lingua Besquilineam vol paulb amplius talus. *D Anatolwo* et *Kotschyano* habitu, floribus minutis ot petalis integns afflnis sed ab eis calyce brevi lato dohohfonnl oblusissimè et breviterdentato petalisque longius exserhs distinctisslmus, bâc formâ calycis accedens ad *D. brachyanthum* Boiss. Voy. Hisp. qui differt Bquamib acuunnatis, calycis basi laevis dentibus acutis, petalis brevibus aliibque notis. — *D. emarginatus* Ser. calycis squamarumque formâ *D. mxcraniho* quoque afflnis egregie differt caule 3-4pollicari, folds longlonbua latioribusque flaccidulls, floribus duplb majoribus, petalis subdenticulais

DIANTHIUS SPHACJOTICUS DOISS cl Ueldi in pi. Cret cxs 1847,
(Suet *Caryophyllum* J

D. glaber caisio-virons, caudiculis tenuibus suffruticulis nudis
surculos paucos rosulalim paucifolios tmilesque tenues nanos ascen-
dentes guniculaios obtuse quadrangulos udenlibus, foliis minfmis ova-
lis (c) ovalo-oblongis su]lus crassu trlnervlis oervis lateral] bus mar-
gmis cubrido contains, cauhs internodio 2-3 plo brevionbus, summs
floras br.uU'aulibus hni'an-oblongis, squnmis caljcims adprosls vi-
ridibus ublongis acutis 3-1 nervus inferuc laliuscuk albo-marginatis,
Falyce s(u:imms Iriplu longion cybndnco superne ntenuato virirli-
rubello dense siruto in denhs lanccolalos albo-niarginatos oblusius-
cidos bruviler muuronulatos flsso, pcalorum unguibus elongatis In
laminas parvas roscas obovaio-cuncaLis intt'gras glabras breviter ex-
sortiis diLtuuis

D leucojihaiis Stub. Ueis Crot. vol a tab 9 uon Sibth.

Hab in lajiidosis summi cacumims *Hagio Pneuma* iDonliumi *Spha-*
ctolwoium Crct.1! alt 6000'. (Heldreich. Sieb)

Gaulcs 2-3 pollicares, folia 2 9-1/2 lin longa 1 4;2 lata, calyx 7-8
lin longus. Species pulcbulla *D myrtmervw* tiriseb. et *leucofrhceo-*
Sibth affinis quorum prior caulibus prostratis Imbnctim fohosis, fo-
lms lan<:colalo-oblon^{fis}, posterior foliis lancuobto-liniianbus cauliois
a floro romotis bracteisquo forinae diversx fcr« enorvus differunt.

DIANTHIUS ITBAVINUS Doiss et Held. ID pi Anal. cxs. 4846 (Seel
Ftmbnalx.)

D. glabor palldfc virens, rhtzomate ligDOso incrassato multacauli,
surculis paucis sessilibus paucifolils, caulibus teretibus superni parcc.
et stride bifurcalo-ramosis ad oodos mcrassatis et gemculato-flexuo-
sis, foliis stnctis anguslc linean-subulatis subtnquetris suprâ sub-
canaliculatis 3-5 nerviis margine scabndis, eis tunonum elongatts
apice long6 attenuatis, cauhs internodio 3-4 plb brevioruius, vaginA
folii lalitudine 3-4 plo longion, flonbus lerminalibus vel 8-5 approxi-
matis subsessilibus vel infenon remoLo, bractuis scuis stramineis
calyci adpressis obsolete striatis oblongis membranacco-marginatis
obtusiusuulis dorso in mucronem tenem brovein productis, cal^{ci}
squinnis duplo longion glauco-stnalo Ill denies ovalos obtusiusculos
ciliatulos mueronulatos flsso, pcalorum ungue longissimo in laminam

minutam ovalem breviter exsertam ad medium usque palmatio 7-9 fimbriatam dilatato arcoli intermediâ ovalâ.

Hab in flsuns rupium *Taun hairnet* inter *Karamaa* et *Ermenefc* in descensu ad vallem *Djoksu* alt. 3000'. (Heldreich.)

Pedalis, folia caulinum 8-3 poll. longa basi *Aft* lin. lata supernè setaceo-attenuata, caulina 6-10 lin longa, calyces arc. 40 lin. longi. Ab affinibus *D. ennto* et *fimbnato* dignoscitur foliis longioribus selaceo-attenuatis longè vaginatis, squamis calyce diraidiò nee tñplò brerloribus, flonbus in caule non solitarus, laminâ multò mlnon.

DIANTHUS ATOMABIUS BOISS. (Sect. *FtmlyTUtll*)

D glaberrimus vinctis rhizomate sublignoso pluncipiti, surculis sterilibus subnullis, caulibus erectis herbaceis 1-3 flons, foliis lalinearibus subtnncmis infernè subcanahculatis flaccido-flexuosis, radicaibus citò exsiccatis abbroiatis, caulibus internodio longioribus supremis attenuato-acumloatis calyces dimidios squantibus, vaginâ inargine membranaceâ tenerâ folii lahtudine sesquilongion, floribus brçjitor pedunculatis, squamis calycinis quaternis oblongis margine rubellis subenervis in mucrone foliaceum subulatum flacclidum els longiorem basin dentium ralycis attingentem attenuatis, calycia tubo elongato cylindrico viridi-sMato dentibus triangilan-lanceolatis aculis margine cllialulls, petalorum unguibus subexsertis longissimis in laminam parvam flavidam glabriusculam mlnuò nigro-punctalam ovato-cuneatam ad medium usque fimbriatam dilatatis, laminae areolâ ovatâ.

Hab. ad radices montis *Demawend* supra pagum *Atk*, Kotschy pi. Pers. bor. N° 341 sub *D. hbanottd*

Planta 8-10 pollicans, folia caulina intermedia 8-2 4;S poll, longa sesquilineam mfernè lata, squamx cum mucrone pollicares, calyx 4 6-4 6 lin. longus. Pulcra species *D. libanotidi* Lab. calyce elongato, petalorum formâ et colore affois sed hie qui in *Ltbano* (Labill), monte *Suun* (Schimp.), *Persia* (Aucher!) crescit, differt foliis rigidis pungentibus, squamis calycinis senis pungentibus recurris calyce plàs dimidiò brevioribus etc.

SAPONARIA FILICADLIS BOISS. (Sect. *Bolanthus*)

S. perennis imâ basi suffrutscens tola bressiviniò et densè tomentello-cansrens, caulibus filiformibus tcretibus elongatis prostratis re-

motè fohosis laxft ut dicbotomft ramoais fragilibus, foliis lofonoribus oblongo hneanboB basi attcDiiatis acutiusculis, supcnoribus ovato-oblongis obtusiusculis, flonbua ad dicbolomfas sitis pedicello calyce brevlori suffultis et in fasciculos 8-3 flores seals ramulos sessOes veJ subsesslles inter se remotos terrinalesque dispositis, calyce tomentello cylindnco latitudine triplft longion obscure fasdalo-viremi inter fascias albido denlibus G brevlssimis tnangularibus obtusis, petalonun laminà albà ovato-rotundà, capsulà....

Hab. in fissum rupium collium aridissimorum suprà *Domanum* sitorum, legi flor. Maio.

Caules 4/J-4 pedem longi, internodia pollicaria, folia 3-5 lin. longn apicc 4 *Kjt-t* lata, calyx 2-4;S lin. longus. Aflinis *S fonuta* et *S thymifoluB* Boiss., a priori caulibus filiformibus elongatia, floribus non capitatis, a poaterion indumento brevissimo non molh, folUa aupeiioribus lalloribus distincta

SAPONABIA MOLUS BOISS (Sect. *Bolmthus.*)

3. perennis inSt basi suffrutescens tota molUter hispida ~~grisea~~ ~~fic-~~ ~~dduia~~, caulibus ereclis tenuibus fragilibus simplicibus ye| ~~supernò~~ dithonomis, foliis inferionibus aggregatis lineanbus basi attenuatls supenoribus ovato vel oblongo-ellipticis omnibus acutiusculis, floribus in dicbotomUk solitariis pedicello calyce breviori suffiiltis et in fasciculos axillares et terminales 4-3 flores subsessiles inter se remotos dispositis, calyce molliterblspldo oblongo-cyhndrlco latitudine duplfc longiorl inter costas anguatas virides membranaceo dentibus triangularibusacuhs, pctalorum laminftalbà ovato-rotundà, capsule oblongfl calyce breviori, semimbus sub lento minutè tuberculatis radícula elongate rostriformi.

Hab. in fssuris ruplum calcarearam drcà *Eden* libani, legi flor Julio 4846.

A pracedenti differ! indumento elongate moUi, caullbuB abbreviate ereclis, calyce pro latitudine brevion 8 lin. longo; aecedit propitis ad *S. thymxfolum*, quse tamen foliis angustioribus, allisque notis sat differrevidetur.

SAPONABIA BAHBADENSIS Boiss (Sect. *Bolantkus.*)

S. perennis basi suffrutescens sub lente minutissime iomcntella fli-

~~vidu-vireu~~B, canibus erectte fragillibus teoulbus saperoè pare* dk* o-
tomibus, foliteinflmis eonfertts angustè HnearUras brerilrasllneari-obkro-
glB onmlbuB acutibus bad attenuate, floribus ad dicbotonnâB el aiUlas
•oUtarilB vel binis pediceUo calycem sBqoaotl vel snperantl suffultis, ca-
lyoe brevtaslmè tomentello oblongo-campamiato latitudlne vlx duplò
loDgiorl inter 6 costas tenues vfrescenti-rubellas albo-membranaceo
dentibus quinqne trianguluribus brevlsshnu acntli, peialormn Ia4kiâ
albâ parvfl ovato-rotuodâ, semibibus sub lente minute toberculatls n-
dlcoU promlaenti.

Hab. in flssurla rupium *Antilibani* ad *Souk Wadi Barrada* obi legi
flor.Malo48<.

Afflnls prscedenti Bed Indumentum brevisslmum lente tavitâm am-
•plcuum, florea longius pediceUatf, calyces seaquillneam tantnm loogl.
Species tenue e sect. *Bolantho* hie enumerats inter Be valde et foraan
nmlB affiDes sunt, in loco natall tamen dWerss mibi Tsæ snnt et eaa
exploratonbuB tutuns observandas commendo. Els admoddm afflniB
eat *S. hinuta* Lab. quam leg! in scopohs excelsls montifi *Sfakriui* U-
bani et *Gebel Soheiek* Antilibanl et qua staturâ pumlla, indumento hla-
pl^olo aed brerl, floribus subcapltatis sat distincta vldetur — *Sap.*
oodlata Bolss. — *Gypsophitia ocellata* Fl. gr. tab. 387 quam in Dtagh,
I at varietatem *S. thymifolia* adjuoxeram nunc *ex* icone et deacrip-
Uone Bpedes dlatlncta vldetur. Tandem flectlonl *Bolantha* adnume-
nndB aunt 8. *Ptniea* Bolss., 5. *fruticulota* Bory et Cchaub. et Sop
ftuoiculata Bolss. et Heut. — *Gyp\$oph\la fasciculate* Rent, et Marg.
I. Zac.

SAFONAKIA BITHIACA BoisB. (Proiwnio.!)i

S. annuaP tota birauto-viacida caule recto oppositè ramoso ramfs
plnrlea dlcbotomè nmulosls, follla Inferioribus oblongia obtusis In pe-
tfohim aftenuatls Babtinnervlls, ramoram sesslllbus elliplico-Bnearlbiia
oktoflilasculls, floribus ad drcbotomJaa et aiUlaa auperiores pedlcello
tenul calyce paulò brevlori auffiiltB, caiyce florlfero eyHndrico froctl-
fero oblongo-conlco blreato-Tisddo yiridl eoervi dentUniB triangula-
rlbus acotiB, petalls llinearibus apice acutè emargloato-bDoblB, capaalfi
calyce paulò breviorl, aemlnibus renlformUnis compressis seriatim tu-
bensulatls.

Hab. in S^rid undè spedmen incompletum allis plantia mlitum
rahdl.

Media inter & *Orientalis* et *S. viscosam* qua ambo petala bifida habent, prior differt ramta pedicelUsque tenuloribus rigidulis elastictonee fragilibus, folia minoribus, calycis fructiferi obcordati dentibus acuminatis, capsula calyce paulo longiori, S. DUCOSO distincta In flore recentia conferta, calyce capsula quoque breviori, lamina lobis truncata.

indentata Boiss. Diagn. I ut synonymon adjuugenda *S. attenuata* Fenzl. Linn. 4843 quae hujus forma protogyna tantum eat.

SAPONARIA PAPHIIVUCA BOISS. et Heldr. in pi. Anatol. 1846 (Sect. *Bootta*.)

S. perennis inferna glaberrima inflorescentia valde glanduloso-hirsuta, caudicibus crassis lignosis apice ramosis fasciculos breves foliorum caulisque toretes foliosos subsimplices erectos edentibus, foliis uncinatis lanceolatis videntibus uninervis acutiusculis basi longe attenuatis superne latioribus caulis abbreviatis intermodum paulo brevioribus, floribus 4-6 in fasciculum terminalem rarida 3-4 approximatos confertim brevissimè pedunculatis magnis, foliis summis bracteoformibus brevibus a basi oblongis velanceo-recurvis pedunculatos abscissis vel bupcrantibus, calyce florifero longe cylindrico viridi sobrius hirsutoviscosissimus denticulis lanceolatis filiceo-acuini distichis petalodram ungue apice exserto in laminam lineam-cuneatam ad meam usque in lobos oblongos bilobam dilatato, corona in 9 lacinas lineares bipartita, capsula...

Hab. in saxosis *Taurus Pamphytoi* in via Inter *Maria* et *Adalia* alt. 4000'. Flor. Junio (Heldreich).

Caules 8-40 pollicares, folia inferiora 4-5 Ha. longa apice truncata. Unifera lata, calyx cum corolla pollicem longus fere truncatus. Pulchra species inter *S. officianalem* et *S. depressam* Boiss. media.

In Diagn. I p. 48 pro *S. pumilionis* Boiss. ponit *Sap. pumilionaria* Boiss. in pi. Anal. Heldr. etc. Nomen mutandum erat propter antiquitatem *Sap. pumilionem* Fenzl. — *Sisene pumilio* L.

Stenocarpus ammt.

SILPHIUM PIUTBUCA. Boiss.

S. annua tola breviter pubescentia vixit, caulibus 4-5 pedum longis puberulis

pentè bis vel ter dichotomis, foliis parvis oblongo-Bpathulatis InfertHoribui In petiolum breviter attenuate apremunt minutis bene W-fonibus oblongo-linearibus acatisculis, floribus Unu ad omnes dichotomias et ad apicem ramorum terminalium Bills, pedicello crassiusculo viscido florum dichotomiarum calyce longiorum aliorum calycem squantifrutifero semper erecto, calyce dense et breviter papilloso-vittato davato-obconico viridi-rubello nervis obsolete lineato dentibus B triangularibus acutiusculis brevissimis, petalorum ungue linearum ID laminam parvam cuneato-retusam senam dilatato, coronam usque ad basin in 2 lacinas triangularem-oblongas obtusiusculas divisam, capsulam oblongam crustaceam flavidam eumle punctulata carpophoro est triplici breviori suffulta, semine reniformi-compressis tenuissimè rugulosa dorso canaliculatis.

Hab. In arena ad radices montium *Pentelii* Attici, Boiss. Spruner sub *S. itodoxi*.

Planta 4-5 pediculis, pedicellis florum inferiorum 6-8 Ita. longi, calycis floriferi 3 Un., capsula cum carpophoro 4 Hn. longa. A nobis confusa cum *S. sedoidi* quae exlimè differ! cauibus ramosioribus InfertHoribus reijntariis dichotomis supernè autem tantum flores laterales axillares edentibus, floribus dimidiis minoribus, pedicellis post antheras erectopatulis, capsula davato-cylindrica byallio-membranacea, carpophoro subnullo, aemulibus dimidiis minoribus.—*S. ramonutma* Fl. Gr. bale tydoque affinis ex descript. et icon, exlimè differt calyce 10-costato, capsula crustacea cylindrica, petala profunde bifida, coronam 4-dentata.

SILEKBI PIETOBUI Boiss. et Heldr. In pi. Cret. exs. 4847.

1). annua Inferne brevissimè papilloso-puberula supernè glabra. Heredidala, caulis nanis a basi divaricatum semel terve dichotomis, foliis radialis carnosius obovatis vel oblongo-Bpathulatis obtusis In petiolum brevem attenuatis, caulibus linearibus acutis minutissimè bracteatis, floribus terminalibus vel In dichotomia atque pedicelliferis Ulliformi fructifero erecto flore 5-3pl6 longior suffultis, calyce triflorifero obconico fructifero ovato-davalo glaberrimo yreaceo subnervi obsolete lineato dentibus quinque late triangularibus obtusiusculis angustè albo-marginatis, petalis e sicco albidis vel pallide emarginatis concoloribus laminam exsertam cuneatam semibifidam, *Corta* ad haec usque bipartite parvioribus quadris lunatis subquadridentatis, capsula ovato-rotunda crustacea flavida minutissime punctulata carpophoro e*

dimidiò breuon auffulla, semtibus remfonmbus compresstB don* profuodè canallculatia teauls&imè rugulosls fade ISVUHU.

Bab. In apncis lapldosls pinclonim loco *Ptyehro* dlcto In lalere mendlonab montls *Tavouist* prov. *Situ** Creta «lt. 3000'. Flor. AprlH. (Heldrelch.)

Planta 9-3 polltcarls, folia radicalfe &A6Hn. tonga * *ij%* late, calyx vlx 3 Uo. longus, capsula cum stlplte 3 Ho. longa. Species pulcbdla af> flms pncedenti a qua characteribus datls distinguatar. *S. ramonatma* quoque afflnis differt fohorum forma¹, capsula cylindracel, calyce ~~con-~~tatoelc.

SIUKI ~~Russom~~ Boiss

S. anaua brevisalmè hirtella, caulibus pumlllg a basi plurteadiva-rlcallm dichotomis, foliis radicalibus aubrosulatis caullniBqne parvls oblongo-lanceolaUB acutiuscuhs virldibus, floribus ad dlcbotombi et extremitatem ramulorum sitis pedicello setaceo calyd squulloDgo vel lougion fructifero sajpfe patulo-deflexo suffiilbs, calyce florifero otconlco fructifero obloogo-chiYato viridulo enervi vlfcidulo (ere ad %t-lliam partem usquè ID denies tngularl'lanceolatoa acutos ~~mes i~~ra-iiaceo-marginatoB fisso, petalis anguslè liDeari-cuoelialB e sicco ~~flavida~~ apice brevissimè exsertis breviter bUobis nudis, capsule calycem squanti tenera ovatft carpopboro eft dimidid brevlori suffultft, semloibus miuV mis reniformibus eximie rugidosis dorao non canallculatb.

Hab. tn arenofuB ad ~~W<td\~~ *Sannour* deserU Arabteo-£gypUad. Comm. amlclas. prof. Huason Kahlrenals.

Planla 9-3 polUcaria, folia radlcalia 5-7 Un. longa 9 lata, calyx flo-rifer a lin. tantùm longus, capsula cum carpopboro 3 lin. longa. AfBoti pnncedentlbus a quibus calyds dentibus elongatis, petalls vix exsertisj semlnibus dorso planis etcdlversisatàia eat.

SILBWB BUDDAHS Boiss. el Heldr. la pi. Anat. exs. 4846.

S. annua brensalmè papilloso-tomeoteUa sects caules et ramoa vl>-ddula, caulibus plurUma pamUte rubeUls a bad plaries et dlnrlcstun dldwtomlB, n o b teoulBBiniB ngldulls, fottis' omnibus caultais nfnolto oblongo-lnearlbuB obtusluBcnlto basl attenuatte Inferioribus topeme aubcanaliculatis sepè sobrecnrvis- BupremiB Unearibus mlnntuurndtt floriibufi ad dkdioUMuMMipremaj ant td ranmhM termnles ~~stis-pe-~~

dkwUo aeiaceo calycem sqnantt vel (ID dichotomy) doplb loegiori tiftL fliltla, calyce oblongo-clavato brevtealmb papllloao-pnberulo ilbidfr eonatato 5 llnelvirescenti-mgrJcantfbus aepè obaoletla pereureo dentlnt triangularibus acutia margioe dlolalla, pelalia roaela cuneatto semlbifldis, coronâ brevisaimfl vix peraplcuâ ad basin usquè B-fldentlculaiâ, capanlâ calyce panlnHum longiori crastaceâ flavldâ tenulsslmè punctnlâtâ ovalâ carpophoro eâ paulò brevlori suffultâ, semlnlbos rentfoniHMinpresus (immatarisj Isvibiia.

Hab. In arenoaia maritlnto portfta *ToMnooa* Lyda (Heldreich).

Planla 4-6 pollic, folia iofelora 4-5 lln. looga 4-S lata, calyces floriferi 3 UD. longi, lamins petalorum calycl ferfe aqallongai, capsula com carpophoro 3 $\frac{1}{2}$ UD. longa. Afflnia *S. pinetorum* aed distincta formi follorum, calyce pnberulo, carpophoro lonjlori eta. Proplâa accedit ad *S. Kotaohyx* qua? dJffert calyce aervis promlneatibus costulato, dentUnia acnmbatia, aeminlbua tenulter ruguloals. — SpedmiDa ex aridia *Pamlykia* ad flurlom *Catarrhactum* ID pi. Heldr. aob 5. *eamtdaMvar** nomine dlatribata ad *S. Kotschy* refereoda aunt.

-Spraa Balsa Boiss.

• S: tonua, parcè et brarltter blrtula, caultras pundUa a baal dinri-eattm dktbotomiB nndaqie flitfornribiw rigldóJta, ftdlla angaatfl Hdetrfima eotfrolato-plkatU acotluacuIB, florlbu 1B dlchotondto aaperioribus et ad ramuloram apteem pedicello setaceo calyce | -t plò longlori frucUfero patulo auflultlB, calyce patulé et sparalm puberulo aogustè clavato Hneia quafaqe vlrldibus e deotlbua decorrentlbus membranft albMiy«HQâ aepantla percono, deotlbus triaogulari-laoceolatla acuUs albftWaarghtttla longhiwailfeque eUiatfl, peialls e alcoo flaridta lmdnl UdttrtHwoeatA exsertA calyce dlmlld6 breviori angnatè aemlbifldâ, coronâ..., capsalâ oblongâ cruBtaceA teneri calyce panlo bnriori c a i ^ pfaoro est panlo longiori auffidâ, semlnlbua (immaUirte) ISBTUHIB.

Hab. ID aolo aalao ad lacurn *Nmek Derja* prope *Stfyttu* Kot«tby pi. Pers.tastr.N⁰453.

-*S.Mnearis* var.*tenellaVexal.* loc. clt.

>PUMA 3-4 pollicaris, folia majon 5-6 lm. lengi, calyx florifer 5 HB. tottgOB aognatos. *S. Unearii* meo BBBBU Jong* 4ffert caofe AMOM M''lfl pedall aemtadbuBqne rngriosto-, Btt^aflrita *S. ewsudanti*, qôai «dydB nmkb bwlorii denflbuf biwtor triangphrlbu dlfrt et 3* JKetMty-CBlyds itpMll ~~dentibus non albo-marginatis, pènt-~~

nim laminâ ampliata, semtaibus tenuiter rugulosta, capsulâ Crustaceâ durâ distinctae. 5. *teyseroides* tandem differt pedicellis abbreviate, calycia albidis coloribus dentibus subulatis immarginaus.

SILENE CASSIA BOISS.

S. annua vel biennis viridis brevissimè scabrida, caule elato a basi oppositè ramosissimo ramis sinctis nodulis elongatis dichotomè ramotus viscidulis paniculam diffusam formantibus, foliis angustè linearis-complexicalis acutis apice saepe subrecurvis supremis bracteisformibus setaceis brevissimis, omnibus ad dichotomias supremas et ramulos terminates pedicello filiformi semper recto calyce 2-3 pl6 longiori suffultus, calyce florifero elongato cylindrico-davato breviter et sparsim scabundo 10 costato dentibus ex basi laeolatè subulatis margine membranaceis, petalorum laminâ lineari-cuneatâ breviter exsertâ ultra medium in 5 lobos lineares bipartite, coronâ minutissima in 5 lacinas ovaus partitâ, capsulâ oblongâ elongatâ calycem aequantem crustaceam durâ flavidâ minutè punctulata carpophoro est paulo brevior suffult., semilibus reniformis-compressis rugulosis dorso canaliculatis.

Dabit in sylvaticis jugi *Cassia* ubi exemplana pauca JUD. 4846 legitur.

Caules 4-5 pedalis, folia 8-12 lin. longa hincam vel sesquilineam lata, calyx florifer et capsula cum carpophoro 6 lin. longi. Habitat 5. *Canensis* qua; differt caule minus ramoso, calycibus glabris, lamina petalorum ampla et *S. nigtittia* cisdem notia dentibusque calycibus obtusis diversae; A. S. *Kotschy* differt calycibus fere duplo longioribus, caule elato oppositè paniculato-ramoso, capsula oblongo-cylindrica.

SILENE ECHINOSPEAVA Boiss. et Heldr

S. annua vel biennis viridis inferius brevissimè scabruscula superius viscida, caule elato tereti a basi oppositè et laxè ramoso, ramis elongatis dichotomè ramulosis paniculam laxifloram formantibus, nodulis albidis tumidis, foliis in fenoibus angustè lanceolatis-linearibus obtusis vel aculeis caeteris lineari-subulatis acutis summis tantum bracteisforraibus, floribus ad dichotomias supremas et ramulos terminates sub pedicello calyce longiori fructifero erecto suffultis, calyce glabro elongato flavato lofero angustissimè membranaceo-hyalino albido coloris vel Heels nigris rubellave percurao dentibus late et breviter triangulatis acutis, laminis petalorum amplis longe exsertis conatis.

albis subtds pallidè rubello-pletis ad medium usquè divaricatlm bllobte lobis linearibus obtusis, coronâ ad basin usquè fimbnaio-multifldâflnir brils longis sêlaceis asperulis, capsulâ oblongâ Crustaceâ exlmiè punctulatâ carpoboro squilopgo suffultâ, seminibus reniformibus eximie et crebrè echinatis.

Hab. Ip colbbus propè *Athenas* (Spruner), ID fauce *Paron Taygett* suprâ *Mtstra el* circâ *Androuvista Messenis* (Heldr.)

S. Tigtdula pi. Tayg. Heldr. exs. non Sibtb.

Sesquipedalls, folia 4-41/8 pollicaria 1-2 lln. laia, calyx cum petalls 40-11 lin. longus. A. *S. ngtdtUA* quâcum ohm coDfunderamuB florum colore, semioibus echinatis âte. dlstlnclissima. Habitu et petaloram colore magls afflnls *S. picta* Pere. DC. — S junecc Fl. Grac. quam in Syriâ prope *Beyrou* tegl et quae differt follis obovatis, caule f nferne sulcato, floribus supra bracteulaa supremos brevissimè pedlcellatls, petalis minus amplls intensius purpureo-lneatis, coronae lobfs trideotlculatls, seoinlbng rugulosis.

SIIJENE L8I0STTLA BoiSS.

S. ànnua tola densè griseo-tomentella vlscida caulibas pluribus pumillsⁿdecumbenbbus ascendentibusve basi pared et alternè ramosls sesslils Unearibus subflacddis acutlusculis obsoletè uoloervlls superioribus senslm angaataUs abbreviatlsque, floribus seeds ramos terminalis paucis laxis senundls pedunculo tenui sub anthesi erecto-patulo cUycem subsquanti suffultls, calyce per anthesiu exactè cylindnco angusto basi abruptè truncate breviter birtò vlscido membranacco 10 strlls vindlbus percurso in *b* denies ovatos obtusos latè albo-membranaceos flsso, laminâ petaloram roseâ cuneatfl ad tertlam partem divaricatlm bllobâ patnlâ In unguem Incluaum BubUi contractâ, corona promlnula bUobae lobis ovails obtusis, slylis longè exsertiB ciliatlsque, peduncnlls defloratis patolis vel deflexls calyci erecto Inflato oblongo ~~subseq~~ ailongis, capsulâ calyce indusâ crustaceo-tenerâ nltida fiayâ ~~colica~~ aplice.attenatâ denUbus aurantiacis mucronatls carpoboro aaullopp Buifultâ, semlnibus renlformibns doreo convexlB vlx compressis Boblente tenulssimè tuberculatls.

Hab. In arenosl calidis marltimis et montanls Lusltanla et ffispaniip mstrailB (Boiss., Webb., Guthnlck) et ad *Tingidem* Salzm.

S. viUapa Bolss. Voy. Hisp. et auct. Hlsp. Don Forsk.

HaDC spedem *S. vOhsA for&S. Gmopufl* Del. eamdem ease ~~cre~~

dididonee exemplaria numerosa Ujus in arenosis JEgypti et Arabes n-
tres lecta eam a plantâ Hispamcâ diversissimam esse docuent. S. vt/
foaest breviiis hirsuta mmôsque viscida, habet folia laliora oblongo-
lanceolata, (lores in dicbotomiis inferioribus silos quod in noslrâ
specie nunquam occurrunt, pedicellos crassiores, calycem eam sub an-
thesi clavatum acutiusculè dentatum, unguis longè exsertos, stylos
brevissimè papdulos, pedicellos fracttferos erecto-patulos, capsulam
non erectam, semina dimidi6 minora reniformi-compressa dorso con-
caviuscula tenuissimè rugulosa.

SILKU PAUBSTINA Bolss.

S. annua tota longè hispido-viscida flavescens, caule crassiusculo a
basi plures dicbotomè ramoso ramis rectis Btrctis In racemos longis-
simos abeuntibus, foliis oblongo-linearibus radicaibus obtusis baal
breviter attenuatis csetens acutiusculis, floribus In racemosa laxos uni-
laterales dispositus pedicello erecto calyce triplb brenori suffitahB, brac-
teolis binis alteris setacea minima allerâ lineari pedicellum superanti,
calyce cyhndrico-subdavato albo-membranaceo 40 lnela rubri^ per-
cureo patule birauto glanduloso dentibus rubellis glandulosissimis
oblongis obtusis, unguibus petalorum albis angustis, limbo amplo b>
tense purpureo fere ad basin usque in S lacinias obcordatas Alvso,
corona albidse bipartite lobis brevibus truncato-tridentatis, pedic-
cellis fructiferis erecto-patulis, capsula erecta calyd aequilonga etnque
dUtendentl Crustacea dura puncticulata oblongo-cylindrica aploe stint-
contracta carpophoro est fere triplo breviorl suffulta, seminibus ml-
nimis reniformibus bBvlusculfa dorso canaliculatis utraque bete exca-
vatla.

Hab. propè Gam Palastins nbi specimen unicum Apr. ineunte leg).

Planla pedalis, folia inferiora poll, longa 3-4 lin. lata, racend fruc-
tiferl 9-40 pollic., calyx florifer 6 lin. longus, lamina petalorum ampla
patula calycem dimittum equans, capsula cum carpophoro 6 lin.
tonga. Puksbra distinctaque stlrps propè S. penduhm vel S. hirsutam
Lag. collocanda.

S. *dichotoma* pi. Heldr. Pisidles exs. propè BouWour lecta et e
Onta ad *Gerakari* distributa eat S. *SMhorjnana* Gris. — S. *dichoto-*
ma Fl. Grsca a plantâ Ebrñarti Details ecoronatis et capsula ovata nee
oblongft diBtineta. — S. *dtoarieata* Fl. Grsc. affinis quoque ab ufrtr
que tanen petalorum laminâ coronatâ elongatâ capsulaque. onta d|a-

tincU vldetinvhuc referenda rant apecimina sub nomine *S. dichotomica*. Pnard ex *CariA*, a me ipso e *Smyrna*, a d. Heldrelch e *PampkyltA* ad 11 *Mela** distributa.

SILBNB HBLDUICBII BOISS.

S. annua tota piln paplllaribus elongatia crlspla birtala griseo-virans, cauiboB plunbns aHcendentlnis rnbria vel infernè panè ramoss In racemmm longum unilateralem abeuntibna, foila radfaadlbua oblongia vel oblongo-spatbulatis obtusis in petiolum longè attenuate caullnu sessillbns acutluaculis mucronnlatis, floribug Besslibaa basl 3 bracteis oblongis vel angustt linearibna acutis squallbna calycem dtindlum aequantibua vel auperantibua basi suffbltis, calyce cylindrico iml basl subanguslato 40 nervia elevaua vndllbna percurao Inter eos albohiallno pUia papUbribus crtspulu densè bispido dentlbua lanceolatis acotis angustè albo-marginaua, petalorum concoloram lamlna cuneatia ad tertiam partem blfldia, corons brevb blobae lobla intcgris ovario cylindrico sbpate ei subaquilongo anflulto, capraU.

Vij. x. Bractes linearea, petah alba.

Vij*. a. Bractea oblongs as florum inferioram calyceem squantes, petaloroaea.

Bap. nr. x. in aazoala aprlda propè *Atayo* Pampbylle, w. a. In Golle *Vourmalu* non procul ab *AdaltA*.

Hac apecjea qo» In eoll. Heldr. Analoucia cum *S. sibtkorpiana* (arise!), a quo infloreaentia non dfchotomà abborret per errorem dlatributa luit, afflnis eat *S. imbriatm* Deaf, et *S. dueolori* Fl. Grac. gov eadem ac *S. setacea* Otth esse videtur. *S. tmbnoata* ab eà dlffert florbua pedlcellada, calyce brevisslmè aspero, *S. dticolor* ex icone et deacrptione dlatnguitur petalla dlacolonbna ad basin uaquè bipartltis, corona lobto blfldia, fbllla carnqaulia, bracteia lneequaUbas.

SILBNB PAMFHYUCA. Boisfl. et Heldr. (Sect. *Conomorpha*.)

B. annua breTlaalmè pubeacena aubviaclda, canllbua baal atrtato-anlcatia eredla simpHdibus apice breriter dichotomlfl 3-5 Boris, foHis laneoosito-lneanbuB anlmenila Inferioribua basi anguatatla, pedunculla erectla calycem sqoantibaa ant eo paulò longlorlbua, calyce brevitarpapldari-glandulOBO florifero cylindrico fructifero campanulato ad medium uaquè In dentea e basi trtangulari-anbiUatoa flaaO 60-60 nervia denala adpreaats parallelis pereurao, petalorum lamlna pnrpurela cu-

neato-obcordatis patulis calyci dimidio subsquallongis, corona truncata retusâ, capsulâ brevisumè et crassè stipilati ovaia denUboa calyciniB brevion, Bemidibus remformi-corapressSs dorao canaliculatig tuberculatis.

5. *maorodonta* pi Heldr. Anal. exs. non Boisa. Diagn.

Uab In campis andis Pamphyliâ? propè *Adaixa* (Heldreich).

Habilu et calyce multistrato valde affinis *S. maorodonta* ab eo tauten dlstoeta Milelur pelalorum laminâ ainplft obcordaU nee minimâ retosâ vk cisertâ, capsulâ ovatâ nee oblongâ, calyce fructifero campanulato necsupernè constneto — *S. macrodonta* Boiss. Diagn, ut Bynonymon adjungenda *S granmatocalyx* Fend. In Kotschy pi. Kurd.

SILBNB AMMOPULA Bolsa. et Heldr, In pi. Cret. exs. 1847

S anniunana multicauUs tota brerlBsmè cinerea tomentetla, cauHbuB tenuibus prostratis aacendentibuBve Infernè dlcbotomè et parcè ramosls ad nodos approximatos basl sspè geniculatls, foliifl oblongoBpatbulatls obtusis radicalibus in petiolum eh longiorem attenoatis csterls sesaflibus summis oblongo-linearibua acutiuscalls, florlbua ad ailUaa superiores pedicello erecto-patalo eta equllongo capsulftAiplfe longlori BuftulitB parviB, calyce breviMlmè et densè birto-via/idolo florifero angustè cyllndrlco fructifero ovato-campannlato virtdj subSODervl dentibus (riangulari-lanceolatis acutis, petalis mlnlmis breTTIBlmè exsertis, capsul& breviter ovatâ dentibus catyctale paulo breiioiti tenert vix conacea, aemlnibus renlfonoibus compre&sis letralfirme ruguloBla dorsoconcarlusculis.

Bab. in arenosU marltlmB ad *Pualimmata* provincial *SUTA* et tai InuU *Gaidouroniti* propè *Girapetra* In *OrelA*.

pianta 1-3 poUicarls, calyces floriferl 1 *Kfl* Un. longl lines 3/4 btf, capsula % Un. longa. Ob calyces per anthesin angoafe cylindricos Sect *Conomorpha* accedens sed nervatione calycisab est dlscedens et mellos propè 5. *galheam* et *braehypetalam* collocanda.

Loco *S. papdlosa* Boiss. Diagn. I p. 39 ponè 5. *crastipes* Fend. Pugill. nomen antiquius.

SUenes perennu.

Stum *skMtakjk* Boiss. et Heldr. in pi. Cret. exs. 4847. (Sect. *B\$hm.*)

S. perennis glaberrima, rhinmate elongate subterraneo repent! ra-

moBo caudteuloB leaues albdos nudos inter lapides serpentes apice
breriter et BubroBulattm folloBos scaplferos edentl, SUTCUUB sterillbuB
nulllB, rottis glauco-caslls carnosis plants orbicularlbiiB owtis rarlas
obloogia ID petiolos brevisslmos bas) connatos pitas mints abraple
ctfneato-attenuatis seepè basi rotundatls obtualaalmlB acutlunmlsive
margins cartilagneo angaato remotè dentlculato-scabrido donatls,
seapla e folils brevtessimè exBertls infernè folia minuta oblonga blna
edentibus apice dlcbolomè 3-7 florta, bracteis mlontissimls HnearlbuB
acutls cUiatuhs, pedlcellfl calyce brevlonbus, calyce florlfero oblongo-
cylndrloo caBslo albo purpureoque varlegato lOnervi nervis apice vli
ramulosls DOD anastomooatibus dentibus ovato-trlangularibus acutls
apice cDtatulls, calyce fructlfero ovalo capsnià dlatenso, pelalorum un-
gue albdlo a basi senslm dlatato cuoeato in laminam griseam vlolaceo-
pctam eo aDgustiozem in 1 lacinias breviter oblongo-Hnearea blpartl-
tam contracto, corona alba bipartite bcimis ovatu subtruncatiB, Bte-
ndnibus vlolaceis Btybsque dlfatullB longe exsertls, capBuU ovaia
ealyctm squantl carpoboro crasso brevissuno suffulta, BembrlnB re-
nifbrnlbus comprcBsis fade concaviusculis convexls tenulter rugulosls.

Bon. Inter lapides monttum altiorum *Ortfa*, monte *Ida* (Tournef.)
moDtlLuB *LaMsiti* (Sieber), montibuB *Sphaotofuns* ad *HellmthSeh* suprâ
Omalo et monte *Stravopodia* alt. 6000-7000' (Heldrelgi).

Lypnis Oretta montit *Ida faho tubrotundo cento* Tourn. Cor. —r
Lyohnu vanegata Desf. Cor. tab. 56. — *Cucubatus oyoiaminei*M Sleb.
Beis. II tab. 41.

Species ab affloibua dlstinclissima calyce capsulâ dislento 40 nee
SO nervi nervis Don anastomooanlibus etc. *S. cccsia* Fl. Gneca tab.
417 loDgè dlffert caullbus elongato-follosls, foliis minorfbuB, flonbus
miqorlbuB, calydbua floriferls ovatla inflalls, petalu flavidls.

SILKMK PHYBALODBS BolfIS. (Sect. *Befall*).

S. perennh minutissimè crbipulo-tomentella, cauUbns crassls her-
hsceis Intôs inanibus ramosis teneris procerts, foliis amplls tenerta
qulnqueoerviis ovatis attenuato-acuminatis tfertoplbuA in petiolum
longum breviter attenuatis, caulinlB sessilibus basi cuneatâ vel tron-
calâ brevtesbnè connatiB, ramls Bupernè dichotomis, floribus ad dlcho-
tomlas sltis et racemos breves terinlnales bracteatOB formantibus,
bractelB Inferloribus magnis cordalo-acuminatlBBuponoribuBoblonglB
vel obJongo-Hoearibas pedlceUos Butaqiuntlbiis, pedieellls tenolbus

pnnum brevissunis dem refractis cum calyce elongatis eis dichotomiarum pnesertlm longissimis, calyce tenutter raembranaceo-virescenti anhesi lneunte angnstfe cyllndnco dein dtō aucto fructifero mflatisslmoplicatooblongo supernè subangustato dentibus trlangulanlanceolatis obtusiuscuhs ciliabs nervis 40 inter se per totam longitudinem reliculallm anastomosanbbus, pelaloram ungue glabro apice dilatato dein subcontract in laminam flavescentem brevisunam brevissimè exsertam lmearem bipartitam lacinnis Hnearibus ID 2-3flmbrias setaceas flssis, coronā In lacinulas setaceas muluparhtā, capsulā ovatā lenerè cruslacefl carpoboro eā vix breviori euffultā caljcem dlmidium vix xquantl, semimbus magnis remformibus subcompressiB dorao convexis eximiè seeds lmeaB periphericas tuberculatis.

Hab. in dumosis *Palastma* borealls circā *Banxas*, legi flor. Halo ineunte

Planta plurcs pedea alta teoera Inter frutices subscandens, foUa mfenora 4-5 poll longa 3 lata, superiors sensim mmora, calyx flonfer 6 IID longus 4 1/4 latus, frucUfer refractus pollicem lingua 7-8 lln. latus, semen ferè lineas 4 4/4 diamelro latum. Pulcbra species |£0nls *S fimbriateE* et *S. lacera* qua; differunt caulibus tenulonbus durliqfibi, pedicellis fhictlferiB erectis, calyce fructifero breviter ovato, petaloram lamina ovatā oalmatlm flmbriala, capsulā brevissime stipitata, semibus dimidio rainoribus etc

SILENB MAGBOCLADA BoiSS (Sect *Ostias*)

S. perenms vel biennisP dioica, caule elato tereli Infernè brevissimè tomeotello supernè viscoalsslmo oppositè ramoso, ramls viscidls gracilibus virgatis elongabs pamcnlam pyramidatam longisBlmam nudam fonnantibus, foliis tomentello-gnseis obovatls obtusis vel acutluscaUs margine eiimiè undulato-crispis radlcalibuB in petlolum longumatlenualis, flonbus seeds ramos in fasciculos remotos basi bractels minutissinns ovatls latè albo-inembranacels cillatis stlpalos sabverticillatis inffiquallter pedicellatu, pedicellis setaceis glabris, floribus nrinutls, calyce breviter obcomco vindi glabro estriato denUbus brevUms ovatis obtusis albo-margioatis cillatulis, petalis flavidu angustè linoaribus crassiusculis breviter exsertis antbesi peractA apice cirdonatls genitalibus longè exsertis petala multò raperantibus, stylis flbiormibus recurvatis latcre conveyo ciliatulis, capsulā ovalo-oblonga apice atte-

rniato calycem eicidenti omnin6 sesBili, seminttnu remformibiiB compressis rmgulosis dorso canallculatis.

Hab. in parte inferior! *Tmoli* supra *Philadelphiom* ubi froctif. obaerravi; Indè semma relull et plantain vivam educavi.

Caulls 3-s pedalis, folia fnferiora 4-4 4;2 poll, longa 8-40 lin. lata petlolo 9-3_kpollieari suffulta, pamculae rami simpUclBsbnl inferiores pedaleslongioresque.flores magnlludlnis *S. ottts*, *\$ffusa* et *eaaltata* Frlwalsky ab eis et afflmbus distinctlBBlma pamculâ amphsBlmâ, folls undulato-crispis, petalis crassls linearibus, sfcylls longisslnils, capsulâ omniD& sesslJi major! dura 3 *Hft* lin. longâ. *S. densiflora* d'Urv. que quoque caole elalo foliis magnis gaudet, differt follis non undulatis, florum vertlcillls approximatis, petalis filamenta sequantibua, capsulâ minor!.

S. fconia BOIBS. et Heldr pi. Anal. exs. est eadem ac *S. lostopetefa* Fend. Pugdl., pulchra species 5. /on^atofaafflnlB.

SILBNB SPBHQDLIFOUA 11B

Gun sub hoc nomine plores species infrâ describende in pi. Anatol. Heldr. et Pin. distribute fuerInt, diagnosln *S. tperguhfotta* vera prltn dare utile duxi

S. folls lineari-subulatis plûs minûs racnrvis rigidnlis Gudcalads, floribuB plus mlnusve ad apicem ramulorum oppositorum confertis racemos Interruptos capitatosque formanbbuB, calycibus albo-membranaceis sulcatis oblongis, capsulâ conico-attennatâ carpophoro triplb breriori.

Hab. In reglonibus *Cawasicis* ubi vulgaris, in *Perna* froraaJil et *Armenia* (Aucher), *SynA boreal** ad *Antab* (Aucher), AnUllbano ad *Rascheya* (BOIBS.) et montibus *Kurdxstantw* (Kotschy N° 391) (forma elatior calydbiu maglB tomentOBis)

~~SILBNB~~ PBDINOBA Boiss Diago. 1 p. S3 — Iiujus diagnosis BIC emendanda.

S. pereonis miffruUcosa multicaolis tota paptllu minutladmls retror-SIB prulnoflo-tomentella grisea, caulibus ascendentibus ramosis, follii Imceolato-Unearibus acutis supernè latloribus Inferaè longè attenuatis, rtmlB oppositis strictis brevibus aplice dlcbotomè 3-7floris rarlôB abortu onifloris paniculam brevem racemoam formantibus, calyce membranaceo-albido nlgricanti vel rupello plûs mlnbs dlstinctè llneato florfifero cylndrlco fructifero clavato glanduloso-hirto raerobranaceo

rubro vel viridi-striato dentibus ovatis obtusis latè albo-membranaceis ciliatis, ungue linearis-cuneato glabro, laminae ungue longiori cuneata patula ad 2/3 bipartita lobis divergentibus linearibus, corona oblonga bipartita: lobis ovatis, capsula parva sub lente asperulo-punctata subglobosa in mucronem eas asquilonum acutum confuso-attenuata bipartita esse (absque mucrone) axiilongo suffulta, seminibus minimis reniformi-compressis dorso convexis sensim rugoso-tuberculatis.

Hab. in Cana (Pinarum sub. *S. spargulifolia*), collibus prope *Geyra* Carte (Boiss.), collibus topographicis prope *Bouldour Pindus*. (Heldr. pi. exs. sub *S. asperulifolia*)

Caules ascendentes vel prostrati 4-6 pollic., calyx florum 1-2 lin. longus, capsula diametro vix lineam ultra latior mucrone plus minusve attenuato carpophoroque 4 1/4 lin. longis. Ab affini *S. spargulifolia* distinctissima racemis minus laxis, laminae petalorum longis, capsulae et seminura forma

SILENE CAPPADOCICA Boiss, et Heldr

S. basi suffrutescens multicaulis, caulis sub lente pruinosi, caulibus cortice albicante vestitis ad nodos inflatis ascendentibus, ramis simplicibus vel parce ramosis aliis floriferis aliis sterilibus elongatis foliosis ramosis erectis, foliis viridibus scabridis lanceolatis linearibus acutis inferius longe attenuatis axillis, fasciculis foliorum anguste linearibus, floribus in fasciculos oppositos confertifloros breviter pedunculatos racemos interrupte verticillatos formantes dispositis, calyce florifero oblongo fructifero oblongo-davato albo-membranaceo plicatulo subnervi parvisaltem ad costas sub lente scabrido ceterum glabro dentibus brevibus ovato-rotundis late pellucido-marginatis-ciliatis, petalorum ungue glabro in laminam eo breviorum flavescens ad 2/3 bipartitam dilatata laciniis divergentibus anguste linearibus, corona minimis bipartite lobis ovalis, capsula minuta calyce longior oblonga apice conico-attenuata carpophoro cetero ea quintuplo breviori suffulta, seminibus curvato-subreniformibus compressis oculis dorso convexa ruguloso-tuberculatis.

S. spargulifolia var. *macrorrhiza* pi. Heldr. Anat. exs. 4840.

Hab. in Cappadocia Aucher N° 465, vlnis arenosis *Lycaonu** prope *Konieh* (Heldreich).

Pedalis vel sesquipedalis, folia majora pollicem longa superne 4 1/2-5 lin. lata, calyx 3 lin. longus fructifer dilatatus abbreviatus.

capsulâ distensus lateraliterque ruptus, capsula cum carpophore 4;2 lin. tonga. A *S. spergulifolia* quâcum confiiBlmus egregiè differt folia non rigidis, floribus multo minoribus, caulis enim brevissimè dentatis præter angulos Bcabndulos glabris, capsulaB et seminum magnitudinè et formâ. *S. L%btriea* habitu et calyce albo-membranaceo flimillima distinguitur foliis longioribus latioribusque, calycis dentibus acutiusculis, petalis indivisis Hnearibus vix apicereturBto, genitalibus lodgè exsertis, carpophoros elongate

SILBNB PBSTALOZZX BoISS

S. bad Buffirutescens multicaulis tota brevissimè papilloso brtula grisea, caulibus ascendentibus a basi ramniosis albidis ad nodos inflatis, foliis lanceolato-linearibus acutis Inferoè attenuatis aiillis Inferioribus folia fasciculata angustissima edentibus, floribus in fasciculos oppositos covfertifloroB ranotos tafenores pedunculatos superiores Bubsessiles racemos interrupte verticillatos formantes dispositis minimis, calyce florifero conico-cylindrico fructifero ovato albo-meo)raoaceo 40 costato-pllicato ad costas vireoteB aculeolato caterdm glabrè dentibus ovato-rotundis late albo-margiatis dliatulis, UDgue peUtqrom in lamiDam aDgustiBumam llineari-cuDeatam flavidam apice emirgloatam abennti, gentatabuB longlusenlè exsertis, capsula calyce paulo longiori ovata subBemlli acatOBcula, BeminJbiu.

flab, prop* *Elmalu Lyeut* undè mibl comm. amlcisBs. Peslalozza.

5. *Cappa&ocwx* pluribus notis valdè affinis ab eâ tamen specificè differre videtur floribus Baltem dlmlldb minionibus, calyce vix a lin. longo eridenter costato costu muricnatis, laminâ angustitaimâ aptoe tantom emarginatâ, capsulâ minori apice vix atteouaU.

SIUHB AuaiuiiAHA BOIBB. Diagn. I p. 17

Ad hanc speciem inusualè specimina Auchenaosa (collect. N° 459 bis et ter) retuli qua ad *S. argutam* Fend spectant; quâ cauâ dugnOiiB ale nratanda.

8. bail suffrutescens multicaulis, brevissimè aspenilo-lomentella grlaea, caulibus elatis gracilibus Bupernè dichotoniB ramosU, foliis lanceolatis acutis unmerviis basi attenuatis, floribus dlcbotomiarum loogè catenâ breviter pedunculata, calyce florifero cylindrico-Biibclavato fructifero clavato tomentello rubeflo Bubenervi dentibus oblongo ob-

tusis albo-marginalis ciliatulis, pelalis e sicco albu vet flavidis ungue a basi angustioribus linearibus apice contractis, laminâ longiusculâ cuneatâ ad 3/4 in laciniâ hinc bipartite, corona bipartite lobis oblongo-linearibus integris, capsulâ oblongâ carpophore sublongioris calycem sequenti, seminibus...

Hab. in monte *Daimkou Persia borealis* Aucher N° 4408, in monte *Elbrus* prope *Derbend* et *Passgalo* Kotschy N° 507 et 973.

S. arguta ab hac specie differt foliis nervosis plunnervis calyceque argute costato, appendicibus corolla truncatis, carpophoro brenori. *S. Montbrettaef* affinis quoque calyce breviori obconico obovato dentibus acutis tamen differit.

Specimina e. coll. Kotschy Pers. bor N° 508 et 489 sub *S. mocolymna* non ad hanc speciem sed ad *S. alboentem* Boiss. spectant.

SILBNE GBISKA BOISS

S. perennis caespitosa, rhizomate crasso, foliis dense tomentello-gracilibus oblongo-spathulatis obtusis acutiusculisve in petiolum attenuatis radicalibus numerosis congestis caulibus paucis superioribus brevibus linearibus, caulibus tenuibus simplicissimis ad nodos subaequalibus supernè viscidis 5-6 floris rariis umbriferis, floribus breviter pedicellatis remotiusculè oppositis solitariisve terminalibus ternis, calyce florifero oblongo-davato viridi hirtulo obsolete nullo vel nigricantilineato dentibus triangularibus acutiusculis late albo-marginatis, petalis angustè linearibus uoque glabro in lamina flavido-virenti ad 3;4 in laciniâ lineares bipartitam subdivisatas, coronâ minimâ bipartitam, capsulâ pedunculo incurvato suffultâ cernuâ oblongâ calycem distendentem eoque paulo longiori carpophoro crasso eâ triplo brenori suffultâ, seminibus numerosis reniformi-compressis tenuissimè Bubrugulosis dorso subcanaliculatis.

Bab. ad raper calcareas *Lnbani* supra *Edvn*, in montibus prope *Elmalu* *Lyaa* ex herb. Pestalozza.

Folia caespitosa cum petiolo pollicana ferè 3 lineas lata, caules pedales tenues, calyx ferè 5 lineas longus herbaceo-subcoriaceus, capsula firmis, longa crassiuscula. Habitu valde affinis *S. leucophylla* Bolss. quae diuturniusculis calycis obtusioribus, capsulâ carpophoro aequilongâ. Forma uniflora refert quoque *S. flavescens* W.K. qua autem caulibus filiformibus, calycis subhyalini dentibus subulatis longe differt,

SILBNN LIBANOTICA BOISS

S. perennis glauco-virens caudicibus repentibus induratis cylindricis caulea lenues subsulcatos erectos simpliciter vel parvis et oppositis ramis glabris superius viscidulos edentibus, foliis subcoriaceis glabris inferioribus oblongo-spatulatis obtusis in petiolum brevem basi ciliatum angustatis caulibus paucis oblongo-linearibus acutis basi connatis, floribus 3-5-7 natis ad apicem ramulorum solitariis et in apice caulium pedicello recto calycem exsertis vel eo paulo longioribus suffultis, calyce glaberrimo oblongo coriaceo-membranaceo albido subnervatis denatis tinnungulanibus albo-marginatis breviter acuminate, peltatis linearibus cuneatis flavo-virentibus subconnatis laminis cuneatis in lobos lineari-oblongos ad medium usque bipartite, corolla ad antheras reducenda, genitibus longifloris exsertis, capsula oblonga carpophoro styliformi suffulta.

Hab. in altionibus *Libano* supra *Cedros* Legi Jul. 1816

Planta perennis pedalis, folia radicalia cum petiolo pedicellata 4 lin. ferè iata natura corum *S. feniota*, calyx 6 lin. longus. Affinis *S. pedunculata* Boiss qua differt foliis longis lato-linearibus, floribus longis pedunculatis, calyce paulo longioribus minime conico et *S. Armenis* et *S. radiceosce* qua? distinguitur quoque forma foliorum aliisque notis. Accedit quoque ad *S. Nevadaensis*

SILBNN HAKHELIANA BOISS.

S. perennia glabra glauco-virens, caudicibus prostratis suffruticulis. Burculis edentibus foliosos caulesque ascendentes elongatos tenues teretes inferius foliosos superius subviscidos 3-5-floros edentibus, foliis tenuibus oblongo-lanceolatis vel lanceolato-linearibus uninerviatis acutissimis basi longè angustatis margine et subtus ad nervos serrulato-scaridis superioribus angustissime lineariibus, floribus pedicellatis calyce pluribus longioribus recto suffultis magnis, calyce davato basi longè attenuate coriaceo albido glabro tenuissime 10 nervis demibus ovato-trilobatis acutiusculis inferius latè albo-membranaceis ciliatis, Details e sicco flavo-virentibus laminis cuneatis obovato-bilobatis, capsula oblonga calycem distendenti carpophoro equilongo suffulta, Benuntis raagnis renifloris corapressis eximie rugulos» dorso canaliata.

Hab. in *Libano* ad radices cacuminis *Makml*, hoc quoque spectant

specimina e monte *Kvh Dattna* Persia? australla N» 686 sub *S. Schimperum* *9. laUfolia* Fenzl.

Folia majora vix pollicem longa supernè a lin lata, caules i-1 4 jS pedales, calyx florifer pollicans, semen lineam et amplius longum. Habitus praecedentis sed folia nullè angustiora, calyces duplè longiores. Inter orones magis affinis *S. Sohtmpertana* Boiss. qua? differt caule crasso ad nodos inflato a basi dwancaUm ramoso, foliis longioribus rigidis, denibus calycis aculioribus, flonbus suprâ bracteolas brevissimè pediunculatis. *S. luplevrouks* differt foliis elongatis bracteisque longe acumiuatis, floribus breviiè peduDCulatis etc

SILENB GARJUANICA. BOISS. et Ueldr.

S. perennis basi suffrutescens laudibus caspitosis surculOB Bterdes breves caulesque numerosos glabros rectos foliosos ad nodos subincrassatos simplices vel parè et alternè ramulosos edentibus, (ollis iunonibus angustis; lanceolato-hneanbus longis acutis Infernè longè angustatis, cauhs hneanbus, suprcmis aDguslè lioeanbus abbreviatis omnibus carnosus glauco-virentibus sub lente papillan-scabrⁱ, flonbus magis ad apicem ramorum et cauhs solilanis loogè pe^unculatis, calyce florifero obconico-cyhdrico fructifero clavato basi loogè attenuato conacissiuo subnervi albido-rubello glaberrimo punctis elevatis saepè exasperate dentibus lanceolatis rigidis subpungeotibus tandem pateatibus, petali lineari-cuneati lamina coriacea ad tertiam partem bifidè lobis oblongis, coroua in a laciniis triangulares acutissimas bipartita, capsula oblonga calycem subsquantè carpopboro cnuusculo suffultè, semibus remiformi-compressis rugulosis dorso canaliculatis.

S. buplevT *Otodes* pi Heldr. Anat. exs. 4846. non L.

Hab. in vineis propè *Bounarpatcht* inter *Karaman* et *Ermentk* Isaurix (Heldreich)

Gaules pedales, folia longiora 3 poll, longaaplice %-l k\% lln. lab, calyx circ. pollicaris. A. *S. Makmelvma* differt foliis elongatis crassiusculis aspens denibusque calycis acutissimis, a *S. tap/wrotdi* cui magis affinis caulibus nmplicioribus nunquara paniculatis, foliis asperis magis carnosis supenonbus non longè acuminatis, denibus calycis rlgldionbus mints longè et teouiter acuminatis.

SILENB LYCIA B JSS.

S. perennis virens minutissimè glanduloso-lomentella, caudibus

tenulbus luffrutescentibus prostratis surculos steriles breves caulesque simpliciter vel ramulis binis oppositis auctos apice trichotome trifloros rands umOros edenlibus, foliis linearibus acutis rigidis anbtis elevatim tncrnis venuloBisque In petiolnm attenuaUs, caulmis paucis linearibus subrecurvis, flonbus pedunculo calyce 3-4 pl6 breviori suffullis, calyce flonfero longè cylindrico infernè subatleniato fructifero davato tenerè membranaceo rubello-lineato pilcatulo glanduloso-birtuto dentibus oblongis obtusis albo-marginatis, petalorum laminà ounealo-bipartitâ, coronâ ., capsulâ ovatâ apice attenuatâ carpophoro xquillongo suffultâ, semimbus..

Hab. in monte *Akdagh Lycux* ubi legit amic. D^r Pestalozza qui mihi benevolè communicant.

Caules 7-9 pollicares, folia cum petiolo ferè pollicaria sesquilineam lata, calyx florifer ferè pollicaris. A. S. *hyplevroidi* et affinis pubescentiâ, calyce subplicato tenero nee coriaceo pubescenti-glanduloso facilè differt Hagis affinis S. Stefan Fend. — *S. anta* Sieber non Fl. Græca quas differt foliis inferioribus ovalo-spathulatis obtusis nee rigidis nee nervulosis, calyce glabro 40 lin. tantum longo etc.

SILBIE NODULOSA Boiss. var. *Schtraziana*. — Tota pilis brevissimis retrorsis tomentella densè multicaulis, caulibus pedibus erectis stratis denissimè confertis simplicibus vel basi ramosis angulatis foliosis, floribus terminalibus solitariis rarius binis brevissimè pedicellatis, calyce etiam flonfero clavato retroreum densè et breviter tomentello 9-40 lin. longo, capsula ovatâ carpophoro aequillongo suffultâ.

Hab. in rupestribus apricis ad monumentum *Nakschi Rustam* propè *Schirai* Kotschy pi. Pen. austr. N° 303.

A phntâ genuinâ Persia borealis cui foliis angustè lineari-sublanceolatis crassiusculis elongatis congruit discrepat caule va ramoso, calyce breviori retrorsim tomentello subnervi, carpophoro breviori, et Intenedlam formam præbent specimina in Kotschy pi. Pen austr. N° 633 e monte *Kuh Davna*, uniflora quoque sed calydbus longioribus Unealls. *nodulosa* vera donate.

SILM PABMASSICA BOISS. et Spruner.

S. pflrennis vltimis lente scabrila caspitosa tenera caudiculis filiformibus fragillirals caules pumilos ascendentes geniculatos filiformes infernè foliosis soperoè nudos uqifloroi «urculosque steriles edentibus*.

foliis angustis luteis acutis basi unguiculatis, calyce obconico (labro membranaceo crassiusculo nervi virescenti vel violaceo dentibus triangularibus acutiusculis albo-marginatis, petalis e sicco albis inaequalibus, lamina ad medium usque lobis oblongis, corona; minimis bipartitis lobis oblongis acutiusculis, capsula

Hab. In monte *Parnasso* (Spruner).

Valde affinis *S. petreae* a qua differt caule basi tantum nec tota longitudinaliter folioso versus *t* foliis brevissimis instructo, calyce nervi minus tenere membranaceo acutius dentato, petalis substantialibus crassius, lamina brevior et angustior. Forsan haec ut varietas vel saltem species affinis referenda est *Saponaria ocea* Fl. Grac. tab. 389 qua; tantum ex iconis foliis paulo latioribus et brevioribus a nostra planta differt et qua; cetera bistylis exhibita certe *Silemaria* adnumeranda. Numerus stylorum in hac sectione monstruose variare videtur et eonim ([tutor in *S. Parnassica* quoque saepe observari).

Sn PNK obBAitKs Btiiss rt Ueldr. III pi Anat exs 4846

S. dense pulvinata nigropilosa nana, caudiculis internodiis nudis apice dense et confertim foliosis, foliis angustis linearibus crassiusculis obtusis basi ad marginem retrorsum ciliatis ciliis capite glabris, caulibus unifloris unifloris brevibus 4-2 paria foliorum brevium fere in lobis superne puberulo-viscidis, calyce puberulo-glanduloso obconico anthesi peracta subclavato tenuiter membranaceo albo nigroque vittato dentibus oblongis nigricantibus obtusis late albo-marginatis, petalis e sicco albidis subtus rubellis cuneatis, ungue ciliato. In lamina ad medium usque bifida sensim dilatata, corona bipartite lobis oblongis obtusis, capsula ovata carpoporo ea paulo breviori suffulta, seminibus...

Hal). In fissuris rupium montis *Gheidagh Pamphylicae* supra *Alaya* et montis *Stavros Pisis* (Heldreich)

Folia 2-3 lin. longa 4-5 lin. lata in pulvinum congesta, scapula bipolliures, calyx vix 3 lin. longus. Species pulchella ex affinitate praecedentis et *S. petreae*, notabilis foliis crassiusculis obtusis glabris calyceque eximie nigro-vittato

VBXBZIA FASCICULATA Boiss

V. annua, caulibus paucis paulo supra basin dichotome ramosis, ~~superne~~ praesertim glanduloso-hirsutis, foliis angustis linearibus MI-

pernè attenuate auulia rigidulis subtās trinernis margine ciliahs basi inter ae connatis, flonbus sessilibus in fasciculos densos 5-9 floros ad ramorum apicetn congests, calyce viridl tenmter cylindrico valdè hirsuto-viscido tenmter 4Bnervi dentibus brevissunis hnean-subulatis Inaxpiabus, petalis angustissimè Jinearibus limbo brevmiroè exserto palhdè roseo indiviso vel obsolete retuso, capsulâ calyce paulò longiori, semimbus oblongis complanatis caualiculato-conca>ia radicalš abruptè terminalis.

Hab in montosis S)nx borealls inter fluvium fronton et urbem *Laodtoeam*. Legi Jon. 4346.

Specimina mea 4-6 poll, longa, calyceB eis *V ngtda* paulb breiores 6 lln longi aed Bubcrassiorcs Ab bāc specie egregiè differ! floribus Don secūs caulem axillanbus sed terminaUbus fasciculatis, petalorum minūs exscrlorum laming vix rehuat nee bifldā, capsulik apice ei sserta, semimbus acquilongis sed duplo latioribus.

3ORDANIA. Boiss etHeldr.

Het&roehroa sp. Jaub. et Sp. IUustr. pi. Or. I tab. 4 S et 43.

Calyx tubulosuB membranaceuB 6 nervius brevissimè et loaequaliter 6 dentatus. Pelala S cupuls membranacee hypogyne summo marghnicum slamlnlbus inserta boeari-cuneata ungue scnsim In laminam parvara dilatato. Flamonta filiformia alternatim inasqualia Ovanum breviter slipitalum umloculare panci-ovolaium ovulis campylotropis, placenta centrali abbreviate. Styli duoflifforraes papilloi. Gapsula minima subsppltata calyce multò brevior ab apice ad basin in 4 valvas dehiscens j-3 sperma. Semina reniformi-subcompressa sub lente minute tnberculata. Embryo penpbericus radiculâ mferā in roslellum produntfl. — Herbs perennes orientates folus subulato-setaceis stnelis basi connatis, flonbus parvis in cymas fasciculiformes densas bracteatas squarrosas terminates sessiles vel breviter pedunculatas faefflimè secedentes confertis, calyce 2 bractels setaceis basi connatis suffulto,, facie *Qtunam*, *Mmuartom* vel *Arenanam aggregation* referentes.

Genus cl Al. Jordan Lugdunensl plantarum Galbae indefesso strenuoque scrutator! dicatum, ab *HetwoehroA* (qux nobis *GypsophUa: taatum* secbo) calyce angustè tubuloso basi bracteato brevller et In-qualiter dentato, staminibus Inisquullonglfi et prsetereā habltu alienis-

simo omnind Alsineo diversum Omnia habet *Aconthophylh*, infloren-
cenbam, capitula braoteata facillimè dctidua, calyces bracteatos subln-
xqualiter dentatos, srminum formam et ab eo tautiim differt capsula
quadnvalvi nee transverse laceri

JORDANIA MINUABTIOIDES Boiss et Ueldr In pi. Analol. 1846

J caesptosa hispidula caulibus ascndentibus vel prostralis ramulo-
sis, folifs subulatis rigidulis, bracteis subulatis apice subrocurvis,
fasciculis plunflons densis, petalis linean-cmealis apicc retusls.

Heterockroa mnnartioxdes Jaub etSp , loc. cit lab. 12

Hab in Phrygiã propfe *Selenti* (Jaub.), in collibns andis propfc
Egirdtr Pisiduc (IlcJdr | propo *Elmalu* Incise (Pestalozza),

fi compacta Doiss. et Ueldr. lew. cit — Specici quod folia et floras
similia sed caulos subnulli, fasciculi florum c pulvino vix exserti.

Hab, in collibus andis inter *Beychehr* et *Kontah*. (Ieldr.)

JORDANIA SPEIUⁿULATOUA BOISS

J. Inspidula caudiculls fruliculis repcnlibus, ramis rectis brevious
fobosis apice Easciculos paucifloros subsohtanos ferenlibus, follla brac-
teisque filifornubus, pctalis hneart-cuncatis iotegns.

neterockroa spergulafolia J etSp. loc *til.* tab. 43

Hab in *PhrygiA* cum specie pracedenti. (Jaub.)

A specie prsedentli differre videtur caullbus frutksulosa niagls
f longatls, foliis longionbus, captulis pauciflora, pelalorum formâ.

BUPFOMA BB^Acurpnvr.LA Boiss. et Heldr. in pi. Gret. exa. 4846.

B. perennis glabra, caudiculis suffhitescentibus tenuibus proatntls
caules fliformcs ascendentes simphciusciilos adpressè folloaos edun-
tibus, folus minutls subulatis cauh adpressisslmls inlernodio brevio*
nbus basi connatis infernè subdilatatls membranaceo-marginatis dlia-
tulis dorso mfernc tnnervus, Qoribus ad axillas superiores sitls et
terminalibus 4-3 nis approxnatis pedicello brevisslmè blrtulo sxp6
ceniuo calycem squanti vel eo longion suffultls, sepahs angustè lan-
ceolatu adpresse et parallelè qmnqueoerviis acutU angustè albo-mar^
gfnatis virenti-canulescpntibiis, petalis albis orbiculaua brevis&inu'
sLipifato-urigiimlatiR calycem dinndium aMjuanUbus, slamtaiibua odo,

capsulâ calyce breviori, seminibus complanatis ovalis disco laeviusculis ad marginem latum exlimbibus tuberculatis.

Mahningta stneta Fl. GRBC. tab. 362.

Hab. in saxosis montium *Sphaetolteorwn* rara, moote *Bagto Theodora*, *Hellmo Seh* alt. 6600-7000'.

Caules tennessiDf bpollicares, folia 2 lineas tantum longa cauli arete adpressa, calyx ferè % lin. longus, ab omnibus speciebus generis hiace notis et antheru octonls disUncta Nomen spedflcom Sibthop-piaoum huic specie! minis quàm aliis generis spcplebas congruens negligere debul.

ALSINB TBNDIFOLIA Cr VAT. *montvma* Boiss. et Heldr. in pi. Gret exs. 48A7. — Glabra viridis, caulibus abbreviatis ramis pedicellisque strictissimis, petalis nullis, staminibus quibus, capsula cylindrico-couicâ calycem aequanti, sepaliibus dorso obsolete tuberculatis

Hab. greganfc in arenosis montibus ad *Gydonum* (Heldreich One MarLis).

Vanetas stnctitie foliorum ramorura et pedicellorum notabilis. *Aisine mucronata* Fl. Graca videtur quoque forma *A. tniufoltce* holo afDnis sed petalis abbreviatis donata

ALSINB BIIXABDIEBI Boiss. (Sect *Minuartea*.)

A. annua pumila a basi ramosa tota parte tenuibus patulis glandulosis obsita, foliis viridibus graminibus linearibus acutis 5-7 nervis elongatis internodiis superantibus, cymis paucifloris ab ortu saepe racemiformibus, floribus in dichotomis sitis terminatisque pedunculo tenuissimo recto calyce longioribus suffultis magnis, sepalis glanduloso-bispidulis inaequilongis angustè lanceolatis subulato-attenuatis tendens herbaceis, petalis ovali-oblongis calyce implet brevioribus, staminibus 40 subinsequentalibus, capsula (ex Labill.) oblonga trivalvi, seminibus rufiformibus ambitu rugoso-tuberculatis.

Armana globtiosa Labill. Dec. pi. Syr. Dec. 4 tab. 3.

Hab. ID Libano ad *Tripohm* Syrae (Labill.), In cultis ad radices montis *Sinai* (Boiss.).

Planta 3-4 pollic., folia inferiora (erè pollicem longa basi lineam lata, calyces obovati 4 lin. longi. Species foliis latius herbaceis, floribus magnis a sequentibus quibus conflua facit distinctissima. Nomen a pediculis Billardieri neglecti atque proprium et pediculis sequentibus. Jam tributum.

ALSINE MEYBBI BOISS (Sect *Mtnuartua*)

A annua pumila pilis brevibus patulo-cnspulis viscidulis obsita, raubbus basi slmplicibus dein stricte ramosis, foliis a basi latiori attenuatia lincari-subulais striclis rigidiusculis sub 7 ncerviis mternodu supprantibus, cymis axillanbus fascicuhforniibus breviter pcdodculalis terminalibusque paniculam brevem slrictam formanlibus, flonbus mediocribus pcdiu'llo valdu glanduloso-hispdo calyce breviori suffulUs, sepahs glanduloso-bispidis lanccolatis sobpungentibus inzquahbus quinquanoi vns ncervis lateralibus marginantibus, petalis oblongis utnn-fjufe attenuJlis calytc quadruplo brevionbns, HlamenteisiOvaldfe ms-quahbus, capsula oblongo-lngona calyce pauki breviori abapico ad basin, tnvalvi seminibus renlformi-compressis subangiilabs minutfe tubercuiatis radmula in rostcllum clongitum obtusum products

Arenarta globulosa var *V** A Meyer Ind Cauc

Dab. in tractu *Swant* prov *Talyach* (Hohenack) (G. A Hey), in *SyriA* (Boiss)

Planla 4-B poll stricta, folia 8-10 lin longa ijSlata, calyis31in. longus A pKpcedcoti divorsissima habitu strlction, inflorescentiã, folns multA angoslionbus rt brevioribus dunuscuhs striclis nee teneris, floribus dimidib mmonbus, sepahs mult6 minds elongatis attenuatisque *H* nec 3 ncerviis Affinls quoque babilu et florum magnitudine *Ats. ifT60uiariVis* — *A.Smtthu* Fenzl.—*Arm fasciculate Yl.Grx.* aon Gouan quæ long6 differt mdumento glandulosissimo, flonbus Bubsessilibus borizontahter patenlibus, scpaln mucron&to-arisUUft, petallf orbiculacis

ALSINE BHEVIS BOISS (Sect *Mtnuartiem.*)

A. annuapumjla tola brenter pubescenti-glandulosa, caulibus nanls sspè subnullis simplicibuB vel raposis, foliis hoearl-subulaUs strlctiR ngidmscuhs sub 7 nervus loternodio longionbus, cymis axillaribus in pamculam sxpitis corymbosam tenninalemapproxlraails, floribOB pedicello erecto tenui calyci squilongo suffoltis, sepalls patulè hispidulis lDsqullongis lanceolatis attenualo-acuminatis trinerviis demum aplice patulo-iDcurvis, petalis oblongis calyce lnpl6 brevioribus, staminibus decem subspquilongis, capsulã oblongo-lriquetrà ab apicc ad basin trlvalvi calyce paul6 breviori, seminibus reniformi-orblculatis subcompressis minuU¹ tuberculatis radiculã prominulã

Uab in Arabia petrea Schimp N° 41G et Boiss., Persia prope Teheran Kotschy et Pers Dor. N° U et ad Dalmkou Auchier N° «61, ID arenosismontis Cbami Cans (Boiss. forma visddior)

Planta 4jS-1 */a pollic. snilis precedent! Bed distracta paniculâ abbreviate subcorymbosâ, calyce paulft minori apice magis allenuato-acuminato subrecurvo, Bepalis 3 nee 5 nernis, stamibus gequilloagis, semlibus magis rotundatis plbs dimidi6 minoribus. Ab A. montana Boiss. — A campestris Fenzl non Boiss. floribus nee sessilibus net squarrosobracteatis allisque notis longius dffert

ALSINB ANATOLICA BOISS (Sect *Mmuartew*)

A. perennis basi suffrutescens aeciis caules et foliorum basin rainutissimè pilis patulo-deflexis puberula supcrnè glaberrima, caulibus filiformibus flexuosis simplicibus vel parcè ramosis apice densiusculè cymoso-corymbosis, folia abasitnervi latiori subito attenuatis subulato-setaceis sRICTIS plerumquè cauli adpressis Internodio brevioribus axillis inferioribus fascidiferis, bracteis pedicellum aequantibus vel subsuperantibus, floribus pedicello eis squallongo s»pitis breviori suffultis,¹ calyce glaberruno basi truncate post anthesin dauso oblongo-cylindrico sepalis sublongioribus lanceolatis fasciâ viridi nervo albo bipartitâ margnibus albo-acariosis angustiori percursis, petals oblongis obtusis calyce flrtiâ parte brevioribus, staminibus 40 subsquallongis, capsulâ calycem exoanti vel subsuperanti cylindricâ ab apice ad basin trilva\vi, seminibus parallelè bicurvis oblongis subcompressis sectis haec concotncas eximi^ munculato-tuberculatis extremitata radican longiori

A setacea var. *Athoa* Gns. Spicil. Rumel e descriptione.

Uab. in montibus totius Anatotta occidentalis, propè JJo/uBithynia; (Pestal.), *Olywpo Bithyno* Ascher N° 567 et *Gargaro* Aucher N° 577, *Cadmo* supra *Denxslph*, *Sypdo* supra *Magnum* et *Tmglo* supra **Philadelphia**, j(Bolss.) Probabiliter in monte *Atho* l&radonja.

Planta 4 */a pollic. folia majora 4-6 lin. longa, icalyceesl 4/4-S 4; * lin. longi; affinis A. *glomerate* et A. *utaoea* ab eis foliis cauli adpressis paniculâ corymbosâ densiusculft qua ob calyces ferè omnibus scariosos albida est facillè diguoscenda. A. *setacea* quâ? cum eâ radice perenni congruit praterei dffert paniculâ nullò lauri vis corymbiforau, pedicellis calyce plunea langioribus, adyas brevioris ovati sepalis ovalis fasciâ latâ percursis post anthesin pon stridis,

potalis calyce longioribus, semilibus rariis ovato-rotundis. *A. glomerata* differt indumenta caescenti subglanduloso totius plantae, radice bienni, donbus subsessilibus, in primis sepalis longissimè setaceo-attenuatis, semilibus rariis tantùm tuberculatis.

ALSUOE EHITIBOSEPALA BOISS (Sect. *Umuarttea*.)

A. perennidensi exspitosaglabra, caudiculis filiformibus basi nudis superius foliis velutis vestitis caulis nanos simpliciter edentibus, foliis subulalo-setaceis basi trinerviis obtusis muticis vel brevissimè mucronulatis strictis ad terminum slerdes prosertitrali falcatis ad basium caulium denso imbricatis ad coram partem superiorum remotissimè, floribus in cymis terminalibus decussatis dispositis raris solitatis, pedicellis calycem ;equalibus vel superantibus bracteis oblongo-lanceolatis acutis squamatis, calyce glabro vel sublevis brevissimi et parvè birtulo basi truncato oblongo sepalis asquilateralibus oblongo-lanceolatis acutis fasciatis vix nervo bipartite marginibus rubris submembranaceis fimbriatis, sepalis oblongis obtusis calyce paulo longioribus, staminibus atquilongis, capsula...

Hab. in regione euphratica *Tmoh* prope *Bosdagh* in Lydjō et in fallor quoque in *Olympo Bithynio*. (Boiss)

Densè rajspitosa caulibus 2-3 pollicibus, rariis pulcherrimis floribus in cymis subsessilibus, calyx 4;2 lin. n. longus. Species habitu floribus foliisque *A. nervam* omnino refert sed ab eâ elaf-floribus sepalis non concoloratis plunnerviis sed uninerviis vix fasciatis membranaceo-marginalis egregie diversa,

ALSINB MBANOTICA BOISS. (Sect. *Mmuarttea*.)

A. perennis glaberrima, caudiculis filiformibus arena sepulta caules nanos simpliciter apice 3-7 floras cymosofas-uculatos ferentibus, foliis minimis subulatis terribus obtusis supra sulcatis subconvexis, inferioribus tetrascleris et densissimè imbricatis brevissimè subnerviis superioribus paulo longioribus inter se remotiusculis basi subtrinnervis, pedicellis calyce paulo brevioribus bracteis triangulari-lanceolatis membranaceo-inargiatis acutis squamatis, calycis glaberrimi ovato-oblongi basi truncati sepalis asquilateralibus oblongo-lanceolatis acutis fasciatis vix nervo albo bipartite marginibus albo-membranaceis subsquilateralibus percussis, petalis oblongis obtusis calyce sublongioribus, staminibus 10 sequilongis, capsula ...

Hab ID arcuosis cacuminis *Makmel* Libani ubi legi flonf. Jul. 4846.

Caules parte exsertâ foliferâ 4-4 4; S pollicares, folia inferiora H-nem aut vix paulo amphuslonga, sapentia 9-9 4; 9 lin. tonga, calyces vix ultra 9 IID longi. Species affinis *A. setacea* sed distinctus una foliis obtusiteretibus brevissimis in parte inferiori caulis enim letrastichis

ALSINB DUNTIIFOLIA BOISS. (Sect. *Lanceolata*)

A. perennis glabra vel minute et patule glanduloso-pubescentis, caudiculis induratis nudis suffrutescens ramulis apice ramosis caules virgatos elatos angulatos simplicissimos edentibus, foliis abbreviatis linearibus rigidis acutis parallelis 7-9 nervis turionum scilicet hum approximatissimis sicut proso-patulis caulibus erectis basi longiuscule connatis internodiis multo brevioribus, floribus 3-4 in cyma fasciculiformem terminali aggregatis, pedicello calyce bracteisque oblongis acutis membranaceo-marginatis dorso parallelis multinervis paulo brevioribus, calyce glabro vel parte glanduloso-titulato oblongo-cylindrico, sepalis connatis oblongo-lanceolatis acutis anguste albo-marginatis dorso parallelis 9-13 nervis, petalis oblongis obtusis calyce tertia parte brevioribus, staminibus 40 inaequilongis, capsula breviter trivalvi, semilibus...

Hab. ID monte *Akdagh* Lyciae ubi legit cl. Dr. Pestalozza.

Caules 4-9-4 pedales, folia caulina majora 6-9 Ho. longa H-nem circ. lata, calyces 31/S-4 lin. longi. Species distinctissima Da DUIH propius affinis habitu *Arenaria* e Sect. *Eremogone* quodammodo referens sed huic sectioni ob sepala foliaque multinervia referenda.

ALSINB PESTALOZZIA BOISS. (Sect. *Lanceolata*?)

A. caespitosa perennis, caudiculis foliis vetustis dense vestitis ramosis turiones abbreviatis spinoso-squarrosos caulesque pumilos tenues angulatos minute glanduloso-hirtulos apice 4-3 flores edentibus, foliis glaberrimis lanceolatis rigidis apice longe attenuatis acerosi fere superior! praeter 9 nervos marginales flavidos validos eorum sub parte inferiori parallelis multinervis nervo medio validiori. In turionum deorsum Imbricatis squarrosis, caulibus angustioribus Urean-carinata basi longiuscule connatis erectiunculis mterradio paulo brevioribus, summis bractefornibus basi dilatatis membranaceo-flavidis oblongo-cucullatis longe attenuato-acuminatis, pedicello bracteis non jequantur calyce triplo breviori, floribus maxime, calyce glabro vel sub lente prurioso-pubescens a basi latiori eximie truncata attenuato cylind-

dnco-eomco, scpalh lougis lanccolalis acuininalis acerosis dorso parallele 9-49 nervilla marine angustissimè membranaceis, petalis albis ovato-oblongis obtusis calyce quintuple brevionibus, sUmfnibus 40 subinacquallibus, capsulâ calyce rault6 Itrovlori ohtusissimè trivalvl, seminibus.

Dab. m caciunimbus *Cadm*x suprâ *Colossam* ubi nondiim flonferam Jun 4848 observavi, accipi floriferam ex monte *Bereket Dagh* Lyclse .ib amiciss D^{ra} Pestalozza Ictam

Omnium Alsmearum pulcherrana et pnnceps Ospiles cum caulibus 4-5 polhcares, folia tunonum rosulas elongatas squarrosas formantia 6-9 hn longa basi Incam aut paulo amplius lata, (lores Ulos *Armante pungentis* refcrentes sed calyces magis acerosi 7-81m longi. Petala brevissinu

ALSINE VILLANSI H K var *sncta* BOHS et Deldr — *Puberua*
Folia lenuiter subulata subtriquetra seeds tiinones abbreviatos ad-
presse Imbricata sncla, (lores terminates solitaria vel bini

A *Heldreteluana* pi, Dcldr exs 4846

Ilab In saxosfs montis *Ghetdagh* Taun Isaunci alt. 6000' ,

Pnmâ fronte ob folia tenuissima stncfa 3-4 lin longa ab A. CiHarsn
rtiversissimam habueram sed characters florutn udem et A. *hneata*
C A Meyer inter uas iitrrmedium pra-bet

Armana Auehenana lloiss Diagn indicante amiciss FCDZL est
vera Alsines species ob capsulas trivalves et a me pnfls tantâm ob spe-
ciminis mmiaim compressionem ut sexdentatas desenptas; ea *Ala Au-*
ehenana Fend nomlnamla est Planta a me desenpta est tantâm for-
ma nana bujus speciel quacin montibus Persis australls etfam 4-6 pol-
licans occurrit et A *junipprma* proxlma esi

ALSMB SINAICA BOWS (Sect *Spergella*.)

A annua caule abbreviato tereti infernè stnetè ramuloso densè fo-
lioso, folus glabris setaceis longissimis strlectis aplce *sxpb* patulo-sub-
recunns basi parcè ciliatnlâ breviter connatis suprâ planlusculis snb-
tia convexis in mucronem longlusculam attenuatis, pednncolis folia
superantibus plunès dichotomis, pedicellis capillaribus calyce 1-3 pl6
longionibus frucUfens deflexis glanduloso-pubonills, sepalis glabrls
ovato-oblongis plams hcrbaccis suh lentc qtunctaiis obtosissimls in-
fernr lantimi iinguste membranaceis, petals roseis calycp sraqnllon-

gionbus oblongis obtusis, capsulâ calyce longiori, semiuibus remformi-compressis seriâter tuberculatis extremilate radiculari longiori.

Hab. in areoosls jugi Smattici (Schimp. N° 230, Boiss.), *Persia borealis* ad *Dalmkou* Aucher N° 4260

Valdè affinis *A. pictas* Fenzl — *Aren. jnotoFl.* Grace, tab. 440 — *AT. filiformis* Labill. Dec pi. Syr. quâ? dignosdtur foelis abbreviate basi longiùs copiosiùsque cillatulis, floribus majoribus, sepalis latius et semper apicc membranaceis sub lenle pncserUm margine eximiè lineolato-punctâs basi subcannatis, pctalis calyce 8-3 pl6 looglonbus iruncaloreluus et quac in Asiâ minor!, Cypro, Syriâ et Palxshnâ crescit

ARBHAEIA CASSIA BOISS (Sect *Euthalta.*)

A annua vel bicnnis sub lenle tota brevissimè pubescens mullicaulis, caulibus brevibus Uliformibus foliosis ID cymam foliosam demum racemiformem laxam paucifloram solutis, foliis subsessilibus ovatis obtusis mucronulatis obsolete plunnerviis sub leute tuberculis mltkns piligens obsilis, pedicels calyce tnp6 longloribus semper erectis, calycis >revlter et palulè piloso-viscidi sepalis ovatis acutis elevatim trinerviis extenoribus angustè interioribus latus albo-marginalis fructifens capsuls aretè adpressis, pelalis oblongis obtusis calyce inente brevioribus, capsulâ ovatâin collum 6 denlatum e calyce exsertum attenuatâ, seminibus renifomibus transversè latioribus crebrè tuberculatis.

Dab in sylvaticis reglonis super, montis GuauSyns borealis Legi fructiffram Junio 1846.

Caules prostrah 3-6 pollicares, folia 2-3 lincas longa lataque, capsula 2 *ift* Un. longa ferè 2 lata. Affinis *A. serpyllifolia* a quâ differt sepalis ovatis nec elliptico-lanceolatis mult) latioribus mmusque acuminatis, capsulâ majon In collum calyce exsertum atenuaU nec ovoldeâ calyci ajquilonga, seminibus plûsduplò majoribus acutiùs tuberculatis. *A. conferta* quoque affinis differt indumento cinerascenti, folbs conferUfi, pedicellis calyce brevioribus, sepalis lanceolaUs, pelalis calycem aequantibus

ANSNABIA TBEMULA Boiss. (Sect. *Euthaita.*)

A. annua, caule sub lente brevissiniè pruinoso-papillan tenui tercli inferaè approximaUm folloso ad foliorum insertionem noduloso Infrâ mediua dichotomy ramosissimo, ramis stnetis capillaribus rigidis

(bins parvis scsbilibub oblongis vel oblongo-lanceolalis utnquè alle-
nuatis acutis 9-44 nervns raargme scabriusculis rameahbos angustatis
oblongo-lincanbus, pedunculis sotaceis rectis rigiduhs flora mulloties
longionbus, flonbus parvis, calycis glaberrimi ovato-spbarici sepalls
ovato-oblongis apico allcnuatis subacumin&hs medio virldibus traer-
vns margine ialo albo-mumbranaceo cinclis, petalis oblongis obtusius-
uillis calyci; tnoïLe brrvionbus, capsuiâ ovato-subglobosâ lente pira-
lulaiâ calyce sublongion, seinimbus remformi-globosis subcompres-
sis teDuisime et seriatim toburculalis

Hal* in sylvaticisjugi *Cassn ia SynA borealx*. Legi fructifcrain JUD.
4846

Plaota circ. scmiprdalls, folia 3-4 hn longa 4 4;2-3 lata, pedunculi
8-40 lin. long) ramiquu tenuissiroi ngidull dun, calyx hncam longus,
capsula 4 4/9 lm longa, formâ caisulu* quoqucaffinisyl. *serpyllifolm*
.i qnâ dignoscitur infloruscnliâ minosissiffilâ dichotomy strictâ et pe-
duntulorum lungitudmc, Itabitu niagis alKlms A *oxypeudw* et speciei
scqHenti qmu caulibus ramis(juo fragilibus, calyce elongato, folns
petiolatus longiis differunt

AHBNABIA PAHPUYUUA BOISS et lleldr in pi. Anal cxs. 4 846
(Sect *Euthalta*.)

A. annua tota sub lenlc brevisime pruinoso-tomentella tenera,
caule tenui hliiformi pumilo creclo a basi vel supernè strictâ et dicbo-
lome rainoso folioso folhs parvis teneris pellucida enerviainferioribus
breviter ovatis vd deltoicis obtusis mucronulatis vel acutiusculis, In
petiolum eis aequilongum vel loogiorem basi breviter contractis supe-
nonbas elliptico-linearibus vel angustè Uneaibus acutis flonbus ia
pamculam laxam subcorymbosam pauuifloram disposltls mimmls pe-
dunculo setaceo recto fructlfcro erecto-paluio eis 3-6 plò longlori suf-
fullis, calycis birU ovali sepalis angustè lanccolatis acuminatls obsole-
tinnervns angustissunè albo-marglnalls, petalis obovato-spathfulatis
obtusissimis calyce tertiâ parte longionbus, capsnlâ oblongâ calico
tertiâ parte longion, scmuubus reoiforraibns transversè obloogis te-
nuiter tuberculatis.

Ilab ad lapides et muros amphitheatn urbis *Perge* in Pamptayliâ
(Heldreich), in Lyciâ propè *Castelroaso* (Pestalozza).

Planta tenera gracilima 2-3 rarius 6-6 pollicaria, folia inferiors 1-3
)in longa latoquo petiolo sscpe *b* lm longo suffulia, pedicelli 3-5 Hn

longi, calyces lineam longi Facie et characteribus proxima *A. oxypetala* Sibth — *A. Rhodiæ* Boiss. qua egregie differ! floribus dupl. majoribus, sepalis plurinerviis nervis anastomosantibus, capsula calycem vix excedentem, petalis lanceolatis aculis.

ABENAHIA NANA Boiss. et Heldr. (Sect. *Euthalxa*.)

A. annua tola breviter glanduloso-hirta viscida, caulibus a collo 4-3 natis saepe subnullis densiuscule foliosis apice 4-3 (lores inter folia suprema sessiles majusculos ferentibus, foliis infimis anguste linearibus inferne attenuatis superne sessilibus ovatis omnibus obtusiusculis ternerviis, calycibus ovato-conicis glanduloso-birli sepalis oblongo-lanceolatis acutiusculis ternerviis binis interne basi albomarginatis caeteris immixtis, petalis oblongis obtusis calyce triplo brevioribus, capsula...

Hab. in cacuraine *Avthenti* montium *Lasstii* Crete rarissima. (Heldreich. J)

Specimina quae vidi 6-8 lin. longa, folia 5-3 lin. longa, calyces a basi 1-2 lin. longi. *A. maerospala* Boiss. quae differt foliis multinerviis, calycis lacinus acuminatis apice paulo-subrecurvis multo elevatius nervosis.

ABBNAUA AOEBOSA BOISS. et Heldr. In pi. Anat. exs. IBM. (Sect. *Euthalxa*.)

A. perennis multicaulis basi suffruticosa, caulibus procumbentibus ramos ascendentes pamos foliosos glabros edentibus, foliis parvis rigidis setaceo-subulatis tunc pater marginibus scaberrimis tenuissimè acerosis videntibus vel rubellis eis turionum dense et strictè fasciculata, caulibus siccis Internodio brevioribus, floribus 5-9 majusculis terminalibus confertè cymosis pedicello valde viscido calyci aequilongo vel breviori suffultis, calycis obovato-glanduloso-birli sepalis duris ovato-oblongis breviter acuminato-subpungentibus dorso herbaceo nigrescenti convexo-carinatis obsolete subquadrangulis late albomarginatis mtds coccavis, petalis oblongis obtusis calyce tertiam parte longioribus, capsula ovata calyce tertiam parte longiori, semibus .

Hab. in collibus tephaceis aridis caeterissimis ad occidentem planitiei *Kontah* inter hanc urbem et *Beychehr* silis, Junio (Heldreich), in monte *Bereket Dagh* Lyciae (Pestalozza), in regione alpina monte *Anemas* (Heldreich).

Planta arc semipedalis, 1011 tenuissima *i-i* in tantum longa, llores magnitudes ferè A. *Lessertanw* Affinis A. *Udebouriarup* Fen/1 qua? differt glabritate, foliis brevioribus pauloque crassioribus, lloibus duplo vel triplo minoribus

CRDASTIUM SCAPOSIUM Bolss *n* lloidr ID pi Grt't exs 4g<7 (Sect *Orthodon*)

G annum totum breviter et patule hirtum viscidulum, caulibus abbreviatissimis simplicibus vel basi semel vel bis dichotomis, foliis oblongis obtusis In petiolum PIS brevioribus attenuatis praeter indumentum brevem margine ciliatis, pedunculis longissimis nudis tenuibus rectis retrorsum vel adpressis hirsutis multae longioribus, floribus medioeribus, sepalis pilis adpressis hirsutia ciliatis acutiusculis medio vinctibus nervis luteo albo-marginatis, petalis cuneato-spiculatis obtusissimis subrectis calyce paulo longioribus, capsula oblongo-cylindrica calyce tertiam parte longioribus alveis rectis truncatis, scimis reniformibus subcompressis subangulatis ramulis tuberculatis.

Hab in arenosis montium *Sphaerocarum* supra *Askypkow* alt 3000-4000' (Heldr.)

Caulis 6-8 pedibus longi, folia cum petiolo 6-8 lin longa 3 lata, flores 1-40, pedicelli subaequilongi 4 vel 5 pollic, calyx 3 vel 4 lin. longus Affinis *C pedunculari* et *laxo* a quibus differt caulibus brevissimis, pedunculis elongatis scapiformibus, petalis vix rectis nec bidentatis etc

Loco *Crastium cetrulei* BOISS. Diagn. I tali b3 pone *Manehaa ocmilea* Boiss — *Malaobium asruteum* Jaub. et Sp. Illusir Ilac planta ut et *Cerastium manticum* Mousc d Bxb incunte ad genus *Malachium* relate fuerunt

LINUM

LINUM CAINOSULUM Bolss (Sect *Eulnwn.*)

L perenne glaberrimum glaucum caudiculis subterraneis cylindricis caulis lloferne filiformes donudatos inter lapides repentes supernè ei-sertos brevissimos dense foliosos simplicibus edentibus, foliis parvis carnosulis obsolete unius nervis oblongo-linearibus acutiusculis basi sessilibus rotundatis vel subtruncatis margine serratis, pedicellis 3-4 ter-

minallibus et *n* axillis supremis ortis calyce subduplo longioribus inferne asepale bibracteolatis, sepalis viridibus ovate oblanceolatis basi prominula 5-7 nervis, petalis .. filamentis calyce longioribus basi dilatatis ferè usque ad ovarium apicem inter se connatis, antheris oblongis sub lente impunctatis, stylis calycem sequentibus, stigmatibus oblongo-capitatis, capsula

Hab in glareosis *Libani* supra *Cedros* ubi Ipsi Jun **4846**.

Gaules tenuissimi parte foliorum vix bipollicares, folia densa 3-4 lin longa 1 4/5 lin. lata, pedunculi 8-6 lin long), calyx a lin. longus. Quamvis bene plantam tantum petalis delapsis et absque fructu legerim bene descripti nam Inter *Lma cyanantha* Insignis est foliis carnosulis densis, pedicellis paucis terminalibus calyceque brevioribus

Liurov THOLEUH BOISS (Sect *Eulmum*)

L. glabrum vix radice, annua vel bienni 4-3 caules virgati teretes foliosos simplices vel medium veritas strictè ramulosos edenti, foliis alternis lanceolatis strobilatis acutis ramulorum uninerviis margine denticulato-scabris sessilibus obsolete cordato-auriculatis, racemis demum elongatis virgatis laxis ad et inter pedicellos bracteatis bracteis oblongo-uneatis acutissimis pedicello brevioribus, sepalis angustè lanceolato-linearibus acutissimis trinerviis basi subcarinatis angustè membranaceo-marginatis margine glandulis sessilibus regulariter denticulatis, petalis caeruleis calyce subduplo longioribus, stylis filiformibus antheras multas superantibus in stigmata oblongo-clavata abeuntibus, capsula; corolla-globosae calyce brevioribus pedicello recto subincrassata eam vix longiori suffulta vaivis mucronem longum tenuem capsula; subaequilongum conjunctis, semmibus tuberculato-punctatis

Hab. in regione sylvatica subalpina *Tmoh* supra *Phladelphiam* in Lydia, legi Jun 4811

Habitus et magnitudo florum *L. alpinum*, folia **48-45** lin. longa 8 lin. lata. Inferne lata. Species pulchra affinis *L. nervoso* sed egregiè distincta radice non perenni, foliis angustioribus basi subcordatis nee rotundatis nervis 4 nee 3-5 elevatis, sepalis angustioribus

Limicola vix *GulToRQH* Boiss et Heldr. In pi. Anat. exs. (Sect. *Eulmum*.)

L. glabrum vix radice annua vel bienni 1-3 caules virgati*

leifHics teretcs foliosos mediam versus strict^ ramulosos apliceque s-3 fidos edenti, foliis alternis oblongo-lanceolatis strictis acuminatis margine exlimiè sob Icne denticulato-scabns basi rotundatis subtrinerviis nervo medio non ramuloso lateribus duobus ferè obsoletis, racemis dcnrium elongatis virgatis laxis ad et inter pedicellos bracteatis bracteis oblongo-lmcanbus acutissimis pnlicellos Bukequantibus, tepalis ovato-oblongis acuminatis trinerviis basi anguste membranaceo-marginatis supernè margine denticulato-scabris glandulis scsillibus intermixtis, pclalis pallidè csruleis catyce duplè longioribus, styhs stamina non ajiuanlibus stigmata capitata ferentibus, capsulae globoso-subconicae calyce paulò brevioris pedicello subincrassato creclo-patulo eà duplè longior suffultae valvis apice in mucronem brevissimum coalitis, semimbiis lcvibus punctulatis nitidis

Ilab. in herbis inter frutices faucibus supra *Tstmbouc&kan Pamphytur* sits (Heldr. Maio. 4845).

Pedalis, folia usque 9 lin longa basi 4 lin lata, floris magnitudinis *L. usitatissimi*, babilu valde affine speciei praecedenti sed exiniè distinctum foliis minoribus basi rotundatis, sepalis lalioribus brevioribus, flonibus minoribus, stigmatis formâ, etc

LINUM FLAVUM L. var *Pamphylicum* Boiss et Heldr. — Gaespitosum, caulibus pumilis supernè divancatim ramulosis, foliis radicalibus ovato-spathulatis in petiolum breviter attenuatis obtusis, caulinis oblongo vel linear-lanceolatis acutis basi subangustatis, sepalis angustis linear-lanceolatis denticulatis corollam dimidiam subsquantibus.

L. Pamphylicum Boiss et Heldr. in pi Anatol. exs 4846

Bab in *Pamphylia* Heldreich.

Quamvis haec planta habitu a *L. flavo* Austriaco longè differat, in eâ nolui essentielles speciei id est folia basi biglandulosa et sepala denticulata occurrunt nec discrimina satis gravia detegere possum

MALVACEAE

ALTHEA DIGITATA Boiss (Sect. *Aleea* L.)

A caule elato stinco simplici induricnlo adpressissimo pilis stellatis constanti aspero, foliis longè petiolatis ferè ad basin usquè diffinitim

partita utrinque indurata brevi denso velutino supernè niudo pilis
Bimphidibus constanti infernè magis griseo stellato obsitis partitionibus
ok^ugo-lanceolatis obtusis basi angustatis irregulariter lobulatis cir-
cumbicrè obtusè crenulatis margine serratis, racemo terminali sim-
plici laxo inferaè foliis flores superantibus bipatis, floribus subsessi-
llibus amplis, involucello adpressè stellato-tomentoso ultra medium lobos
lobos acutissimos triangulares diviso obsolete striato, calycis stellato-
tomentosi involucrum tertià parte superadistans laciniis triangularibus
acutis, petalis intensè purpureis obcordatis calyce in plerisque longioribus
uogibus penicillato-dialis.

Hab. in collibus Palastini prov *Saman*. Legi Apr. 4846.

Planta 4-5 pedalis, folia diarsua 4-5 pollicana, flores magnitudinis
A. rosea a qua ut et ab affinis induit asperulo fonnèque folio-
rum eimic differt. — Dane speciem in loco natali pro *A. lavaterceflora*
DC. habueram sed hanc ex descriptione et ex specimine archetypo
herb. Gandolleai differt iadumato hirsuto, foliis vix ad medium
lobatis, involucri et calycis lobis obtusis et verosimiliter nihil est nisi
A. rosea forma. Libanus ex errore ut ejus palma a d. DC. indicatus
fuit nam specimen unicum herb. GaidoUeam, descriptionem in COD-
græcos, ex Hinere Urvilleano orientali et igitur ex Archipelago, vel
Byzantini vicinis nee e Syria oritur.

ALTEIBA SETOSA Boiss. (Sect. *Alcea*)

A. caule elato stulto simplici scitis e tuberculo fasciculatis deflexis
loogis hispido inter eas glabro, foliis cordato-bucrolundis plus minus
obtusè 6-7 lobis crenatis pilis faciei superans subsimplicibus nili-
dis adpressis inferans fasciculato-stellatis tomentosis sèpè glabres-
centibus, petiollis retrorsum el sparsim fasciculato-setosis, racemo
terminali elongato laxo, pedunculis soctanis vel binis flavido-villo-
sissimis involucello sequilongis, involucello longe et densè stellato-tomen-
toso ultra medium lobos acuto triangulari-lanceolatis diviso calyce*
vix brevior, calycis stellato-tomentosi lacinus vix stantibus oblongo-
Uiaogulatis obtusis, petalis incarnatis obcordatis calyce in plerisque lon-
gioribus ad unguem paucis silialis.

Hab. in collibus *Samance* et *Gaitwa* in coorsillo sp. procedentibus.

Planta 4-6 pedalis in Palastini *A. rosea* vices agens, ab est distincta
caulibus deflexis setosis nee tomentosis, involucello calycem subs-

quauti, caJycis lobis ubluis nci acutis Cum A *dxgtaUL* hybndas formas **gignit**

ALTEEA HEMOTIPLCHA Doiss el Fleldr in pi Aitat 4846. (Sect. *Alcea* } An

K perennis a tasi mulucaulis tola pilis stellalis densè pulverulento-scabnda, caulibus asrendentibus temiibus infemè fobosis In racemum longum laxiflorum abeuntibus, folns flavo-virentibus infenonibus longft petiolalis ambitu cordato-subrotundis profundissim(> palmalim 5-7 lobis, lobis oblouffis vel oblongo-linearibus basi subattenuatis obtusissimis denticulatis lateribus brevioribus, folus flonibus panis breviter petiolatis firfe ad basin trlpartitis, pedicellis solilanis brevissimis, involucelli sexlobi lobis triangularibus acutis calyceque stellato-tonienlosis, calycis involucrio duplb longioribus lacmils triangulari-lanceolatis JUCULIS obsolete multiserialis, prkilis pallid[^] roscis obcordatis calyce plus dupl6 longioribus ad unguem penicillatis Cihalis, carpellis puberulis dorso sulcatis ut[^]inflU[^] transversis* sulcato-nigosis

Ilab. in campis mart fntimis verstit fluvium *Catarrhactum* Pampbylias (Heldreich) Julio

Folia inferiora majora diametro tantum bipollicana, folia eis *A. rosea* dimidiò minor's, ab *A. lavateraflora* involucllo brevissimo, ab *A. finfotti* indumento crasso aspero foliis, flonibus rosels nee lutels, ab utrâque caulibus humilioribus tenuioribus distincta

ALTEEA SULPIUHKA Boisfi e! flol[^]n in pi Kotsch Pera bor 4846 (Sect *Alcea*)

A perennis a basi multicaulis basi suffrorescens tola deose pannoso-flavescens, caulibus erectis rigidis sunphicibus \el pan\$ ramosis Inferno foliosis superni; in racemum brevem pauciflorum laxum abeuntibus, folus crassis petiolo ciliatis subxqmlongo suffultis ovatis obtusè crênulatis Inlegens vd obsoktissimè repando-tnlobis Inferioribus ob-
•lusis basi rotundatis superioribus acutiusculis basi CUDMIIS, flonibus oblongis parvis, pedunculis solitanis involucllo subequilongis tomentosis crassis, involucello sexgdo calyceque cstriatu densè et longè tomentosis hoc vix longioribus lacmils utnusque triangulari-lanceolatis acutis, petalis sulphureis calyce plus duplb longioribus ad unguem ciliatoponicillaus, carpellis facie dorsali subsulcatis laterali profuodfi scrobiculato-ru[^]osis junioribus stellato-tomentosis

Ihb ad radices inontis Demawend loco Garden Kvtschek dicto Kotschy §« 684*

Caules 11/8 peddles, folia majors sesquipollccm longa, flores HUs
A. rosea dlmidib minores Pulcra species propè A atnatam collo-
canda.

MALVA OXYLOBA BOISS. (Sect. Fasciculate.)

M. annua multicaulis cauibus diffusis ascendentibusve ramosis gla-
briusculis rubellis, fohls petiolo longo parcè hirsuto suffoltis ambitu
rotundi& basi sinu apertissimo cordaUs profunde 3-5 Qdis lobls cu-
oealls Bupcniè diLttatis profundft divisio lacimas lanceolatas acutis-
almas integras vcl triQdas ad nerves glabns vel pilosulis, floribus
aiillaribus 3-4 petiolo cis ajquilongo\cl 8-3 plò longion suffultis, pe-
talis pathdc roseis calyce vix spsquiloagioribus cuneato-truncatis re-
lulis, scpalis extenonbus linean-selaccis brevionbus interlonbus ob-
longis acunuiiis reticulato-nervosis glabns margine ciliatis, fnicfls
receptaculo centrali deprcssissimo, carpellis glabrls dorso plaois scro-
biculatis transversèqne rugosis margiae acutis dcDliculatis facie mte-
rlo^radiatliD elevato-rugulosts.

Uab. in pmguibus plautiel *Esdnulon Galilxs et colm e semiolbus*
Pala^stims

Species disinctissima ex affnitate *M. parviflora* et Qoribus ejusdem
magnitudims donata, msignis folloruin lacinns elongatis aculissimis,
petiohs longissimis saspd 6-7 pollicaribus

HYPERICACEÆ.

HTPBHICDH DMVLom Boish et Heldr (Seel. *Drosocarptum.*)

H. cauilbus csspitosis flbformibas angulato-bilineatis foliosfs sim-
pUdbus apice uniflorls, foliis minutis subsessilibns ovatia obtusis pra-
ter margnem papilloso-scabndum glabrfs parcè nigro-punctatis et
pellacdo-punctalis, flore e summis fohis breviler pedunculato, calyce
coroldr trlp!6 brevion in lacinias lanceolataa acullusculas dorso nigro-
ponclatas superne margiae glandulis mgris sesslllbuB obailas profundè
divteo, petalla nigro-punctalu margine integris, capsuli vesiculis
magnis oblongo-rlavalw aspersft

Ilab in schistosis rcgiouls alpinat monlis *Anemas* Lycaoitix (**iled-reith**)

Planlula 2-3 pollicans, caules tenuissimi, folia el floras *H. Rhodopet Vm.* — *Campylopx cerastotdis* J et Sp quod longè differ! caulibus plunflons_F loins tomentosus, calyce magno glaDduloso, capsulâ glanduloso-vittatâ.

IIYPBHCUM TMCHOCMILON Boiss et Heldr. (Sect *Drosocarpxum.*)

II glabernmuni rubellum basi snffrutescens' caules numerosissimos pumilos erectos fliformcs ngidulos basi nudos simplices ranus Iri-fldos edens, folns parvis myrtiformibus ovato-obloagis obtusis subses-silibus nervulosis vix pelluado-punclatis scne simpUci punctorum DI-grorum mnrginatis mtegrnmls, flonbus ad caulium apicera solitariis vcl triclilotomè 3-6 nis, bracteis oblongis breviter denticulatis, calycis dimidiâ corollâ lircvions Jacinus oblongis oblusis nigro-punctalis margmo obsolete et remote denticulalo-glandulosus glauduhs minlmis, petalis nigro-punctatis integns sublus rubcllis, capsulâ vesculis ad margines valvarum iransversis obsitâ.

Ilab inter saxa in quercetis montis *Ida* m latere austral! sup^{ra}^o-*nsa* alt 3000-i000¹. (Heldreich)

H. repens pi. Heldr Oct. 4847 non L

Primûm babulmiis pro *H. repenti* cujus gpecimlna macnora nostram plantam referunt sed quod Longf differt caulibus non tenuisslmls, paniculâ pluriflorâ, scpalis acutissimis stipitato-glanduloate, capsulâ glanduloso-vittatâ

HYPERICUII PAPILLARE Boiss. et Heldr. (Sect. *Drosocarpm.*)

' H. glaucescens tolum brevissimè et densissimè paplllis tubercnll-formibus leprosum, radice crassâ, caudice lignoso, cauibus brevissl-mis fllllformibus teretmsculis foliosis simplicibus procumbentibus as-cendentibusvc eximiè nigro-punctatis apice lazè brevissimè et tricho-tomè pamculatis 6-9floris, folns mmutis ovato-rotundis carnosulis opacls pellacidè et parciûs nigro-punctatis ad partem mferioreni cau-lium diminutis confertionbus, bracteis mhiimis lanceolalis subdentl-culatis, calycis minuti carnosull estriati corollâ tripld breviorls **lactnls** obloogis obtusis nigro-punctatis glandulis nigns subsessilibus remo-liusculis marginatis, pcfalis mgro-punclatis, capsufa..

Hab. in *Anatolia* (Heldr.) sed schedula locum proprium indicans ambasa fuit

Caules 2-3 pollicares, folia 3-31meas diametro lata, habitus *H. lepros* % quod differ! Indumento cano, caulis acutè angulosus, sepalis lanceolatis acutis etc.

HYPERICVM HBLDHBICm Boiss in pi. Gret Heidi 1847. (Sect. *Drosocarpum*.)

H. glaberrimum rhizomate indurate caules plunmos graciles simplices ascendentes paucifloros foliosos utrinque bilineatos apice cymosè et confertim 1-9 floras cernenti, foliis elliptico-linearibus obtusis pellucido-punctatis margine remote nigro-punctatis scissis infimis basi subattenuatis superioribus basi truncato-subaunculatis aunculis minutissimis nigro-dimbricatis, summus margine glanduloso-stipitatis superiorè subattenuatis, bracteis c basi subdilatata auriculatis linearis setaceis longè fimbriatis Gmbnis glanduliferis, calycis corollae triplo brevioris segmentis oblongo-lanceolatis acutiusculis circumscissis densè et tenuiter ciliatis ciliis glandule terminatis incostatis inter costas pellucidè 3 vittatis nigro-punctatis punctis in lineas longitudinales saepe coeuntibus, pelahs parca nigro-punctatis marginae tenuissimè sub lente stipitato-glandulosis, capsula .

Hab. in slews prope *Roukaka* prov. *Stiria* in Greta. (Heldr.)

Habitu et characteribus valde affine *H. Auchen* Jaub. et Sp. Illustr tab. 34 pro quo prius hoc babul Bed quod a mei specie ex icone et descriptione sat specidè diffère videtur foliis DCC nigro-punctatis nec basi subaunculatis, sepalis acubsinus remote fimbriatis corollae vix duplo brevioribus.

HYPERICUM CASSIDM Boiss. (Sect. *Drosocarpum*)

D. glaberrimum glaucum caulis erectis elatis teretibus lineatis superiorè corymboso-paniculatis ramis paniculis stentis, foliis conatis inferioribus oblongis basi subangustatis caeteris oblongo vel ovato-cordatis margine revolutis acutiusculis evsciculosus vel supremis paret pellucido-punctatis sparsim ad margines nigro-punctatis omnibus integerrimis, bracteis linearis lanceolatis fimbriatis glanduliferis, calycis corollam dimidiam superantis laciniis linearibus acutis punctis elongatis pellucidè conspersis fructiferis deflexis costalis margine

parce flmbriatis flmbriis brevissimis ascendentibus remotis apice mgroglandulosis, petalis nigro-punctatis, capsulâ talyce duplb longiori cylindricâ apice subacnuatâ trisulcâ vesiculis magnis globosis Inordinalis aspersâ, senunius longitudinaliter stratis.

Hab in umbrosis jugi Cassn ꞑo consorho *H tpectabUu* J et Sp LogiJun 48i6.

Planta data bubitu et foliis *H cilmti* a quo differ! sepals remote et breviter nee dense el longè cihabs, foliis fere eglandulosis, capsulâ 6 lincas longâ attenuate, calyce deflexo nee capsulse adpresso *H Montbretn* differt folus tenens punctatissimis, petalis glanduloso-ciliatia

BTPERICUH SVBUNEAI BOISS. (Sect. *Drosocarptum*.)

H glabrum vinde caulibus ascendentibus simplicibus obsolete bHineatis laxè foliosis supernè laxu corymboso-cymosis, foliis pollucidis oblongis oblongis sessilibus Infcnoribus minoribus epunctatis basi attenualis supenonbus snbcordalis valdè pellucido-punctatis margine parcu uigro-punctabs. bracteis magnis calyci squilonpis e basi aunculalo-dilatata lanceolatis acutissimis flmbnatis flmbriis glanduliferis, calycis lacinis corollâ dimidib brevionibus lanceolato-lineanbu[^]acutissimis laccro-flmbnatis flmbnis diametrum dimidium lacunae aequantibus ascendentibus in glandulam capitatam abeunlibus tenuitpr trinerviis valde nigro-punctatis, pabilis integns parçè mgro-punctatis, capsulft...

Hab in nionte *Velugo* (*Tymphreato*) CEtolm Spruner

Aflne *H. AwAen* et *burbata* diversum cymâ laxa, bracteis magn[^], sepals angustia aculissimiB, flmbriis brevloribas capitalo-glandulosis.

HYPBHIGDV BITIINTCCH BOISS. (Sect. *Drosocarpwm*)

H. glabrum vinde, caulibus tenuibus ascendentibus BimpUclibus lerelibus *hxfr* foliosis superne densè corymboso-cymosis pauohloru, foliis subpellucidis breviter ovatis obtusis basi sessilibus breviter cordalis prorsus eglandulosis margine nigro-puotalis, biacten basi subauriculatis linean-ctaccis flmbriabs flmbnis bracteanim diametro longioribus nijro-glandulosis, calycis laciniis corollam dtmidiam superantibus lanceolato-hneanbus acutissimiBflmbriatiB punctis nigris elongabs valdè asperais flmbriis ID glandulam capitatam abeuntibas lacinarum dimidiam lalibidinem aiquantibus, petalis margloe stipitato glanduloso, capsulâ vesiculis inordinatun dispositis ovalis «epè elongatis obsitft.

Hab. in regione inferiori *Olympi Bahynt* Bolss

Caulis 1/8-4 pedalis, folia inajora ferè pollicem longa Affine *H. Riken* a quo differt cymâ confertiori sepalis acutioribus dimidiâ angustioribus Umbrae apice capitato nee clavato-glandulosi, petalis denbuculato-glandulosis A specie praecedenti sat distinctum folus prorsus pellucido-glandulosus, folus magis rotundatus, corymbo conferto.

HYPERICUM RUELIACUM Eoiss (Sect *Drosocarpum*.)

II. glabrum glaucescens caulibus plurimis basi induratis virgatis simplicibus teretibus binatis apice confertis et pauciflorè corymbosis, foliis strictis subnatis oblongo-linearibus obtusis margine valde revolutis opacis non pellucido-punctatis parè nigro-punctatis, bracteis magna oblongo-lanceolatis acutissimis fimbriis nigro-glanduligena latitudinem bractearum aequantibus, calycis corollam dimidiam aequans lacinis oblongis acutis margine Umbrae ascendentibus crebris ejus dimidiam latitudinem aequantibus apice glandulas nigras capitatas ferentibus obsitis nigro-punctatis punctis inferne in lineas longitudinales coalitis, petalis margine minutissime stipitato-glandulosis

Hab. in *Bumelta*, Frivaldsky sub *H. Richeri*

Habitu et forma foliorum valde affine *H. barbato* quod differt bractearum sepalorumque fimbriis multo longioribus apice non glandulosi, petalis margine non glanduloso-denticulatis

HYPERICUM PESTALOZZI* Bolss (Sect *Tamtoarpiwn*)

H caulibus simplicibus basi nudis ascendentibus apice paniculam divancato-patentem brevissimam laxam ferentibus, folis linearibus sessilibus ovatis obtusis utrinque breviter velutino-canaliculatis pellucido-punctatis, paniculae ramis pedicellisque tenuissimis. bracteis linearibus setaceis, floribus parvis, calyce corollae dimidiam breviori nee fimbriato nee nigro-punctato parè pellucido-punctato In lacinis linearibus obtusis ad basin usque flosso, petalis emarginatis, capsulatis.

Hab. in *Pamphylia* propè *Adalia* ubi legitur Pestalozza.

Species pulchella quasdam formas humiles *B. tomentosum* referens a quo lamen floribus dimidiâ minoribus sepalisque obtusis eglandulosis longè recedit, aptius vocanda propè *H. mutrale* Ten. et *E. hneanfolium* Vahl. Caules tenuissimi basi suffruticulosi modo pollicares, folia

majora 6 lin. longa, panrula capillarls (rlangutari-o\al.i, calyx vlx scKquihncam longus

HYPKRICUM ATOHAHIUM Bom (Sect *Ta-mocarpwm*)

n totum papiltis albis minutissimis tompnoso-tolutinum canescens, cuulibus turotibus smiplicibus creel is apice in pamrnlam brevcra ovalam aheunLihus, fohis rcmoliusculis Inlernodio bnmoribus oblongo-lanccolatis obtusiusculis basi cordato-amplexicaulibus punctis pellucidis mgnsque fipareis obsitis, bracteis minitms lanceolato-Unearibus utnnque 4-3 glanduloso-denticulatis lotegraste, calyce corolla dimidl6 brcvion ad basin usqu{> in Incimas oblongo-laoceolatas acutiusculas valdd nigro-puiclatas trinervias margine 4-8 glandalis stipftatis aaceo-dentibus denticulalas diviso, pelalis nigro-punctatis fniegns, capault longitudinalahlprglanduloRO-viltaUk

Hab in dumosis montSs *Sipyh* suprA *Magneswm* in *LydiA*. (Doiss.)

Aflnu *H lanuginoso* et // *tamentoBo*, prius differt calycibus ml-nonbus non nigro-punctalis, sepalls oblusis glandulls sessllibus erebns dcniculililis, poatenus ladumento denso breulo, sepalis acuminatis, etc.

HrPEarcuM NEUROCALYGINDH Boiss et Deldr. in pi. Anat exs 1846. (Sect *Tantocarpum*.)

H basi suffrutesceni caespitOBO-mullicaule tolum densd et mlnuUs-simd puberulum glaucescens, caulibus procumbentibus asceDdentlbufive gracilibus pumdis duns dense foliosis slmphcibus supernd in paniculam propter ramulos brevissimos racomiformem brevissirafi oblongam abeuntibus, folns parvis sessilibus lIneanbus ob margines valdd revolutos Bubberelibus obtusis nervo medio valido percunls pareè pellucido-punctatis omnibus axillis fstsciculum fohorum sabeBquiloDgoram terci-linearium edentibus, bractels ovato-rotundis breviter denticulatis, calycis corollam dfoudiam sequantis laeinlis oblongis apice rotundatis densè parallel et elevallm 8-9 costato-striatis inter costas Hneis pellucidis totidem longiladinaliter peraursn nargine regularlter peclinato-Ombriatis flmbrus brevibus glandulam eapltatam mgram ferentibus, capsula..

Hab m montibus humilioribas andis inter toeum *Beyehekr* et plmi-tiem *Konxah* in dnmnsls (Tleldr) Junio.

Caulis 4-6 pediculis, folia 3-4 lin. longa majora sesquialtera late, racemus contractus 4-8 pediculis. Folia et taabiles omnino *H. confertum* Chow.—*satweucofoht* Jaub. et Sp. lacina calycis anguste lanceolata acutissimis longe fimbrialis distincta. *H. velutnum* Bolas quod eodem fere indumento gaudet sepalis subrotundis corollam quadruplo brevioribus margine glandulis subsessilibus adspersis statim distinguitur

HYPERICUM STENOBOETHYS Boiss (Sect. *Tetemocarptum*.)

H. basi suffrutescens multicaule glabrum caulibus rubellis pilis virgatis simplicibus dense foliosis in paniculata propter ramulos inferiores breviter anguste racemosam apertibus, foliis sessilibus oblongo-linearibus obtusis margine subrevolutis nervo medio valido percursis punctis pellucidis magnis cooperatis, axillis omnibus fasciculum foliorum breviorum ob margines valde revolutos teretibus linearibus edentibus, bracteis ovatis breviter denticulatis, calyce corolla triplo brevioribus lacinis ovato-oblongis obtusis parallelis subquinque-nerviis inter nervos pellucide lineatis circum circa fimbriis apice nigroglandulosis earum latitudine triplo brevioribus pectinatis, petalis vesiculis ovatis obsitis, capsula.

Hab. in sylvis jugi *Gusu* ubi rari videntur. (Boiss.)

A. praecedenti distinctum defectu indumenti, numero nervorum calycis et pro parte corollae proportione, ab *H. conferto* sepalis non anguste lanceolatis acutissimis nec longe fimbrialis

HYPERICUM MACROCALYCINUM Boiss. et Heldr. In pi. Anal. 1846. (Sect. *Tetemocarptum*.)

H. glabrum glaucum multicaule, caulibus ascendentibus crassis elatis teretibus ramulorum superae longe racemoso-paniculatis, foliis omnibus permanente axillaribusque convolutis tenuiter hinc depresso-punctulatis, floribus longiuscule pedunculatis pedunculo medio versus bracteolato, bracteis numerosis oblongis integris eglandulosis, calyce rotundo obsolete striato ad medium usque in lobos rotundos vel ovato-rotundos glandulis sessilibus nigris regulariter marginatos distincto, petalis calyce brevioribus margine breviter nigro-fimbriatis, capsula attenuate vitis crebris longitudinalibus percursa.

Sab. la campus andu prope *Kuratu* non procul a lacu *Bwichehr* in *Lycaonia*, (Heldreich)

A bims prascdeulibus el *H conferto* uaulibus crassionibus sesqui-pedalibus ramulosis longtque paniculatis pnmft fronte diversum, ab eis et *H elongato* Lcdcb. iterum calycis mmuli lobis brevissimis subrotundis sessihter glandulosis discrepans. Habitus *B. Lydix* quod folns inajonibus tenuioribus formaque calycis prorsus differt.

Cliracteivs quibus el Spach *Drosantltes* genus ab *Hypenco* dutln-guit nee satis graves nec praserUm agmen naturale circumscribenies nuhi visi sunt, cjus species *Hypenets* sect. *Tcentocarpu* obabitu el characteribus simillinuD sunt, eas igitur in pi. Persicarum Kotschy et Synacorum mearum detorminatione ad *Ilyperica* reduxl et sic nominavi.

Drosanthe hirtella Spjcta — HIPEAICUV UIHTELLUM BoiSS.

Drosanthe fimbriata Spach — IIPEMCUM ASSYBIAGUM Spi< b

Drosanthe heltanthemotdes Spach — IIWEMCUV iBLIANTiiBiiDiift Boiss. — // *confettum* Chois. Mon Ilyp tab 9 nomen iniproprmm. Ilm; species Nul^iUssmia esl in collibus Antibbam, Damaso, Antiocbuu, Mcbopolamiu¹ ut lotiib I'ersix, varunB folhs vel coDvolutis vel plains diLilalis

GERANIACEÆ

GHRANIUM (LABKHBuum Boiss. el lleldr in p) Auat. 1846 (Sect. *Balrachivm.*)

G perenno glaberrlmm rhizomate crasso colloque petiolm fohorum vctustorum densè vcsiito folia caulesque erectos a medio dlcbotomos cidenti, toliis ambitu orbiculahs palmaUm ultra medium &7 fldis laciniiis basi cuneato-attenuatis obtusisumis 3-5 lobis lobis rotundabs subtruocatisve breviter mucronulatis radicalibus longè caulims brevitatis petiolalis, stipulis breviter triangulari-lanceolatis mfo-membpanaceis, ficdicellis demum divancatis, sepals sub leote miDuUssimè et parèt papiHoBis sspè glaberninis ovahs tnoerviis obtusis mucronatis aplice tiiliatulis, petalis obovato-spathulatis purpureis calyce plhsduplb longionibus ad unguis ciliatis, filamentis purpureis glabris, valvulis glabm raoutlssime pruinosis tofâ superllclo trans|erse reticulato-nervosbi.

Hab in Ossuris rupium montis *GheidaghTanrl* Isaurici supra *Maya* alt. 5300-6000' Julio (Ueldrelcb)

Habitus, modus crescendi et flores *O macrorrhizt* sed folk pul6 riitnora el ob laciniaa obtusissimas ea *G lucutt* potibs referentia lobis

obtusis mucronatis Dec ovalis aculis, valvulae told superllcie nee taniunr
ut ID *G. macrorrhizo* dorso rugoss sunt. Nee stamina neu slyh decli-
nata videntur, planta insuper glabernma esl nee tota pubescens.

GEHAMUM LASIOPCS Boiss etHeldr. in pi Anat. exs. 1846. (Sect.
Batrachium.)

G. perenne tolum pilis patulis densis brevibus tomentoso-hispidum
griseo-vireas tenerrimum, rbizomale crasso colloque vestigitis follorum
vetustarum densè vestito, cauibus folia radicalia paulfc superantibus
medium versùs foliosis dicbotomè 2-4flons, folus ambitu orbiculalis
palmatim usquè ad 3/4 6-6 fldis lacinus basi cuncato-alteuualis obtu-
sissimis suba:qualiter et rotundatim 3-4lobis, radicalibus longè cau-
linis breviter petiolatis, slipulis minutis tnangularibus longe ciliabs,
peduncus (lore 2-3 plò longioribus cauli xquicrassis, sepalis bispidis
tnnervus ovatis mucronulatis, petaln obovato-oblongis calyce duplb
longioribus in unguem parcè ciliatum senslin attenuatls, Qlamentis gla-
bns, vaJvulis oblongo-linearibus puberulis dorso transversè rugosis.

Hab in fissuns rupium Lycaoms micr *Ghehdost* et *Karagateh*
Jan. (Heldreich)

Planta 2-4 pollicarls, folia diametro polhcana formà suà ea *G. luctd**
referentla, flores eis *G. maorrrhxzx* minores. Species pulcra a prae-
cedenti eta 6. *macrorrhizo* quibus afflns estprlmà fronte pedunculis
elongatis birsutis crassiusculis distinguenda.

GBBANIUH CBENOPULUH BOISS. (Sect *Batrachium*)

G. perenne totum pills patubs albis aliis eglandulosis alus apice mi-
nutè glanduhferls bfspidummolle, radice cybndrico-fasciculatà, foliis
ambitu orbiculatis ultrà medium palmaUm òfldis partilionibus cuneatis
acutiusculè Inciflo-lobatis radicaibus longissimè peliolatis, caulibus
procumbentibus ramoslssimls, flonbus pedunculo eis longion suffulhs
rosets, sepalis adpressè et glandulosè birsutis oblongo-lanceolatis acu-
tusculifl mucrone longluscuro termmaUs, petalis roseis obovatis exun-
guiculatis basi utrinquè densè albo-ciliatis, filamentls basi subdilalatt
cillatulis, valvulis laevibus glanduloso-blrsutis caudft glandnloso-hirsutfl
suspensls, semimbus ovatis sectis hneas longitudlnales densè favosw.

Hab. secùs fontem et nvum e panete seplentnonali rupium POHO
pagum *Eden* Libani sitomni onundum. Legi Julio ineunte.

Hadice, habitu et charactenbus valdē affliite *G. aapkodetotdt* quod dilferl indumenta eglanduloso pdis rctrorsūni accumbentibus brevibus couland rarius versus jpiccm plants nonnullis glanduhs intermixto, sepalis longiis lantcolatis amtionbus, seminiLus ovato-rotundis, fo-voolis minonbus magis approximate.

EBODIUM CIMSIIEUU floiss et lfeldr in pi Anat ess. 4816.

E perrne totntn breviter el adprcssissinie cinereum, radios csespi-tosa; collu pedolis vctuslis incrassalo, caulibus exspite 3-3 p!6 longlonbus a wedio rnmosis tolios, foliis radicalibus dense congcslis petiolatis ambitu oblongis bipinnatiseclis launiis oblODgo-lineanbusacutis, caulmis scssilibus piniialisectis lacimis |>aueis, stipalis bracteisque scanosisi minimis, pedunculis um])e)lat)m 8-40flons pedicellsque le-juissimis flora 3-i plo lonyionbus iCDuissimu et |iatul6 glanduloso-bispidiilis, Hi'pdlis oblongo-elhpliois brevissimfi raucronulatis niffrovittatis parw *til* brovissime hispidulo-viscidis menibranaceo-margmalis, pemlis roseis oalyce duplb lon^ioribus, carpellis adpressu albo-villosis caudā longA adresse el eflandutosfc hirtā terminatis.

Hdb. in apneis argillosis inter *Gkehndost el Raragatch*, inter *Egyrdvr el Koniah Lycaom** (Heldreicl)

Valde affljne £. (*Hymptco et absinthodi* ah eis differ! indumento foliorum *et* caulmra adpressiasirao lion glanduloso, pi'dunculis multiflons, pedicellia eJongalis tenulsslmis, calycibus minonbus multo breviaa pareiQsque glandulosis

EBODIUH TITBBOSUM Boiss

E perenne pube bravi patulā eglandulosā pins imnos eopiosi cinereum saspe glabnusculum, radice elongatā durā in tubera solitaria vel plura incrassatā, uollo demum lignescenti csspitoBO-mnlttcaull, caulibus folia partim superantibus a medio parce ramosis, fohte radicalfnifr numerosis petiolatis ambitu ovato vel oblongo-cordatis subpalmalim bipiDiialisectis parLitiombus seeds rachidem latam decurreatibus lacimls brevissimis acutis integris vel 3-4 fldis, foliis caulinis brevids pctiolatis, stipulis brauteisque ovatis Bcarlosis, pedunculu umbel-latm 5-6 lions, pedicellis flore longlonbus fructiferis deflexis, aepalis oblongis nigro-tnvlitatis sub apico e tlorso mucronulalis mUis cillatis ~~membranaceo-marginalis~~, pftalis ovato-cuneatis roseis mfernt intense;

purpureo-marutalis basi Mbo-cillatis, carpellis adpw&è rufeRcenii-hirsutls caudâ long! hirtulâ terminatis aristis inlds longissimè rufescentl-barbatis

Var. «. *glabrtusculvm* —Folia viridia glabra vel pare* hlrlula, ranu nt tola plants pars superior glabri.

Far. j9. *canescens*. — Tota plaota pilis brevibus patulis albis dense et raolliler cana Forms intermedia inter eas vanctates occurrunt.

Hab. in lapidosis et rupestnbus lotiis Arabia petrese, inter *Suez* et jugum Sinaiticum in valle *Wad% ffatf* (Boiss), in ascensuastrahjuxt *Tih* copiosè, in montibus deserti vEgyphaco-Arabici legit quoque d Ilusflon

Pulcra species cujus radix Arabia edulis ost, foliorum dfvisione fonnas magis dissectas *B lamnuUi* Cav referens flonbus eis bujus tertiâ parte majonbus arislis carpcllorum 2-3 pollicanbus

EBODIDM HUSSONI BOISS

E perenne, caudiubus hgoosls elongatis squamosis, caulibus clon-gatts ramosis peliolisque sub lente breviBsimè tomentellis, foliis vindibus caroosK utrinquè parcè et minutissimè prulnoBO-tonwntelliK ovatis obliuBculw indmsis vel obsoletè wibtrilobis basi cordatis vel truncatis margins crenulato-crispis, radtealibus long6 caulinls minoribus breviter petiolatls margine acutlQs ciispiòsque denticulalls, stipulia maguis triangulan-ovalis nifescenf-membranaceis crassis tomentellis, peduDculis tomentos 4-6 flons, bracteis ovatis tomentos crassis rufo-membranaceis in\olucrum sexlobum sub flonbus simulan-Ubns, pedicelhs catyci squilongis, sepalis oblongis lomeolosis aplice brevissimè mucronatis, petalis o\ato-cuneatis calyce sesquilogionbus.

Dab. ad rapas calcareas deserti JSgyptiaco-Arabiui ad *Wadt-Arabah* cl. Figan, ad *Gebel Aohmar* propè Kahiram cl. HUSSOD.

Pulcra species babitu et fobis *E glaucophyllum* referens ab eo disUncta caudicibus llgnosis eloDgatis fobosia, caulibus abbreviate, slipulls et Impnmls bracteis crassis scanosis S *j% lm. longte S laUs, pedicelliB brevissimls, floribus duplb majoribus.

EBOOIUH PBLAHGONIFLOBUM BOISS. et Heldr. ID J. Anatal. 4H46

E. perenne vinde totum pills papillanbus nitfdis conspersum visci-duiuni, rhlzomate squamis potlolaribus et stipularibus vetuslis veslito, caulibus fragilibus ascondenUbiu elongatls ramosis, foliis tenens ra-dicibus longè petlAlatut ovato-cordatis obftnletè 1 lobw indiTlsisque

acutiusculè dentalis, sili ulis bratteisqur oblongis acuminatis valdè hispidis albo-membranaceis, pedunculis mnbclaiim 8-10 lions, pedicellis longfr hispidis flore triplb longionbus, sepalls oblongis albis vindi 3-Bhneatis ad coslas longe papUloso-ciliatis mucrone eis dimidiu brcvlor! terminalis, petalis obovatis basi subcibatis albis 2 inferioribus maculà purpnreà in quinque Hneas ramulosas supcrnè extensa insignmhs, carpclhs parce et adpressè hirsutw caudà adpressis birsnta cis quadrupl6 longion terminatis

Flab, in rupestribus umbrosiB et speluncis Isauriae, in vift inter *Karman* et *Ermenek* a< descensum montis *Gheltpel* propis *Ermenek* alt tire 3000' Junto (Heldrich)

Caules pedales, folia radicalia pctiolo 4-spollic. suffulta 8 polhces longa fere LatLim lata, (lores amaens'sind purpureo-pictl majorea et« *E hymenodis* prope quod noslra species collocanda

MONBOMA HISPIDA BOISS

M. pcrems basi suffrutescens tola virescenti-gnsca pihs patuhs longis albis hispidissima, caulibus clongatis sulcato-striabs ramosis, foliis ovatis obtusis basi rotundalo-tnincalis margine crispulè deoculatis supemu secus nervos hneatis subtus ele\ato-nervosis, pedunculis eltam infunoribus longissimis folia supenora mult6 superantibos 6-8 (Ions, pedicellis lnxqualibus tenuissimis brevius et adprcssius tair-sutls, flonbus parvis, sepahs adpresse camis obovatis nnicronatis, petalis..., carpellis adpresse et parce blrtis cauda longifisima tenmmtte, arisLis inlus longlsslmò albo-barbatis.

Hab. ad rupes gramUcas *Gebel Gareb* et *Gebel Dora* deaerti Thebaico-Arabici. (cl Ilusson)

Caules in meo specimine pedales, folia infenora poll, ferè looga 3/4 poll, lala, species afflnis *M nvoea* quftcum crescit et qua) dUbrt indumento fohorum adprcssissimè mveo, foliis miaoribuB oblongis utrinqufi valdf' hneato-sulcabs, sepalis eubmuticis, caudft carpellorum sesquipolhcem nee tres pollices longâ....

ZYGOPHYLLE^.

TBIBULUS SINAICUS Boiss.

T. totus adpressè villosa-canus, foliis Q-6jugis foliolis oblongis acatiusculis approximate, petalis oblongis calyce bfrKuto longioribus,

capsulâ 6 cocc&, carpellis setis brevibus aparsu obsitis dorso rotundatis scrobiculatis medium versus bidentate denibus carpelli lalitudinu brevioribus basin vends bidenhculatis

Hab. in deserto Arabico Inter *Kahiram* et Suez et in vallibus jupi Stnafttet

Haecplanta a vanetatibus incanis 7. *terrestns* quæ ID eâdem regione crescunt mihi specificè differre visa est carpellis dorso rotundatis scrobiculatis nee inter cornua carinato-cristatis, cornua pretereâ multb miDora suot lineam unam non excedentia duo Inferora ad rudimenta reducta sæpè evanida

FAGONIA GBANDIVLOBA BOISS

F. glabra, caulibus suffrutescentibus caespitosis intneatis, ramu erectis profudè quadnsulcatis, spinis quaternis validis teretibus viridibus aplice flavido-acerosis folia aequantibus superantibusve, foliis tnfoiio-jatis foliolis carnosis ovatis vel ovato-oblongis obtusis mucronulatis lateralibus paulè angustionibus subscquilongis, petiolo foliolis paulè breviori, pedicello calyci subaequilongo, flonibus magnis, sepalis ovato-oblongis longè aitcouato-acuminatis, petalis rosels calyce triplò longioribus, capsulft pedicello recurvo squilongâ pendulâ glandulooohlrtulâ rotundâ S carpellart ad costas acutè carinatâ stylo mucronaft

Hab. in dedivibus calidia Patestins areâ *St.Saba* ubl legl Oorentem Apr. 1846.

Damns vlx semipedalis, spins 7-9 Hn. longs, floras in genere manmi diametro B-4011n lati Valdè afilnis F. *molh* Del. — F *cxstotdi* Del. fn Dove et Schimp. pi. exs quam in vallibus Sinaitlcis et locis elatis desert! *Tih* abundè repen et qua differt hispiditate viscidâ, splnis dimidi6 tenuloribus brevioribusque folia non aqiantibus. Si tamen ulterior observatlo fa loco natal) eas specie! unicae varietates esse docaret tune nomen omnlhb inaptum F *mollts* relioquendum esset

FAGONIA THBBAICA Boiss mPinard pi. exs 4847

F basi suffrutlcoa dense damulosa glabriuscula viridis, ramis erectis nmosis sulcatis articulis brevissimis, spinis S-4 ms petiolos aquantibus superantibusve cyhndricis teretibus viridibus callo albotn nucroem attenuato terminatis supenoribus brevissimis, foliis pams inferloribus trlfoliolatis petiolo tereti aequilongis supra cum brevitet

stipilatis carnosis auliequaibus tercli-subtioniplanaLs oblongo-cylindrus obtusissirais callo albo brevissiniè mucronulalo lenumatis, foliis superioribus ad pctlolum breicm spins squilongum elsque simileni sed submutcum reductis ranks rt In specimimbus junionbus umfoliolalis foliolo lincan-lanceolato, floribus raediocribus purpureis, sepalis subpapillosis ovato-oblongis acuminatis corolla diroidlà brevioribus, capsul. lomentollà pedicello deflexo extremitate incrassato jrquilongñ dpresso-turbiDJtil stylo subsequulongo apiculatà, carpellis quinq; dorso obtuse airmails.

Hab in aronosis partis infenons vallis *Bxban el Uolouk* propè *Thebas* in ASgypto supenon ubi legi flor Januar 4B46.

Dumi lati pedem dimidium alti, spins sspè 3-4 lin longs scd plerumquè nralU) breviorea, flores magnitudims *F vuetda* Presl

FAGOMA KAHIBINA BOISS

¥ suffrutescens \indis parcfè et brevissimè visuldula, ramis quadranguis scebs planum honzonlalem dichotomè ramosissima, arlicullis brevibus, spinis binis quaternisve brevissimis patenti-subrrecurvis petiolos asqaantibus auperantibusve, foliis minimis tnfoliolatis petiolo foliolis sequllongo suffulbs, foliolis oblongis utnnque acutis mucronatis intermedio ferfi duplo majon, foliis suminis subsesbllibus mlnutissimis sspe ad foliolum umcum reductis, Oonbus ad dichotonuas et apicem ramorum sumiuorum pedicello calyce longion suffultis amonè et Intensè roseis, sepalis oblongis acumioatis tomentelhs corollfl quintupl6 brevioribus, petallis longè unguiculatis unguibus subexsertis, capsulis pedicello deflexo eis sspiiis breviorl suflultis depressè lurblnatis tomentellis stylo eis paul6 brevion apiculatis carpellis obluæ carinatis.

Hab in desertis ad oneutem *Kahira* sitis in valleculà quâdam rupibus circumdata fere sesquileucam ab urbe remoti. (Bous.)

F. GreUca Dehle. Cat pi. ^Egypti e loco non L. — *F. glutinosa* St'himp. pi. Arab. N° *bid* non Del

Omnium deserb specierum pulchernma, frondes 4-6pouices longs 3-4 laUe plans a terra remote horizontales nee ui In *F. glutinosA* hunii adpressoB et in arenâ subsepulUe, flores eos *F. CnUca* rerè aequantes, spinx 1-aim. tanlum longs. A. *F. OretuA* etifatinosAbrevitie spinaruni, foliis minutis etc. dislinctissima, magla afDms *F. Smmca* mes quod differt glandulosilato copiosà, ramulis magis sulcatis, foliolis subequalibus, flonbusmmoibus, pctalis olyec vixtrip!6 longionbus, etc,

FAUNIA MIRIACANTUA BOISS.

V. basi suffruticosae glabra vel ad folia et spinas brevissimè pubescenti-viscidula, ramis quadrangulis sulcatis diffusis ramosissimis Incais articulis longis, spinis quaternis longissimis patentibus accrosis folia multo superantibus, Cois sessilibus trifoliolatis foliis oblongo-linearibus subfalcatis obliquis et longè mucronulatis intermedio latiore longiorique, foliis superioribus simpliciter raonophyllis minutis, floribus axillaribus pedicello eis subaequilongis suffultis pallidissimè roseis mediocribus, sepalis puberulis lanceolatis longè acuminalis corollam dimidiam sequantibus, capsulâ pedicello deflexâ eâ longior suffultâ ovato-turbinatâ brevissime hirsuta b carpellari stylo subaequilongis apiculata, carpellis acutè ciliatis.

Hab. in vallibus *StnaiUctis* et deserto *Tth* ubi eam pluribus locis observavi, Aucher N° 798.

Gaulis procumbentes incais basi semipedales, spinis 7-14 pollicares, foliola majora 4-5 lin. longa vix lineam lata. Flores inter minutos generis eos *F. glutonosa* non superantes Species cum *F. Anbwd* verâ (Schimper N° 251) probabiliter id varus barbarus confusa, ab eâ egregiè distincta caulibus procumbentibus nec erectis densis, foliis nec peliolatis nec carnosus, ramis sulcato-quadrangulis nec striatis, capsulâ dimidiam minon.

FAUNIA BOMBILLA Boiss.

F. tota sub lente glandulis stipitata mimis obsita viscidula ramis procumbentibus abbreviate quadrangulis valdè sulcatis incais ramosissimis, intermediis brevissimis, spinis quaternis tenuibus acerosis erecto-patulis foliis duplo longioribus, foliis minutissimis peliolo foliis brevioribus suffultis, foliis terms oblongis carnosulis longè albomucronulatis intermedio paulo majori, floribus axillaribus minutissimis copiosis sessilibus, sepalis ovatis puberulis mucronulatis corollam dimidiam pallidè carneam sequantibus, capsulâ pedicello deflexâ eâ brevior suffultâ tomentellâ ovato-turbinatâ stylo eâ brevior apiculatâ, carpellis acutè ciliatis

Hab. In planitie excelsiori deserti Aegyptiaci Inter *Kahvram* et SUM et Inter *Suez* et *Tor*. Legit Hart 1846

Inter omnes generis insignita ramis abbreviatis 9-4 poll, longis, spinis tenuibus 5-8 lin. longis copiosis folia rainula occultantibus, floribus pallidis eis *F. glutmosa* etiam minoribus

PAGOMA ALESUISA BUISS.

b) glaberrima basi suffrutescens dumosa, ubi ramosissimis ascendentibus ramisque lateribus stantulis, lateribus longis, spicis quaternis longis patenlibus accrosis folia multo superantibus, foliola trifoliolatis petiolo foliola xquantum vel superantem suffultis, foliolis stigmatibus convolutis hinc atque tercibus in mucronem longiusculum alternatis, foliis axillaribus pedicello eis aequilongis suffultis magnis, spiculis lanceolatis mucronatis glaberrimis corollam roseam dimidiam XIX quantibus, capsula.

hab in Persia australi in *Djaooun* et *Darap* Auclier N° 4306 B, et forsitan in *Aucher* N° 4307 ex *Arabis Mascatensis* (foras abbyllaj).

Spicis paucis, foliola 3 lin. longa lines 3;4 vix lata, flores eos *F. mollis* vix asquales. Affinis facie et ubi arboribus *F. myrtacantha*: a qua minis leucis nec quadrangulis, foliis duplo majore egregie differunt.

hab in Arabia Australi Buisson in herbario pi. exs. 4847

F. yabra ante superne panis sub lunae puberula, caulis ascendentibus erectis basi ramosissimis dumosus ramisque quaternis stantulis, spicis quaternis tenuibus accrosis palulis saepius inaequalibus folia paulo superantibus, foliola trifoliolalis foliolo piano angustis lanceolato hinc atque clongato breviter et oblique mucronato pedicello sextuple longioribus, foliis summis sessilibus, foliis axillaribus pedicello cis longioribus suffultis minibus, sepals triangularibus lanceolatis papillis mucronatis corollam dimidiam pallide roseam squantibus, capsula pedicello deflexa ea duplo longioribus suffulta globoso-turbinata luteis stigmatibus brevi apicula, carpellis 6 acubusculis canoatis.

hab in arenosis sedibus cataraolis Nili supra *Assouan*, legi Juss. 484 et in *Nubia* superne Kolschy N° 342 sub *F. Arabica*

Gaulis basi prostratis sesquipedales dumosus extensus ennaeos formantes, spicis 16-44 lin longis, foliola majora 6-8 lin. longa 4-4;] lin. lata, floras illis *F. glutinosa* genuinae minores Speer in *Fagonum aimphicifolias* spicis etongatis foliisque parvis distincta, a *F. Olwun* cui magis affinis statim ramis non quadrangulo-sulcatis distinguenda.

Prater species supra enumeratas legi quoque in interioribus meo Aegyptiaco-Syriaco *F. glutinosam* in desertibus Kabinnis abunde occurrere ramis prostratis ut aliquando arena omni sepulsetur.

vuetsdam Presl. Bemerk.—/r *lattfoliam* Scbimp exB. N^B198 Don Deble qua a *F glutmosa* Qonbus paulo majoribus intensiùs roseis, foholis acutatiB cancsentionibus tantùm differt et probabihter ab eâ specified non distracta est. Hujus *F. vucida* In Arabiâ Judacae conlcrmlnâ observavi vanetatem flonbus eis *F. gluttnosa* genuins duplb majonbus. *F. Olivier** tandem legi in regione inter Antihbanum et Damascum sltâ non procul a *Souk Wadl Barrada*

ZYGOPHYLLUM DUROSDH BOIBB.

Z. fruticosum caulibus erectis a basi ramosissimis ramisque lignosis cplderniido albt fannosa veshtis dumum 3-5 pedalem intncatissimum formantibus, fohis ad ramos jumores brevissimos fasciculate adpressissimi cams, petiolo tcreti bifoliolato subpersistenti, fobolls **tereti-**subcompressis oblongo-bneanbus caducissimis petiolo pauld brevioribus, flonbus axillanbus solitariis pedicello calyci squilongo Buffulbs, sepalis membranaceis oblongis aculiaculis adpressè hirlulis, petalis albis angublè oblongis obtusis in unguem longum attenuahs calyce subinplO longionbus, capsuli pedicello est paulò longion patenti-deflexo suffultâ globoso-depressik ad axim usquè in 5 carpella stellallm divlsS, carpellorum dorso acuto In alam membranaceam eis subsequllatam ex* panso.

Hab. In andissimis deserti *Arabia petnai* In vilf inter *Nuclei* et *Gaza* Legi ineunte Aprill flonf. fructlferumque

Fohola a lin circ. longa petiolo 3 hn longo sed follolis tandem delapsls elongato et aucto suffulta, flores illis *Z. albi* et *coccum* dupl6 majores, capsula cum alls diametro 4-5 hu. lata. Species caulibus fruticeosls 3-B pedalibus florumque magnitudine a congenenbus desertorum. Arabicoruni distinctlsslma

RUTAGEIE

HUTA FUHABiiBFouA Boiss. et Ileldr. in pi. Cret cxs. 4847

B. glabra glanduloso-punctala gnseo-\lreus, caulibus suffrulosib tortaosis, ramis tenuibns erectis vel ascendentibub flexuosis ad apicem usquè follois, foliis longiusculè et tenuiter petiolatis ambitu oblongis

Lcuiissimu biplnalo-decomposilis pinnis a (olio niwlio ulnnquu de-
crusceDübuH foliolis minimis oblongo-obovahs In petiolulum atle-
nuatis, corymbis pauuiflons contractis, hracteis oblongis jcutiusculiK
pdonculo laUonbus, petalis cucullatis obtusis longe inarginc flm-
hnalis in uüigaum subilo contracts, capsulae lobis acutis

Hab in frulicetis propè comcatuin *Megato Monastvrinon* proctil a
promonlono *Stdero* prov *Sitia* CreUc (Held. Maio 4846)

Caules lignosi ramos tcuissimos semipedales vel paul6 longiores
cdciiles, folia majora cum petiolo bipolbcana lobulis sesquilmeam clr-
citer lougis Aflms 71 *bracteostp el R angustifolun* ab utrâque disce-
dens ramis granlibus folusqur tenuissimb dissectis, prior iLctun dif-
fert rapsulis acuminatis, posterior peiolis crassis ramisque supprnc^l
nudis

HAPLOPHYLLUM SYLVATICUM ItoiSS

II perennc glabernmum flavo-virens multicaule dumulos uxlensoft
formaus, caulibus urccua simplicibus terctibus rubeUis dense foliosis
apicc dense corymbosis, folils omnibus sparsis strictis obloDgo-lan*-
ceolatis utnnquè altenuatis acutis, coryinbi ebracteati ramis pedlcel-
lisque glabm \el breviter puborulis, calycis glabri minutissimi lobls
tridnguJari-ovatis acutis corollâ sextuple brevionbus, petalis amplis
ovatis aculiusculis subcucullatis, filamentis filiformibus sylum subsu-
perantibus e basi sublation Inttus barbata senalm atteiiuutis, ovario
glanduloso ecoronato glabro

Dab. in aylvaticfs regionibus alplnx montis *Geuan* in dedivitate
austro-orientali, lcgI Jumo 1846.

Durai e caulibus centenis numerosionbusque consumes pedales vel
scsqipedales, folia 1-4 4/S poll, longa 4-6 bn. bla, floras e maiimls
genens, species pulcherrima ab // *suaveolentt* cui maps affinis dls-
tincta glabntie, filamentis basi vix labonbus, calycis lobis acutis glabris.

HAPLOPHYLLUM VULCANICUM Bolss. et Heldr. in pi. Aootol. exs.
4846.

U. percnac pluncaule seeds caules margines et nervos foliorum
brevissemè tairtellum caeteriim glabrum, caulibus simpheibus leretibus
foliosis apice laiiuscule corymbosis, folns omnibus sparsis ovalu-
oblongis sessilibus uLrinqu[^] altenuatis aculis glanduloso-puucUlis

subtilis prominenter nervosis, corymbi bracteati ramis viscidis sparsis
bracteis hinc obtusis ciliatis, calycis basi linearibracteolati lacini ovatis
bispiculis acutiusculis, petalis pallide ochroleucis linearibus obtusis
calyce quintuple longioribus, filamentis e basi subdilatata longe ciliatis
attenuatis filiformibus, ovario albo-villoso

Hab. in arcibus vulcanicis montis *Karadagh Lycaonia* in regione
interiori ad ruinas urbis *Larenda*. (Heldreich)

Affine *H. fimbriatulo*, *myrtifolium* et *sulphureo*, prae differt in
indumento tomentoso, foliis angustis hinc obtusis, petalis abbreviatis,
H. myrtifolium distinguitur foliis obovatis obtusis enerviis, *H. sulphureo*
demum distinctum est loco deposito totius plantae, foliis
obtusissimis, petalis ovatis

HAPLOPHYLLUM ARABICUM BOISS

II glaucescens glabrum vel breviter et parcissime hirtulum, cau-
libus decumbentibus ascendentibusve ramosis supernè ramisque glandu-
lis prominentibus scaberrimis, foliis obovatis vel oblongo-lanceo-
latis glandulis plerumque minus proradicantibus obsolis basi attenuatis sessili-
bus, corymbis terminalibus laxè dichotomis paucifloris, floribus saltem
terminalibus pedicello eis longiori suffultis ebracteatis, sepalis ovatis
albo-membranaceis ciliatis, petalis calyce quadruplo majoribus
intense flavis ovalibus obtusis, filamentis basi dilatatis ovatis
superne attenuatis setaceis, ovario inter glandulas albo-bisnatis.

Hab. in valle Fatme prope *Meccam* Sdjimp. Arab., fol. N^o 943 sub
R. tuberculata

Var. «. — Folia minuta obovata 3-5 lin. longa valde tuberculata
obtusata

Var. /9. — **Folia** oblongo-lanceolata 1/2 pollicum videntur super-
riora acutiuscula.

Hæc species a *R. tuberculata* longe differt floribus duplo majoribus
pedunculatis nee subsessilibus, filamentorum basi parè birtulatis ovatis
nee triangulo-lanceolatis, ovario villosis, nee cum ullâ alia specie con-
fundi potest. Ambo forma? a me descriptis quamvis facie dissimiles
floribus et characteribus mirè congruunt

HAPLOPHYLLUM LONGIPOLIUM Boiss

H. perenne multicaule glaberrimum viride totum glandulis promi-

mentibus creberrimis scabrum viscosum, caulibus strictis virgatis elongatis strictè rarioais, folus sparsis longissintf et angustelineanbus margin? facie snpenon convolulis denticulate-crispis basi sulwttcnuatis incurvis obtusis, corymbis lermmalibus dichotomis confertis miDutis cbractcatis, scpalis ovatis oblusis glabernmis, petahs intensè flavis oblongis obtnsis, Glamentis infernu dilatatis lanccolatis Intiis to-raentosis cxlus **glabns** ad apicrm partis dilataUr 3-4 glanduhs obsitis, parte supenori setaceo-altenualis, ovano glabnuscuro glanduiosissimo

Hab in vallibus calidissinus inter *St Saba* et *mare Mortuum* sitis, legi Maio 1846

Gaules pedales, folia inferiors $l-\% \backslash ji$ pollicana hncam ant pauVi amplitis lata, superiora breviora magis convoluta, floras eis *H ttiber-culati* raajorcs, eis *H Buxbawiw* minores. Species folns angustissimis denticulatis distinclissima

HAPLOPIITLLCU CANALICULATUH BOISS

II. giaucmn, caulibus rectis virgatis minutè et obsoletè glandulige-ns rainosfs parcj^ foliosis, foliis carnosis aogostè lineanbns elongatis suprâ canaliculato-concavis subtbs convexis obtusis Internè attenuatis parcè glandulosis supremis senslm diminutis lineari-filiformibus, corymbis terminahbus pauciflons capitato-confertis, flonbussubsessilibus, sepalis glabris tnangulanbus obtusis, petalis pallidè ochroleucfs ovatis calyce vix tnplb majonbus, filamentis eglandulosis mfern^ dilatato-lanceolalis facie exteriori giabns inferiori hirsutls supenx¹ setaceo-attenuatis, ovano birlulo

Hab. in *PerstA avstralt* Aucher N° 434 4

Caulcs elati virgati flrmi, folia sparsa 4 \\t poTlicaria inferiora 4 hfi Hn. lata csctera multò angustiora, corymbi vix nnce avettanâ majores Afflne *H long\folto* a quo differt caule non glaoduloso-scabro, foliis non denticulatis, corymbis capitatis, eglandnlosis

B. glabrum DC. eadem species ac **ejna** *H. duihotomwn* esse videtur



DIAGNOSES

PLANTARII OmRNTALIU NOVARDM.

PAHISUS. — TTPIS MABGI DUGLOUX ET CONS.,
VIA fcOLB-Dft-MfoEOINR , BO

DIAGNOSES

nmwm **ORIENTALUM NOVARUM**

N- 9.

AUGTOBE

B. BOM88MBR,

Soo. PBTB. GINBV. SODALI.

~~XXXXXXXXXX~~

PAH18IIS.

TYPIS HABGI DDCLoux ET CONS.

VIA ÉCOLE-DE-MÉDECINE, 60

1849

DIAGNOSES

PLANTARUM ORIENTALIUM NOVARUM.



RHAMNÆ

RHAMNUS CORNIFOLIA BOISS et Hohen. — Planta sub hoc nomine in planis Helderichianis Anatolicis e monte *Ghetdagh* Isaans distributa ad hanc speciem non pertinet sed ad *Bh. Sibthorpumwa* R. et Sch. — *Rh. pubescentem* Fr Grac non Poiret qui quoque in rupibus calcareis Libani crescit

PISTACIA PAUCIFLORA BOISS

P. fruticosa, foliis deciduis 4-5-jugis absque impari, petiolo subquadrangulo ut et rami juniores breviter et crispule puberulo, apice inferiori foliola supra mucronem setaceum hirsutum ciliato decidua abeunda, foliolis ovatis vel oblongis obtusis longiuscule setaceo-mucronatis vel acutis in mucronem attenuatis basi semper rotundatis brevissime pinnatis inaequalibus junioribus tenens adultis subcoriaceis utrinque et supra praesertim in nervis parallelis multinerviis venisque pellucidis margine breviter hirtulis caeterum glabris, floribus..., racemis fructiferae super ramos vetustos nudos sub foliis gregariè cernuis et ex eadem gemmae plures elongatae ramosae flexuosae patulis, rudibus ramis tenuibus et sicco angulatis patulis, vel refractis, fructibus rubellis pedicello eis squilongo suffultis oblique ovato-rotundis obtusissimis oblique et breviter mucronatis

Hab. in *Juda* et *Galtia* Boiss

Frutex affinis *P. terebintho* quae a nostris specie differt foliis jugatis cum impan, foliolis brevibus mucronatis basi squaribus, racemus fructiferis brevioribus crassioribus rectis strictis, fructu rotundato subcompresso aequali — *P. Atlantica* De Prodr quoad plantam e Byzantio a planta Fontanesii plane differt petiolis margine acutis vel alatis, foliolis oblongis obtusis mucicis nee anguste oblongo-lanceolatis acutiusculis et ad *P. myrticam* ¥ et *M.* specialis quae arbor 50-70 pedalis est comit densissima rotunda nolihiis, in Oriente omni a regionibus transcaucasicis ad Aalam minorem et Syriam usque frequens.

LEGUMINOSAE

GENISTA MELIA BOISS

G. fruticosa patula densae ramosa ramis lenticulis rigidis brevibus lenticulis sternalis aucta in fructu crebre spinosis, spinis brevibus patulis subincurvis inferne striatis folia floresque ferentibus apice breviter acerosis, rariis novellis ex axilla foliorum deciduorum apices superiores fulcitur onundis flavido-scinis, foliis simplicibus minimis hirtulis cuneato-ovatis raris vel in gemmas sessiles floriferas sectis spinas superiores dispositis vel secus ramulos novos sparsis et tunc oblongo-linearibus breviter acerosis, stipulis gemmarum in angulis fere obsolete ramorum Juniorum tubulato-spinosis flavidis, pedicella e gemmarum centra sublimis calyce paulo longioribus apice vel sub apice bibracteolatis, calycis albi tubo glabro campanulato angulato dentibus tubo brevioribus triangularibus margine hirtulis subaequilongis superioribus paulo longioribus, corollam glaberrimam, vexillo oblongo subretuso basi attenuato-stipitato striato albis canaliculis longioribus, legumine lineariter glaberrimo piano toruloso subarcuato 3-4 spermo basi angustato apice breviter mucronato ad marginem semilobato prorsertim strangulato.

Hab. in Insula *Melos* Archipelagi. (Herb. Fauché.)

Species foliorum minutie formae leguminum affinis *G. Corsica* qua ab ea differt ramis gracilioribus, spinis tenuioribus saepe furcatis, stipulis non spinosis, foliis mucicis etc. *G. sphacelata* Decaisne longius distal ramis atropinosis, foliolis in squamis mgras mutatis, venis pilosis, etc.

GENISTA CABSU BOISS

G. suffrutescens pumila cespitosa, caulibus procumbentibus, ramis erectis simplicibus brevibus tenuibus stantibus longè et patulè hirsutis spinescentibus, spicis tenuibus glabris simplicibus vel tripartitis apiculatis in mucronem longiusculum acerosum abruptè attenuatis erecto-patulis, foliis sinuatis stipulatis hinc lanceolatis acutis muticis margine patulè et longè ciliatis superlongis lineari-setaceis, floribus in racemum terminalem brevem pauciflorum apice spinosum dispositis brevissimè pedicellatis, bractea ad basin pedicelli setacea calyci subaequilongis, bracteolis sub calyce binis hirsutis tubo calycis aequilongis, calycis tubo glabro lacinis setaceis hirsutis tubo longioribus, vello glabro alis glabris squilongo, canna recta obtusa venis longioribus ad auram hirsutis ceterum glabra, legumine .

Hab. in regione montana Cassu Syriae borealis ubi legi flor. Junio.

Affinis characteribus *G. Anatolica*. Boiss. — *G. Orontica** Jaub. et Sp. qua differt indumento tomentello, dentibus calycis basi dilatatis, vexillo cannae exteius tomentellis etc.

GENISTA LIBANOTICA BOISS

G. ternis, caulibus brevibus lignosis prostratis vel humo sepultis, ramis brevissimis foliosis simplicibus valde angulato-stratis pins rigidis adpressis parvis obsolis cespiteris vix pronuntem formantibus, foliis simplicibus sessilibus oblongis vel oblongo-linearibus obtusissimis immixtis crassiusculis uolnerviis pilis sparsis adpressis margine obsitis, stipulis brevibus subulato-spiculentibus, floribus 4 ad ramorum apicem sitis, pedicello tubum calycis aequanti basi bractea setacea eo longior apice 3 bracteis brevissimis ciliatis obsito, calycis obconici parvis bracteis lacinis a basi sublinearibus tubo brevioribus tribus paulo longioribus angustioribusque, corolla glabra, vexillo carinam deflexam aequantibus alis brevioribus, legumine juniori parvis et adpressis birtulo piano oblongo-elliptico 4-9 spermo basi attenuato acuto mucronulato.

Hab. in summa convallibus herbis siccis Italiae Buprt cedros alt. 7000'.

Hab. 4-1 pollicares, folia 1-3 Itaeas longa. Affinis *G. Ammoria** Ten qua simili foliorum forma gaudet sed birtulo duplo majore

res, caljris denies hasi late Injngularcs Hi Miq* modo <rew,endi fere *Saltcis herbarem insignis*

GENISTA ANTIOCHIA fioiss

G inennis suffruticosa, tauhbus aDbraialis <st cudeutibus >el pro-cumbentibus ramos numerosos credos urgatos louucs fuhosos ele-talo-striatus glabros. himpliccs ^el supernc paru¹ paniculatos cden-tibus, folns simpheibus auguste linean-lanceolatis umnemis basi et apice attenualis in mucronulum flaMdum abeuntibus juniunbus ad-pressmsoule pilosulis adukis glabns, stipulis lun^iuslulii, subulato-spmosis, flonbos racemos densiusculos termmales subsecundos for-mantibus, pedicello birto cauce breMon bracteâ setacc.i eo longion suffullo, bracteubs buns setaceis sub caluce sitis ojus tubo pauli) bre-vionbus, calycis atlpresse et parce hirtuli dentibus tnangulan-lan-ceolatis subxquilonis tubo paulo brcvionbus, corolla glabra, >ullo alis carmâque deflexis \i\ longion, legumme glabernmo linean piano recto 3-b spermo basi attenuato apue mucronato ad margmeni semimferam scepc irregulariter undulato-substrangulato.

Hab in summis collibus quibus ruinae arcis *Anttoehus* insideni in Syriâ boreah Legi florif Jumo

Suffrutex fere pedalis, folia G-8 lin longa \- \ I;S lata, stipulx circ lineamlongx, floras i lin longi Proxima G L^ACBBOISS —G. *leptophylla* Spach qus differt folus paulo lalionbus bre\ionbusque obtosis, stipulis dimidio brcwonbus, flunbus majonbus, legumine longion sesquilineam lato ad semina toruloso

GENISTA PESTALOZZB BOISS

G caulibus prostratis lignosis tortuosis ramos breves flhformes coespitosos elevato-stnatos edentibus, ramis novellis flavido-velutinis, **folus** minimis simplieibus oblongo-obo\atis obtusis basi allenuatis **facie supenons conca^iusruhs utnnquè sed subtus densms patul^ flavido-hirsutis puhino hirsuto insidentibus estipulalis, flonbusi-3 ad ramuloruni apicem pedicelhs birsutis cal\ci :equilongis suffultis e gemmis fohorum onundis, braeteft brarteoiisque nullis, eahcis patulfe et dense flavido-tomentosi dentibus supenonbus binis tnangularibus tubo aequilongis labio infenon paulo longion ad medium usque tn-dentato, \exillo carlnAque aequilongis extûs senrris, alis glabrls bre-vionbus, legumine**

Hab in monte *Bereket Dagh* L¹ cis ubi legit r^l **Pestuloza**

Suffrutex ternr adpressus ramis \i\ polluem lonpis lnrivalis, folia majoravix. 2 lineas lonua, flures | *Ijt-b* hn lungi Afluus *G pulchella* Vis quf differt induraeritu adprcssion senteo nee pilule lomentello *G albuia* el *G Monbretn* folns serum 3-3 plu majonbus longius disLinl

CITISUS CBETICLS BOISS *vl* Heldr in pi Cret exs 1847 (Seel *Tuhocytisus*)

G suffruterosus dutnosus, ciuibiis 1 rassis rot tit a lwsu ramosissimis, rainiM brtMibub strutis terelibui ileiuin ramulosis ramulis ngidis corlitc rubellâ \eslitis III spinas \alid.is abcunlibus, foliis minulis tnfoliolohUis, petiulo fuliolis .cqmlongo foholis o\atis obtusis crassiusculis in pcliolulos breMssiniusalenuatis supra glabris **subtus** adpressissimi¹ et pjree benceis, flonbus mi nulls III foliorum **gommis** bOltarus raecmos terminales breves pauoiforos o\alos furniantibus, pedicello senceo i-bracleato tubo cjhçis irquilon^u 1 aljci iudpresse hirsuti campanulati ad tertiam partein usque bilibi.ili labio superior! ad tertiam parlem usque bilobo dentibus late truiigulanbus, mferion subbre\ion ad lerllaoi partem llssso dentibus lmeanbus \illo conunentibus, \e\illo pliealo valde incuno ad marginem supenoreni hirsulo xterhm plabro alas carmamque incunani c>mbiformeni i'\cedenti, stlgmale recto minuti- capilato li'guinine jumon longo recto angustc lmean longe ot adpresse albo-hirsuto

Hab in rollibus dumosis *Cretw* inter *Mitldom el Damasla* Eparrhiae *Mylopotamo* Ieldreiuli Flurct Apnli

Pedalis aut elatior scopane et stru'ffe ramosissinius. folia cum petinlo lineas ires longa, ca\| tire 3 hn , torolla 5 longa Inter *Tubonjtisos* ramulis stnctis^imis, flonim folioruraque minutu¹, coroll.i e\imie enr- vatâ insignis

CYTISUS GASSIUS BOISS (Sect. *Tubocytisus* >

C. fruticosus, ramis erects densis ramulosis t&reubusht\ibus ^ a-bris nigncantibus, ramulis foliosis juoionbus longè et adpressi; sericels, foliis trifoholatis jumonbus subtus adpresse hirsuiis tandem (dabris, petiolo crassiusculo piano foholis dimidio breuon. folioli« ovalo-oblongis oblusissimis mucronulatis hasi in peliolulum **attenuati**

uoinerviis, flonbus ad ramorum apiceni capitato-congcsbs, pedunculo lubo calyas squilongo basi bracteà birsutiSBimà tinean ei aequUongà apice 3-3 bracteolis birsutissimis suffulto, calycis patulè birsutissimi labio snpenori In 3 denies tngulares divWo, infenon paulò loDgiorl angustionque in tres denies lineares flsso, corolla.... , leguminibus S-S capitatis linearibus patulis subincurvis nee basi nee apice attenuatis acutiusculis breviter mucronalis lanfl densi adressà vestilis 3-4 spermis

Hab. in sylvalids regionis inferiors *Casst* in Syrià boreali, leg] fructiferum Junio.

Frutex6-i0pedalis, foliola foliorum majorum drc. 6 lineaslonga, legumina fere pollicaria 3 f% lineas lata. AfUms *C. erwcarpo* Bolss. qui differ! induroento fohorum el ramorum patulo non secedenti, petiolo tenuion foliolis squilongo, calycie labio supenon indivlso, legumine longion planion apice mamfelliis atenuato.

GYTISUS DBEPANOLOBUS DOISS (Seel. *Tubocytuus*.)

G. fruticosus humilis, cauhbus tenuibus teretibus virgaUs Inferafi nudis supernè corymbosé ramosis, ramis teouibus erecto-patulis adpressissime el tenuiter pilosis, foliia tnfoholatis petiolo foliolis paulò breviori suffullis Infenonbusrainonbus, foliolis oblongisvel oblongo-ellipticis ulmqùè attenuahs suprâ glabns subtñs parcè et adpressissimè pilosis pallidè virenlibus mfenonbus oblusis supenorlbnis acutiusculis mucronulatis, flonbus in capilulos deasos mulifloros termioales follis supremis bracteatos aggregalis, pedlcellis tubo calycino brevionbus basi vel medium versus bracelei eis vix longiort el ad apicem 4-3 bracteohs oblongo-hneanbiis obsiis, calyce campanulato pilis sparsis adpressissimis obsito ultrâ medium bilabiato labio supenon ferè ad medium usquè in 3 denies e basi triangular! subulatos dmsò, iofenon apice attenuate in 3 dentes lineari-setaceos flsso, corolla albida, vexiUo secùs marginem saperiorem adressè birto aEteriim glabro ovato retuso alas cannamque glabras superantl, stigmatè capitato extrorsùm subdeclm, legumine llinearl pianissimo falcato patentl-recurvo adpressissimè piloso margine sospè undulato obtusiusculo mucrone brevi terminato 48-45 spermo

Hab. in regione sylvalicà *Catni* cum prscendenti Legi Horif. Junto.

Suffrutez 3-4 pedalis corymbosé ramosus, folia foliorum superlormn K 6 linens longa, capitula 9-41 flora nucem avmantla, calyx 4 linen

IODgus, legumen 49-45 Un. longum *i* latum. Affinis *C. ehrytotoho* et *Austriaco* ab eis calyce abbreviato legumine insigniter falcato distinctus.

PODOCTISUS Boiss. et Heldr.

Calyx membranaceus campanulatus bilabiatus labio superior! ovato obtusissimo breviter fluso dentibus triangularibus, inferiori longiori apice minute tridentulato pennis ovato recto dein basi tandem laeviter attenuato oblongo-deltaideo deflexo deciduoque. Vexillum orbiculare obtusum subreflexum abnupte in stipitem brevem basi attenuatum carinae aequilongum. Alae libere caninae subbreviares oblongae latere superiori rectiusculae inferius incurvae mernae utriusque eximie plicate abrupte et breviter stipitatae. Carina incurva apice ascendens attenuate acuta bidentata latere superiori concava inferius convexa basi abruptiuscule et breviter stipitata. Antherae impares glabrae. Ovarium anguste uncinatum gibbum longe attenuatum-stipitatum 6-9 ovulatum. Stylus super ovarium angulo recto insidens. Stigma terminate rectum capitato-discoideum papilloso-clavatum. Legumen planissimum foliaceum oblongo-lineare bicatum basi attenuatum longiusculumque stipitatum laevigatum sutura utraque in alam integram latiusculam dilatatum, senaria exarillata. — Frutex acaulis facie *Oxytropis munita* vel *€ angulata* Boiss. ab omnibus Genisteis fructu indehiscenti ulnne late marginato generice disunctus.

Podocmsus CABANICUS Boiss et Heldr. in pi. Anal. exs. 4846

5. glaberrimus glaucovirens, caulis virgatis tenuibus subterribus teretibus foliorum decurrenti-paniculatis et obsolete striatis-foliosis superne ramulos floriferos parvis foliosos abbreviatis erecto-patulos edentibus pyramidato-paniculatis, foliis trifoliolatis exstipulatis peltatis foliolo longiori vel squilongo suffultis supremis subsessilibus minoribus; foliis breviter petiolulatis obovatis obtusis vel truncatis mucronulatis uninnervis, floribus in racemos terminales nudos abbreviatis dispositis imitantibus, pedicello teno curvato calyce longiori basi nudo apertem venter -i minute bnctolato, calyce viridis labilis nigricanti-

margioatis, corollâ flavft, tegumine 3-9 spermo in stipitem tenuem calyce vix longiorem atteouato apice rotundato breviter mucronulato alis utnnt! diametro loculi quadruple angustionbus extenon (marginis semimferi) solâ a loculo nervo elevato separatâ, seminibus nigris compressis

Hab. in collibus apncis Taun Isaurici in valle flu\ n *Djokau* inter *Karaman* et *ErmenekYL*. Junio (Heldreich)

Caules e incis specimimbus fere bipedales, foliola 6-9 lin looga, rami flonfen 5-3 polhcarcs 6-9 flon terminalis longior, flores vexilli forma POS *Colutea* sp. referentes sed minores, vexillum Im 5-6 longum 5 latum legumen 15-18 Im longum 4 1/2 — 5 latum

LLPINUS LEUCO3PREHUS BOISS

L annuus, caule erecto, folus petiolo piano adpressu hirsuto apice ad petiolulorum msertioncin subdilatatoflavo-sertceo foliolis longiorlsuffullis, foliohs 7-9angusti' hneanbus ex apice tmncato vel retusosensim attenuatis brevissimè peliolulatis suprâ glabns subtûs sparsim et adpressissimo hirtulis margine supernè subconvolutis, stipulis lincanbus, flonbus alterms ID spicam laxiusculam oblongam dispositis, bractete ovato-oblongis mucronatis calyci sequilongis cit6 propè basin truncatis dcciduisque, calycis adpressmscule birsuli labio supenon ad basin ferè usque in 2 denies tnangulares aculos fisso, inferiori fere dupl6 longum acutiori apice minute tndenticulato, bracteolis linearibus minulissimis utnntquè tubo calycino ad labiorum basin adnatis, vexillo erecto plicato alis carnaeque squilongo, alis carinft incurvft acutâ ferè duplò lationbus, legumine oblongo subtnspermo inter semina substrangulato birsuto nervis elevatis longitudinaliter anastomosantibus irregulariter reticulato, seminibus legumioe dimidib angustionbus Isvibus albis breviter ovatis linmaculalis

Hab. ID Hispami propè *Uatntum* (herb. Pavon.)

Similhms *L angustfoho* ab eo ex. specimimbus a me visis sat differre videtur foliohs paulo lationbus 4 1/2 IID. labs glabrescentibus, bracteis brevionbus summis alabastra non superantibus, Inprimis legumine majon 45-48 lin lougo 6-7 lato, seminibus majoribus plsi magmludine albis ovato-globosis nee vanegatis ovafas latereque Rupe non concaviuBCulis. *L. hmfohus* Roth quem e descriptions tontdm novi seminibus vanegatis legumine tertfaparteangustioribus globoals diversus qnoqur videtur

LUPINUS PHIMSTOII Boiss

L. annuus, caulis erectis simplicibus vel basi ramosis pumilis foliosis in racemum pauciflorum petiolis foliorum supremorum brevioribus abeuntibus, petiolis plamusculis foliolo longioribus basi 2 stipulis lanceolatis elongatis auctis, foliis 7-9 angustissimè linearibus apice truncatis basi in petiolum flavido-hirsutos subattenuatis, floribus sessilibus minimis, bractea oblonga hirsuta calycem subsequenti, calycis adpressè hirsuti labio superiore bipartite dentibus triangularibus acutis, inferiori longiori lanceolata acute integro, bracteis oblongis minutissimis vix perspicuis utrinque inter labia tubo calycino adnatis, corollae cseralescenti calycis duplo longior, vexillo alas cannamque aequanti, alis cannae angustae acuta parum curvata vix latioribus, legumine hirsute 5-6 spermo toruloso acuminata, seminibus 3 diametri leguminis occupantibus griseis nigro reticulatim maculatis lenticulari-subcompressis

Hab in cultis regionis Philistinae inter Gaza et Ramla, logi Apr. 1848

Planta semipedalis, foliola 6-9 lin longa lines 1/8 lata, corolla cum calyce hirsuta tantum lata, legumine 15-18 lin longum 4 latum Semen 2 1/2 hirsuta longum latumque AfBms quoque *L. angustifolium* ab eo videtur distinctus floribus minoribus 3-5 in racemos brevissimos confertis, corollae calyce duplo tantum longiori, alis angustis, cannae parum curvatae, seminibus lenticulariter compressis

LUPINUS PALAESTINENSIS BOISS

L. annuus pluricaulis, caulibus pumilis patulis et longè hispida, petiolis hispida folio plures longioribus, foliis obovato-linearibus obtusis inferè attenuatis complicatis utrinque adpressiusculè hirsutosericeis, stipulis setaceis elongatis, floribus in 3-5 verticillos terminales remotiusculos 6-6 flores saepe basi irregulares dispositis, pedicellis calycem squantibus, bracteis linearibus citissimè deciduis, calycis basi gibbi flavido-hispidi labio superiore ad 2/3 usque in dentes basi triangulari linearibus subulatis partite labio inferiori paulo longiori lanceolato acute integro, bracteis hirsutis setaceis inter se labia tubo calycino adnatis, corollae pallide flavida caeruleo tincta, vexillo ovato obtuso alis et cannae squilongo, cannae angustae hirsutae apice violaceae acutae angulo recto profè curvatae, legumine flavido-pannosissimo recto

lalo-linean .icnniiiiato, seimnc (Immaluro) tautum secus peripheriam
vermiculatim tncrculato

Ilab in cultis regionis Pbilistaeorum cum pracedenti et ID Arabia
Palacitina; eontermini

Scimpedalis r.inus pednlis, fohola pollicana apice 3 lmeas lata, verti-
cilli floruiu 1>011HCUT(C1 sesquipollicein invicem reinoti, pedunculi J-4
lincas longi, (lores eis *L varn* paulb mmores, Icgumcn fercbipolhcare
5 lincas liitim Aflnis *L vano* qui differt folns lationbus, indumento
totius planbe adpression, labu supcrionsdenhbusbrevioribus mfenori
ndentalo, floribus cacruleo-violaceis brevids pedicellatis minds regu-
lanter \ertiu!latis, oaruiâ curvaU nn angulo fere recto infracU *L*
FonkahletUom —*L digttatus* Forsk Visun ^Ggypt tab, 5 quern
in iGgypto superior! abunde legi est planta mult6 major foholis am-
plis oblongis, corollâ intense cacrulea, vexillo bnsi flavo-maculalo, can-
nâ cymbiformiter incunâ apice iruncaU.

MEDICAGO LACIMATA All var *brachyacantha* Boiss — Fructus
minor, spinac diametro anfracus sirpius raultb breviores, stipulx acute
denticulats nee pinnalifldaE.

Ilab in arenâ mobili deserti *Arabue Petrea* cum *Hippocrepide* eor-
ntgerA Boiss , ad *Wad% Hamme* Stbimper N« -196

MBDICAGO GVLIL^V Doiss

M annua glabnuscule, caulibus elongatis ramosis angulatis sulcatis,
stipulis semisagittatis acutis latere extcnon profundè et acutè denti-
culatis, petiolo patulo deflexo planmsculo foliolis dimidi6 brevion, fo-
holis ovato-oblongis parallele nervulosis circumcircâ argutè spinuloso-
denticulatis denticulis ascendentibus margme subinrrassatis, foholo
supenon pcliolulato, peduncuhs 8-4 flons folio paul6 longionbus,
Qonbus minuUs intense flavis, calyce glabro, vexillo alis cannâque
dupld longion, legumine depresso subrotundo glabro anfractibus
quinis laxiusculè incumbentibus superfine elevatim reticulato-venosis
margine obtusis distichè et bonzontaliter spimferis spinis tenulbus
tenens acutis ob situm bonzontalem inter se intricatis anfractis dia-
metro tnplo quadrupl6quo brevionbus sulcato-bicrunbus crure pos-
teriori in venam obliquam anfraefhs superficiei abeunte

Dab. in herbisplamtiei *Esdnelon* Galilxs, legi Maio florentem.

Legumon drc *h* <;S lin diametro latuin, pericarpio tenui subchar-

taccu, epmis uon puugentibus. Species spmis bonzontalibus nee in piano lufractuum sitis insignis, bite notâ *M rotatam* cum qua crescit referens sed bxc cgregit differt spims brevionbus obtusis crure posteriori in venam non alieunti, anfractus superDcie obsoletè reticulalâ, stipuhs basi pinnatifldis, foliolis truncatis supernè tantâm dentaUs, etc

MBLILOTUS ARMENA BOISS, (Sect *Calorutis*)

M bienms glabnuscule, caule elato angulato virgato ramoso ramisque dunusculis stnclis, foliolis oblongis obtusis argutè denticulatis elevatimet parallel ncrvulosls terminali majori peliolulato, stipulis sctaceis intogernmis pctiolo dimidio ajquilongis, racemis laxis denique elongatis, pedicdlis calyci xquilongis bracteoU setaccâ suffullis apice cunalis, floribus nutantibusfla\is, vexilloalas carinamque paulo superanti, alis curvam xquantibus, legumine glabro ovato acuto mucronato transversè et grosse rugoso-plicato ad suturam supenorem oblusè cannato.

Hab. tn *Armenia* Aucler n° 547, in Mesopotamia inter Or/a et *Sue-rek*. Kotschy, n» 70.

Facie et florura magnitudine affinis *M. arvensi* qua ut et *M alba* a nostrâ specie fructu obtuso minùs crassè rugoso distinguitur

POCOCKIA DC

Character fruct&s emendatus

Legumen pleiospermum planissimum cbartaceuin samaneforme rectum vel lDcurvum subindehiscens nervis lransversls parallelis elevatis inter se sajpè anastomosantibus striatum, suturâ utrâque \el semimfcrâ tantam alatis vel dilalato-cannalis.

Hoc genus meo sensu omnes *Trifoheas* ainplechtur legumlnne piano recto vel curvato donatas in quibus \el arabo suturse vel semmifera sola alatac aat canoato-dilatats sunt Hie igitur adnumerands sum species sequentes bucusquè sub *Tngonellâ* enumerate et qua ab ei ut a *Mehloto* legumine piano ounquam rostrato notisque pracedentibus differunt. *Pocockia* propitùs quoque accedit ad *Medtcagtnem* mediante *Poc ruthenicâ* et *platycarpâ* quas auctores jam plures *Mediea-gxm* adjünxfrnt, sed immenlo, *mm* rugæ tran^crsir parallels suture-

(flic suliljriritiP que m speuebus citato hale observaulur uec in *M fulcatâ* occuixunl nee in *Med hybndA* Boiss — *Tngonellâ hybrids* Pourret, nee in ullâ aliâ *Medwogints* specie Prater species ulteritis desmbendas sequentTM *Pacochm* adsmbrnda: sunt

Afedtcago radiala L — POIOCKIA HAIATA TiMiitv Flora 1S42 II
|i 132

Tngonella lunata, Boiss Diagn 41 — PoroiKM LUNAM , Boish
— *Tng biflora* Gnsch Spic Rümcl 1 pag 41!

Tngonella ovalis Boiss Ilbp lab 51 — Pot OCMA tn ALIS BOISS
Trigonella glomerata Hort Par. — POCOIAIA GLOMERVTA BOISS
— *Med brachycarjja* FiS(h — Jlfew *glomerata* FiS(h.

Trif/onella Aucheri Hiiyn If — Poci KIA ALCIERI BOISS

Tngonella Rulhemca L — Pot OCKIA HUTIKNTCA Boiss ~~*Med.Ru-*
thenica liuuto Ledub

y* *tjjonella filatyairpos* L — TOCOUMA PLATYCABPOS BOISS — J/c-
rfic *jilatycarpos*, Trauh Ledcb

Tngonella elliptica Bmss Diagn II — POCOCKIA ELLIPTIC A, BOISS
— *Botryolotut*, *Perstcus* Jaub. et Sp Illustr Orient, vol I, tab 63.

Tngonella Cacheminca Camb in Jacq. Yoy — POCOCKIA GACBEIII-
HILA Boiss.—*Jiotryolotus Cachemtncus* Jaub etSpacli Illusr loc cit

POUH-KIA KoTscim Buiss

P glabernma caulibus erectis clalis tcretibus ramosis, fobis petiolo foliolis brevion suffullis, fobolis crassiusculis ngidulis palhde vircotibub breviter cuncitis obtusis vel truncato-rectnsis oblriangularibus clevallm ncnulusis margme mtegnis superne deohculus Dervo excurrenti breviter mucronulatis, stipulis linean-setaceis brevibus mdivisis, raceims 3-C flons Siibsecundis pedunculo ex axillis supenobus orto folio quintuple longion sulTullis, ptdicflhs filiformibus ral>ci :c<|uilongis mturvis, flonbus. uutanlibus magnis, calyce glanusculo Kwpiis ucrulcsucnli breviler obconico-campanulato denhbus subsqualibus a basi lineari-subulatis tubo paul6 brevionbus, vexillo alis canniqii*¹ subajfiui'ongis, Icgumine oblongo-elhpiico recto piano <alycce tnplô lonpion pilis sparsis l)rp\issirais hirtulo basi rotundalo apico acutius<'nlo wrws parallpli¹* anatomosantibus Iransverse et di'nsfe stnalo, mitufd semimferâ cariiuito-subalatâ infenon aptera, semimibus duobus oblongis

Tngonella njtidocarpa BOISS. in Kolschy pi. Per;,, bor 4846

Hab in monte *Totschal* prope *Teheran* loc cil N° 555,

Radix perennis P Caulesi 4;3-3 pedales, foliola circ 3 lin. longa apice S 4;3 lata, flores magDit coram *LoU corntculatt*, legumen 4 lin. longum 1 3;4 latum Affinis *P elliptic* qua differt radumento tomeotello, foliohs in plo majonbus, flonbus dimidlo` minoribus, calyce tubuloso, legumine basi attenuato 8-9 lin longo Proxima quoque *P. Cacheminaf* qua* differt stipulis triangulan-lanceolatis, legumine lanccolato-oblongo acinaciformi etc

POCOCKIA AHABICA BOISS

P annua glahnuscula pluncauhs, caulibus brevibus nngulatis erectis vel ascendentibus, folus pcliolo piano foliolis paulo brevion suffultis, foholis cuneato-obcordatis apice denticulatis nervo excurrente mucronatis, stipulis minimis senuovatis profuode et argute 7-9 denttia, flonbus 2-8 umbelldtis nutanhbus pedanculo e\ uxillis saperionbus orlo folus longion apice inter pedicellos breviter mucronato sufTultis, pedicolhs capillanbus Inrtulis caljci aequilongis, calycis breviter campaiiulati dontibus tnnngulan-lanceolalis parce hirsutis tubo dimidi6 brevionbus, corolla palhdft ochrolcuca calyce quadrup!6 longion, vexillo oblongo apice retuso alas carinamque superaoli, alisllneanbus obtusis cannam subbnearem rectiusculam apice violascentem ferfe superantibus, legamini¹ glabro piano (mean falcato obtusiusculo basi substipitato 6-8 spcnno ncervis transversis parallells elevatis dense striato nervo mnrghnah ulnnque in cilia 2-3scnalia tenuia rigidula simplicu vel bilida basi subdilatala diametro fructus ti iplo breviora abeunt, semimbus oblongis subcomprssis sub lente tenuissime tuberculato-punctatis

Tngonelia Arabica Dcile in Laborde Yo) Arab. Petr. cum Icone.
— *Tr. pecten* Schenk plant spec p 34

Hab. in tota Arabii Petrel, in vallibus Sinai rara, ad lines Palaestinae ad mendiem *Gaza* vulgatissima Legi apnli 1816.

Gaules 3-6 pollicares, flores cum ral>ce 4 lin longi, legumen arcuatum pollicare *Zifi* lin latum. Pulchra species afflms *Poc. radtata* sed distinctissima

TBIGNONBLA CASSIA BOISS (Sect *Ftenum gracum*)

T annuu, caulibua brevisinus proatntis simplicibus subangulatis

superne conspulo-pilosulis, foliis pctiolo piano pijosulo foliolis paulò brevion suffultis, foliolis glabnusculis cun&itís apice truncatis emargioatisve nervulosis apice lantùm obtusiusculè denticulatw, slipulw lanceolatis birtulis, flonbus axilbinbus solitarus sessilibus, calycis tubulosi glabn denlibus linean-lanceolatis birLulis lubo tnplo bre-tionbus, corollâ calyce sesquolongion palhde violaceâ, vexillo oblODgo elongate retuso alas supcranti, alis oblusis cannam obtusissimam rec-lam internè angaslat.im paulo superanlibus, leguminc longo glabro linean vix curvalo laterahtor compresso nervis longitudinahbus anas-tomosanlibus clevalis percurso striato polyspermo in roslruin linearc subuldtum subangulatum eo dnmdibre\iis attenuato, semimbus sub-quadratis taberculalo-scabndis.

In sylvaticis ri'gioms sapanoris monlis *Cassu* in Syriâ boreali onen-
Icm versus, legi flor. fruct Junlo

Flonfera 1-4 4;3 pollic, fhictifcra 3-4 pollicans, floreB angnsti 3 4/2
lineas tire, longi, legumen cum rostro 2-2 t/2 pollicare S hneas aut
paulo ampliis lalum Species pulchella *Tr fanugraco* affinis ab ea
facile distinguenda flonbus parvis violaceis, Icgumine brevion longius
rostrato, IV *gladmta* et *Tr Cor\en\$%&* Icgunimbus viUous brevion-
bus magis compressis longius distant

THIGONBLLA SIBTIIOHPII Doist (Sect. *Fcmu,n graewn*)

T annua *Lota tomentella albicans*, caulibus abbreviatis procumben-
tibus, folus pcliolo eis asquilingo suffullis, foUolis broviter cunealis
obtusis \el truncatis apice lantùm argutè denticulatis, stipulis trlan-
gulan-lanceolatis apicc subulatis brevibus, capitulis sphsncis, pedun-
culis folio brevloribus in mucronem pedicelhs aequilonguiu abeunti-
bus post anLhesin mcrassatis, pedicclhs calyce brcvionbus tandem
incrassatis, flonbus parvis flavis nutanlibus, calycis adpressè birsuli
tubuloso^campanuUli dentibus subulalis duobus supenonbus tubo
squilingis infenonbu9 bre\ionbus, corolla calyce plus dupl6 lon-
gion, vexillo canna? incurvap oblusissimse asquilingo, alls brevlon-
bus, legumimbus subpatulè lurautis calyce multolies longionbus cy-
lindncis angulalis subenervus sensim atteouatis breviter mucronatls
deflexis parte inferion inter se aretè approximatis extremitate cur-
vatis divergenlibus, semimbus ovatib flavidis kevibus

nab in *Asui mmore* (*Bom.*) in *Oypro* (*Sibth*)

Trigonella hamata Fl. Graca tab 764 non L

Legumen 8-10 lineas longum inferè lineam latum. Planta affinis *Trigonella Spruneriana* Boiss sed ab eà distincta foliolis magis truncatis argutius denticulatis, pedunculo folliis brevioribus, leguminibus brevioribus minus rosstratis curvatisque non reticulato-nervosis extremitate tantùm divergentibus nee ascendentibus

TRIGONELLA HIEROSOLYMITANA Boiss (Sect. *Fenum graecum*)

T. annua conspicuè birtula, caulis procumbentibus articulis angulato-sulcatis, folia inferius petiolo ciliatis longioribus eis superioribus suffultis, foliolis oblongis obtusis circumscissis denticulis ascendentibus argutis, stipulis e basi triangularibus elongatis auriculatis, floribus in racemos capituliformes sub anthesi ovatos demum oblongos dispositis, pedunculo folia superantia in mucronem pedicellis longiorem abeuntia, pedicellis curvatis calyce brevioribus, floribus magnis nutantibus, calyce hirsuto breviter campanulato elevato-nervoso dentibus lanceolato-subulatis subaequalibus tubo subaequalibus, corollâ aurantiacâ calyce tripliciter longioribus, exillobis carinam obtusam margine superiori rectam sequantibus, alis ovatis brevioribus, legumine (junioribus) adpressè hirsuto angulato-cylindrico calyce multoties longioribus deflexo valdè curvato extremitate erecto breviter attenuato acuto

Habitat in collibus circa *Hierosolimam*, praesertim in montibus *Oliveto* frequens, in *Syria* ad *Aleppum* Kotschy n° 161. Hinc quoque probabiles specimina *Oldreichiana* et *Alaya* Pamphylis sub *Trigonella Spruneriana* distributa.

Legumen 8-9 lineis longum basi vix lineam latum. Affinis *Trigonella Spruneriana* a qua distinguitur foliolis majoribus magis elongatis, capillis ovatis nee spatulatis, floribus aurantiacis ferè duplo majoribus, dentibus calycis aequi nee inaequalibus, legumine curvato non rostrato.

Ex locis *Syriae*. *Trigonella Spruneriana* in *Diagn. Hist. Nat. Syriae* p. 46 de specimine Kotschyana e Cilicia n° 463 qua novam sistunt speciem. *Trigonella Kotschyana* Fend. *Trigonella Hierosolymitana* propius quam *Trigonella Spruneriana* affinis sed ab eà diversam capitulis paucifloris brevissimis, corolla pallidissime ochroleucâ, carinâ latâ brevi deflexâ extremitate rubescenti, leguminibus sparsim et adpressè hirsute in rostrum subulatum attenuatis curvaUs circ. 9 lineis longis inferoè 3 lineis diam. latis

TMGONBLLA PI M;IOKURA Bores (Seel *Fanum grceum*)

T aimua adpressiuscule et pan-e lurlula virrens, caulibus pumilis procumbentibus brevibus divancaLim ramosissimis ranusque tenuibus, folns pedicello tenui lirevi suffullis, foholis cuneatis vel cunealo-lineanbus obtusis truncalis>c apice tantura argute denticulatis, stipulis e basi tmngulan setaccis, floribus par\is in rapitulum rotundum congestis subse&sililms, pedunculo flhformi apice raucronato flo- nfero folia noo superank fructifcro elongato, calyus parcè lurtuh nervulosi breviter tubulosi dentibus lanceolalis supenonbus binis tubo brevionbus infenores paulò superantibus, corolU navá <alyce sesqudongion, vexillo cannam curvatam obtusam requauti, alis bre- vionbus, legumimbus adpressissimè puberulis cylindncis nervis ele- vaUs oblique longitadmilibus anastomosantibus percursis doflexis carvatis exlremitate sensun altonualis acutis patulj> ascendenUbus, semmibus elongatis cjhndncis lsrvibus

Dab. in arenosis ad *Gazam* Palicshna¹ Legi fl et ft. Apnh

Foliola 2-3 lin longa, flores PIS *Medusagtnis* minima >i\ majores, legumen feri» pollicare diametro hncam dimidiam latum A precedeu- tibus floribus parvis, legumine tenmori oblique nervato disincta

TUGONELLA FiliPEs Boiss (Sect *Fanum graeum*)

Tr. annua, pilis cnsulis birta, caulibus fliliformibus brevibus pro- cumbentibus, fohis breviter peliolatis, foliohs nervulosis cuneato-ova- tis oblongisve circumcirt minute deenticulalis parvis, stipulis e basi triangular! setaceis, floribus minimis in capitulum sphsericum congestis pedunculo setacco folia superanti apice anstalo suffultis, cal>cis tubu- losi adpressè birli deutibus lanccolatis supenonbus tubo subaequilongis caetens brevionbus, corollá fla\à calyce vu sesquilongion, vexillo canná obtus.1 paulo longion, alis cannae squilongis, legumimbus de- flexis cylindncis curvatis extremitate ascendentibus prater pilos ad- pressos patule hispiduhs basi 4-2 spermis supernè in rostrum sensim angusutis, senunibus cylindncis subincun'is

Hab. in collibus siccis damosis circà *Rascheya* Anblibani cum plun- bus alus ejusdem genens, legi Maio

Caules ex eãdem radice plures 2-6 pollicares, capitula et flores for- mà et magnitudmp ea *Tnfolu filiformu* rorerentia Legumen G-7 lincas

longum basi lineae 3;4 latum angulato-cuiv. il um A pncedenhbus quibus quoque affinis differt florum minutis caulium et peducolorum teruilate, leguminis indumento duplici.

TRIGONELLA ULAOINA. BOISS. (Sect. *Fonum grwcutn*)

Tr. annua adpressmsculc hirta, cauhbus tenmbus erectis ramosis, folus petiolo tenui caoalicuiato suffultis, foliolis cuneato-oblongis obtusis nervoso-sulculosis subtns subcanescentibus apice minutis denticolatis, stipulis subulalis adpressis hirsutis, flonbus ID racemos ovato-oblongos laxiusculos dlpositis, pedunculo folhs longion aplce anstato, pedicellis cal)ce breuonbus bracteola selacea suffulhs, flonbus uutantibus Illaclms, calycis tubulosi ncrvosi adpressis hirsuti deotibus subulatis superioribus tubo castensque paulo longioribus, corolla cal>ce plus dupl6 longion, vexillo Hnean carinam elongatam parum tncurvam obtusam squanti, alis paulft brevioribus, legumibus deflexis cylindncis curvatis extremitate sensim attenuaia acuta ascendentibus patulfe hispids obsolete et oblique nervulosis, seminibus oblongo-cylindricis minute tubeirulatis

Hab. in *Carmelo*, ID collibus propd *Nazareth* (Bolss. Pinard)

Planta semipedalls, foliola 5-6 lla longa apice tres lata, flores angusti 3 lineas longi, legumen 6-9 lin longum basi 3;4 linea latum. Species formâ et colore corollas a pncedentibus imprimis a *Tr. plagineur* A cut maps affinis dlstincta

TRIGONELLA STRANGLATA Doiss. (Spot *PflWuift gracum*)

Tr. annua pilis cnsulis brevissimis hirta virescens, caulibus pumilis erectis, foliis petiolo brevi suffultis, foliolis cuneato-obtriangulibus obtusissimis truncatis minutissimè et obtusè denticilatis, stipulis brevibus ebasi tnangulan setaceis, floribus 4-7 in racemum laxum brevem dispositis, ped'inrulo folds longiori aplce aristato, flortibus nulantibus pedicelio cal>ce brevion suffultis, calycis parcè hirtuh campanulati deniibus subulatis superioribus tubo asquilonis Inferonibus paulb brevionibus, corollâ flava calyce duplb longion, vexillo alis paulo longion, carinâ rectiuscula obtusissima flhs subbrevion, legumibus deflexis subcurvatis cylindncis-aubcompressis apire breviter attenuatis jdresse birlulis V4 spenrns inter spmina angustatis lorosis tonpfu-

dinahler grossè ut eleia Lun plunnervus, seimnibus ovatis subcom-
preccsis rai Diitii tubpreculatis

Hab in collibus siccis *Antilibani* circa *Basohmja*. Legi Maio.

Caulcs 3-4 polluares, foliola 4-5 hn looga lalaque, floras ferè 3
lineas longi Icgumen 6-7 lin longum lineam latura. Species a prace-
denlibus foliolis brevibus latis, racemis laxift, legumine subcoDipresso
toruloso strangulato dislinclissiiua

TBIGNONELLA SINUATA BOISS (Sect. *Buceras* J

Tr. annua tola pilis brevissimis cnspis hirtuia, caulibus leniibus
brevissimis erectis vcl procumbentibus, folus pctiolo fliformi eis
sequiloDgo suffuitis, foliolis minimis brevissunè cuDeato-obcordatis
elevatun nervulosis circumcircà basi excepli argutè denticulalis, sti-
pulis semisagittalis basi parcè denlatis, flonbus minimis in capitulos
parvos subglobosos densos pedunculo mutico folus aequilongo suffTul-
tos congestis, caljcis parcè et adpressè puberuh dentibus laoeolato-
subulatis aequilongis tubo paulò longionbus, corollà fla*a calyce dupld
longiorl, vexillo afos cannamque aequilongas paulò supcranti, legii-
numbus parcè puberulis subsessilibus ex apice pedunculi stellatlm
patentibus angustissimthneanbuscompressls rectis attenuato-mucro-
natis 3-4 spermis, margine seminifcro crassmsculo recto, altero
inter semina undulato-sinualo, pencarpio ad semina praesertim ru-
goso-gibbo, seminibus (jumonbus) cylindricis laevibus.

Hab in collibus circa *Bascheya Antittbant*, legi Maio

Caulcs bipollicares, foliola a hn. circ. longa lataque, florea sesqui-
hneam longi, legumen 6-7 lin. longum dimidlam lineam \ix latum.
Species mrrutie omnium partium et legumine sinuato insignis, col-
locanda juxtâ TV *Ftschenanam* quæ differt flonbus tnplb majonbus,
legumme utroque latere flexuoso, etc

Inter *Tr. cancellatam* Desf., IV. *tenuem* Fisch. et *Tr. stnatom*
flora Altaic* nulla discnmina detegere queo. Usec species lgitur no-
mine TV, *cancelliaia* designanda, nam *Tr strtata* Linn. fl. ob patnam
Abyssiniam et legumina recta et longmima dicta certè ad aliam stir-
pem bpectal.

TRIGOXELLA POLTCAHPA Boiss et Heldr. in pi Anat exs 1846
(Sect *Bueeras*)

Tr annua tou liens* ot adpressiusculè lurtula multicaidis, caulibus

procumbentibus demum elongatis, foliis petiolo eis subquiloogo suffultis, foliis midutis |cuneato-suborbiculatis oblusis obtusiusculè denticulatis, stipulis semisagittatis latere exteriori denticulate, floribus magnis subsessilibus in capitulos multifloros rotundos densos dispositis, pedunculo mutico foliis 8-3pl6 longifloro fructifero apice incrassato, calycis adpressè hirsuti deailbus lanceolatis apice subulatis inter se et tubo squiloagis, corolla aurantia calyce triplob longior, vexillo alas superanti, alis carinà rectà obtusà longioribus, leguminibus pedicello brevissimo incrassato eis squilato suffultis rectis rigidis angulè linearibus subcompressis apice attenuate adpressè pilosis valdè rugoso-scribicularis polyspermis ad pedunculi apicem densè fasciculatis strictis apice divergentibus, seminibus breviter pnsimbis (junioribus) lxxvibus

Hab. in carapis stenilibus ad orientem urbis *Adalta* in Pampb[^]Hà (Heldreich.)

Caules floriferi 4-5pedicels, fructiferae saepe pedales. Capitula magitudinis et formis illorum *Tnfolnawanhaci*, flores fere 4 lin. longi. Legumina 13-18 lin. eodem capitulo, 10-12 lin. longa lines 3;3 lata. Species pulchra florum magitudine et colore *Tr. aurantacam* referenda quae longè differt leguminibus laxè capitatis tenuiter pedicellatis patulis arcuatis, etc

TRIGONELLA CALESYRIACA BOISS (Sect. *Buceraa*.)

Trigonella annua parce et brevissimè pilosula, caulibus crassiusculis ascendentibus angulatis basi ramosissimis, foliis petiolo striato eis squilongo vel longioribus suffultis, foliis glaberrimis vix vix cuneato-obcordatis supernè tantùm denticulatis, stipulis brevibus inferioribus scissagittatis basi denticulatis superioribus lanceolatis acuminatis, floribus in capitula laxa rotunda dispositis, pedunculo mutico foliis squilongo, pedicello tenuibus calyci aequilongis longioribusve, calycis glaberrimis dentibus lanceolatis inter se et tubo aequilongis inferioribus angustioribus, corollam florum calyce triplob longiori, vexillo alis paulo longioribus, cantho parvo curvato alis subbreviori, legumine pedicello incrassato eo angustioribus insidenti erecto arcuato longe et angustè linearibus compresso apice attenuate aculeo glaberrimo tenuissime longitudinaliter striato, seminibus subquadratis compressis tenuissime punctate luberculatis

Hab. ad margines agrorum in *Calesyria* inter *Zebdam* et *Zachle*

Caules t>-lu pullicaius, Cuboid 4-7 Im louga apicque Jala, flora
MS Tr *carntculata* paulo majores Lt'gumen super peduiculum rec-
inn sed artuatuni 1/2-2 pollic longum lineam lätum Pulchra stirps
.il) omnibus sechonis disimita legum longhsimu nun tr.üisvt.Tst¹ \rl
• •hlijjio sed loigiluilinaliUT et lenuissirar **strulo**

TRIFOLIUM l'AMPiiwinsi Buiss el IMdr m pi \nai m 1846
(sect *Lagopus*)

'lr annum naulibus toretibus adpresst* hirsutis. fuhis miouUs bre-
Mler peliol.itis, loliohs adprosst¹ hirlis hnpim-elhptini interns, slipuln
patule hirsutis angusiis oblongo-lineanbus suhscanosis ner\osis caudik
liro\issimā setacea icrminatia capitulis o\atis bracteaais fruclifens
nblon^is densis, caçce tubuloso dense ft longi¹ rufsrcenti-piloso don-
dhus cOquiloii^is seUteis \tllosis rectis frut lifcns paluhs tubo obsololi¹
-trialo sesquilonjrionbus f.iuce marline tomentellâ coroll.i piirpnrct
cihoo sesquilonpion, texillo anguste lincan alas mult6 superanti, alis
iann<iapice subattenua.^ lonpionbus

Hab in arenosis PamplnJie ad flu\ium *Alelas* mfrA *Monargat*
• Hieldreichj \pnli

Cauleb 1-4 polliots J-J loiigi foliolj J-i Im. loiiga lineam lata. Ca-
pitula demum poUicem longa 8-9 Jin laia Corolla w\o lineas lala
Aftine Tr *angustfolio* et *purpmeo* quorum pnus foliis majonbos,
capitulis lonpionbus apice altenualis, uorollj caçcims dentibus bre-
Mon, postenus foliis mullo roajonbus, corollâ duplb majon, caljce
subtnplo longion dentibus insequilibus, stipulis lonpo caudatis diffe-
runt 7V *Roussaanum* demquv follolis oblongis, capitulis subbro-
tundis, dentibus caljcis tubo diipltt lonpionbus corollk tahce plus
duplo lonpiort dijinoscitur

TRIFOLIUM mtiinuAM in M Buiss 'Si'U *higopus* >

Xr aniiuuiii uulibus ii-retibus piuiumbvntibus pilis gn&eis ad-
pressiust'JJ's plus nnu^ birsulis luhiii mferiunbus longiuscult- petio-
Litis, foliohsi elliptku-lijKMnbus ublulis Mrpc eubtrunoatis pilis ad-
j^reshi^imis mii.>>n\bus ulrnu|m> obsij^, stipulis patule lursutis oblon-
};IN submnalis scanoMs ncnosis tauda brevissim.i srlairâ ternimatis,
t,aprluli^ podimniliu lulus brfvion Mitfutlis MSI mith^ flunforis ovatis

fructifens cvhndruis, cauce pilis longis nuinnis >*ub anthesi adressis dein paluhs hirsulissimo dontibus setarels tubo mprosnato paulo longioribus. inferiorl paulo lonpion omnibus rectis dein fructifens ereclo-patulis corolla anguste liueari inferno purpurej superne pallide carneA dħep tnplo longinn. ie\illo alls lertiA pane longion, alls (.lrinam acutmsculam paulo supenmtibus

llab in rollibus J tidies circa *Gazam* Fl. ineunie dpnli

\anat cauibus 9-3 pollic pedalibusque foliola 6-9 lin longa i-3 luta, capitula fructifra su-pe sesquipollicana Corolla 10-12 lin longa l'ulcra species affinis TV. *purpureo* a quo differi stipuinruin cauda hrc\i_t rorollis proportionc caUeis multò lonpionbus et inpnmis \exillo **longissimo** snprnip discolor

TRIFOLIUM P\i rsTiNvv Boiss (Sect *Laqopu&.*)

Tr annuuni, cuilibus pilis pnseis paLuhs longis molliter hispidis toretibus. folns sallem infenoribus longe peuoUtis, foliolis paiule et breviter hirtis oblonyis \el ellipliro-huoanbus oiuiusoulis, siipulis hirsutis scanosis o\ato-oblongis nonosis subinfaiis in cjiulam setj- ceam eis subxquilonam subito contradis, rapilulis pedmuulo brevi suffuliis >el foliis supremis involucraills ovaus tandem oblon^is, cauce pilis grweia longis drasLssimis precio-paiuhs hispidissimo sericeo-nitenti dentibus sclaceis hispidis tulw> paulo longionbus infenori sublongion post anthesin doflexo, corolkr albidx uaUceuiM\quarU parte e\cedentis >exillo anguste hncari alas acuttusculas terliâ p,irle excedenti, cannâ acutiusculâ dhs paulo brevicn

Hab. in arenosis oirci *Gaza* Paljesliux Legi Apnli

Vanat ut species prapcedens caulibus 1-2 pollic pedahbusque. foliola f>-12 lin longa ciro 3 lala Capitula fruclifera 8-9 lin longa sonceomunna, rorolla circ 7 lin longa \ffinc praecedenti sed pih lonpiores maglsquc patuli coroll^que cum caljce proportio dnersa IV *formosum* d'Urv — Tr *dasyurum* Presl quoque aflinc differl cauda stipularum longlssima, caluis dentibus lnnqissimis tandem stellatim patentibus

THIFOTICV HiTinMciM Boisi (Seel *EutnpkyUum*)

Tr perenne adressè pilosulum. rhuomali¹ suff*rulcsn>nii taulophires ascendentos simphecs suhanfmUlosedenti, foliis pptiolo plcruin-

quo PIS brevior suffultis, foliis ublongo-ellipticis obtusis eleuUm
el dense nervulosis supra gtobris subtiis pallidioribus ad nervum me-
dium margloemque ciliatuhs cspteriim glabns, slipulis lanceolato-linea-
nbas acutis nenoso-sulcatis parte hberft longion, capitolis geminaHs
ovato-rotundis foliis supremis involucratis, calycis tubo glabro |Q<
nervi denlibus setaccis patulè etparce tairsutis tubo gquilongis fructi-
fcns patentibus inferior! alus vix longion, fauce pilosâ, corollâ roseâ
calyce besquilongion, vexillo alis sequilongo cannâ paulo brevion

Il. in sylvaticis regionis media *Olympt Bithyni* Legi Julio 484S

Facios *Tnfohi alpestrxs* Gauls semipedaleb, foliola pollicem au
paulu jmpliùs loDgab 1m lata, corolla 7 lie. longa A *Tr.pratnui* fo-
llolis elongatis stipulis lanceolatis nee ovatis abruptè anstatis denlibus
calycims subsequilongis bcil6 distinguendum *Tr. expantum* W K
magis affine lamem differ! stipularum parte librrfl breviun subulato-
aitemiatl, capilulis solitarus, calycis tubo hirsuto dente infenon dupln
longiori, vexillo nlas superanti, etc

TRIFOLIUM *cxvnxTim* Boiss (Sect. *Eutnphyllum*)

Tr. perenne sechs caules et peLiolos pilis patulo-deflexis subviscl-
dis densib brevibus molle, caulibus ascendentibus vel procumbentibus
clODgalib crassiusculis lwrce ramosis, foliis longu petiolatis, foliolis
owtis rectis subsessilibus dense¹ nervulosis subintegns adpressiusculè
hirsutis viscidulis, stipulis hispidissimis infimis basi angustè linearl-
]us parte libera longion soUceâ supenonbus basi ovato-linangulan-
bus in caudam lincarcent foliaccam supentf sscpf subdilatatam obtusam
pane adnaU <-2plblongiore attenualis capiluhs terminalibus soli-
tanls breviler ovatis foliis bims eorumque stipulis involucrabs, calyce
pilosulo 40ner\i denlibus lanceobLo-subulatis unmcvils 4 infeno-
nbus mgncantibus tubo fribido aequrlongis supenori paul6 longiori,
fauce breMter fimbnatâ, corollâ purpure^ calyce tnplò longion, vexillo
mean subrecurvo alas longè superanti, alis cannâ subloogionbus.

Hab. in herbidiis partis supenons montis *Mesogu* supra *Tratlea* in
LydiaubiJunio18(3)cgi

Caules ||i—| pedales Folia alia radicaJia csspilosa lbholis mino-
ribus alia caulina foliolis 7-9 lm longis, sUpulamm superiorum cauda
f>8 lin longa 1/2—3/4 l^ea? lata Capitula eis TV *pratens* panA
majora Ah eo ut rt <i *Tr. expanse* mdnmenlo molli viscidulo sub-
deflexo siipularnm mnd.i herbard longâ lmeari *rut* subulatâ, calycis

denibus lanceolato-subulatis nee setaceis, corolla calycis proportionem multo longior distinctum. *Tr. caudatum* inter *Tr. pratensis* et *Tr. ochroleucis* dentium calycis formam intermedium est, in *Tr. ochroleuco* et affinis dentes quoque lanceolato-subulati sunt sed tri nee univervi, corolla calycis proportione brevior, faucibus annulo elevato coarctata, stipulae superne subulato-attenuatae.

TRIFOLIUM CASSIUM BOISS (Sect. *Eutraphium*)

Tr. perenne adpressissime canescens, caulibus plerumque procumbentibus vel ascendentibus longis teretibus, foliis longe petiolatis, foliis amplis elliptico-oblongis margine inter pilos adpressos utriusque glanduloso-punctatis inferioribus integris obtusis superioribus angustioribus elliptico-lanceolatis acutis vel mucronatis obsolete denticulatis, stipulis lanceolatis sensim attenuato-acuminatis apice setaceis parte libera duplo saltem longior, capitulis parvis rotundis dein oblongis supra folia superiora breviter pedunculatis sessilibusve, calycis tubo adpresso hirsutissimo obsolete univervi dentibus lanceolato-subulatis univervus in superioribus tubo aequilongis rectis inferiori 2-3 partibus longiori deflexa, faucibus annulo velutino coarctata, corolla pallide rosea calyce subtriplo longiori, stylo lineari alia canna acuta subsuperantibus longiori

Hab. In sylvaticis regionibus montis *Cassici* ubi legitur Junio 1846.

Caulis 4-2 pedales, foliola inferiora saepe sesquipollicem longa, capitula fructifera sesquipollicina, calycis fructiferi dens inferior deflexus 5-6 lin. longus, corolla lineari pollicina. Pulchra planta quam primitim pro forma rhodantha *Tr. ochroleuca* habui sed qua ab eo specificè satis differre videtur foliis superioribus acutis vel acuminatis nee obtusis, floribus majoribus, corolla calycis proportione longiori, tubo calycis obsolete univervi nervoso dentibus multo longioribus.

TRIFOLIUM PLEBEIUM Boiss (Sect. *Eutraphium*)

Tr. annuum, caulibus brevibus diffusis patule tomentellis, foliis adpresso pilosis ovatis obtusis obsolete denticulatis, stipulis lanceolatis acutis parte libera sublongioribus, capitulis ovatis fructiferis ovalo-rotundis breviter pedunculatis, calyce florifero breviter tubuloso ad-

capitulis ovatis densis pedunculo folis pluribus longioribus suffultis, floribus sessilibus, bracteis ad squamulas indentatas vix lente perspicuas reductis, calyx glabro tubo albido valde sulcato acute 10 nervis obconico dentibus viridibus lanceolatis in mucronem attenuatis nervoso-cannatis tubo xquilongis calycis fructiferi squaroso-palentibus, corolla carnea calyce plus duplo longior, vexillo recto linearis a retuso carini obtusa duplo longior, alis cannam paulo excedentibus, legumine carina longior ovato compresso obliquo basi in stipitem brevem attenuate apice gibbo rostro laterali ei sequilongo obsito, semine oblongo.

Hab. in herbis SICCAE collium ad *Alaya* Pamphyha; (DeldrJ, in arenosis ad *Gaza* Palaestinae (Doiss.)

Caules 4-6 pollicares, foliola $\frac{1}{8}$ -4 lin. longa, capitulum avellanâ minus, Boresangusti 31; 21 m. long). Affine *7V stncto et glandulifero*, a priori foliis non hinc lanceolatis, dentibus calycinae nec tubo longioribus nec corollam subaequantibus etc., a posteriori foliis glandulosis, capitulis non globosis exinvolucratis etc. facile distinguendum.

TnirLiuK GALILAE BOIBS (Sect. *Tnfoltastrwn*)

Tr. annuum glabriusculum, caulis erectis tenuibus angulatis simplicibus, folis petiolo squilongo vel breviori suffultis, foliis inferioribus oblongo-ovatis superioribus linearibus omnibus subsessilibus elevato-nervosis obtusiuscule denticulatis obtusa, stipulis ovatis valde nervosis acute denticulatis praeter marginem virescentem albescens supra medium petiolo adnatis apice triangularibus acutis, capitulis globosis pedunculo foliis multoties longioribus suffultis, floribus sessilibus, bracteis ad squamulas lente tantum conspinuas brevissimas denticulatas reductis, calyx tubo albido glabro obconico profunde 10 sulcato stnatoque dentibus viridibus subulatis longè mucronato-attenuatis tubo longioribus post anthesin praesertim squaroso-pateotibus sinus inter dentes margine cillatis, corollâ calyce nuda duplo longior rosea, vexillo oblongo-lineari obtuso carina duplo longior, alis cannam excedentibus, legumine calycem non excedenti obovato compresso basi angustato apice obtuso gibbo oblique stylo eo longior rostrato, seraique oblongo compresso.

Hab. in *Galtia* area *Banuu* ubi Maio ineunte legi.

Tr. nervuloso Pt *glandulifero* valde affine, minus differt capitulis

ovatus nec rotundus, calycis glaberrimi dentibus tubo Don longioribus, vexillo magis attenuate retuso. Posterioribus foliis stipulibus dentibusque calycibus glanduliferis, calycis fructiferi tubo membranaceo obsolete nervoso facile dignoscitur.

TRIFOLIUM MODICUM Boiss (Sect. *Trifolium*)

Tr. perenne glabrum caespitosum subacaule, foliis longiusculis et tenuiter petiolatis ad caudiculis apicem congestis, foliolis petiolulatis obovatis vel cuneato-obovatis parvis elevatis et dense nervationis crebre denticulatis, stipulis scanosis longe lanceolato-acuminatis, capitulis paucis pedunculo folia aequantibus suffultis, bracteis membranaceis minimis calyce tripliciter brevioribus 3-4 dentatis, pedicello hirsuto calyce tripliciter brevioribus, calyce adpressis hirsuto obconico nervuloso interlobis subulatis subsquaribus tubo dimidiatum brevioribus, corollae carinae calyce duplo longior, exillobis oblongo alas carinae longiores superanti

Hab. in declivibus Libani supra cedros Legi Julio.

Plantula caespitosa foliolis $y \times x$ 2 hinc inde longis, capitulis 6-7 floris corollae $S \frac{4}{2}$ lineae longae. Affine *Tr. Parturum* Boiss. Diagn. II. floribus mollioribus subsessilibus quoque donate sed quod differt bracteolis oblongis indivisis, calycibus acutis nervosis glaberrimis dentibus triangularibus albomarginatis, etc. *Tr. modestum* habitu quoque *Tr. tumidum* quodammodo refert sed differ! caulibus abbreviatis, floribus minoribus, dentibus calycis tubo brevioribus et ejus calyx, insuper post anthesin utrumque non inflatus esse videtur.

Trifolium badicosum Boiss. et Hohen in Kotschy pi. Pera. Bor 4 816 (Sect. *Trifolium*.)

Tr. perenne glabrescens vel parcehirtulum, rhizomate crasso lignoso verticillate ramoso apice caespitose, caulis filiformibus apertis, foliis radicalibus numerosis caulibus paucis, foliolis parvis ovalibus subsessilibus basi cuneatis obtuse denticulatis, stipulis albidis brevibus semiovatis ad $\frac{2}{3}$ usque petalo adnatis apice triangularibus, capitulis globosis pedunculo foliis plura longioribus suffultis, pedicellis calyce tripliciter brevioribus basi bracteolis minimis squamiformibus denticulatis suffultis, floribus post anthesin deflexis, calycis adpressiuscule muti diffinitus lanceolato-subulatis aquirionibus tubo sublongioribus, corollae

intense purpurea vlu'duplo loitgion, \exillo obluugo fxlreimlalc
«ubrr<ur\o alis longion, cannà recti apice in nuicronulum altenuatã
alis MX brevion.

Hab. in sommo jugo *AtsehaPasch* montis *Demawend* Porsir borealis
kotschyN'620

Afflnc *Tr Anatohco* Boiss. Diagn II sed cximir distinum rhizomalr
«rassion. pedicellis breiissinns, taluc hirsulo, flonbus majonbus
purpurco-violaceis 3 1;2 lin Icngis, unna nttenuato-mucrunata new
.icutj

THIFOLIUI scLEHonnui u Bows (M̄I *Veticastrum* I

Tr perenne pilis patuli^hispidulum, ratlitibustenuibus elungjbs to-
lucisslmis e collo indurato caules plures l)ru\rs Illifurmos procumbeuies
angulato-striatos simphces edentibus, folus peiolo &» loogion suf-
faltis, fuliohs glabnsbreussim* petiolulus o\aiis;Noblong)s obtisis
densi! pertulosis mmute sermlalia, stipuhs semioblongis pclioload me-
dium usque adnatis longissime acuminatis, capilulis globosis pedunculo
fohls sequilongo suffultib. pedicello brje>isSimo basi braclooli |i| per-
spicu^ membranaceà tndenticulali suffullo, caljceglabernmo florifero
angustt tubuloso-struto lalno suppnon bre^issimo Iruncalo margine
utroque 2 dentibus subulatis aucto, labio infenon tubo longion li-
nean nifri medium in 3 denies subulatos divergenli-patuloi pjriio.
cal^ce fructifero mflato-globoso eleialo-reticulaio dentibus suhdila-
Utis lanceolato-subuldtis inxquahbus patulis ejus diaraetro sequilongis
coronato, corollã roseã cahcis denies |i| lertu parte superanti,
vexdlo lincart reluso alas longr superanti, alis cannam bra\iter mu-
cronatani paulu superantibus Icgumine oblongo shlo longe raucronatu

Hab IO rupestnbus sictis Antilibam circj *Rascheya* ¶ Maio.

Proximum *Tr Cupam* Tin et *Tr ovaUfoho* Bor> qux difTernL ca-
pitulis lonpias pedunculatis, calxey \aldè hirsutl el post anlbesin am-
pioris dentibus minOs lenuibus reclis nee patentibus proporlione
corollsp breiwnbiis

THIPOLILM HORIFEBIH Bi«« (Sfrt iMims/rtjni)

Tr annum, pjrcissime hirlulum caulibns numerosis breubus
prostratis ranpitoso. folus uanis peliolo brnn«simn suffultK, fo-
lulis subseculis npidulis plahri« iK.itQ-runp.itK ohtusU densr

el elevati in utriusque multistriatis circumcirca minute el crebre den-
liculatis denliculis ascendentibus mucronulalis, **stipulis** subscandis
multinerviis lanceolatis ultra medium petiolo adnatis supernis. acu-
minatis, capitulis floriferis breviter basi attenuatis inter folia sub-
sessilibus. fructiferis oblongo-ellipticis densissimis pedunculo
elongato sulcato eis sequilongis suffultis foliis sessilibus, bracteis
oppositis mucronatis dorso virescentibus multinerviis margine albo-
membranaceis caecis dimidiis brevibus glabris, talibus flonifero
lubuloso adpressiusculis. hirtulo dense striato dentibus Unceolato-
subulatis lubo quinuplo bracteis, Irucifera inflato lurbmato in-
ferius longe attenuato prostrato dentium basin birtulam tralir<>, corolla
rosea calyce sesquialongis post anthesin stans persistenti, **exillob**
post anthesin reflexo alis nervulosis ul P;P obtusiusculo fructifero
tenuiter striato irarum paulo brevioribus, legumine papiraceo obovato
sessili striato equadruplo longior terminalo, senescente obovato

Hab in arena maris regionibus Libani in *Zachle* ad re-
gionem *h'esraouan* dicuntur alt 3000' 6000' Legi Julio

Caulis 4-6 pollicares, foliis 2-2 1/2 lin longa, capitula florifera
4-5 nervulosa 8-10 lin longioribus Species *affinis IT. xerocephalo*
Fenzl quod **differt** stipulis nervosioribus longioribus et rigidioribus
acuminatis, capitulis fructiferis brevibus latioribus obovato-oblongis.
bracteis calyce sesquialongis, dentibus lubo caecis dimidio brevioribus,
calyce fructifero basi breviter attenuato corollis pallidis

TRIFOLIUM HYTIDOSEMICUM. Boiss et Hohenstein in Kola IN, pi Pers
bor 1840 (Sec* *Chronosemum* <

Tr perenne inde, caulis procumbentibus el ascendentibus her-
baceis parvissimis el adpressiusculis hirtulis simplicibus elongatis, fo-
lus petiolo eis sequilongis el longioribus suffultis foliis lenis glabris
sessilibus obovato-oblongis uniuersis miundatis apice asperis retusis
Derrivatis obsoletissime dentatis stipulis latioribus ad 3/3
longitudinis petiolo adnatis apice Irucifera foliis breviter mu-
cronatis penicillatis caetenun nudis, capitulis ovato-rotundis pedunculo
ex **axillis** superioribus orto **folia** multoties superantia apice adpressius-
suffultis, pedicellis brevissimis, foliis defloratis deflexis. nervus mi-
nime albo-membranaceis glabris labio superior! brevissimo fenestris
obtusis dorso nervulosis denatis hints immixtis **triangularibus**
labio inferioribus tubis brevibus fere ad basin usque in (res dentis*)

Imeares piû* poucis peincilJalos dlvisu, corollfl e sicco palhde earned id larneo-flavescentli albidli, vexillo cal>ce fnpl6 longiori oblongo umcaio obtubo striato fructifero longitudinaliter sulcato infernê dorso cannato alis longion, alia recUs lineanbus canoà recta obtusft dupl6 lonponbus, Icgumine oblongo-spatbiilalo corapressobasi attenuate vix slipjtato stylo incurvo eo paulò brevion termioato.

Hab in monte *Totschal* propè *Teheran* Kotschy n° 704

Caules 1/8 et etiam 4 pedem longi, foliola 7-9 IID. longa 3 i;j-4 lin lata, capitula magriJtudinis nucis avellans parvs, flores circ. 3 lin loogi Affine radice perenni 7V *badto* a quo differ! caulibus tenuioribus non angulahs, peduncnlis 5-6 poUicanbus, capilulis minoribus, flonbus pallidls, dentibus caljcis non subulatis etc

TBIFOLIUM STRNOPFIYLLCH BOISS in, Pinard pi exs. 1847 (Seel *Chronotemtutn*)

Tr. annum multicaule, canlibus procumbentibus tenuibus teretibus ramosisglabrescentibus, folns adpressiusculfe birtulis breviter pettolatis, foholis Inferiorum oblongo-ellipticis superiorum angnstt **lnea-**nbas omnibus umtisapice minute deoltculalis terminali petiolulato, atipulis oblongis acuminatis integns multinervus ad medium usquê petiolo adnalis supenonbus eo paulo longionbus, pedunculis folio 2-3 pl6 longionbus, capilulis magnis o\atis postantbesin oblongls, flonbus magois snbsessilibus pnds erectis pailidfe camels deln deflexls inlensfe roseis, calycis rainuti labio superior! dimidi6 brevion glabrluscuculo membninaceo obliquê truncalo dentibus binis trangularibus birtubus, labio lnfcnon extiis piloso porrecto tnnervi In 3 denies linean-subulatos ad medium usquê diviso, vexillo calyce ferê quadrupl6 longion obloogo-spalbulato obtuso laldê nervuloso margine circumoirw denticulato deiilibus infenoribus acutionbus basi valdê cannatoplicato alas supcranli post anthesin scarioso, alls oblongo-llinearibus rcelis duergentibus canni multo longioribus, carinfl minimi recti superaèlongft attenuato-acuminalimargioe inferton serrulate, legurame longe stippialo e caljce exserto minimo oblongo membninaceo, semine oblongo subcompresso laevi.

Hab in arenosts Palxstinx circi *Gam* obi legl Uaio ineuate.

Species pulchra et disunctissima. CauJrs semipcdales, foliola 5-ã Un longj i-s lau, rapituJa ssrpc jjollicem lunga, flures Illis 3V *badu* paulo majoies

Tr. erubescens Fenz). Pupill n° 14, postea ab auctore Ipso In Illustrant. Tauri et Syns ad *Tr. speotusum* ut var *erubescens* reductum est amsque dubio species propria distinctissimaque Hoc legi ad pedem et in fissuris rupiam calcarearum tollus regionis montans Pales-tinae et Syria? Uttorahs.

Planta quam in Diagn. II p 33 pro *Tr. spetnoso* W habui, collate herb. Willd ab amiciss. prof. Klotschab co certe differet et *Tnf. Bovsswanum* Gusa. Syn. 2 pag. 858 sistit Verum *Tr. tpeaosum* observantibus d. Guss. In herb Tournef. et cl Klotsch in herb W est eariem species quam postea cl Tineo *Tr. Gussonn* nominavit

BONJIBANIA SVHIACA BOISS.

B perennis tota pilis raris patulis tenuibus hirsuta pallide virens, caulibus plunibus erectis lenticulis robellis foliosis simplicibus vix basi suffrutescentibus, foliis brevissimè petiolatis ob stipulas foliis similes quinatis, foliis stipulisque ovato-oblongis acutiusculis inferne abattenuatis, capitulis basi bracteatis pedunculo folio axillari vix longiori suffultis paucis ad caulis partem superiorem subumbellaliter dispositis breviter paniculatis, floribus.. , calycis patule hirsuti laciniis lanceolato-subulatis inferioribus tubo duplo longioribus superioribus eis paulo brevioribus, legumine ovato turgido glabro calyci subaequilongio breviter mucronato ovulis 4-15, semibus 3-4 reniformibus compressiusculis nitidis virentibus

Habit in rupestribus silvaticis Syria borealis in valle *Orontis* inter *Saadteh* et *Antiocham*. Legi fructiferum Junio

Ganles fere pedales, folia eis *Dorycnu latifolium* similia foliis 7-9 lin. longis 3-4 latas, legumen 3-3 4;8 lin. longum 2 diametro latum, semina lines *ifii* lata. Ab affinis *B. hirsute* differt indumento multo parciore, fructu breviori lurgidior!, semibus virentibus nec mgris, caulibus simplicibus nec suffruticosis ramosis Fructus eis *Dor. latifolium* duplo crassiores obtusi nec acuti Quamvis Cores non videntur *Bonjeania* nec *Dorycnu* ob legumine transversè membranaceo-septulata aduenero

DORTMUND AWATOUCDII Boiss. et Heldr. in pi. Anat. exa. 4846.

D basi suffrutescens totum indumento denso patulo tomentosissimo

lurliu caof&ceus, rams lierbaceis subslmphrlbus lertibus asceaden-
tibus fohosis, foliw sessilibus ob stipulas foliobs sinulis pentaphylls,
foliohs oblongo-linearbas obtuslusculis mucronalatis basi longè alte-
nuatis subinaequalibus, capitulis i W 5 flons rotundis pedunculo folio
aullari multò longion supra medium folio minuto tnfbliolato instructo
suffulus in paniculam brevem secundam disposing, pedicellis tubo
calycmo mquilongis, calycis hirsulissimi denlibus superioribus bims
tnangulanbus aculis tubo brevionibus infenonbus tnbus lanceolalo-
subulatis tubo xquilongis, vexillo subreflexo alis valdfe gibbis paulò
longion, cannâ nigrejnlî acutiusculâ alislncclus^, ovano oblongo-
clongato acuuusuulo 0-6 ovulato, legumine

Hab in colibus apricis inter *Beychehr* et *Kontah* sitis. Legit Junto
cl. Heldreich

Caulcs in HICK spcvimimbus 5-10 pollicares, foliola 4-6 Hn. longa
4 4;2-a lala, capitula el floras ma^nitudinis eorum *D. latxfaln*. Ab eo
H a *D suffruhcoso* distinctum indumento denso lomentoso-tursuto
denUbusque calycinis inipqmlongis inxquallatsque Ex ovarii formft
oblougâ Ipgumen ut in *D latfol\la* olongatum aoutlusculum esse
susplcor

LOTUS LIBINOTILUS DOISS

L. perennistotus patulè albo-tomentosus, rfuzomatcligooso lortiiiao
ramoso caules plnros procumbentes vel ascendentes flexuosoB sub-
simpliccs edenti, Coins pcliolo eis pau!6 breviorl suffultis, stlpulis
ovatis vel ovato-cuneatis obtuste latcraibus subobliquis, stipulla
ovalis basi truncatii acutiusculis pcliolo aquilongis, capitulis 2-4
flons pedunculo foliis 3-4 dE> longion suffultis ex axillia supenoribus
subsecundis foliolis 2-3 caljcem subsequantibus involucralis, calycis
dense et longè flavescenti-lomentosi dentibus subaequalibuB Iriangu-
lan-lancrolalis aplet' lirreviler attenualo-subulatiB tubo dimldib bre-
vioribus, corollâ pallide carneâ calyce dupl6 longiori, vexillo ovato
plicato reflexo alas lalo-lineares subquadratas asquanti, carinâ obtusè
mcurvâ exlrrmitate ascendenti longè atteouatâ rubello - violascentl
acutiusculd alas subsuperanti, stigmatc minimo obliquo capitato subbi-
labiato, legumine jumon glabro cylmdnco calyce dnpl6 longiori stylo
longè rostrato.

Hab in montihi» calcareis *Lxbant* supri *Kdw* Legi (lav Julio,

Caulea 6-10 pollicares, foliola 4-6 Ho. lunga 3-3 4}8 lata, Gores ferè magoltudinis *L. oomioukto* Affinis *L. sulphureo* Botes , differt colore flonun mlnorum, indumento denso, folfolis obtusionbus, calycis dentibus non lanceolatw, earinâ sublîs obtusè nee angulatim Incurvâ. *L. gebehm* differ! glabritle, dentibus calycis tubo aqullongis, etc *L. Mushauaotanea* dentibus calycis tubo aequilongis, indumento adpm-80 cano dlstlnguitur

LOTUS AUFFICOB Boias.

L. perennis totus patnlè hispiduluB, canlibus lenulbus foliosB simpllicibus, follis minubs pettolo eis brevion suffultis, foholis ovatis oblusis, supulis foliolo petioloque squilongis ovatia acutiusculifi basi subcordatis vel obliquè truocatls, capltuhs subquadriOons pedoncuro folds squilongo suffulUs basi bracteis tnbus calyce brevionbus stlpaiiB, calycis patnlè nlspidi dentitibus e basi lanceolalâ subnlatis aequalibus tubo longionbus, corollâ e sicco roseâ, vexillo ovato alas oblongas superanti, earinâ alas squanti sublîs rotundatâ incurvâ apice ascendent! attenuatâ acutrascnla, stigmatè obliquè capltatopl-losulo, legomine linean-cyhndrico recto calyce 4-B pl6 longiori

Hah. in Syriâ ad *Aleppum* Aucher N° 40S7.

AfDria *L. Mtchauptano* a quo differt indnmento blapido nee cano- tomentoso, foholis mlnonbus vix 3 Ineaa longts, calycfnis ladniis angustionbufi apice subulatis, earinâ magis incurvâ. *L. JftcAouxano* ascribenda specimina e monte *Demawend* in Kotschy pi Pers.bor sub n" 697 dlstnbuta ut et planta in collect. Kotsch. Alep. Kurd, e monte *Gara Kvrдутанm* sub *L. cornieulato* var *hvrsutissimo* distrlbuta

LOTUS LAHPBOC&BPUS BOISS.

L. perennis pills patulu densus brevibus cineraBcens, canHbas dlffusla vlr-gatis longissimis ramosis teretibus, follis breviter petlolatis, follohs infimorum obovatis obtusls superlorum oblongis acutls, s(1-puliB ovatis acutiucnlis basi latiorl saepè snbeordatis, capltulis s-3 fioris pedunculo folus 3-4 pl6 longiori suffultis apice bracteis 4-3 ob longis acutls calycem subsequantibuB Buffultis, calycis cinerco-hispidi dentibua anguBtè llineari-subulatis tubo obconico sesquolongioribus inferiorl deflexo, corollâ flavâ calyce aesquolongiori, vexillo alas ovato-apathuiatas sutwupmnti, earinâ lalorc infenon rotundala

apice auwui.iti alis vix longior, sUgnule minulo oblique capitate, Icguniiiubiis recilB angustf lineanbus subcompressis caljee quadrupl6 longionbui cinprco-nitentibus quasi seriucis sod glabernniis, valvulia septatis, sommlbus minulis globosis vindibus

Hal) in humidis lirrIndis AtLirai ad *Plialerum* Spruncr' Heldreich Floret ashlatc

Caulcs ssppl¹ jupcd.ilcs, folioli inajora 6-7 lin longa 3-4 lala, floras magmtudinis *L hwi>d* el *angustwsun* Leyumen 9-10 lin Ionium lincaim circ lilum A spdk'bus suprã citatis difflun radice perenni, cannfk subitis noil nngulaU, lepumuic lation, caulibus robusionbus Afimis quoquo *L dcrumhenh* Poiret cujus specnmina b«rb *De n* tmrto Pans difliirunt (lonbus ilnplo majonbus, caljcis corolla diitudiu breMons dcnlibus Lubo uiqiulongis, lopumme non senceo-nilunll

LOTUS GASTRLLANLH BOLSS et Ili'uU'i

L animus multicauib, cuilibus procumbenlibus ngidis fihfor-roibus elongalis glabnuscibus a bau ramosissimis, folus subscsilibus foliolis oblongo-i'lhpicis acutis Luberculato-lnrtilis termiDah majon,' stipulis scnuo\,ilis aiAiLis, Iluribus4-1 nuuulis pedunculo tenuiBsimio folio duplũ longior apiu 1-2 brat'Lois nunuLis oblongo - lincaubub obsito suffuJlis, cilyi'is hisjuduli donlibus hncan-subulalis tubo ses-quilongionbus pcccto-patulis, (orolli flavi calyce duplA loogiorl , vexillo ovato alas obovataa obhquas superanli, cannfat aagulo recto curvalA parte superior] valdi- atenuatd acutd, Icgumine leoui cylindriuo calyce 2-' ,\ pl6 longior

Ilab in arvis circa *San Pablo* propfe *Toletum* in Jlisiamfl, cl. Reuter legit Julio 4841

Caulcs pedales vel longiores lenuissimfe vlrkali a basi sincliuscule ramosisslmi pamuilam amplam valdu sparsifloram forraantes, flores niagnitudims eorum *L htspuli*, legumma *i-b* ho longa. Ab afflmi *L. htspulo* Desf. dislinguUur glabrescenh. caulibus virgatis ramo-sissiniis, caljcis dentibus angustias subulatis, logumme brevion

LOTUS CAIMILI Bmss

L Jimuus, pihs ailpressissimis breMssimis sparsts sub Irntc obsiius pallide vni'iis cjiilibiii basi MUIOSIS dccdinbonlibus lenuibus (ere-

tibus flexuosifolius, folus breviter petiolatis, toliolis ovatis vel obovato-cuneatifolius obtusissimis, stipulis ovalis petiolo longe longioribus, foliis subnatis lobis sobUnis raris bimis pedunculo folium axillare multo superante suffultis basi 8-3 bracteis oblongis calycis squilongis obsitis, calycis adpressis pilosis dentibus lanceolatis acutis tubo obconico paulo longioribus inferiori subreflexo, vexillo ahs obovato-spathulatis in longioribus, canna angulata ad apicem basin hinc incurva attenuate acuta, stigmatibus capitato, leguminibus glaberrimis cylindrico-hispidibus rectis torulosus polybracteatus calyce multo longioribus brevissimis mucronatis, seminibus globoso-subcompressis verticalibus utraque facie (an semper?) foveolatis, valvis transverse septatis.

Hab in monte Carmelo, legi Haio 1848

Caules 3-8 pollicares, foliola inajora 4-5 lin longa, Dore filis *L. peregrina* paulo minores, legumen fere sesquipedale diametro M; S lln. latum affinis *L. peregrino* qui differunt in indumento sensentio, foliis binis, pedunculis folio brevioribus fructifera incrassatis, leguminibus semibusque dimidio minoribus etc

L. Aucher Boiss Diagn 11 p 88 est species delenda. Ex specimenibus a me ipso in arvensis prope Gaza lectis ad formam majoram *L. pvestrii* Vill redigendus est

COLUTEA HELAKOCALYX Boiss. et Ocultr. In pi Anal exs UG

C. fruticosa caulibus striatis fuscis nigris nimis junctibus vinctibus plerumque albis adpressissimis brevibus obsitis, folus 3-5-jugis, foliolis ellipticis rectis superius glaberrimis subtus adpressissimè et parot hints canescensibus, racemis a-5 floris folio axillari subduplo longioribus, calycibus tampanulato oblique pedicellato pedicello pilis densis fulliginosis brevibus tomentosis dentibus triangulatis uncinatis acutis tubo subtriplo brevioribus, corollam auranliaco-luteam, vexillo ovato-spathulato obtusissimo subretuso gibbis baseos (saltem e sicco) fere obsolete, ahs anguste linearibus paulo super basin angulo recto infracto curvatis pane super non verticali carinis sublongioribus, lobo basilari stipite paulo brevioribus, canna valde cuneata obtusissima truncata, leguminibus stipite calyce duplo longioribus suffultis aulis cibus

Hab. in sylvis abietinis Lycia? In monte *Citracax* et montis *Solyma* floret Marl, fruct. Maio n. Jdr Eadem speciem se nuperrimè in **Grecia** quoque legitur. mo monum am Helilpicli

~~Species~~ calycibus mgns olegaos insuper a *C arborescent** distmcta floribus majonbus, calycis inbo magis elongaio, alis anguslloribus aculiusculn basi angulo recto fraclis nee subincurvis *C. eruenta* Icguine hianti et *C Aleppica n Perstca* alis CODVOIUS longius distant

OXVTBOPIS KOTSCIIYANA Botes el lion in pi l'ers bor. exs 4B46

0. tola indumento flavido patulu ad folida adpression senceo obsila uulescens, caulibus plunbus sulcatis fohosis, folhs breviter petlolalis4SH7jugi8 foliolis linean-dlipticis basi rotundatis acutiusculis, stlpulis vircseculibus hJiuns foliorum inferiorum lincanbus superlorum oblon(jo-lanccolatiB acutis foliolo pauld majonbus, racemisoblongis laxiusculis peduiculo crassiusculo slnato bupido folia mullo supuranu ux aullis supremu orto suffullis 4-3, pedicellis cal^cis tubo tnplu brevionbus basi bractcoISi setaceft eis dupl6 longlon suffultis, uilycis njgrescuculis pitis mgns brevibus aliisque longioribus albis patulis hirsuti tubo cylindneo dentibus a basi lation setaceis tubo paulo brevionbus, corolla lilauna calyco duplo longiori, vexillo oblongo elongato acutiosculo pllcato subrefleio alas lanceolatas acutas superaoii, caring margmc superiori recta inferior! curvala ID niucronem setatcum longiusculum alas aequantem abeunti, Icgumine brevissime et Gparsim tomentello obloogo-cylmdrlco subcompresso infeme sulcato in stlpitem calyci subxquilonum abrupte attenuato ID rostrum longiusculum rectum abeunti.

flab, in collibus argdlosis ad radices monUs *Demawend* Persia; borcalls prone *Lor* Kotschy N° 33S.

Caulcs cum peduncoLiB 10-42 pollicares, folia 6-4 pollicaria, foJlola 6-7 lineas longa 8-3 lala, corolla circiter 8 Jin. longa, mucro carlns sesquillneani longus Pulchra species habltu dentibus calyciois setaceis foliorum formâ 0. *Auchtn* rafcraDs sed caulesceas nee aeauliB, folia 1M7 nee 6-7 juga, calycis tubus longiorangustior etc.

ASTEACALUS EMABGINATDS Lflblll DtN! 1 lab. 9 (Sect. *UypO-tjlottulei*)

A griseu-toinenlobus, fuliw ainbitu late linranbus elonptis 20-30 jugis foholis demum scjunctib oblongo-ellipticis rulusib, peduiculo longissimmo, flonbuK ciam post anlhcsn ileus* ovato-capitatu, itenti-

bus calyciois tubo siutequullongls, legumlue ovato oblongo acuto
pills rafescentibus denslssimis patulls ejus diametro sequilongls obslto

Hab. in Lifano (labffl) raonte *Hermone* In lalere occidentsli su-
prâ *Hasbeya* (Pestalozza I)

A. emarginatus B. *Billardten* DC.

A. emargxnatx diagDosem blc dare utilc diui propler species plures
cum co bucusquc confusas et blc desclrbendas.

ASTBAGALUS OXYTBOPIFOLIUS Boiss. (Sect. *Hypoglottidet.*)

A. acaulis, totus griseo vel flavido lanatus, caudicibus brevlbns nu-
dls rosulas paucifolias edentibus, foliis ambitu oblongo-lineanbus JO-
SS jugis, foliolis \aldc approximatis brcnler llnearl-rectanganbus
apfce truncatis, pedunculis ascendentibus folia paulò superanlibus
plhs patuhs supernè ssepibs mgrlcantibus binutis, spicâ densft ovatfl
fructiferâ oblongo-cyhndncâ, bracteis hneanbus mgro-hispldla caly-
cino tubo aequilongls, calycis densè rufescentis bispidl dentibus setacds
tubo dlmidio sublongionbus, corollâ vlolaceâ calyce scsqulongiori,
veullo oblongo alas cannamque quartâ parte superanti, leguminc
oblongo-tnquetro pllis sordldè albis patolis ojus diametro squllatis
densè birsuto In mucronem subincurvum tenuem eo subloDglorem
attenuato.

Hab. In alpnis totius Añatollae mendionalls, *Cadmt* suprâ *Colos-
sam* Boiss., *Cmna* Pmard, ad *Tchelttcktohi* ct in monte *Davros Pwtdm*
Heldrich, Aucher N° 43S3 in Asiâ mmorl, in collibus propè Aleppum
KotschyNMOO.

A. emarginatu8 varior. auct. non Labill.

Folia 3-5 poll, longa medium versôs 6-8 hn. lata, follola 34)1-6
lineas longa 8-3 lata, capitata fruclifera magnitudine nucls, legumen
cum rostro **9-40-lin.** longum. Species ab *A. dennfolio* et *chrysophyllo*
foliolis lineari-quadratls multb majonbus, pedunculis crassis palulè
UrauUs capitulis magnis distfncta. Ab *A. emarginato* cujus follola
elongata habet dignoscenda pedunculis follisque abbrevlatls, foliolis
multò densionbus et Inpranis legumine longisslmè nee brevlssiinc
roslrato

ASTBA(AlUt LISTUMIA Boiss (Sect. *Hypogtottedei*)

| SIKUVIIIIS lotus (riKpo-lanatr« priseus, candlcibus **abbrevialis**

prostratis nudis, foliis linearibus paucis remotis, Jugis am-
plitudine linearibus, foliis linearibus; trichotomis
rotatis, pedunculis crassis rectis racemum longum densiusculum cyto-
trichum ferentibus, bracteis linearibus calycibus palulis rufescentibus
hirsutissimis subsquaratis, dentibus calycis linearibus sub-
aequilongis, corolla e sicco purpureo calyce duplo longior, Ingu-
minum.

Hab. ad rivulos in parte suprema montis *Elmadagh* Anatoliae, Lad)
Lisbon in herb. Hooker Fl. Jumbo

Folia 8-9 pollicibus longa, Petiolum 6-8 lin. longa 3-4 lata, pedunculi
in specimine non integre probabiliter longior, racemus 5-6 poll., longus
8-9 lin. latus, calyx 4 lin. longus. Species foliis *A. emarginatis* do-
nata ab eo et cum *A. oxytropifolia* similis specie longior cylindrica nec
obtusiuscula

ASTRAGALUS DIBENIENSIS Lam. Diet. I, p. 347 (Sect. *Hypoglossum*)

A. glaberrimus, foliis ambitu anguste linearibus brevibus 80-85
jugis, foliis minus distincte approximatis rotatis retatis, pedunculo
folia vix superantia, foliis in capitulum ovato-rotundum densissime
aggregatis, calycibus adpressiusculis nigricantibus subaequalibus seta-
tibus dimidio tubo longioribus, legumine ovalo compresso lanâ longitudo
laxiuscula hirsuto in mucronem tenuem rectum eo triplo brevior
attenuate

Hab. in *Arvenis* Tourn. in monte *Argh* Cappadociae Rostan in
herb. DC. monte *Gaidar* *Tauri* 7500'-8000' (Heidreich)
1. *Rostan* *Bou* *Dian* *Hex* parte

Folia 3-3 pollicibus longa foliolum diametro 4-1; S. Hn. lata, pedunculi
3-4 pollicibus, capitulum magnum inter nucem et avellanam media —
Sub *A. Rostan* meo conjunctam bene speciem nuhi DUDC ex autopsia
speciali. Tournefort bene notam et sequentem quosum satd. Terre videtur

ASTRAGALUS CHRYSOPHYLLUS Boiss (Sect. *Hypoglossum*)

A. bailiifolius, foliis subaequalibus linearibus Indumento flavo-
virescente sericeo obsitis, foliis ambitu late linearibus sub-40 jugis, fo-
liis ovatis retatis vix distincte approximatis, pedunculi* foliis paulo super-
antibus, foliis in capitulum parvis globosis positis ovatis

dense congestis, bracteis laevibus tubum calycis subaequantibus, calycis patule rufescentis dimidio tubo sublongioribus, corolla leucophaco-violacea calyce sesquialongior, legumibus pilis rufis longissimis hispidis ovalo-triangularibus subcompressis ID rostrum rectum eis aequilongum sensim attenuate.

nab. in Sjrue montibus prope *Antab* et in monte *Mouzourdagh* Cappadocia: Aucher n° 4351

A. Rostant Boiss. Diagn. c\ parle

Folia 4-5 pollicana A-B lin. lata, foliola a hinc circiter longa, legumen cum rostro 6-7 lin. longum *A. densifolia* forma foliolorum et foliolis abbreviatis affinis differt foliis 4-5 nunc 80-25 jugis, legumine longissime rostrato, indumento auriciformi nee pubeo.

ASTRAGALUS ERIOPUTILLUS Boiss. (Sect. *Hypoglottide*%)

A. acaulis nanus totus densissime et adpresse sericeo-lanatus generosus, foliis abbreviatis ambitu laevibus 4-8 jugis, foliolis minutis ovato-oblongis etiam adulescentibus villosis connatis, pedunculata folia vix superantibus, floribus in capitulum pauciflorum rotundum demum ovatum congestis, bracteis oblongo-lanceolatis calycum tubum subsquantibus calyceque densis et adpressiuscule hirsutis, dentibus calycis lanceolatis setaceis tubum dimidiata subsquantibus, corollam albam calyce subsesquialongior, legumine pilis tomentosis rufescentibus biseriatissimo oblongo-compresso in mucronem brevem rectum attenuato

Hab. in monte *Tawo* Kotschy N° 426

Planta vix bipollicaris, folia pollicem longiora, foliola vix 5 lin. longa. Corolla 6 lin., legumen cum mucrone 6 lin. longum. Affinis *A. detusifolia* a quo foliolis non orbiculatis, calyce non nigro-piloso brevius dentato, legumine multo densius hirsute differt. Intermedius inter hunc et *A. lanafam* Labill. Dec 1 tab. 10 — *A. Itbanotxdem* 'W. quem in summo cacumine Hennons legi! atque *A. hynutximum* DC. Astrag tab. 49 in monte *Maknul* Libani frequentem, ambo inter se distinctissimos quamvis in Prodromo Candolleano conjunctos et ab *A. enopkylo* foliolis magis dissitis leguminibus ovatis maps compressis rostro incurvo instructis facile distinguendos

ASTRAGALUS CBDUTI BOWS. (Sect. *Hypoglottidet*.)

Planta vix bipollicaris, folia pollicem longiora, foliola vix 5 lin. longa. Corolla 6 lin., legumen cum mucrone 6 lin. longum. Affinis *A. detusifolia* a quo foliolis non orbiculatis, calyce non nigro-piloso brevius dentato, legumine multo densius hirsute differt. Intermedius inter hunc et *A. lanafam* Labill. Dec 1 tab. 10 — *A. Itbanotxdem* 'W. quem in summo cacumine Hennons legi! atque *A. hynutximum* DC. Astrag tab. 49 in monte *Maknul* Libani frequentem, ambo inter se distinctissimos quamvis in Prodromo Candolleano conjunctos et ab *A. enopkylo* foliolis magis dissitis leguminibus ovatis maps compressis rostro incurvo instructis facile distinguendos

bus nudis apice paucifolialis, folds SO-gbjugis, luliolls mininus ovato-oblongin rutusis approximate sed demüm non conuguls, pedunculo ascendenli follis subdupld longion, capitulo ovalo denso, bncteis linean-setaceis calycino tubo subaiquilongis, calycis patulu hiepidl interne valda attenuall dentibus setaucis patulls flexuosig tubo Inplo brevioribus, corollä roseä calyce sesquilongiori, leguminc...

Uab in Ipso Cedreto *Libant* scptentnonem versus rarus, Julio flonferum legi.

Folia 1-1 *ift* pollicana, foliola s hn. longa scapus 9-3 pollicans, flos 5-6 IID. longus. Species pulcbella afOnis *A densifolio el enophyllo* ab eib calycia tubo Inferafe altenuato, denibus tenuissimis flexuosis, corollä roseo-purparascenti nee violaBcenli-leucopbsä distinctissima.

Astragali omnes pracedentes Inter *Hypoglottideos* sectiuDcubm formanl distmclam folns muHijuKia follolis ad basin et apico folu de tTcscentibus adpressissimis Ill folio junion inter se adcö intricatis ut folium indivisum siraulent. Time pregi sed minus arch¹ accedunt *A. lanatus* et *A. htrsutmimus*

ASTRAGALUS cAPiToBoiss. et llolien in PI Koisch Pers. Lor 4846.
(Sect. *Hypoglottidei*)

A. lotus pilis adpressis gnscus soriceus, radice verllcali crassa, collo caules plures brevissimos procumbentes in caspllem densè confertos edeotl, folus brevissimis 40-15 jugis, foliolis mimmis ellipttcis compllcatis imbricato-confertissunis, stipulis membranaceis triangularibus acutis basi extenorl in unam breviter connatis, pedunculo tomentoso folua jEquilongo cespile vix exserio, capitulo denso compacto ovato-globoso, bracteis oblongis viresceDlibus birsubs calycis tubo subbrevioribus, caljcis albidu bir&uti dentibus lineari-sctaceis bispidls tubum subttquantibus corolla Oavido-leucophoji vix brevionbus, vexllo oblongo alas cannaoque suba^quilongas parüm superanti, legumine.

Hab. in montc *ToUehal* propè *Teheran* Kotschy N° 571.

Folia lin. 9-40 longa, foliola sesquihoeam vix longa, capitula magmtudine inter nuccra et avellanam media. Aflnis *A. %pharantho* qui differ! foliolis longionbus, capitulis dupld majonbus, calyciuis dentibus tubo dupld longionbus. Arabo prope *A. barlatum* Lam. et cum *A. htrsuto*, *globoso*, *eylmdraceo* el *pelhgero* inter *Hypoglottideos* propè gregem *A emargmatt* collocandi

ASTRAGALUS PmTAuwz/K Bow (Seel *ifyfiogloiUdti*)

A pwenms, cauliculis tenuilur ilhformnbus repentibus, eaulibus 4-4 punihs tenuibus adressc̄ cancscentibus, fohis paucis petiolo tcimissimo suffultis 1 H 7 foliolatis foliolis ellptico-linearibus retusis ulnnque adprushē cancsienhbus, stipulis margine fohaceis pills uigns albisque adpressis hirlis in unam oppositifoliam ad tertiam partem usqui¹ luldiam coalitis, prdunculo subsollano folns a>quilongo, capitulo 6-9-floro, brautcis oblongis nigro-sctosis calyce triplb brevioribus, calji-c o\linilriro adressc̄ albo mgroque setoso dcentibus setacels palulis dimldiâ tubi parte longionbus, corollâ pallidfe violaccâ caħce tcrliâ parle longion, |e\Ulo glabro linean alis quar|A parte lonpion, alls rrtusis cannam paulo suporjntibus, leguramo .

Hab. in montibus propi *Elmalu* Incise Pestalozza

Planla 2-3 pollicans, folia 1 |ft-l pollices, foliola 3-I 1/2 poll tonga, pedunculi bipollicares, corolla 5 4/9 bn longa Planta lenella fructn carente incomplelr nola quoid habitum affinis *A. Lastoglottdi* qui lonpr differt petiolis a basi noc a medio foliolifrn̄s, caulibus mini'is tenuibus, calyrim̄s dcentihus minns aelaceis

|sTR|r.Ai.i;s EuBRicnioiDKs Boiss (Sect *ftypoglottdet*)

1 percnnis, caulibus elalis teretibus strtatis adpressi¹ pilosulis aimplicibus vol raroulo uno altcrove a\illan instniclis, foliis a basi pelioli 43-i:~ jiiigis, foliolis utrinqui^ adpressu i-anescentibus plliptico-hncanbus aculiusrulis, stipulis mumbrauaccis in UDdiu oppositifoliam ultra medium in 2 denies triangulares bifldam concretis, peduncubs crassis folio longlonbus, capUuhs densis oblongis sub Dnc antheseos aplco atenuahs, hractcis hneanbus calycis inbo aeqmlongis, calycis tubulosi pills albis adpressis lursuli dentibus setaceis lubo tnplb brevioribus, corollâ rosea ralyce plbs duplo longiorl, |exlllo hnean alas fere duplb superanti, alis Unearibus obtusis cannam paulo superantbiu, legamine striclo breviter oblongo-linear tereti sutura inferion subsulcato in rostrum bre\issimum subrecurvum altenuato

Hab. in *CappadoctA onentah* Aucher n° | 368.

Caulla aesquipedajis, folia *me* tripollicaria, fobola CUT b-8 lin longa A-| 4;t lata, spica flonfêra 4S tin longa. flores^rc 8 lin longi, legumen 4 Hn. longum dlametro 4 4;4 latum. A b'fl^m A. *ono~ttrychxotdi* praetor ranlom datum foliola angusiiora shpula^Itiün <on-

tretas differ! flonbus dinudiò m moribus seeds spicaj axim nullu roa-
gis stnclis, ralycis dentibus sefaceis, legumimbus glabrescentibus axi
stnctissimis brevissime rostratis

ASTBAGALIIS HBDICAGINEDS BOISE¹ (Sert *Bypoglottdn*)

A. caulibus sulcato-stnatis pilis albis brevibus pare* et adpressis-
simè sub lente obsilis superne ad pedunculorum ortum dncrgentim
et subdicbotomè corymbosis, petiolis suprà basin 6-7 jugis, foliolis
ellpticis acatiusculis utnquè parcè et adpressissimè birds, stipulis
membranaccis in unam oppositifollam bidentatam breviterconcretis,
pedunculis sulcatis ngidis folio 3-3 pl6 longionbiis, capitulo ovato,
bmcteis linear-setaceis calyce multò brevionbus, flonbus patenibus,
calycis adpressfe albo-hirsuti deolibus linear-setaceis tubo tnpl6 bre-
vionbus, corollà cxruleo-violaccà calyce plus duplb loogiorl, venillo
lmean glabro cannt dupl5 longion, alts cannam paulo superantibus,
legumine adpress^d cao minimo caljccm vix superanti obloDgo-lincan
in mucronem subincurvum brovisnnum attenuato sublùs suleato.

Bab. in *Mesopotamia* inter *Orfa et Suerek* Kotschy N° 53.

Caulces pedales corymbose 3-5 cephali, foliola 6-6 lm longa | 4;2
lata, capitula fructifera polhcaria, corolla 6 lin Jonga, legumen 3 lin
longum, habitus quodammodo *Medtcagmts salute* Species ab *A ono-
brychluouli* et affinibus caulibus subdicbotomis, floribus legumimbus-
que nullo mbonbus distinda

ASTRAGALUS LILACINVS Boiss (Sect *Hypoglottddei*.)

A collo indurato multicaulis totus adpressissimè senceo-canescens,
caulibus ascendenlibus brevissimis, folns radicaibus cauhnis paucis,
petiolo tenui a medio 8-12 jugo, foliolis angustè ellipticis acutiusculis
utrinquè senceis, stipulis byalino-membranaceis in unam oppositifo-
liam biinispidatam concrelis, pedunculis caule folisque multb longio-
nbus stnctis, spicis densis ovatis fruebferis oblongis, bracteis seta-
eels nigro-hirlis calyce tnplft bre\ionbus, calycis pihs albis Digris-
que densè sencei deatibus mgris tubo dimidio squdongis, corollà
hlacina calyce dupl6 longion, vexillo linear! glabro alls cannfque sub-
jequahbus lertQ parte longiori, legumine adpressè hirtio minimo
cal>cem te^vix superanti oblongo subcompresso subtiis suleato in
roslnim bmw subinounum attcnuatn

Dab. io Persia boreali ad radices inontis *Demawend* propè *Lar* Kolsby n° 312

Caules i-2 pollicares, pedunculi $\sqrt{1-1}$ pedales, capilulum floriferum pollicare, flores 7 lin long!, legumen 9 1;2-3 IID longum rosro sesquilineam longo terminatam. Species spiels nigro-sericcis insignis a grege *A Mesogitam* et *Lydn* legumine non vaidè curvato discedens Afflnis quoque-4 *canescenU* DC. Astr tab 46 qm differt pedunculis brevioribus , spiels paucifloria, bracteis ovato-oblongis, dentibus calycinis triangularibus brevissimis

ASTRAGALUS EXPANSUS Boiss (Sect *Hypoglottidet*)

k totus adpresse canescens basi multicanlis, caullbus I ramosls longisslmis bumi cpxansis tereti-strlatfs teuuibus, pel is paul6 suprâ basin 6-8 jugis, folfolis infenorum ovato-oblongis $t >$ >erlorum elllptico-haeanbus, stipulis part is membranaceis In *warn* oppositl-folfolam truncato-bidentatam concretis, peduncolis folio subdupl6 longioribus, capitubs florifens ovato-rotundls densis frucUferls oblongis, bracieis oblongis brevissimis, calyce lalere supenori (sub vexillo) albido byalino, inferior! plus albis nignsque adpressis birto dentibus lineari-setaceis dimidlo tubo subloogioribus, corollâ caruleo-violacefl calyce triplô longiorl, vexillo glabro oblongo-bneart recurvo alls lertiâ parte longion, carlnâ ahs breilorl, legumine adpressè cano calycem parUm excedenti oblongo subUis sulcato in mucronem brevem **vix curvatum attenuate.**

Turoei in colhbns calcareis propè *Rascheya* Aotihbam, legl flonf **Vitro neunte.**

sninns nuouiroi I-S pedales prostraii peduocolos plures edentes, fo^podiodrqioll. foliolii 4 1/J-3 hn louga, capitula flonfera avellana pM¹) minondeiD elongata, flos 5 lin. legumea 3 **lin.** longum. Ex afflnllatt *m*L»edtcag\ne* et *Itlacim*, ab eis caulibus prostratla etc diatinctus. Afflnis quoque *A. Kotsohyano* Boiss qul caules abbreviates floresque dupl6 majores purpurascens babel.

ABTBAGALUS HKLDUICBH Boiss. (Sect. *HypoglottvUi.*)

A. basi suffrutescens lotus indumento adpressissimo subsrlrgoso senceus vel scrfceo-flavldus, caullbus abbreviatis prostratis, foliis brevibus a basi dense 7-10 jugis, follolle oblongis vel oblongo-ellip-

ILIS uimmb, btipulib in unani opposilifoliain ovato-rotundam obtuse
n uncatō - bidentatam coalitis, pedunculis folio 3-4plo longioribus,
ciliulibus ovato-rotundis, bracteis minutissimis ovatis, calycis pilis
albis ulgnisque adpressis vnteei dentibus nigerrimis lubo triplo
hruvionibus, coroll.1 calyce 2 1/2 plo longior, texillo glaberrimo an-
gustō oblongo alis quarlâ parte suffi vix longior, canuâ aids suba>
(fianti, legummu

Ilab in pasru¹! aaxisregionisalpniye uiontit *Daoros dagh PuHut*
At, 'JOOO-6000, in *Cadmo* suprâ *Geyra* (BoibS)

Caulis cum pedunculid 1-b pollicares, folioKH |ji-Hjt)m longa,
lorces 61m longi Valde affinis *A Lydio* quoi uui otmi rjub specimina
m Cadmo lecu confusi undc erroneo vxilluiti *A Lydu* quod reverâ
(ifiPSoadpressi'seLiilosumcsiglabrumessedixi *A LydnuabA Held-*
retchu diffort foliolis paulo majonibus, stipulis longiuscul6 nee bre-
vissnnp bidentatis, bratteis ssepius ealjus tubum subxquantibus,
cyljicis denlibus dupJô longioribus, \exillo subsenuo alis saltern
tertjj parte longior, alis cannani multu supcranlibus, *A canescens*
]c (ab *A onobryclaoide* diversissimus) utnque speciei valde afUnis
differt caule subnullo, br.Klcis latioribus ovato-obloo^is, calycis den-
ubus brevissimis latioribus, iudumento minus senceo *et* eadein species
esi au *A psoralotdes* W liorb' ot Sp' non Lam Error Willdenowii
in hac confusione ortus est e s>non>mo Tournefortii *Astragalus co-*
jointvlis tnfofn btturnvtost duabus plantis diversis commuDi

A onobryehundea Pinard pi Anat exs non *VLB id A Lydtum n-*
Icrendus esl

ASTHAGALUS TKIKHANICUB BOISS el lloben in Kotscli pL_{cen}¹s
bor exs 4846 (Sect *Hypoglottidet* J **pauc**^{Jg}

A totus pilis adpresMs Lano-argyreus rhuomatts lip¹acutiu!J^{sl}U^{se}
mullicauli, uulibus illif(irmibus ascendentibus pedunci^{mm} <?P¹)?divan-
ratos folio duplo longiores edentibusad eomminsertionem divaricatis,
folns brevissimis dense 4-7 jugis, foliolis minimis oblongis acutiua-
cuhs subcoimplicatis, slipulis nunimis herbaceis in unam acutê biden-
Mam brevissimc concretis nipilnlis densis subrotundis, bracteis
inean-setaceis calicis lubo dimidio brevioribus, calycis dense et
~~adpressc ilbo~~ lursuli dt'Uibins liotan-setaceis tubo terdû parte brevior-
~~ribui~~, corollâ purpureo-violaceâ calyw subduplo longior, veullo
~~oblongo~~ .ipitc alU'iuialo .iMiliuscuIn .ihs PannAqui* subsequelibu*

quarâ parte longior, ovario linear! recto adpressè hirtulo, leguminc.

Bab. in lapidosis propè urbem *Teheran* Kotsch 1 cit n" 49

Caules 3-5 pollic , folia somipollicem, foliola 2 lin circ. longa, capituli avollanfl paulo majora, flos 4 $\frac{1}{2}$ hn. longus. Species quantum fructu ignoto duudicare possum affinis *A. onobrychwidii* M. B et *A. Georgico* BOISS ab eis distinctacAuhbus abbreviate, foliisbrevis-
simis minibus, pedunculis breviter divancatis, calyce non patulè hirsuto, vexillo breviori etc

ASTRAGALUS *Lycitis* Boiss (Sect *Hypoglottulei*)

A totus pills adpressissimis gnseo-canescens, candice lignoso pluricauli, caulibus rectis leniibus striatis simpliciusculis, petiolis paulù suprà basiD densr 11-13jugis, foliolis minutis oblongo-ellipticis subcoraplicatis obtusis, pedunculis folio S-3 pl6 longioribus, spiels brevibus ovatis paucifloris laxiusculis, bracteis laDceolatas calyce multo-
Utisbrevioribus, calyce adpreBstè albo-bireuto dentibus setacels tubo quadruplii brevioribus, corollâ purpureo-violaceâ calyce triplb longior, vexillo linear retuso alis cannaque subsequahbus terbâ parte loogion, legumue adpressissime hirtulo angusbssime Jineari-cylindrico suprà nervo prommedti subttis sulco percurso calyce duplb longior in rostrum longum deflexo-recurvum apice attenuato.

Ilab In *LyaA* propè *Elmalu* ubi legit amic. B* Pestalozza.

Gaules circ. semipedales, folia sesquipollicem foliola 1 $\frac{1}{2}$ -t longa, capituk 8-4Qflora, floras lineares angusti circ R lin. longi, legumen absque rostro b lin longum vi\ diametro lincse 3;4 latum roffiro tenul % hn longo terminatum. Ilabitu valde refer! *A. Stev-numnm* legumine recto longissimo diversum, affinis quoque *A. orru-thopodtouti* qui est planla bumilior, foliis 6-7 jugi6, flonbus fere (hmidi6 mmori^, a, legumine e dscenpilone sursum nee doorsum curvato. *A. mOnpterua* Gnseb. tandem a nostro racemis laxloribus, dentHms calydB tubo quintuple- brevioribus, vexillo alas tantum paulo superanti etc differt.

ASTRAGALUS ELBBUSENSIS Bolss. (Sect. *Hypoglottidet.*)

A. lotus densè et adpressè argyreo-canus, caudiibus induratis, caulibus ad rosulas foliorum subelongatas reductis, folus conferUs breviter pet mhlis densf 7-9 jugis foliolis minutis ovato-ellipdcis oh-

liis, stipulis inerabranaceis albis in unam oppositifoliam breviter bidentatam coalitis ad basin pedunculi imbricatis, pedunculis scapiformibus folio in parte longioribus, capitulis breviter ovatis densifloris, bracteis setaceis tubo calycis dimidio brevioribus, calycis pilis albis urgentibus paucis adpressiusculis senceo-hirsuti dentibus nigris aetaceis tubo subsquidngis, corollae violascenti calyce sesquialtero, vexillo oblongo-lanceolato supernè subattenuato obtuso ahs quarta parte longior, ahs cannam paulò superantibus, legumine adpresse cino anguste elongato-oblongo apice in mucrone rotundum brevem attenuato calyce 1/2 longior

A. alyssoides Kotschy pi Pers bor non Lam.

Hab. ID jugo *Char Gardene* suprâ *Anadbar* In parte occidentali moos *Elbrus* alt 8000 Kotschy N° 469

Folia cum petiolo 6-40 cm longa, foliola 3 in petiolo longiora pedunculi 2-2 1/2 cm longi, capitula avellanà vix majora multiflora, floras 3 in lineam longi, legumen 2 1/2 cm longum. Valde affinis *A. alyssoides* pro quo *earn* ex descriptione et icona Candolleanâ eum babul sed nunc plauti Tournefortiana Armena quam vidi mihi differre videtur, flonibus flavis, calyce parcius hirsuto, corolla calyce plus, duplo longior, vexillo angustissimo canafu duplo longior, legumine breviori ovalo-oblongo.

Amalecitanum Boiss. (Sect. *Hypoghttuia* J)

A basi suffrutescens cassipilosus totus adpressiusculis pilis biparalitis cano-senceus, caulibus brevissimis erectis, foliis radicalibus caulibusque brevissimis petiolatis 3-4 jugis, foliolis oblongis acutiusculis, stipulis glumaceis fusciscentibus glabris apice ciliatis in unam oppositifoliam vaginantem elongatam lanceolatam apice breviter bidentatam petioli parte nudâ longiorem concretis, pedunculo folio paulo longior apice 4-5 flores capitatos ferenti, bracteis linearilanceolatis calyce triplo brevioribus, calycis pilis albis paucisque nigris hirsuti deolibus mgnantibus linearibus tubo quadruplo brevioribus, flonibus, . legumine Junior calyce larero vix longior oblongo aculo submutico lani albâ densissimâ ejus diametro aqualloaga > illoso

Uab in regione *Amalecitanâ* ad flos Pabestinas ad meridiem urbis *Gaza*, legi jmm fructif. Anni 1847.

Cault's *Am* pedunculo 3 poll longi, foliola 3-3 in lineam luugu, sti-

pulse 3 IJS-4 Ira longs, flores ex reliquiis vaginae slamneffi ampli videntur forsā pollicares, legumen junius 5 lin circ longum Affinis indumenta, legumine et babilu A. *Helmn* Flsch. qui tamen differt canllbus subDullis, foliohs majonbus obtusis, shpulis, lanâ legumims breviori crispâ nee ngidfi etc A *nanus* DC Astr tab. 47. cujas descriptionem et iconem quoque comparavi longiùs distal slipulls profundè bipartite brevioribus, calyce profundè 5 parlito, floribus nullò minonbus etc

ASTRAGALUS SANCTUS BOISS (Seel. *Dmitiflori*)

A. basl suffrutescens coespitoso-multicaulis lotus pilis bipartitis adpressissun&cano-sericeusasper,caullbus brevisaliniB rigidis fragihbus orectis angulato-fleiuousis, peliolis erecto-patults rlgldulis 6-7jugrs, foholis obloagis vel oblongo-lmeanbus obtusiusculls, stipulis minima a petiolo et inter se llbens iriangularibus acutis pilis nlgns adpersis, pedunculu ex eodem caule sspiffts plunbus ngidis folio subxquilongis raccum laxum brevem B-7 florum ferentibus, bracteis triangulari-linearibus brevisBimn petiolulo sqailongis, calycis longè tubulosl basi subgibbl pilis albis aigrisque adpressis hirsuti dentfbus lineanbus nigncanlibus tubo multoties brevioribus, corolla flavldfr calyce vis dupl6 longion, vexlUo subrecurvo alas carinae xquilongas vlx superantf, leguminibus deflexis lineanbus subcompressis falcatorccorvis calyce plùs tñpl6 longionbus apice attenuatis acutis margine infenon convexis supenori vm cannatis adpressè pilosis aspcris

Hab In monte *Olivet* propè *Bethantam* in Judaeà, in *Aralna paraA* Patestins contermina ubi forma foliolis angustè lineanbus quoque ocrnL

Quoad faciem et indumentum A *Amaleclorum* simttls, caules cum peduncnlls et floribus 3-5 pollicares, foliola 3-4 lineas longa, Oores 40-44 lineas loogi, calyx Uueam aut vlx ampliòa longus, legumen 4 \fl-% poll longum sesquilineam vlx latum. Pulchra species A. *enoeratt*, *artoiobo* et *tngonellotdt* luprimis affinis ab eis distinctissima

ASTRAGALUS ANGUSTATUS BOISS. (Sect. *DtSStlflorl*.)

A. basl suffrutescens pluricaulis totus pilis bipartitis adpressissimè canus asper, caulibus brevissbnis rigidis rectis, foliis subtrijugis,

foliolis rismoliusculis oblongo-ellipticis utrinque Jttonualrs acutis, stipulis inminu a pctiolo el inter se hberis lanccolalo-lineanbus, pedunculis folio subSBquolongis racemum laxum 7-9 florum ferentibus, flonbus subsessilibus patutis, bracteis minimis tngulanbua petliolum subxquantibaB, calyce longe tubuloso ban subgibbo pilis albis nignsque mixtis adpressis hirsute dentibus breviter Ijncanbas lubo multotios brcvionbus, corolla flavida calyce subduplu longion, vcxlllo oblongo apice reflexo alas cannamque subsquilongas partim superanti, leguminibus deflexis angulissimfe Jinean-trrciusculis falcato-recurvis calyce pliiis quadruplo longtoribua adpressissimè pills albis nigrisque jspens.

Dab. in *Perna* propfe *Ispahan*, Aucler. N» UZ\.

Yald£ affinis habitu, florum magDitudtae et forma *A sancto* a quo differt foliis trijugis, foliolis acutis, legumine fen- longion sedmulto angustiori [mar 3/4 laLo, ab *A. subulato* et afflnibus foliolis lalionbiit, legimine nullò mapis falcato distinctus

ASTBAGALUS CABULKWS BOISS (Sect *Dtssttflon*)

A basi suffrutescens pilis adpressissimis sparsis multiflons asperulus [Killscens, caulibus virgatis tenuissimis erectis parce ramosis remote foliosis, loins paulu supri basin 1-i jugis, foliolis oblongo-ellipticis utnoqit' atlcnuatis acutiusculs subts margioe subrevoluUs albicantibus, stipulis foliaceis Lngulanbus a petiolo et inter se libens, pedunculo virgato folhs muttolics longion in racemum tenuem superne donsiusculum mfernè laxissimum abeunti, (loribus miuunis subsessilibus, calycis obconici pilis albis mgnsque adpresse hirtuli dentibus linean-setaceis tubo subsquilongis, corolla (e siccoj leucophsa calyce duplb longion, legumimbus demam penduHs oblonffD-lincanbus rcUis trrcUusculs subtiis p^ofund^ suloatis aculis calyce qmntuplb loigioribus pilis sparsis tenuibus mgns adpressis sub lente obsitis.

Hab. in regno *Cabulwo* GnfflUi N° 1099 ID herb Hooker

Plants fere pedalis, folia circ 1-4 I;S poll longa, fohola majors 4-5 lm longa 11 \i lata, racemus fructifer 3-4 pollicarls, floras 21/2 llo longi, legumen ferè *Phaea* sed biloculare 6-8 lin longum ferè *I* latum. AfBmsA *consanguineu* qui diffort racemis densionbuB, legumine dimidib angustion et *A longtped** Kar ft Kir quwpie laxiflora

sed stipulis miulmis laueolalis, deollbus calycls abbreviatis **legu-**
mine ovato-oblongo disincto

ASTRAGALUS PODOLOBUS BOIBS. et Hobenack. in Kotsch. pi. Pers
bor exs 4846 (Sect *D%ss%t%flor*)

A totus pilis bipartitis medium adpressissimis canus basi suffrutescens, caulis ascendens virens brevibus paucifolius in pedunculos saepius binos folio multo longiores lrigatos laxissime racemosos abeuntibus, foliis 2 vel 3 foliolatis foliis longis angustissime lineari-ribus acutis sericeis, stipulis flavido-membraceis in unam brevem breviter biadam oppositifoliam concretis, calyce pedicello eo triplo brevioribus basi minute bracteolato suffulto oblongo basi attenuate pilis albis margineque brevibus adpressiusculis hirsuto dentibus trigulatis acutis tubo quintuplo brevioribus, corollae ciliato-purpurascens calyce plus duplo longior, vexillo oblongo attenuate acutiusculo alas acutiusculas canna paulo longiores breviter superant, legumine ovato-oblongo compresso in mucronem brevem acutum attenuato pilis flavidis ejus diametro sequilongis dense hirsuto in stipitem calycem dimidium aequantem basi attenuato.

Hab. In scabioso montis *Elbrus* prope *Derwend* Kotschy N^o 439 A.

Caules 3-6 pollic. pediculi 6-10 pollic., laxissime 6-8 lineis, foliola 10-45 lineis longa; 4-5 lata, flos circ. 6 lin. longus hinc recurvus, legumen junius cum stipite 6 lin. longum. Affinis *A. oligophyllo* qui differt vexillo magis elongate, legumine sessili albo-hirsuto et *A. podocarpus* foliis plerumque non senceis, stipulis densis, corollis flavis, legumine parvo et breviter lanato distincto

ASTRAGALUS scabiosus. Botsch. et Hohen In Kotsch. pi. Pers. bor.
eis. 4846 (Sect. *Dtisiflon.*)

A. totus adpressissime pilis bipartitis canescenti-sericeus, caudice suffruticosus caules plures herbaceos erectos teretes edenti, petiolo a medio remoto 4-6 jugis, foliis foliorum radicalium ovato-oblongis brevibus caulium anguste linearibus elongatis acutis, superioribus inferioribus in unam abbreviatam albo-pellucidam brevissimè bideatam oppositifoliam coalitis, superioribus triangulatis inter se ferè liberis, pedunculis longissimis folia multoties superantibus laxè floriferis demum lanatis, bracteolis lanceolatis minimis, calycibus sessilibus

rubelll adpresslusculè hlrti dentibus lmearl bustubo **tripl6** brevlonbus, corollfl purpureo-Tiolaceâ calyce duplô longion, vexillo oblongo alas paulo superantl, alls carinâ paulô longioribus, legumine junion anguste llean serlceo calyce triplô longion arcuato

Hah In schistosis mortis *Elbroua* prope *Derwend* Kotschy N° 439.

Caules semlpedales, pedunculi cum racemo demùm pedales, racemus <8-4 B floras, flores 7-Blin longi, foliola foliorum superiorum 6-7 Ho. longa lineam vlx lata Species affinis *A mesoptero* Griseb. qui dffert foliis sub 1/2 Jugls, **foliolis** superioribus dimidlo minoribus, dentibus calycinia setaceis lubo quolotuplô brevioribus, floribus minoribus.

ASTBAGALUB DBMISBOB Boiss.*et Heldr In pi. Anat eza. 4846. (Sect. *Badunflon.*)

A totus adpressè senceus basi suffrutescens acaulis cespitosiu, foliola brevissimis humifexpansis 7-9 Jugis, foliolis minimis elliptidis oblongis plicatulis valdè approximate, stipulis breviter triangulari-lanceolatis acutis petiolo basi adnatis, pedunculis folio 2-3 pl6 lodglobus, floribus 6-8 densè capitatis, bracteis unearibus calyce triple brevlonbus, calycia adpressiusculè bireuu dentibus lmeari-flelaeels tubo dimidiò brevioribus, corollâ flavescenti calyce dupl6 longiori, vexillo oblongo ottoso alas carinâ lonjiores superanti, legumine.....

Hab. in monte *Gheidagh* Tauri *Isaunct* alt. 6000'. Legit Julio cl. Heldreleb.

Folia cum pebulo »-40 hn. longa, foliola 1 4/1 Un. longa, pedunculi 4 4/3-2 pollicares, corolla 7 Un. longa. Affinis *A Sibthorjnano* Bolss. qui capitibus multifloris, calycis hirsutissimi dentibus linearilanceolatis tubo squilongis dffert.

A. Sibthorpuuo ut synonymus adducendus *A. pmnlanthu** **Bolu.** et Heldr. in pi. Anat. e u. foliolis longioribus acotloribus specificis non distinctis.

ABTAGALTO HBLANOCEPHALUS BOISS (Sect. *Veswam.*)

A totus pibus bipartitis adpressisimilis obsitus canescens pallidè virens, caudicibus suffrutescentibus procumbentibus, caulis erecta breribus canis pedunculum noicum foliis multo longiorem edenibus, follis remotiusceniè ijugis, foliolis oblongo-spatbuhun obtusis in-

fernè attenuate suprâ pallid* virentibus subtus griseis, stipulu brevtasinris triangularibus liberis nigro-priosis, floribus 6-40 densissimè capillatis subsessilibus, bracteis linearibus pedicello duplongioribus, calycis pilis albus albus hinc copiosioribus atria erecto-patulis densissimis hirsutis fuliginosis dentibus linearibus atris patulis tubis tertiam partem aquantibus, corollâ flavida calyce vix duplo longior, legumine calyce distensum deinde flossum paulo supero oblongo-compresso to rostrum breve tenue subobliquum abrupte attenuato densè albo-lanato.

Hab. In montibus faun (MtaKotschy N^o 413).

Caules a pollicares, folia 3 poll., foliola 8-9 lin. longa supernè % 4/8 lata, pedunculus 6-8 poll., longus, calyx 7 lin. longus, legumen dimidio major, 3 lin. latum. Species capitulis atropilosis Duce majoribus insignia *A. vesusano* et *albwaitii* affinis a quibus Mollis majoribus, floribus densioribus, pedunculis elaiis, legumine laliori multo longius densiusque villosa abrupte nec attenuatim rostrato differ!

ASTRAGALUS NITONS Boiss. et Heldr. in pi. Anat. exs. 1846. (Seel. *Vesicam.*)

A. lotus adpressè sericeo-argyreus, caudibus hinc prostratis, caulibus brevibus ascendentibus densè foliosis, foliis brevissimis 1-4 jugis, foliis palulis linearibus acutiusculis, stipulis libens adpressè setosis triangularibus acutis, pedunculis in caulis parte superiori solitanis binisve folio multo longioribus, floribus 6-9 per anthesin densè capitatis deinde laxiusculè et brevissimè racemosis, bracteis ovato-triangularibus brevissimis, calyce cylindrico pilis albus ubi adpressiusculis densè sericeo dentibus mercanti-pilosis linearibus brevibus tubo multoties brevioribus, corollâ e sicco Qavescenti calyce sesquialtero longiori, vexillo oblongo alas absque canna paulo superantibus, legumibus calyce distensodeinde flosso sesquialtero longioribus flavido-lanatis oblongo-cylindricis subcompressis subarcoatis latere inferiori (coavexo) sulcatis in mucronem brevissimum rectum abrupte attenuatis.

Hab. In collibus aridis propè *Komah* Lycaoniae (Heldreich), In Lydia propè *Elmaiu* (Pestalozza), In Cappadocia propè *Maiatta* Auber NH386.

Caules 4-5 pollicares, folia composita vix bipartita longa, foliola 6-8 lin. longa hinc aul rarius 8 lin. lata. Pedunculi rigidi semipe-

dales, flora ferè B lln toDgi, legumeii cum rostro / hneas longum I latum Ab A. *wnoano* el afflmbus facîle disthguendus calyce magis cylindncojollolisanguste, legumine arcuate ,magi9afllQ!s A. *teneo phuilo* Griseb qui dlfferl foliolis brevionbus, pedunculo tenuiorl, corollà calyce dupF6 longion, calyce brevion, iegumine recto mgrescenti-piloso calyce tnpio longion.

ASTRAGALUS CHIOMOPHIMIS Boiss et Heldr. in pi Anat exs 1846 (Sect *Anthylloidei*)

\ pilis adpresblusculis dense argyreo-senceus, oaudicuhs longis nudre subterraneib liliformibus, naulibus brevissimis foliosis, foliis brcvlbns sapiiis recurvo-patulis 8-10 jugis, foliolis subcontiguis minimi* oblongis \el obloiigo-ellipticis obtusis, stipulis In unain oppositifoliam ad medium usquè tngulan-bidentiitam connalis, peduntulis folio vix longionbub mcurvia in capitalum (Hi floram etiam fructifruin rotuDdum confertis, bracteu Digro-piiosis oblongo-linearibus calyce tnp16 brevioiibus, calyce flonfero subcylindnco adressft el mgricanti-fienceo deotlbus mgro-pilosfs linearibus tubo dimldio lequilongis, fructifero inflate ovalo rubeUo-hneato, corollà e sicco ieuoopbaa calyce \U duplo longion, vexillo obloogo rotuudato \el reluso aUb carni paulo Ang**FM** ^feviler tuperanU legumine .

Uab. in saxosib ad nnes in cacumine montit. *Gheidagh* Taan Isauinci alt. 7000 -8000*. (Heldroich.)

Caules 4|S-4 pollicares, fulia polhcem, foliola * \Jt-i lin. longa, pedUDCuh poUuares, flores niagw recurvi 9 lm. arc. loogi, calyx fructiier Rlin. latus Collocandus juxta A *hiuatum* qul proume afflnis tamen differt caule baal MiffniteicenU paulo longion ramulosq, mdu-menlo flavescenli, slipulia a peUolo et inler se libens, corolla calyce plusduplo Longion, vexillo elongato cariDa duplo longion, capllulo fructifero elongato la\o etc Ambo mvilo cbaractere nirais artiflclali stipularum Antbylloideis adjuggendi

ASTBAWLUS GBAMIOWLYX Boiss Piflohenack,inpl.Kolsch Pere h>r 4646 (Sect. *Anthyllotdei*)

V toUis palnle rt breviler tomcnteltis griseuR candiculiB fliifterroihus niidiii raulns brpves rdentihus, foliis 10-15 jups. folloHH ap-

proumabs ovato oblongisve subretusu, stipulis inter se et a pellolo libens foliaceis late et breviter triaogulanbus acutis, pedunculo superne saepè nigro-piloso folia paul6 superanti, racemo ovalo-oblongo laxiusculo, bracteislanceolatis nigro-pilosis calyce dinudib brevioribus, calyco patulè et sordidè bireuto Oonfero tabuloso frucUfero inflato ovato, dcDUbus calycinls setaceis dimidio tubo aequilongis, corollâ uolaceâ calyce sesquilongion, vcxillo oblongo-hnean alas carlnamque xquilongas quintâ pane suft superanti, legumiae..

llab in collibus argillosia ad radices moutis *Demavnnd* prope *lax*. KotschyN°320.

Caules cum peduocnlo 3-5 pollicares, capitulmn fructiferum bipollicare, foliola inajora 3-3 \\| hn longa, flos recurvus 9 lin longiis. Ab *A ehvonophUo* et *A. Ixneato* foliohs et stipulis majoribus, a priori Indumenlq non argenteo capitulisque fructiferls elongatls, a posteriori corollae et calycis proportione diversus. Forsan nimis afBnis *A. Cappadomco* qui tamen mihi sat differre videtur capltnlis denslssbnlg, denibus calycmis corollft pariim brevionbus, flonbus purpnrasceatibiis.

ASTB&GALUS BVCCATUS Boiss. (Sect. *AnthyliouUt* ?)

A. totus adpressè canus asperulus, cwdlce cyllndrico doru ektngato caulem brevissimum foliatum sspè basi ramosum edenti, foliis remotiuscule 6-8 jugls foliohs obloogis obtusiosculls utrinquè cams, sli-pulis parvis a petiolo el inter se liberis canis a basi tnangulari breviter llineari-attenuatis, pedunculo folus subbreviori ascendenti, Donbus in racemum abbreviato-capitatum post anthesin elongatum laxum confertis, bracteis liaeanbus pcdicello bre?issuno dupld longionbus, calyce breviter et densè tomentello gnseo basi lahon oblongo saccato superne subattenuato dentibus hnean-setaceis tubo quintupl6 brevioribus, corollâ Intensè sulphureâ calyce sesquilongion, vexillo oblongo acutiusculo plicato alas cannamque suhaequilongas pauÛt superanti, legumine.. .

Hab. ad *Ispahan* Persia: Aucher N° 4431 A.

Caulis cum peduncnlo f-4 pollicarls, racemus qui e spucimmibus siccis compresso-dlshchus videtur 1S-20 floras, Bores ferè 40 lin. longi, calyi infcm6 i lineas latus, oanum Hneare hirtum. Species multi mihi notae affluR quoad fructum nou nola et quoad heelioncm igilur sulMhubi.1

ASTRAGALUS BUBSECMDa Boiss et Qob. In pi. Pen. bor. Kotach. 1846. (Sect. *Iueani*.)

A caulia radice vertical! crawl, fplis radcalibus numerosis erectte longiusculè petiolaus **45-48** jugis, foliohs ovatia obtusts vel snbretuals pallidè virentibus utriquè sub lente pilis albis brevibus adpressis parussimè obsilis, slipulis breviler inangulari-lanceolaUs nervulosls petiolo adoatis, pedanculo folia xquanti vel paulò superanti, racemo ternunali oblongo-elongato laxiusculo frudlfero subsecundo, bracteis minuUssiinis albidis, flonbus brevissimè pedicellatis rectis, calyce albo-membranaceo oblongo subinflato fructifero paululiim aucto **pills** olgris brevissunis adpressis \eluti nigro-punctato denticulis tnangularibus brevissunis., corollâ sulpbureâ calyce dupl6 longlon, vexillo apice longe attenualo acuto cannam aplco violaceam qaaria parte aUA superanti, alis lineanbus apice bldentatis carinam superantibus, leguminibus rectis hnoan-Bubcompressis glabrescentibus acutis utraque suturft subcannatisaljcum paulò snperanlibus.

Hab. in collibus argillosis raontis *Sijach Nalas* ad radices montis *Demawend* Persia* bore- lis Kotschy N° 337.

Folia **11-48** pollices longa, follola majora B-7 lin longa, racemus flonfer S-3 poll fructifer 4-5 poilic , flores 7-9 lin. longi, legumen circ 7 lin longnm diametro latbn 1 ^3 lin. latnm, Habitus A *maCTOUU* et *cyhndracei* DC sed ob legumlna subtiis non sulcata, alaa apice bldentatas aliasqnc nolas sect. *Incanorum* potiôs adnumeraodns, ab omnibus affimbaa colore florum, calyce subinflato distinctisalmus.

ASTBAGALU9 ATHOPURPUBEDS Boiss. et Heldr. in pi. Aiiat. exs 4847 (Sect *Incam*.)

A. pereums acaulis, rhizomate mdnrato crasso, foliia remoUaacolè 4-8 jugis, foliohs magms ovatis acuUs utrinquè adpressisslmè sericeo-canescntibus, slipulis tnangulan-lanceolatis acutis ruhellis canls basi nervosia petiolo adnata, pedfnculiB Dorifens folia squanbbus dembm eloDgaus, racemo florifero ovato densifloro fructifero laxlaalmo valKU eloDgato, bractels lineanbus calycis dimldlam vel tertiam pariem squaotibus, flonbus breviter pedicellatts patnlls, calyce tubnlow nigricaQti-rubello pilis albis nigrisqnc adpressissimè et parcè Urto dentibus lineanbus tubo dimidlb vel trlplb breviorlbus, AOFIOU atro-violaceâ calyce dupld longion, vexillo medium versùs vald* curvato

oblongo-lineari apice retuso alia tertîa parte longiori, alis angustè lioearibus margine supenon gibbis extremiife obsolete retusis, carinâ angustâ elongate partim curvata alis paulâ breviori, legumine adpressè canescenti nigro-maculato pedulo cylindrico-sublacurvo calyce dnplò longiori obtusiusculo mucronato ad latus convexum obsolete sulcato.

Hab. ID arenosis ad vîas pbroitiei *labarta* Plsidis ubi flor et fructio initio Junh (Heldreich).

Folia 6-8 poll, fohola majora 6-8 lin. longa 5 lata, peduncull cum racemo pedalis longioresque, (lores 8-9 lin. longi, calyx 4 hn. longiu tubo Uneam lato, legumen 7-8 Ho. longum diametro lineam 4 4;4 latum rostro Uneam longo tenminatmn. Valde et forsan nirollim affinis *A campylosemati* fioiss., sed in hoc bractee brevissims sunt, calydis tubus brevior ferè duplè labor dentibus tubo aequilongis, corolla atropurpurea Dec flavida, alae apice acutè bidentatae, canoa multè brevior migisque curvala, legumen paulè longius aogustusque

ASTRAGALUS TIGRIDIS Bolss. (Sect *Incani*.)

A. acaulis rhizomate indurato, foliis brevibus 2-5 jugia, folloU magnis ovatis obtusis vei acutiusculis utrinquè adpressissimè sericeis asperis, stipulis lanceolatis brevissimis racemis ovatis laxiusculis post aothem eloDgaUs, peduncull basi ascedentibus folia superantibus, bracteis angustè linearibus talyce triplicè brevioribus, flonibus subsessilibus patulis demum deflexia, calyce tubuloso basi gibbo adpressissimè canescenti dentibus linearibus subrecurvis tubo drc. dimidiè brevioribus, corollâ flavida calycu sesquialongion, veullo oblongo subrecurvo retuso alis paulè longioribus, alis margine supenori gibbis cartoe partim curvatae aequilongis, leguminibus pedulis oblongo-lloearibus Bubcompressis subfalcatis basi Bubangulatis calycem vk excedentibus in rostrum longiusculum abrupte attenuatis canescentibus.

Hab. ID *Mesopotamia* prope *Betohatyr* ad trajectura Tigridis, KotschyN-OT.

Folia 3-4 poll, foliola 7 lin. longa 3-8 lata, peduncull fructiferi cum racemo ferè pedales, floras 9 lin. longi, legumen 7 hn. longum rostro 4 Kfirt Ho. longo (erminium 4 1/2 Un. tatum. Legumins formâ affinis *A. etauto* qui longe difert folloUte minoribus nmlt4ugbt calycis dentibus brevissimis, fructibus calyce longioribus erectis.

A. rhizanihi Boiss. Diagn II pag 83 muta uomen in *A. Carusnsem*
Boiss ab anUquiorem *A. rhtxauthum* Royle Ulustr

ASTRAGALI* cHLOROCANEUS BOISS et Beut (Sect, *Incani.*)

A caulibus suffrutcscentibus erectis vel ascendentibus clongalls pctionhs stipuhsque vetustis densè stipatis, foliis 20-25 jugis, foliolis approximate minutis ovatis obtusis suprâ glabris ranssimè canescen- Ubus suhtus adressè canescenibus, stipulis lanceolalis adressè hirtis basi nervosa petiolo adnatis, peduncuhs folio longionbus, racemis terminahbus laxis oblongis dentum oblongo-cylradricis, bracteis virescentibus margine membranaceis oblongis acutis calyce tnplô bmonbus* calycistubulosi pared etadpressissimd pihs nigricantibus immuLs obsiti alblido-ru belli dentibus aoguste lineanbus acutis tubo dlmidio xquiloogfs vel longionbus, corolla calyce dupl6 longion pallid6 violaceo-virescenti, vpxillo oblongo-attenuato apice relnso ahs quarta parte longion, ahs lineanbus rectiuscuhs margine superior! sinuato-gibbis apice integns vel obsolete et inaequaliter bidentatis cannamsuperantibus, legumj- nibus rubelhs pihs adpressissimis obsitis demum glabrescentibua crectlslinean-cylindricissubcompressis sursum arcuato-falcatis calyce 3-4 pl6 longionbus apice in rostrum tenue abruptauscule atteouatis

Hab. in collibus siccis regionis Uediterraneae austrahoris occiden- tahs, Hispaniâ orientah circâ *Baranonem* (Beuter), in regno Grana- tensi (Boiss.) et centrall circa *Aranjuez* (Renter), ID Mauritaniâ propê *Alfjwxam*.

A. Monspessulanua mult. auct. non L.

Planta Inter quam et *A. Monspassulanwn* omnia discnmlna nondum novimus sed quis certè ab eo differt caullbus mnlth longionbus erectis suffrutescenibus, spicis laxionbus. corollâ nunquam saturate purpureft sed rubello viridi flavidoque quasi suffisâ, legumlnè dupl6 Iriplove longiori crassiori 15-18 ho. longo 1 1;ft lato mncrone sept S IID. terrainato Sata et culta caules erectos elongates omnesque no- tas servat.

ASTRAGALUS PTNABDI Boiss. (Sect. *Incanx.*)

A. subacaulis, caudicibus induratis brevissimis prostratis, foliis 11-15 jugis, foliolis ovatis oblusis pallidè vireobbiu supernè glabris in femè parre et adpressissim^ sub lentepilis albisobsitis, stipulis

trtangulari-taaceolalis acutis, peduuculis ascendentibus rubellis foliis brevilonbus vel sequilongis, racemo oblongo laxiusculo fructifero vix elongate, bracteis oblongis acutis membranaceis pediceilos vix superantibus, calycis cylindrici pilis nigris sparsis adpressis hirtis dentibus lineari-tubum dimidium squantibus, corollâ purpureo-violeaceâ calyce plus duplo longior, vexillo supernè linear! obtuso vel acutiusculo alas plus tertîa parte superanti, alis angustè linearibus margine superior! conveniens vix glabris apice integris et bilateralis carinam vix superantibus, leguminibus raris adpressè hirtulis lineari-cylindricis vix compressis deorsum valde falcato-recurvis in rostrum tenue breve apice sensim attenuatis calyce quintuplo longioribus

A. Monsperianus var *vanegatw* Vinard pi. exs.

Hab. in Carîa (Pinard), in saxosumontis *Solima* Lycias (Heldreich), in *Grccda* (herb. Fauché)

Pedunculi cum racemo semipedales longioresque, (lores 4-4 lin longi, legumen 8 poll longum diametro lineas 1 1/8-1 1/2. Species ab *A. Wulfenx* cui legumine deorsum curvato convenit distincta eo insigniter nee vix curvato vix compresso laxi nee ruguloso, vexillo magis elongato acutiusculo vel obtuso sed non retuso. *A. schizoptenu* quoque affinis differt foliolis retatis, legumine lantum poilicari compresso longè rostrato ad marginem convexum salcato

ASTRAGALUS BRACKETUS G. A Meyer var *brachycarpus* B et Hoben in Kotsch. pi. Pera bor exs. «846

Folia els pedicel pro longitudine paulo latiora, legumen 6-7 lin. tantum longum.

Hab. ad radices montis *Demawend* propè Aak. Kostchy N° 364.

ASTRAGALUS SINICUS Boiss (Sect. *Sesquifolius*)

A. annuus totus griseo-hirsutus, caulis subnullis diffluata, foliis brevibus a basi ferè 8-40 jugis, foliolis dimidiatis adpressiusculè hirsutis, stipulis triangulari-lanceolatis acutis, capitulum axillare subsessile, calycis dentibus lineari-cylindricis tubo fere longis, floribus... in leguminibus stellatis paleotibus patenti hispidis hinc-trigonis supra canna subdata sukatis a basi latiori sensim attenuata acutifolia

Hab in deserto montis *Sinai* Aucher N° 4309 n parte

Caules nx M;2 pollicares, folia H <J poll., follola 1 4;J-J Ifn-
longa 4 lata, legamen 6-7 hn. longum. Valde afflois *A. tribuloidi*
Delile DC Pfodr qm in desertis jEgypti, Arabia Petreae, Schimper
N° 481, Aucher N° 1309 e\ parte, Armenia C Koch In herb. Gen
Mus Brrol copiosi!¹ crescit et differt indumento totius plantae et pra&
sertim leguminis adpressissim* senceo, fohohs duplft latioribus,
Icgraine brevion 4-5 lin longo sspè subarcuato basi ewdenter re-
tuso blgibbn *A tnbuloides* vanat capitulis sessihbus vel breviter
pedunculatis, cauhbns subnullis veJ proslratls subelongatls.

ASTBAGALUS MIMJUB BOISS (Sect S00Of>ft)

A annuus totus adressè hirsuto-senceus, caubbus brevbslmis
diffuso-procumbentibus, folns brevlbus 4-6 Jugis, foliolis minutis el-
lipticis obtusis vel acutiusculis, stipulis tnaugulan-lanceolatis acutis,
capitulis sessihbus axillanbus pauciflons, flonbus minimis, calyds
patulè albo-bispidi denkbns subulatis tubo ferè tongionbus coroUam
violaceam squantd)us, \e\illo lineari alas paul6 superanti, ahs carinam
valdè superantibus, leguminibus stellatlm patentibus brevibus subar-
cuatis subtnquetns a basi lation retuso-bigibbâ altenuatis acutluscalis
supernè subcannatis sublûs sulcatis adpressissimè hlrsutis.

Hab in *PerstA* prop^ *Ispahan* Aucher N* 4419, propè *Persepolxm*
Kotschy N» 837 et *Teheran* N» 41.

Plantulanana 1/2-1 pollicans, foliola S-1 1;S lin longa, flosSun.,
legumen 3-4 lin. longum basi ferè t Hn. latum. Afflns *A tribuloidi*
pro quo eum hucusque habuf el a quo differt flonbus fere trip!6 mino-
ribus, laclnlis calyris longionbus, legumine dimidi6 minori brevlo-
rique

ASTRAGALUS BBPOCAULOS Bolss (Sect *Sesamet*)

A annuus, caulibus filiformibus procumbentibus eloogatls parcè
hlrsulis, folns 6-7jugis, foliolis adressè grlseo-canescensibus ovato-
oblongis acutluspulis vel obtusis, sifpulis minlmis lanceolato-Hnearibus
hirsutls, capituhs 4-fJ floris axlllaribus brevisslmè pedunculatis, brac-
tels sciaceis caçcinum tubum dlmidlum squantibus, caiycis adpres-
sluscu^ hlrsutissimi dentibus setacels tobo vix brevionbus, corollâ
ealyre MI longinri pallid^ carnrà veullo retuso alas carinâ longlorei

Un eupuranli, leguminibus adpresse pubescentibus ovatis a dorso subcompressis obtusiusculis basi truncatis superae coDvexis inferne sulcatis.

Hab. in deserto *Arabia petraea*, legi inter *Nuokl* et *Gaza* \prill Ineunte.

Gaules 6-40 pollicares lenues, folia pollicei, foliola fere 2 Un looga sesquilineam lata, flores 8 lin. longi, tegumenS 4/8 lin. longum sesquilineam latum. Species leguminum et Ooram magnitudine affinis *A. fluviato* Boiss aed ab eo pner caules elongatos et capitula non omnno sessilia, qui cbaracteres In seclione mutabiles sunt, specified diversa leguminibus reclis obtusis lationibus a dorso nee a latere compressiusculis.

ASTRAGALUS SESAHOIDBB BOISS. (Sect. *Sesamn.*)

A. annuus caulibus elongatis diffusis sulcato-striatis adpressè hirtullis, folis laxiusculè 5 jugis, foliolis oblongo-linearibus obtusis supra parè subtis copiosids et adpressiusculè birsutis, stipulis minimis a basi lineari tenuissimi setaccis nigro-pilosis, capitulis minutis densis, pedunculo foliis longior, bracteis linearibus setaceis calycino lubo aobaequilongis, calycis pilis albis Dignisque adpressè birsull dentibus aetaceis alas subaequantibus tubo sublongioribus, vexillo violaceo angusto alas arc. terfll pane superanii, legaminibus erectis strictis in capitulum densum rotundum conferbis tomentellis oblongo-linearibus obtusè triquetris subincurvis supri subcannatis subtis sulcatis in mucronem brevem tenuem incurvum allenuatis.

Hab. In regno *Cabuivca* GnfUtb N° 4096 in herb. Hooker.

Pedalls, foliola 8-9 lin. looga 1 4/8-8 lala, flores 3 lin. legumen 7 lin. longum \ |i Utum Quoad capitula fruchfera leguminaque Birail-UIDUS *A. sesameo* qui differt capitulis sessilibus nee pedunculo 4 4/8-1 pollicislongo suffulUs, fobis magis hirsutis 40-48 jugis

ASTRAGALUS AMMOCRIPIDS BOISS. (Sect. *Setamn.*)

A. annuus plis adpressiusculis griseis, caulibus brevissimis prostrate fructiferis induratis sulcatis glabratis arena sepultis caespitem pulvnam unimum formantibus, folis 7-8 jugis, foliolis angustè elliptico-linearibus arutiusculis, stipulis minimis membranaceis teneris triangulanibus acutis hirsutissimis floribus 4-5 in capitulum axillare

brevissime pedunculatum confertis miuinus, calycis angusle tubulou basialtenuati membranacei glabn dentibus setaceis albo-hispidissimls tubo dimidib brevionbuB, corollâ e sicco ocbroleucâ calyce sesqui-longion, vexillo valdè attenuate acuUusculo recurvo alls canaain supenintibus lertiA parte longion, legununibus glaberrimis a basi latiori bigibbâ altoalls acutiusculis oblongo-tnquetns arcuatis suprâ subcannatis sublus profundè sulcatts tenuiter reticulato-venosis arenâ sepultis

Hab. in deserto *Arabia petrea* ad fines Palsslios ubi legi Aprili 4846.

PUIVIDUB diametro 4-3 poll, latus, foliola 3-3 1;3 IID. longa Itaeam aut paulb minus lata, (lores tres hoeas longi angustissimi incun'i, legumen 3-4 lin. longuni lineam aut pauld amplifis latum. Planta more *Trigonella mterocorp*m caules indurates leguminaque arenâ occultans. Ab *A. crwxato*, *tnbuloidi* et *mmuto* quibus afflnis foliolis angustis, nodo crescendi lepimmeque glabernmo distiDdus

ABTBAGALDS PBBSBPOLITANDS BOIHS (Sect *Sesamet.*)

A. animus, cauibus tenuibus proslral s brevissimis, foliis longius* culè peliolatis scxjugis, foliolis oblongis relusis superoe glabnusculls inferoè adpressissimè canescenlibus, stipulls a basi triangulan bnean-lanceolatis acutis lnlimis petiolo adnatis, flonbus minlmls in capituluni pedunculo brevi suffiillum ovatum lailusculi et subverticiUalim dls-positfis violaceo-rubcllis pedicellatis, calycis lacniis setacels flexuosis tubo aequilongis, vexillo calyce duplb longion valdè recurvo alas superaotl, carmâ apice intense Molaceâ alis breviori, leguminibus oblongo-subtnqut'ins acutis bdc, superiori carioatis infenori Bulcatis irans-verei! nervulosis adp^ess^ et paroè hirtults

Hab. in ruims temppl urbis *Ptnepolts* In *Perna austratt* KotschJy N» 226 sub *A tnbulouii*.

Folia bipollicana, foliola a-s 4;a lin. longa, peduncub 4-5 lio.longi, flores vix 2 lin longi, legumina 3 hn. longa. Hsec species quam in-faustè ohm ad *A tnbuicmdem* retuleram ab eo capitulis pedunculatls, fohis loogiùs petiolatis laxius follolaUs, foliolis supernè glabris, etc., Jongiie distal et prope *A ommophilum* Kar. et Kir. collocaoda est i|ui recedit leffumino glabernrao valdè transversè nervuloso, calycis)<cinus corolla dimidid brrvioribus

ASTBAGALUS TKNUBUGIB Boiss (Sect. *Annular ex.*)

A. inuus sub lente pilis albis adpressis parcè birttilus, caullbus procumbentibus elongatis sulcato-strlals, foliis 6-7 jugls, foliolls pēdcellatis cuneato-oblongis retusfs suprā glaberrimis subtùs ad nervum birtulis, stipulis vindibus albo-marginatis tnangulari-lanceolatis ciliatis, floribus 4-6 racemum sub anthesi laxè capitatum deln valdè elDgatum pcdunculo folium aequanb vel eo longiori suffultum forraantibus, bractels membranacels lineanbus pedlcello longtoribus, calycis pilis albis mgnsque spams adpressè hirsuti dentibus llinearibus tubo dimidiò brevioribus, corollā pallidè carnefi calyce duplb longiori, vexillo recto linearl alas quariā parte superaota, legumiDibus rectis fakato-recurvis calyce multoties longlonbus linean-compressis margine coovexo sulcatls concavo plamusculis glaberrimis dorso tenulter et latere obsolete retlculato-rugosis in mucrooulum breussimum curvalum abeuotibus.

Hab. ID regione *Bestan* Schimper (N° 410), legl frequenter in arenosis deserti *Palcestma* flnitimi Aprill 4846

Caules 4}8-4 pedales, foliola circ. 3 lln longa apice 4 *ifl-i* lata, flores 3 hn. longi, legumen in circnlum dimidium curvatum polUcem et ampllùs longum llineam lalum. Valdè afflns *A. oorrugato* Bertol. quem quoque ted ranus In Arabiā petrèa legl et quem e Persiā quoque babeo et mlbi sat dlfferre vldetur Ipgumine ad doraum elevato-rugoso ad latera manifesto reticulato apice recunato-uncato. A /uenafo Delle Ind monsp 4836 quem tantum e spedm. culto florifero novl dJffert roliolis majonbus, stipulis elongahs, ejus legumen pratereā vix compressum subteres dlclitur non rugosum

ASTRAGALUS LARICDS BOIBS et Hoben in Kotsch pi. *Yen* bor 4 846. (Sect. *Anntlares*)

A. annuus pilis parcis adpressis hirtulus vel glabrescens, cauHbus tenulbuB teretabm prostratis, foliis 6-7 Jugis, folloHs mlnuilB compltatis elliptico-Jluearlbus truncato-retusn, stipnlis triangularibus acutls glabriusculis, flonbus paucia laxtusculè capitata, pedunculo strlcto folio vix longiori, bracteis minutis oblODgis pedlcellnm vix superantibus, calycis parcè et adpressè nfgro-Urtl dentibus tnangulari-linearibus tubo quadruplb brevioribus, corollā pallidè violaceā calyee piñs iluplo longiori. IPXIII oblongo-linearl alas tarinamqiip suhaquliongas

superantl, legumne calyce |~5pl6 longiori erecto linearl-coiapresso subarcuato glabernmo sub lente tenuiter reticulato-venoso apice In mucionem rectum brevissimum abeunti ad marginem convexum angulè sulcato ad concavum acuto.

Hab. ad radices raonLis *Demawend* prope *Lor* Kotacb. N« 618 a.

Gaules 3-5 pollic., fohola 8-8 4 ;2 IID. longa lineam lata, flores 3 4jl lin loogi, legumen 6 lin. longum lineam latum. Affinfs precedent! et prasertim *A rettcufato* MB. legumtne transversè el elevaiim rugo-sissimo facilè dignoscendo.

ASTRAGALUS CALLICHOUB Botss. (Sect *Annulares*)

A anouus, tolus pihs albis sparsis patulls vel adpressiusculis bir-lulus plus minus gnseus, caulibus brevibus numerosls procumbenUbus vel erectis, folns 7-9 jugis, foliohs foliorum infenorum liueari-capil-laceis aliorum plus minusve angustè elhpticis vel Uneanbus obtusius-culis, stipulis nuuinus tngulanbus, flonbus 5-8 deosiusculè in ca-pilulum pedunculo folio squilongo suffultum congeslis, bractels li-neanbus pedicello longionbus, calycis adpressè pihs albis nigrisqae copioBionbus vestili denlibus hnean-setacels dimidio tubo sublonglo-nbus, coroUâ intense violaceo-cxraleâ caljce plus duplò longion, alls hneanbus carinam superantibus, legumimbus longissimus hneanbus subcyhndncis falcato recurvis acutis pihs bre\ibus adpressis scabridis id margtnem coovexum late sulcatis ad concavum rotundalis

Hab. in plamtie *Amalecitarum* Arabia? petreaj contermioâ el inter *Jerusalem* el *Jericho*. Legi Apr ct Maio.

Caules 2-5 pollic, fohola 3-6 lin. longa angusta, flores 8-9 1m. longi, legumen sspè bipollicare et longius diametro lineam latum. Pulcra siirps quoad fructum siinillima *A. hxsptdulo* DC in eisdem regiombus obvio et qui differt foliohs minus angustis, flonbus 5-6 lin. lODgis flavescens, vexillo abbreviate, dentibus caljcis lubo quadru-pld brevionbus etc.

ASTRAGALUS PEBEGRINDS L. var. *rotundifolia* Boiss.

Hab. in deserto inter *Kahxram* et *Suez* ubi legi flor. Martlo 4846.

Folia tanldm 5-6 juga foliolls ovato-orbiculalu, legununa brevion magisque curvaia. — Pro specie propnâ primùm babuenm aed forma* inter bane el 3peciem intennedias observavi

AsnAGAI.ro PALciutLLua Boiss. (Sect. Bueeratei.)

A. annuus toliu adpressulusculè cinereo-lomentellus, caule erecto Infernè ramosissimo ramis erecto-palulis abbreviate, foliis 7-8 jugis foholls oblongis obtusis peliolulatis subtus magis caescentibus, stipulis minutis inangubnibus acutis, floribus 3-6 ID capitulum laxum post anthesin eloagatiim pedunculo folio sublonglon suffultum dlspostis, bracteis lroeanbus breviasunis, calycis pllu albu adpressulusculè hirsuti dentibus llinearibus tubo paulb longionibus, corolla ochroleacà calyce sesquiloDgiori, veillo alas cannamque apice wolascentem yhc soperaDti, legumme erecto lmeari-compresso falcato adpressè puberulo calyce 5-6 pl6 longiorl acuto ad marginem convexum aulcato carinis rotundatis, ad marginem concavum carinato.

Hab. in culbis inter *Kahiram* et *Pyramids** legi Hartio 4846.

Pedahs, fotiola majora B-6 Hn longa nunquam retusa, flores i Hn long!, legumina 8-9 Hn. longa hncam aut paul6 amphoa lata. Species Inter *A. hamoswn* et *tmestrem* quasi medfa. Prior dlffert caullibus sulcato-strialis, floribus in capitulum densum multiflorum dispositis, vexlUo aplce attenuato alas multo superanti, legamine angnstiori et mints compresso defleio nee erecto. *A. tmestru* magis affinis dlffert follolls emarglDatls, calycinis dentibus tubo brevioribus et pnesertim earinis marginis convex! acutis nee convexls; planta sgyptlaca *A. (n-meatri* adnumerata est probablllter nostra. *A. agioeras* W. Syst. et herb, qui leguminibus erectis nee falcatis *A. fulnnello* valde affinis est differ! stipulis setaceis, vexillo alas carinamque longè superanti, dentibus calycis tenuloribus

tsTHAGAUrs HAUARENSIS BOISS. (Sect. Bucerates)

A. aonuus lotus adpressè cinereo-sericens, caulibus brevibus procumbentibus, foliis longiuscule pebolatis 1-2 jugls, foliolis magnis oblongis retusis termali paul6 majon, stipulis minutis triaogularibus aculis membranaceis blrsuds, racemis laxiusculiè 3-5-flons pedunculo brevissimo suffultis, bracteolis ovatis nuninus, calycis adpressè blrsuti dentibus lanceolatis tubo paul6 brevionibus, corollà ocbroleucà calyce wduplft longiorl, vexillo oblongo alas carinamque paululum superanti, leguminibus adpressè birautis erecfis llinearibus compressis falcatis acutis calyce raultoties longioribus ad marginem convexum sirf-rtlin carinis rotundttis, ad concavum ctrlnatte

Hab. in deserto Sinaitico ad *Hauara* prop* AM *Hammam* Scimper N° 489, legi quoque ID Arabia petreâ Martio 1847.

Caulis 1-3 poluc. foliola 4-6 lin. longa 3-4 lab, floras 4 1/2 lin longi, legumen 18-18 bn. longum 1 *infl-t* latum. Affinis *A. annttiart* racemis longè pedunculatis, legumine a dorso nee a latere compresso diversissimo. *A. Martatmu* Del. quern in Arabia petreâ quoque legi differt foliis 7-8 jugis triplò minoribus, racemis longito pedunculatis. *A. tnmorphu** Viv. Lyb. quoque affinis distinguitur foliis minoribus, pedunculatis folio duplè longioribus, legumine subcylindrico etc

ABTEAGALUS ADLACOLUBA Boiss. (Sect. *Bucerates*.)

A. aonuu glaber pluncauli[^] caulibus erectis umbellulis biseriatis ramosis angulato-striatis, foliis 6-7 jugis, foliolis oblongo-cuneatis retusis, stipulis membranaceis triangularibus lanceolatis biseriatis, floras 3-4 in racemum laxiusculum pedunculato folio aequilongis suffultum approximatis, calycis pilis albis nigrisque adpressiusculis hirsutis dentibus hirsutis setaceis nigro-pilosis tubo aequilongis, corolla obovata calyce plus duplè longiori, vexillo oblongo obtuso carinam aliam paulò longiorem partim superanti, legumine glaberrimo fusco-maculato, lineam-subquadrato valde falcato recurvo patulo basi et apice attenuate ad marginem convexum late sulcato angulis acutis, ad marginem concavam quoque sed obsolete sulcato angulis rotundatis.

Hab. ID *Synd* ubi legi loco proprio non notato.

Caulis semipedalis, foliola 2-3 lin longa, floras 3 1/2 lin. longi legumen ferè pollicem longum sed valdè falcato-recurvum ad marginem convexum sesquilineam latum. Quoad herbam calycem, floras valdè affinis *A. stnatto* MB. qui etiam in Mesopotamia Aucher N° 993 et Chesney N° 165 crescit sed differt legumine breviori latter! vix subarcuato-marginato plano-convexo nee sulcato

ASTBAGALOS POLYBOTRIS Boiss. (Stict. *CuXTO&X DC*)

A. totus breviter et densè tomentosus flavescens-griseus, caulibus teretibus procumbentibus longissimis filiformibus simplicibus Jam infra medium ex axillis alternatim racemios numerosos foliis molliore subtrifloris laxis omnes aequilongos edentibus, foliis brevibus sub 15jugis, foliolis parvis oblongis obtusis approximatis,

. atipulis membranaceis blrsutis triangulari-lanceolaUs acutis parvls a peliolo et inter se liberis, bracteis linearibns pedicello duplō longioribus, caiycis tubulosi tomentelii dentibus llineari-subulatis tubum dlmlldum ferē superantibts corollam. flavam snbasquantibus, vexillo alas parūm superaotl, legumialbus oblongo-Unearibus oompressiB rectis ID mucronem brevem rectum aitenuabs ad sutnram Inferiorem subsnlcaUs hirtnhs.

Hftb. in regno *Cabuluo* GrifUth N° 1075 in herb. Hooker.

Canlis bipedalis procnmbens llineam dlmetro latas, folia pollicem autpaulbampliūs longa, foliola 1 $\frac{1}{2}$ -2 lio. longa 1 lata, axis racemi 4-6 llineas longa, floras 7 lln. longi, calyx sesquifneam latus, legumen calyce demōm flsso ?ix longius 7-9 hn. longum S latum planiuKuhim. AfOnta *A. orboulato* Ledeb. qui dlffert foliis elongatis stlpaliaque multb majoribus, coroUā elongafa, legumlne breviori latlori mlabs compreso etc.

ABTHAQALDS COLDTKOCABPUS BoUfl. (Sect. *GulegfortMs.*)

A. caulis erecbs virgatis glabris Btriato-subaDgulatls, foliis 5-6 jugfe, follola majusculis petiolulatis basl rotndatls oratis obtiis mucromilatts utrlnquē sub lente adpressē et sparslm blrtulls pallldē virentibus crassrascuUs flnnta, sttpuUs scariosis lanceolatls acuHs a petlolo et iBler se liberis, pedunculis ex axttUs superloribus foUa vix superantibus apice hirtuliB, floribus in capitutam termnale ovatuin laxiosculum fructifenim elongatum dispositls brerissimē pedicellatis patnlis, bracteis lmealibus scariosis calycera dimidium sqiantibiis, caiycis pilis albis nigrisque patulis sparsim hirtuli dentibus superioribus a basi trlaagidan linearibus sursōm sDbincunis Inferioribus Unearbuti paulb longioribus tubum dimfdinm superantibus, corollā (e aicco albidā vel rubellā) calyce duplb longiorl, vexillo recurvo alls pauld longlori, Carinā sobUis angulo recto curvaU apice acudascuU alls paul6 breviori, legmnlDe pendulo oblongo inflato sublds sulcato apice atlennato acnndnato basi In stipitem flUformem eo breviorē attenuato.

Bib. In regno *Cabuiioo* GrifUth N« 4064 In herb. Hooker.

Gmlta pUnquām pedalte, folia 5-6 poUicaria, follola 6-8 lln. longa, 5-6 lata, floras incnrvi 6-8 lln. longi, legumen stipite 6-7 Hn. longo suflultam cam mucrone ferē poUleare 4-5 lln. latum. Pulchra species fructn *A. podocarpum* Hamfl., hablta et floribus *A. enneretum* Benth.

referens ab eis stipulis multo mmonibus non concrete foliis magis rotundatis crassiusculis distincta.

ASTRAGALUS GYMNOPODUS BOISS. (Sect. *Galegiformes*.)

A. caulibus erectis elatia angulato-striatis pilis brevibus adpressis parcissime hirtulis, pediculis elongatis striatis stinctis basi subtilis can-natis reraoLissinio 8-18 jugis, deraum foliis deciduis \irgalis persistenlibus, foliolis minutis gUbrescenibus elliptico-hneanbus obtusis, sUpulis parvib tngulari-lanceolalis scariosis inter se et a pctiolo liberis, peduculis longissiaus ex axdlis supremis ortis folia multò superanibus loogè laxèque racemosis fructu delapso persistentibus scopariis, bracteis minimis scarlosU ovatis, calycis membranacei parce pilis nlgri adpressis hirtuli dcnlibus bneanbus brevlsslmis, corolla luteft calyce plds duplf) longion, leguminibus pendulis stipite eis dimldio brevion suffultis glabcrnmis laevibus lincanbus plano-compressis aplice obtusis brevissimè et obliquè mucronulatis.

ID regno *Cabultco* GrifQti N° 4077 in herb. Hooker.

Planta ex specimine quod vidi verosimillter 3-4 pedalls, petioh 4-6 polücares, fohok 3-5 lin longa 4 Aji- % hn. lata, pedunculus cum racemo sesquipedalis, floras angusti 7 lin. longi, legumen etipite 6 lineas longo suffultum pollicare 3 4}S lin. arc. latum. AfQnis habilu *A. tetragonoearpo* a quo legumne pianissimo alusque notis differt.

ASTBAQALUS HKDULLABIS BOISS. (Sect. *GaltgifoTTMi*.)

A. glaber, caule crasso tereli slriato medulla Carcto, folls 6-8 jugis, fbholis magnis remotiusculis petiolulatis ovatis basi rotundatis vel truncatis aplice obtusis mucronulatis, stipulis magnis foliaceis ovatis obtusis obliquè mucronulatis basi utrinquè latè rotundato-aunculatis, peduncuüs folia superantibus longè et laxiusculè racemosis, floribat subsessihbns pendulis, bracteis lineanbus membranacels calycino tubo glabro submembranaceo flavescenti paulò brevionbus, calycis dentibus triangulanbus acutis tubo quintupld brevionbus, corollà flavà calyce sesquilingion, vexillo alas cannamque paul6 superanti, leguminibus linearibus plano-compressis utrinquè attenuatis glabris apice acutis basi in sbpltem filiformem calyci seqnilongum abeuntibus.

Hab. in regno *Cobultco* Gnfflth N° 4064 in herb. Hooker.

Planta ut ndetur data, sLipuls amplissimse sesquipollicares pollcem

¹lata, follola 9-10 lin. longa 7-8 lata, raceml semlpedalea longioresque, Aores 7 lin. longi angusti, legumen stiplte 4-6 lin. lengo saffultum pollicare 9-S 4|1 lin. latum. Planta stlpulls suis Insignia propè *A. rotundifohum* Boyle et *A. graveolntem* Hamft collocanda. Pnor dlffert e descriptione legumine oblongo, posterior foliolls ovato-elhptids, legumlne ettain Immaturo sesqulpoUlcari.

ASTRAGALUS SPBCIOSOS Boiss. et Hohenack. in Kotsch. Pl. Pers. bor. 4846 (Sect. *Alopecwo%dei*)

A. perenms, caule elato slmplici striato supernè et versùs basin patulè flavido-tomentoso, foliis 10-13 jugis, petaohs breviter nlspldta, foliolis ovatis.obtusis superoè glabris vel marghne tantòm pilosulis subths adpressè villosis dnerascentibus, stipnlis lanceolatis glabris extàs hirsutis intas glabris, capitulis multifloris densis breviter ovatis sessflibus vel pedunculo els breyiorl suffultis, bractelsiQeart-BUbulatis. tubo calycino brevioribus, calyds pills patulls rigldis flavtdis densfs^sime blspldi inferne subventrfcosi dentibus Unearibus dimidium tubum snbsBquantibus, corolla sulphurea calyce vix duplb longiori, vexillo recurvo mandnlbns reflexo alls carlnsqne subaequullongls longiori, legumlne...

In Alice *Sohirdere* montls *Elbrus* propè *Derwend* Kotsctay N° SI 9.

Sesqulpedalfs, folia inferlora 40-4f poll, longa, follola majora 9-48 bn. loDga 5-8 lata. Capltula numero 5-6 fevè S polte. longa sesquilineara lata, flores incurvi a-10 lin. longi. Affinis *A. vulpino* qui differt caule sulcato, foliolis pubescentibus, calyds albido villosi-dentibus setacels tubo sequilongls, corolls amplloris pallidloris >exillo carins nquilongo etc.

ASTBAGALDS isopBTALDS Bolss. (Sect. *Christiani*.)

A. caudlce indurate caules erectos breves a basi foUa floresque ferentes edenti, (bills caule longioribus lausslmé 4-6 Jugis, follolls orbiculatis obtusissimls basi subcuneatis staprà glaberrimls subuts densè et breviter hirsutis dnerels, stipnlis parvis flavidis triangubnbus, racemis sdbsessillibus axillaribus laxissimè 3-5 Doris, braceis setaceis pedicello brevl »-3p16 longioribus, calyce densè etbrevltrrcinereo-hJrsato subcyllndrlco supernè viz angostato dentibus lanceolato-nneanbus tubo qultuplb brevioribus, corollâ luteft calyce duplb

longion, pelalis omnibus rectiuscula subsequilougis, vexillo margi-
mbus reflexo oblongo-lineari obtuao, ahs angustê linearibus, carinâ
vix curvatâ aplce rotundatâ, legumlnē...

Hab. in regno *Cabuluso* Griffith in herb. Hooter N» (067).

Gauls in spedm. quod vldi 6 pollic , folia 6-7 poll, tonga, follola
diametro 3 1/2-4 1/8 lin. lata, flores 13-4 4 Hn. longi, calyx internè
5 1/8 lin. latus verosuniliter fructifer Inffalus Afflnfs A. *Kahvrino*
DC et pnesertun A. *LeAfrummano* Bge. qui eximie differt foliolis
9-10 hn. latls, racemis cylindrids denrt et multitoris, calyce dense
senceo-velnbno Jam flonfero ovato, corollâ brevissimâ calyce Wx
sesqudonglori etc

ASTRAGALUS ORIDOCARPUS BOISS. (Sect. *Ckrwttant.*)

A. Caule erecto tenui firmo Bubangulalo folioao aubflexuao pUtoalbis
brevissimis adpressia sparsis hirto, fohis 90-S5 jugis, foliolis parvisap-
proxlmatis crassiuscuuB vindibus ovato-rotundis pUcatis obtuslssbnls
petiolulatis snbtôs ad nervum medium margineque hirtulla aeterdm
glabenimis, peliolo basi utrinquê in nervum elevatum seeds Ganlem
decurrentl, stlpulia parvto tngularibus acutis birtulu floribua 1-3
ex axillis snpenoribus brevissimfi pedicellabs, calyce pilis sparslsslmls
longis albis obsito basi subgibbo dentibus angnstê linearibus cliatis
lubo subsqulongis, corolla Bava calyce sesqnilongiori, vexlUo reflexo
alas llneares paulb superanti, carina extremltate subtus angulo rotun-
dato curvata ahs paulb brevion, legumine erecto oblongo subcom-
presso calyce sesqnilongiori ad sutnram exteiiozem obsolete sulcato
convexulo ad Inteiiozemconcaviuscolo cannato In rostrum rectum te-
nue longiusculum abeunti pllis rigidis albidis longis hispido.

Hab. in regno *Cdbulieo* Griffith N° 4 060 in herb. Hooker.

Caulls espec. Incompleto probab. MO pollleans, folia 3-4 poll.,
foliola a 1/2-4 Hn longa. flores 6-7 lin. longi, legumen cum rostra
6 lin. longnm sesquUineam vel paul6 ampllôslatmn. Species In sectlone
foliolis mfnutis legumlnibusque brevfl>ns dlsttntlsslma.

ASTRAGALUS RETAHOCARPUS Boiss et Hoben. in Kotaeh. Pl. Pers.
bor 1846. (Sect. *Christumt.*)

A caule crasso elato sulcato pllis albis nlgnisque patulis hispido
ferè a basi dense folioso floriferoque, follls longis erecto-patulis

15-90 Jugls, foliohs approximate elongalo-oblongis pilcatis obtains
suprà glabria subttus petiollsque pUu longb crupulis blspldfs paUldè
vlreotlbus, stipuhs membranaceu kmgè etangustè hnean-lanceolaUs
hlspldis, racemls 5-7 floris denshisculis brevibus sesslibus aiillaribus
numerosis, floribus pendulls, bracteis membranaceis setaceu longfc-
simis, calycis eleganter nlgro-eetosl dentibus lanceolatis acatis tubo
dunldid brevioribus, corollâ ochroleucâ calyce plus daplo longtori,
vexlUo oblongo recurvo alas lineares paul6 superantl, carinâ abbreviate
subttus angulo recto rotundato incurvâ alls subequllongfi, leguminlbu
parvw ovaiis compressis glabns transversè obsoletè rugosis obtuaf-
simis basi rotundatis, suturâ vexlllan aagostè sulculosâ uferiori cras-
siori In mucronem tenuem brevem sub aplce rotundato productâ.

Hab. ad radices montis *Demawend* suprâ *Ash*. Kotsch̄y N^a 379.

Gaules blpedales, folia 6-8 pollic, follola 8-40 lin. longa 3-4 tata,
fiores 9-10 lin. longi, legumen ferè 4 lin. longum *Sifi* latum. Pulchra
species ab *A. Caragana* et *A. neuncarpo* quibus afflnu eat distincta
legumlnibuB compressis ferè triplb mlnoribus obtusisslmiH, foliolls
amplis, etc.

ASTBAGALDS TEPTOOS10IDBS BolSS. (Sect. *Ckritkmi*.)

A. caule teretl elato alriato pnter pllos adpressoa sparsisslmos
gbbrof foliis 9-44 jugls, foUolis pedicellatis oblongo-lanceolatisacu-
tiuscnlis utrinquè pilis albis sparels adpressè blrtulis pallldè virentibua,
racemis sessilibus oblongis laxis ex axillis superioribus ortls termlna-
Ubusque in pamculam thynoideam aphyUamaggregahs, bracteis mem-
branaceis linearl-setacels nispidis calycem svkequantibus, floribus
patulis breribus brevltter pedlcellatis, calyce pills albis nigrisque pa-
tulè longèque barbato ladnus setaceu plumosis corollam aequanubus
tubum brevem latum basi latere superiorl gibbum superanUbus, vexlllo
ovalo angulo recto sunnm recurvo alls abbreviatis rhombeis longiori,
carinâ alls aBquilongft angulo recto rotundato subttus curvatâ, legumi-
nibus patidls calydn tubo quadruple longioribus Hnearl-compresslfl
sub&lcatls in rostrum tenue rectum abeuntibus ad marginejn con-
vexum suteatis ad concavum carinatls ad utrumque pilosulls latere
gtabris obsoletè retteulato-venosis.

Hab. in regno Cjabufwo Gnffllb in herb. Hooker N^o 4063.

Planta ut vldetur plus quàm pedalis, fotta 4-5 pollicarla, follola
lofenora ferè pollicana 4-5 iin. lata, corolla ob curvailonem 6 lin

vix longa, legumen 7 lin longum % latum mucrone sesquilineam longo terminalum Pulcherrima species corollâ abbreviatissimâ, pedicello nudâ thyrsoidâ insignis

ASTRAGALUS COLUMNARIS Boiss. (Sect. *Christian*)

A. caule glaberrimo crassissimo duro sulcato elato a basi foliis floribusque densè obsito, folis longis erecto-patulis 20-25 jugis, foliolis parvis ovatis pectinatis a basi sursum diminutis complicatis margine sublusque ad nervum medium ciliatis ceterum glabris, petiolo angulato rigido, stipulis a basi triangulari hinc setaceis, floribus 3-5 in racemos sessiles brevissimos fasciculifloros axillares numerosissimos dispositis breviter pedicellatis erectis in columnam cylindricam circa caulem approximatis, bracteis setaceis calycum tubum squamibus, calycis membranacei dentibus lanceolato-linearibus ciliatis tubo glaberrimo nervoso subquadrato, corollâ albidâ vel pallidâ ochroleucâ calyce duplo longior, vexillo ovato truncato retuso alas superanti, cantho alis linearibus multo brevioribus, ovario oblongo-lineariter glaberrimo, legumine...

Hab. in *Carta* v. d. in *Lycia* unde retulit Gl. Poirard sub. *A. Christiano*.

Caulis teretis inferius pollicem crassus, folia 8-10 pollicaria, foliola inferiora 4-5 lin. longa 3/8 lata, superiora multo minora, flores pollicares Pulchra planta prius a me ipso pro *A. Chrysantho* habitata sed accuratius observata a plantâ Armenâ quam omnes pro specie Linoeanâ exclusis synonymis agnoscunt diversissima foliolis abbreviatis excepto margine glabris, calycis tubo nervoso glabro, ovario glaberrimo, etc.

ASTRAGALUS PIBIUCUB Boiss. et Heldr. (Sect. *Christiana*)

A. caulibus sulcato-striatis crassis elatis patulis basi foliis floribusque densè obsitis, folis patulis 10-15 Jugis, foliolis ovatis oblongisve retusis supra glabris subtus adpressiusculis et longè bracteatis pallidioribus, stipulis a basi triangulari longè lineariter setaceis, floribus 3-5 in racemos laxos sessiles brevissimos axillares numerosos dispositis erectis brevibus pedicellatis, bracteis setaceis diradibus tubum calycum aequantibus, calycis membranacei dentibus lanceolato-linearibus longè ciliatis tubo glabriusculo dimidio brevioribus, corollâ calyce duplo longiori albidâ vel pallidâ ochroleucâ, vexillo ob-

longo apice emarginato ahs oblongis aequilongo, canna ahs multo breviori acutiusculis, ovano oblongo giaberrimo, legumine....

Hab. in campis planitie *Pisvixa* propè *hborta* et in *Jsauna* Heldr. pi. Anat. exs. sub *A. Chnstumo*.

Planta h 4/8-2 pedalis, folia semipedalia, foliola 4-6 lin. longa. In latera, Qores pollicares. *A. Chnstumo* magis quam species precedens affinis ab eo tamen speculè differt foliis reuicis nee obtusis, villo alas non superanti, ovario glaberrimo nee dense hirsute. *A. Chtctus* quoque affinis differt caule pedis albis copiosis villosis, ovano hirsutissimo

ABTBAGALUS GILVDS BOISS. (Sect. *Ckrtstumt* DC)

A. totus indumento brevi adpressissimo griseus, caulibus sulcatis a basi dense foliosis, folis patulis sub 15 jugis, foliolis parvis ovatis retusis supra glabris subtus hirsutis remotiusculis versus apicem folii seorsim dinutis, stipulis membranaceis a basi lanceolatis longè linearis-setaceis, racemis 4-5 floris laxis longiusculis, calycis membranacei parvis hirsuti dentibus linearis-setaceis tubo dinudis brevioribus, donbus.... legumine (judion) oblongo subcompressis utrinque obtuso apice mucrone longiusculo tenui terminato transverse et obsolete ruguloso adpressissime breviter et dense cinerascens puberulo.

Hab. in *CanA* (Pinard)

Planta pedalis, folia semipedalia, foliola 3 lineas longa, legumen immaturum pollicare 6 lineas latum. Indumento leguminis affinis *A. Graeo* qui differt caule petiolis calycibusque patulis bispidissimis fractu valde rugoso brevior latione. *A. Aleppus* differt proster alias notas legumine patulis hirsuto *A. maoroarpus* DC. denique quem in planitiis Palestine legi et ad quem planta Palaestina à Linneo sub suo *A. Chrtstano* citata certe spectat differt caule petioloque glaberrimis, racemis abbreviatis sessilibus, foliolis magis elongatis, legumine maximo. Grex *A. Chnstwm* ob leguminum in berberia deflaentem ad hunc imperfectè nota est.

ABTBAGALUS GILVDS BOISS. (Sect. *Chnstwm* %.)

A. basi frutescens petiolis persistentibus spinescentibus plus minus horridis, caule humilis strigis albis adpressis cano, stipulis virescentibus triangulatis acutis petalo breviter adnatis, folis 8-10 jugis,

petiolo adpressè cano demùm indurato persistent!, foliolis ovato-orbiculatis retusis suprâ glabris subtùs adpressè hirtis gnseis, racemis axillaribus laxis breviter pedunculatis 3-4 floris, flonibus pedicellatis erectis, bracteis setaceis brevibus, calycis membranaceo-flavidi breviter et parè hirtè demùm glabrescentis dentibus linearibus tubo triplo brevioribus inferioribus paulit longioribus, corollâ luteâ calyce plus sesquidongion, vexillo oblongo-lineari obtuso alas apice attenuates acutiuscula carinâ longiores superanti, legumine lineari lateraliter subcompresso subincurvo in rostrum rectum acutum attenuato adpressè et breviter canescenti nervis elevatis longitudinalibus flexuosis anastomosantibus percurso, seminibus oblongis obsolete scrobiculatis.

Hab. in coilibus propè Gere Persia australis Kotecny N° 86 sub *A. Sieberi*.

Caules 3-6 pollic, folia 6-9 pollic, foliola diametro 5-8 lin; 1 Un. lata, flores 4 HS lin. longi, legumen cum rostro bipollicare 4 Un. latum. Hanc plantam prius infauste conjunxit *A. Sieberi* quæ differt foliolis dimidiis minoribus, flonibus minoribus subsessilibus, legumine minori tantum seeds suturam convexam nervoso, seminibus laevibus. Nostra species magis affinis est *A. dactylocarpo* qui tamen legumine brevissimo 9 lin. tantum lato longius et tenuius mucronato specifice differt!

ASTAGALUS ACINAGIFOLIUS BotSS. (Sect. CAmtUH».)

A. subacaulis, radice verticali, foliis ad collum confertis dense sub-*SO* jugis, petiolo crasso strigis albis adpressis densis cano, foliolis parvis ovatis suprâ glabris subtùs canis, stipulis ad basin petiolorum confertis breviter triangularibus, flonibus solitanis vel binis pedunculo brevi axillari insidentibus... legumine primum cano dein glabro longè lineam compresso arcuato in mucronem rectum acutum attenuato rugis longitudinalibus anastomosantibus percurso utraqùe sutura conTextusculo.

Hab. in planitie excelsâ montium inter *Wad* Scheik* et plantam *Bomla* storum in Arabiâ petraâ. Legi fractiferum Hart. 4846.

Caules ad rosulam foliorum subelongatam reducti, folia 3-6 pollic., foliola 4-8 lin; a basi longa, legumen cum rostro 4-5 pollic. 4 lin. latum ferè compressum. ^{Affinis} *A. Sieberi* et presserim *A. Germi* differt foliis abbreviatis, petiolo post anthesin non persistenti, legumine longiori magis compresso, caule subnullo.

ASTRAGALUS ~~CHRYSIANTHUS~~ Bolss. et Hohen. In pi. Kotschy Pen.
bor. 4846. (Sect. *Caprim.*)

A. acaulis caudice indurato, foliis omnibus radicalibus petiolo par-
tali puberulo suffultis 18-80 jugis, foliis lanceolatis remanentibus
superioribus approximatim omnibus petiolaribus oblongis obtusis utrin-
que adpressis subsessilibus, stipulis membranaceis ovato-lanceolatis ob-
tusis breviter petiolo adnatis, pediculis strictis folia vix superan-
tibus, floribus 8-40 in racemum oratione laeviuscule congestis pe-
dicellatis erecto-patulis, bracteis hinc hinc biseriatis pedicello parvis
longioribus hispidis, calycis membranacei patuli hispidi dentibus
nearibus tubo triplici brevioribus, corollam auream calyce plus duplo
longioris, vexillo oblongo subrecurvo alas superanti, alis linearibus
caulinam multo superantibus, legumine janitor ovato compresso sublo-
nato obliquo et breviter rostrato calycem flossum paulo antea.

Hab. In monte *Elbrus* prope pagum *Paugala* Kotschy N° 496.

Folia 4-8 pollic., foliola 3-4 un. longa 5-6 un., pediculis 5-6 pollic.,
longi. Species *vide A. reduncum* fructu venis junctis referens, affinis
quoque *A. chrysotricho* et *moth* aed ob calycem DUO modo inflatum
et formam leguminis abbreviate et hirtuli nee nisi sit pediculis cita
hispidissimis rostratimque apicem collocanda Inter *Qoprinos* a calibus ferè
omnibus racemis longis pedicellatis diacedit

ASTRAGALUS ~~pTmu»nicuu9~~ Boiss. (Sect. *Caprim* J)

A. totus pilis patulis raris dense hispidus, caule brevi, folis longia
remanentibus 40-50 Jugis, foliis minutis orbiculatis pedicellatis su-
perioribus glabris subtus ad nervum medium marginesque ciliatis, ab-
sque teneris membranaceis lanceolatis elongatis hispidis, racemum oblongum
laeviuscule pediculis dimidiatis brevioribus suffultis, bracteis unari-
acetibus calycem dimidium aequantibus, floribus Jongisaimis, cadydis
pane hispidi dentibus setaceis tubo squilongis, corollam calyce sesquid-
longioris, ovaculo dense rufescenti, legumine.

Hab. In regno *Cabuluto* GRIFFITH N° 455 Min herb. Hooker.

Caulis 4 pollic., folia pediculis, fottoladlametro 3-3 i; 3 un.
longi, pediculis 5 pollic., flores 4 un. longi. Pulcherrima planta Inter
Caprinos - petto* loagit MBto follolis minimis orbiculatis, racemi* longè
pedicellatis, dentibus caudatis tenentibus 4-6 un. longis In alabastris
comosis corollas superantibus distinetis. Plures in eadem regione

in herb. Cl. Hooker adsunt species DOVSB ejusdem sectionis sed ob specimina incompleta legumine orbata non describends.

ASTBAGALUB XGOBHOMUS Boiss. et Hohen. in Eotsch pi. Pen. bor. 4836. (Sect. *Capni*)

A glaber, rhizomate prostrato suffrutescens, caulibus nullis, foliis **44-13** jugis, foliolis petiolulatis ovatis obtusis mucronulatis betè vtridibus glaberrimis vel dilo uno alterove margine obsitis a basi ad apicem folii sensim diminutis, petiolo duns ascendente tandem nudis persistentibus, stipulis albis membranaceis triangulo-lanceolatis longitudinaliter plicatis, racemis ovatis densiusculis subsecundis pedunculo eis aequilongo suffultis, bracteis virescenti-membranaceis oblongo-lanceolatis acuminatis calycis longioribus, calycis flando-membranaceo glaberrimi tubulosi dentibus linearibus acutis BIDU lato rotundo separatis tubo triplo brevioribus, corollâ calyce sesquialongiori, legumine erecto seonli oblongo-elliptico valdè compresso in mucronem subobliquum abenoti glaberrimo nervis longitudinalibus anastomosantibus rugulosis doreo convene.

Hab in prov. *Aderbtdjm* Aucler N° 444 3, in faucibus montis *Elbrus* ad *Derbend* Kotschy N° 453.

Folia 6-6 pollic., foliola inferiora 6-8 lin. longa 3-4 lata, racemi cum pedunculo bipollicares, calyces 6-7 lin. longi, legumen pollicare 4 4; S Im. latum mucrone tenui S lin longo terminatum. Afoms A. *OVMO* et A *rugoso* Tiscb qui ambo foliis multo amplioribus, prior iterum dentibus calycinis setacis multo longioribus foliolis lanceolatis, posterior foliolis oblongis acutis amplissimis albo-nervis, legumine compresso profundè rugoso differunt.

ABTHAGALCS EEMOTUUGUS Boiss. et Hohen. in pi. Kotsch. Pen. bor. 4846. (Sect. *Capni*.)

A. glaberrimus subcaulis caudiculis tenuibus repens, foliis remotè 4-6 Jugis, foliolis lætè glauco-virescentibus carnosulis orbiculatis rotundatis cum mucronulo vel retoste, stipulis albo-membranaceis triangulari-lanceolatis petiolo adnatis, racemis breviter pedunculatis ovatis crassiusculis paucioribus, bracteis albo-membranaceis oblongo-lanceolatis acutis calyce dimidlo brevioribus, calycis glaberrimi flavo-virescentibus dentibus triangulari-lanceolatis tubo 3-4plo brevioribus,

corollâ flavâ calyce sesquialongior, legumine (junior*) glabrescentif
ovato-oblongo sessili obtuso breviter mucronato.

Hab. in scabrositate montis *Sibirica* propè *Dunawend* Kotschy No H6.

Folia 6-10 pollic, foliola majora frin. tUmetro lala, calyces 7-8 lin.
loDgl, legumen maturum videtur pollicare non aut viz compressum*
Species a pncedentl et afflnibus foliolis paucis remotis magnis orbi-
cularibus facilè distinguenda.

ASTRAGALUS ALEXAKDUNUS Bolss. (Sect. *Gopni*.)

A. totus pilis patulu bispidus griseus subacaulis, rhtzomate suffru-
tescentl csspiloso, foûis 43-15 Jugis, foliolis ovatis retusis, stlpulls
membranaceis blspidis lanceolato-acumuiatls, racemis subsessillibus
denBiusculis, bracteis lineari-setaceis calycem dunidium squantibus,
calyds bispidi ffavidi denhbus linean-subulatia dimidlo tubo longio-
ribus, corona calyce sesquialongiori, legumlnibus calycem flssum non
superaDtibus sessilibus breviter ovatis non compressu longè et parcfir
bbsntiB tandem glabrescentibus tenniter transversè vemilosis suturâ
utrflque pnesertim superior! elevatis obtusis mucrone brevissimo ter-
minatls.

Hab. In *JEgypto inferiori* propè *Aleaxmdriom* Cl. Cadet de Fontenay.

Habitus floras et cbaracteres *A. lanigeri* qui In jEgyptl arenosis
propfc *Aboukxr* et in deserto Arabico ad Palssiins fines abundè cresdt,
ab eo specified distinctum esse credo ob legumina subrotunda piso
tantam viz majora nee oblongo-subcompressa.

ASTHAGALUS MODESTUS Bolss. et Hoben. in pi. Pen. bor. 4846.
(Sect. *Copni*.)

A. glaber acaulis, caudiculis tenuibus subterranelis, follis paucis
brevibus horni expansis 44-17 Jugis, folioln parvis oblongis vel ellip-
tids acutiuscubs, stlpulis cum bracteis ad basin folioram congestls
albo-membranaceis ovato-oblongis obuisiusculis, flonbus pauds sub-
seBallbiis, calyds «labri flavidl dentbos breviter triangulari-lanceolaUs
tubo triplb brevloribus, corollâ calyce subduplb longlorl, Iegumine
giibro minimo breviter ellptico ompresso basl et apice rotundato
mucrone tenul incurvo longiusculo iDstructo, margtae veillari cari-
mdato ad latera canns utrinquè sulculoso.

Hab. ad radices montu *Dunawend* propè *hair*. Kotschy N° 344.

Folia 4-9 poll. longa, foliob *i* lin. longa, floras 7 bn. lougi, legumina 5 IID. longa 3 lata lineam densa nmcroiralo *t* lin. longo iiuUnub. Species fructu compresso minuto notabilfe affinis *A. nymmlano* qui differ! fructu ovato blrsolo, foliolis orbiculatis etc

ASTRAGALI TRAGACANTHJE.

Inter species bujus sectfonisdiscrimina quoad fructfls 6ructoram obaervantur; in omnibus *Tragaeonthis** *sessUiftons* nempè legumen minimum semper uniloculare est et in speciebus plunbus vexillum ad mediam partem ulnnqnè unguicolo vel denticulo auctum est, in aliisautem tantam subdilatum ve) ab apice ad basin attenuatum. la *Tragacanthis pedunculate* panter species plures v. gr. *A. Massiümtis*, *Jftrmoneus*, *angtistifalws*, *braoteolatus* etc legumtaa bilocularb babent, aha ut *A. lagurus*, *eolvteotdu*, *tumtdus*, legumen omnio6 uniloculare, alls ut *A. fascicultfolius* *A. tumido* caeterum proxime afflnis legumen dfssepimeDto mdimentario InstructQm. Plane ffeitar contra naturam esset cbaractenbus illis ade6 variantibus generlee disjungere eas planlaB quas tamen in. sectiunculas magls natarales cam pluiium fructus notqs ent in flora Orientali ordloare conabor. Donee flat, divislonem e forma et ma&Dltudlne calycis depromptam in dlfcHlima grege *Tragomntharwn sessilium* hie propono. Et autopsia herb. Tournefortianl Panslensis et Willdenowiani mihi ab amiciss. *D*ⁿ Klotsch humanlsslme coramunicati species omoes Candolleanas et WUJdenowianas e speciminibus orlginallbus conferre mlhi llcult.

fragactmthce mstles macrocalyctni Boiss.

Calyx elongatus denlibus loogis s«p6 plumosta vel villostoslmis sed dlslinctls uec villo connexis (Grex *A oompactt*, *plwnon*, *arwtati* etc.)

ASTRAGALUS DBINACANTBPS BoiSS. (Seel. ***Tragacanthas.***)

A. canDbus robustis brevisslnris, foliis longissünis remote 6-6 jogto, petiolo robusto albo glabro lereli in spinam flavidam foliolis multo longiorem abeunti, foliolis niagnis rigidis nervosis elliptico-lanc8olatlB glabrjs vel sub lente parcc et adpresse pilosulis in spinam flavidam

longiusculam abeuotibus, stipulis cartilagineis flavidis darts triangulari-lanceolatis nervoso-reticulatis foris florallum brevioribus latioribus, floribus ad basin foliorum in capitulum maximum densissimum ovatum congestis, bracteis lanceolata vel linearibus acutis supernè hinc calyces brevibus, calycibus dense albo-hirsutissimis dentibus hinc subsplnulosus tubo aegrè flossill pauld brevioribus, corolla carnea calyce quartâ parte longior, veilli lamina basi auriculis rotundatis auctâ ungui subsequilonga, alis infra medium carinatis adnatis, legumine ovato obtusiusculo.

Hab. In arvis incultis totius Syriae anterioris, in plantis ad occidentem Aleppi, inter Damaseum et Antilibanum, In omni *Calceyria*. (Boiss.)

Petioli medi pollicis, foliola saepe pollicaria 4-5 lin. lata, capitula saepe ovo majora, calyx 8 lin. longus. Hanc plantam insignem omnibusque quae Syria peragravit bene notam diu pro *A. Ivngifolia* Lam. *A. pugntiformi* I/her. babul donec spedmilia Tonnofortiani itineris me diversae speae ease docuerunt. *A. Imgi/bhus* habet petiolos tenuiores sjugos, capitula minora, bracteis oblongae obtusiusculas cymbiformiter plicatas, calyces 6 lin. tantam longos ad basin usque belle flossiles et ex Armeniam oriundus est.

ASTBAQALDS HABBKTAKDS Botss. (Sect. *Tragaoantka*.)

A. basi suffrutescens, caulibus brevissimis, foliis 8-44 jugis, petiolis rigidis adpressissimè puberulis teretibus in spinam brevissimam terminalem abeuntibus, foliolis rigidis pallidè vireutibus reticulato-nervosis utrinque adpressissimè puberulis ovatis oblongisve obtusis nervo medio excurrente breviter mucronulatis, stipulis flavidis carulagineis triangulan-lanceolatis nervulosis foliorum floralium latioribus, floribus ad basin foliorum in capitulum magnum densum ovato-rotundum congestis, bracteis lanceolatis linearibusve superne hirsutis calyces aequantibus, calycibus albo-hirsutissimis dentibus hinc an apice spinulosis tubo aegrè flossill tunc brevioribus, corollam carnea calyce tertiâ parte longiori, vexilli laminam inferne obtusè subauriculatâ in unguem brevissimum sensim attenuate, ovario albo-hirsutissimulo.

Hab. in Antilibano supra Haabeya ubi legit et mihi comra. cl. D. Pestalozza.

Folia 6-8 poll. longa, foliola 6-7 lin. longa 4 lata, capitula magnitudinis ovi parvi, calyces 6-7 lin. longi. VoMe affinis *A. dnnaemtho*

sed distioctus foliolorum forma, pedicellis abbreviatis, calycis dentibus inullos brevioribus, statione alpina. Medius est inter eam et *A. oleaefolium* DC. *A. pugniformem* W. non L'Hér. affinem sed ab utroque dentibus calycinis abbreviatis deorsum tomentosius obtusatis distinctam.

ASTRAGALUS STHICTIFOLIUS Boiss. (Sect. *Tragacantha*.)

A. suffruticosus caulibus pedicellis vix distinctis elongatis hopidibus, foliis 3-4 Jugis, petiolo crasso in spatium flavidum foliolis multo brevioribus cuneatis, foliolis remotiusculis distincte adpressissimis lobis pallidius virentibus elliptico-linearibus longis nervis superius reticulato-nervosis in mucronem flavidum in digiunculum attenuatis, stipulis flavescenscentibus glabris triangularibus cuminatis reticulato-nervosis, floribus in capitulum oblongum densum ad basin fororum superiorum dispositis, bractea angustius cymbiformi-oblongis etiam villosis acutis calyces subsequantibus, calyce densius albo-pilosiusauno dentibus hinc setacea tubo demum flsidi paulo longioribus, corollam calyce subflesquilongioris e sicco carneam, vel laminam albam acutius auriculatam in unguem est paulo brevioris attenuatam, alarum unguibus basi tantum carliue adnatis, orano albo-hirautissimo.

Hab. in valle *Talagon* montis *Elbrus* proprie *Gattade* Kotschy Pen. bor. N. 5g1.

A. arnaoantha var. loc. clt. non M B.

Caulea semipedales, folia 3-4 pedicellaria, foliola 8-10 lin. longa 4-5 lin. lata, calyx 6 lin. longus. Hanc plantam ad *A. arnaeantham* tunc inibi e descriptione tantum notam diversissimam male retuleram. Haec species affinis *A. compacto* W. (vero) et *A. pyenocephalo* Fitch ab utroque differt foliolis magis elongatis glabrescentibus nec canaliculatis, inter eos et *A. longifolium* quasi media.

ASTRAGALUS DHUBOHUM Boiss. (Sect. *Tragacantha*.)

A. basi suffrutescens dumuloso-multicaulis, caulibus erectis abbreviatis, foliis breviter et adpressiuscule hirsutis sub 9 jugis, foliis ovatis oblongisve obtusiusculis brevissimis mucronatis, spinis terminantibus foliis breviori, stipulis teneris albidis triangularibus. acutis ciliatis, floribus axillaribus numerosis spicam cylindricam densam totam caulis longitudinem occupantibus, bracteis omnibus

bus lnesn-setaceis albo-phimosls catycis dentibus almillbus et aeqm-longu, calyds nivei densè plumosi dentibos setaceu inbo denrâm llaslll squilongis, corolla oohroleucft vel pallidè earned calyce sesqui-longlori, vexilli alas paul6 superantis laminâ ungui sequDongft basi aunculatd auricullis oblongis descendentibus obtusis, alarum laminâ vogueque infernè cartes adnatis, ovarlo albo-villoso

Hab. in sfecis montis *Gebel Baruck* Libam sup̄a *Detr el Kamar*. Legi JuUo 1846.

Cautes 4-6 polhc, folia blpollicaria, foliola 3-4 lm. loaga 4 4;a-S late, splca a $\frac{1}{2}$ - $\frac{3}{4}$ pollic., calyces hn 6, corolla ho. 9 longi. Species elegaDB exafflnltate *A. compact** et *A. Tmoln*, foliis moimugis, capi-tnlo elongate, bracteis omnibus setaceisdisincta.

AstBAGALus TMOLBUS Boiss. (Sect. *Tragacantha*.)

A. caulibus fratescentibus erectis proceris petiolJs vetustis erecto-patalis borrdls, fbllls sobsexjugls, follolis utrinqnè adpresslusculè hlnubs sericeo-griseis ovatls oblongisque obtusfuBculis mncrone brevi flavldo termlnatis, petlolo òlrauto in spmam foliolls breriores abeunti, stlpulis tomentellis ID cuspides lanceolatas aculas attenuatis, florlbas ex uUHs taferioribns numeroslB capitnlum oblonso-cylindricum densum sub follis annotlDiB formantlbns, bracteis superaè sericealB exterioribus latè oblongia acutis Interloribns naviculari-pllcatis plus minus angustè llinearibos calyds tubum xquantibus, calycia longè densèque serlceo-lanati denUbus setaceis plumosissimls tubo demùm flssili subduplò longlonbus, corolla roseâ calyce seaquilongiori, veiilli laminâ uDgue vn longiori basi in auriculas rotundatas dilatata, alls medium verstis canna? adnatis.

Hab. in regione mediâ *Tmott* sup̄a *Phladelphxam* et ad *Bozdagh*. Leg! flor. Junto 4 **ail**.

*A. phmow** var *tomentosus* Bolss. pi. Anatol. exs. **4848**.

Siepè pedafu, folia % *ifi* poll., foliola cum mncrone 4-5 Hn. longa. 9 4;9-3 UUa, captulum 9-8 *hjt* poll., calyx 6 hn. longus. Afflnfs *A. compaato* W. (vero) et *A. pyonocephalo* Flscb. In pi. Kotsch. Kurd. Prior dlffert foliolls oblongo-lanceolatls adpresaU canescentibus in mucronem longiusculum attenuatls, calyciB dentlbn brerioribus. Posterior habet foliola majora adpressè canescentia oblooga acutata, capitQim BUbglobobum, corollam e calyce breviter exsertam. *A. Thnuiaiu* Griseb. afflnū quoque differt foltolis glabreBcentibus, corollâ ochro-

leucâ calyco vix longiori. *A. plwnotus* W. denique cui quondam meani plantain retuleram est species diversissima caulis brevissimis, foliis angustis, capitulo sphaerico, corollâ calicis aequilongâ, etc

ASTBAGALUS PANASSI BOISS. (Sect. *Tragacantha*.)

A. caulis suffruticosus abbreviatis ramis glabris, foliis sub 7 Jugis, foliis oblongo-ellipticis acutis brevissimè mucronatis praeter pilos Donnullos ad margines sparsissimos glaberrimis, stipulis rubellis ac cuspidibus breviter et acutè lanceolatis ciliatis productis, floribus numerosis axillaribus capitulum globosum deorsum foliis supremis sessilibus superalibus formantibus, bracteis tenerè membranaceis exterioribus nuncularibus dorso et margine lanatis interioribus sessilibus plumosis calicis tetraquilongis, calicis albo-plumosi dentibus setaceis calycis tubo demum sessilibus sesquilongioribus, corolla rosei calyce subsesquilongioribus, vexillum alas parvas superantis laminâ ungue subbrevis basi in auriculas triangulares horizontales acutiusculas abeuntibus, alarum unguibus usque ad 3/4 canas adnatis, ovario albisplido.

Hab. in Panassia Spruner sub *A. plumosa*

A. anstata var. *australis* ex parte Boiss. Voy. Hisp.

Caulis 4-6 pollicares, folia sesquipollia, foliola 3-4 nervis longa 4-4 1/2 lata, capitulum nuce majus, calyx 6-7 UD., corolla 9 lineas longa. Ab *A. aristato* cum olim formas plures Orientales conjunxeram differt foliis glabrescentibus, calycis dentibus elongatis, petalorum proportione ab *A. plumoso* W. qui est planta Dana longius distat.

ASTBAGALUS MITCHELLIANUS Boiss. (Sect. *Tragacantha*.)

A. caulis brevissimis, foliis 8-12 jugis, petiolo tenui hirtulo hirsutissimo flavida foliis brevioribus abeuntibus, foliis glabrescentibus vel adpressiusculis et parcissimè hirtis ellipticis acutiusculis mucronatis, stipulis triangularibus acutis, floribus in capitulo ovato densè ad axillas foliorum superlatis congestis, bracteis omnibus linearibus aetate deum plumosissimis, calycis deorsum albissimis linearibus illostatis tubo demum quinquepartito dimidiatis brevioribus, corolla rosei calyce aequilongâ, legumine minimo oblongo-albisplido.

Hab. in Phrygia inter Arum* et Giduz Mitchell in herb. Hooker, quæ probab. quoque spectat Aurher N° 1157

Affinis *A. Pamasso* differt »alyce nullò densius albo-lanato dentibus tubore(ior)ibus, corolla calicem non superanti.

ASTRAGALUS GLOBIFLOIUS Boiss (Sect *Tragaeanthus*)

A. suffrutescens, caulis brevissimus horridus, folia sub 4 jugis, petioli brevissimi? ID spinam formans aequilongam vel longiorem abeuntibus, foliis elliptico-lanceolatis acutis mucronatis adpressè canescentibus-Aericeis, stipulis triangularibus acutis tomentosis, floribus ad basin foliorum supremorum in globum densum congestis, bracteis oblongo-linearibus plicatis albo-brevissimis calyce brevioribus, calyce albis-Ussulo domum ferè ad basin in lacina linearis-setaceis partito, corollam calyce sesquialongam, legumine parvo ovato-oblongo canaliculato obtuso

A. amaeantha Boiss. in Kotschy. pi. Pen. bor. non MB

Hab. in monte *Elbrus* prop* *Derbend* Kotschy N° 658 et In Persto australi N° 792. Yerosimiliter tunc quoque referendum Auch N° 4168 e Persia, foliis oblongis tantum diversum.

Caules 4-3 pollic., folia 4-8; S-8 pollic., foliola 4-6 lin. longae, calyx 6 lin. longus. Diversissimus ab *A. arnaoantha* qui inter *Tragaeanthas microcaryeina* mullat, maps affinis *A. plumoso* qui tamen foliis angustissimis, petiolo tenuibus etc distat et *A. Lamarckii** quo lacina longioribus, petiolo crassiori longioribus spinoso etc differt.

ABIBACALUS PILODES Boiss (Sect *Tragacanthus*)

A. suffrutescens prostratus ramosissimus, caulis brevissimus horridus in dumum erinaceum congestis, folia brevibus 4-6 Jugis, petioli spina terminali foliis breviori vel squilloga, foliis minimis oblongis mucronatis plus minusve densè canis, stipulis triangularibus acutis brevibus, floribus in capitula terminalia globosa ad basin foliorum supremorum congestis, bracteis exterioribus oblongo-lanceolatis nitularibus doreo villosis interioribus calycis tubo brevioribus, calycis plumosus denibus tubo demum fissili longioribus setaeis, corollam velicem calicem pariter superanti, velillo Intentis acutè auriculato in unguem eo subbreviorem attenuato, alis usque ad lamina carina adnatis, ovario albo-fimbriato.

Hab. in regione alpina *Sypili* supra *Magnesium* in Lydia (Boiss.), in

montibus *PtsutuB* supra *Bouldow* (Heldr.), in *CanA* Pioard sub *A. Crettco*.

Habitus ommuu *A. Susulx* a quo differt calyce 6 Uo. longo corollam subsquantl nee eà ferè dimidid breviori, non densè niveo ut in *A. compacto* et afOnibus sed tenmter plumoso ut in *A. Parnasst* et *plumosa*. *A. plumosus* W. verus e Galatiâ quoad captula et florea slmika differe foliolis angusllssimis ferè acclulanbus.

ASTRAGALUS GBUENTIFLOBUS BOISS. (Sect *Fragacontha*.)

A. suffruUcosus denslssimè dumoso-erlnaceus, caulibus ramiaque peiulis veluslignificantibus horridis, foliis tenmnalibus paucis densè cano-tomentosis, foliohs 6-7 minirais approximatis ovato-oblongis subttas canaliculate breviter mucronuJatis, petioli crassi spinâ tenninali foliohs longiorl, stipuhs albis tenerrimis triangularibus aculis ciliatis, flonbus ID capitula globosa densa ad axillas foliorum coagestis, bracteis paucis Imcaribus subplicatis extbs tomentosis calyce dimidiA brevloribus, calycis albo-bispidissimi deotibus liueart-setaceis tubo dembm flssili longionbus, corolla intensè purpureâ cruentâ calycem vix superantl, vexillh laminâ medium versus in dentes latè triangulares obsolete ditatata ab ungue vix distinctA, ovario densè villosa.

A. Orettcus DC. herb, non Lam¹ (Specimen erroneè Creta ioscriptum ex itinere Onentali BiUardien oriundum I)

Hab. in excelsis montis *Hermonu* supra *Raacheya* alt. 7000'-9000' Legi Julio (846)

Suffrutex dumos benuspbsricos bpedales formans, folia B-IOUneas fohola sesquilineam tantum longa, calyx 6 Un. longus. Planta captulis craenhs nunierosis ferè contiguis elegantlsslma afBnls *A. ptUodi* et pJufntKoab eis d^ersa tomeDto denslssimo follonnn, foHofis nilnuQs-simls, vexillo obsolete ungulcolato etc.

ASTBAGALUS LAMAHCKII Boiss (Seel *Tragacantha*.)

A. suffrutescens csespltosus bumillimus, foliis brevissimis 9-4]ngls splnâ follolis paulò breviori terminatis, follolis minutis incanis elllp-ticls utnnquè altenuatis acutis breviter mucronatis, sflpuMs breviter semiovatis acutlusculis, floribus axillanbus In capitula globosa densa parva ad basin foliorum congesUs, bracteis oblongia vel oblongo-umeatis supernè lomentosis cal>cc brevioribus, calyre denslsslm^ et

long* albo-higpldfesimo demum ferè ad basin usquè In ladnlas llinean-
setaceas commventes partito, corollâ calycem vn superanti, vexUll la-
minâ basi minute auriculatâ senslm in unguem brevisshnum attenuate,
alarum ungue ultrâ medium usqnè carinee adnato, ovarlo albo-hirantis-
simo.

*A. compact*TM var. j9. Lamarck. I WIUd. Sp. et Herb I DC. Astragal,
tab. 34 flg. s ubl foUolorum numerus nlmu auctus est — *A. humUu*
Willd. Herb, non MB. I — *Tragac. onentofti humMma inoana florepurascenceToum.* Cor.

Hab. in *Armema* Tournef I Gundelsbeimer! in *CappadoaA* Aucber
N° 4961 bis

Planta 4-4 4;g pollic, folia 8-41 Un. longa, follola 3 lin., ca-
lyces k Ito., corolla 5 lin long). Ab auctoribns antiquiDribuB ad *A.*
compoctum relatus sed ab eo longè diflert capltulls globosis avellanâ
vix majoribus nee amplis obiongis plurimisqne aliis notfs. *A. arna-*
*eantha*MB. — *A. horridus*Yïlid herb. I e Taurfâ cul cl. DC. *A. com-*
paotwn var. p. refert, ex specimine Bleberateinfano herb. VIUd. om-
nlmb dffert caullbns 2-3 potllcartbuB, sfapulls tenerrlmls acutè lan-
ceolatls plurinerviis, calyce parvo corollâ dimidiâ vix longiori.

ABTBAGALUB ocaochLOBcs Bolss. et Hoben in pi. KolsclK Pen.
bor. 4846 (Sect. *Tragaoantha*)

A. suffrulescens caulibus glabns totâ loagLtudine horridis, foliū»
glabriuacuhs pallidè virentibus 6-7 jugis in spinam follolis longiorem
abeuntibua^ foliolis obloogo-ellipticis brevissimè mucronatisparvls,
stlpulis triangulari-lanceolatis ciliatulis albidis, floribus ad basin folio-
rum densè capitato-fasciculatis, bracteis membranacels lanceolatisacutta
albidis gbbrls vel apice hlrautis calychnium bibumaBquantibus, calycis
breviler et adpresalusculè bireutl dentibus setaceis rubelUs tubo non
flsslll aequilongis, corollâ robrâ calyce sesquilongtorl, vexillo eiau-
nuculato senslm in anguem attenuate, alis Uberls, ovarioadpresse
hirsuto.

Hab. ad radices moolis *Dmaumd* propé Lor.Kotschy N° 336.

Folia blpollicaria, follola majora 3 4;illn. longa 4 4/2 lab, capltula
Duce miBora, calyx 5 lin. longus. Afflnis *A. Miehauxumo* DCqui
dffert denlibus calyds patulè plumosuslmis tnbo tnpl6 longioribus
coroltam superantibus, etc.

ASTRAGALUS LIROMOLBPIB BOISS. el Hoben in Kutschay pi. i'ers
bur 1846 (Seel. *Tragacantha*)

A affruiescens caulibus lignosis nimosissimis, ramte abbreviates
horrlidis, folns numerous subsexjugis, petiolo bispidulo in splnam
trnucm foliolisaequilongam abeunti, foliolis adpressiuscule el breviter
Inrtis grisco-virentibus ellipticis aculiusculis mutlcis, atipulis trian-
gularManceolatis acuminalis tenens supernè intensè purpureis, floribns
in capitula densa subrotunda ad foliorum basin congeslis, bracteia
oblongo-lineanbus cymbifonniler phcabs aculiusculis glabriusculis
mtidis calyces siibsquantibus apice intensè purpurels, calyacia sub-
patulè albo-plumosi denlibus setaceis crecto-palulis tubo subloogio-
nbus, corolla ocbroleuc9Tcalyce paulò longiorl, vexillo corvato obloogo
exaunculato in unguem non attenuato, ahs libcns, ovano albo-bfnuto.

flab in raonte *Tolschal* propè *Teheran* Kotschy N° S50.

Folia sesqmpollicana, foJiola ferè 'i Jin. longa, calyces ferè 2 Ho.
Jougi AfDnis *A ochrochloro* et *A. aureo* W ab eis prater alias notas
braetearum colore el longitudme distinctus

AsIRAGALa KCBDICUS Boiss (Sect *Tragacantha*)

A. suffruticosus. ramosissimus totus potiolis \etuslis adpresais spi-
noBia obsllus, foliis 4-Sjugis, foliolis pallid6 \irantibus iiaròe el
adpYeuis&imè birtls ellipticis utriusque attenuate mucronatis, stlpulw
irtaDgulari-lanceolata aculla (slabreacentibua, floEibns ailUaribus b s-
uculaUs In spicam laxiusculam approunuillB, bracleU oblongls acutls
concavIB calyci aMiulongls, caljcta albo-birsutlssimi denlibus Uneari-
setaceis tubo demiim Hssili longionbus, corolla roseà calycem breviter
excedenll, vexillo basl obtusè auriculato in unguem vix angustito,
o>arlo albo-hlrsuliasimo

Hab In subalpims montis Gam *Kurdistanta* Kotschy N° 362.

Frutex tripedahs, folia sosquipollicaria, follola 3-1 hn.longa vix
\ 4;1 lata, ial>x 5 lin longus Ilabilu *A. Novadenst* et *A. plumose*
simllls ab eis ul et ab omnibus pncedentibus floribus in capitula densa
ovata vel rotunda non congestls sed paucis ad axillas superiors laxè
rasdeubtis dlstmctus *A barbajovu* ad quem dubilanter cl. Pitcher
uostram plantain retullt el COJK specim mcompleta In herb. WIUden.
ct Tournef udi, est species diversissima foliis multò breviortbus, fo-
liulis adresse argyrels, floribus ul videtur ad axillas Biibsolltarlls.

AKTBAGALIS BETHUUAUTICUS Boiss. (Sect. *Tragacantha*)

A. *auffnitescens* ramosissimus horridus, foliis & 6-jugis, petiolis crasBls ngidis in spinam flavidam follolis longiorem abeuntibus, foliolis densè et adpressè cano-argenteis parvis oblongis acutis mucronulatis BubUs canaliculatis, stipulis latè triangulan-ovatis acutis flavidis brevissimè tomentellis, floribus in fasciculos parvos axillares 4*6 Ooros ovatos aretè bracteatos in capitula terminalia aggregatos dispositis, bracteis concavis ovato-subrotundis acutis & mucronatis membranaceis caiyciouiD tubum superantibus inlimis minoribus apice ssepè dentato-laceris, caiycis densissimè albo-hispidissimis lacmils setaceis tubo flssill longloribus, corollà purpurei calyce vix longiori, vexilli laminà acutiBCute aunculatà in unguem est subbreviorcm aensim attenuate, ovano densè albo-hispido.

Hab. in Judacà ad *Herodum*, *Thicuam*, *Bethlehem* (Sieberl), in monte *Francorum* propè *Bethlehem* Aacher N^o 1164, in collttnis *Dama\$*a et in Libano suprâ *Dew el Kammar* (Boiss.)

Suffrutex 3-5 polbcaris, petioll 4-4 *iji* poll., foliola *i* Un., calyx 5 Un. longus. Planta cum *A. lepidantho* et *diphleri* Fenzl sectuDCulam formans flonbns in faadcolos axillarea ardè bracteatos in capitula plàs mfnuB approximatos dlspositis mslgnem.

ASTBAGALUS LEPIDANTHUS Boiss. (Seel. *Tragacantha*)

A. *Buffrutescens* ennaceus humilis totus petiolis veLusbs tenuibus horridus, foliis trijugis in spinam foliolis longiorem abcuilibus, fOHOUB adpressissimè Bericeo-canescentibus ellipbcis plicatis in spinam flavidam els dlmidio brevioris attenuatis, silpulu flavescens triangularibus acutis glabrilusculis, florum fitsciculis axillaribus 3-4 floria arete bracteis in capitula lerminalia irregulariter congesUs, bracteis extenoribus calyce pardm brevioribus ovato-subrotundia breviter mucronatis concavis tomentellisB lnttmis paucis angustè oblongis, calyda denBlaalmè albo-hispidissimis dentibaa Hnearl-setaceis tobo demm QsuU oqaUongis, corollà calyce Beaquullongiori purpurascensfl, vexilll laminà Internè acutiusculè biauriculatà in unguem est ferè loogioris atteoiutâ.

Ibb. In plamUe Inter *Edltp* et *Aleppwn* in incultis, legi Junto 1846.

Suffrutex 1}2-1 pedalis, folia pollic, foliola cum spins .1-3 1ft II-

neas longa, fasciculi Qorum in alabastro braceia aretè iavolucral oblongo-compressi acuti fructum simuiantes, calyx 4 hn. longus. A specie precedent] egregiè distinctus foliolis multò mlnhs densè CBDIS longfe spfnulosis, calycis brevions dentibus brevloribus densriis hlrsu-Us, A. *dypkterites* Feozl afflms quoque differl foliolis duplò majorllras nerrosis, corollâ intensè purpured etc.

ASTRAGALUS AHTABICUB Bous (Seet. *Tragacantha*)

A. humiUs suffrutescens totus peUohs vetustls horndus, follis elôngatis remobusculè 6 Jugls*, foliolis vlnclibus suprâ nervulosis utrin • què glabrescentibus vd parcissimè pllosolis oblongo-ellipticis obtusiusculis longiusculè mucronalis, petiolo teoui puberulo ID splnam flavidaoi foliolis sequilongam vol breviorè attenuate, stipulls tnan-gulan-lanceolatis acumlhahs birsutls, flonbus pauds axillanbus capitula subrotunda parva ad basin foliorum supenorù fonnannlbn, bracteis exteriorlLus ovatis concavls breviter mucronatis dorso to-meDtellis calycem tubum aequantibm intenorfbus anffustioribus oblongis plicatis, calycis dense et breviter tomentoso-pannosì alb' denlibus e basi lanceolala subulatis tubo aequilongis, corolla calyce sesquilonglon, vcxillo basi aunculato m unguem squilongum senslm attenuato, ovario hispido.

Hab. in SyriA propè *Antab*. Aucher N" 4957.

• Seroipedalis, folu a-4 pollic , follola cum mucrone 4-5 Un. longa' 1 lata. Calyx 5 Un. longus. Species dlsposlUone florum inter species precedences blnaset cas floribus captatU donalaB, Inlnermedla, Inter onraeft calyce non plus minusve longè densèqae hirsuto sed brerls-simè tomentosò pannoso Insignis, folils longis follollsque Tirentibu^ A. *andrachnefoltum* csterum diversissimum referens.

ASTOAGAFIA mLODOKTUS Boiss. (Sect. *Tragacantha*.)

A. suffruUcosus cauhbus ramosissinnB homdls, foliisadpressiusculè lomentellis griseis fi-7 jugls in spinam foliolis multò loogiorè abeuo-tibus, foliolis mmutisslmis approximatis stnctiuaculis ovatis acutlus-culis muticis laeie supenori plicatis versùs apicem petlioli decrescen-tibuo, stipulls tenernmis albo-hyahnis trunqubrlbus acnlls gbbrtus-culis, flonbus ID lasciculos I-L floroa axlllares sesBiles remotos. dispositis, hrtulcLs glahns sliammeis angustè oblongis navlcularl-

pltaalis subincurns acutlusculls calycloum tubum equaotibus, calycis patulè et longè albo-hispidi dentibus pluniosis subincurvis patulls corollam subsuperanlibos tubo brevl lato Don flsslli paulb longloribus, vexllll lamina: ovattf exaoricolatfl infernè senslm attenuate, alls usquè ad unguent dimidlum carinae adoatis, ovario adpreasè cano.

Hab. in regione inferior! Ltfom vel *Anttiibanx*, loci proprii non mem̄nl. Leg! Jul. 4846.

Semipedalis vel pedaks, folia 4 4; M poHicarla, foliala majora sea-quinneam longa, calyx 6-6 lin. longus dentibus surstun aubrecurvis. Species flonbus panels in fasclcalos remotos disposibs, calycis tubo brevi lato Inaignu et potias characteres *Tragacanthorum pedunculatorum* plnrium exhlbens.

Tragacanth® *semks microcalyani* Boiss

Calyx brevissimus dentibus villo connexla fndistinctli. (Sectlo *A. Caspd, Cretin*, etc.)

ABTHAGALUBTALAGONICOB Boiss etHoheo. in pi. Kolsch. Pen. bor. 4846. (Sect. *TragacanthcB*.)

A. suffruticoana caullbos breviBahnla horridla, folila sub ijugia, foliolla brevllsimè lomentello-canescens angustè ellipticia infernè angoslatis obtusiasculis longlusculò mncronulatis, slipulis flavidis ovato-if langularibua acumlnatla glabrls nervulosis calyces occultantibus, lorlbua aectis caulera ad foltorom axillaa In capftulum oblongum den-BUD confertts, bracteis oblongo-Unearibua navicularl-piieatls widè Incnrvis caiyce paidò brevioribus, calycis adpressè htrsuti deotibuB Inearibua tubodemamflasilaubaquullonglB, corolla pallide rofieft caiyce vtxaeaqnilongioii, vexillH lamina baal obtusè auriculatà in nnguem est breviorè senslm attenuate, alia parte Inferior! ungnls carinae adnatla, ovario birsudssimo.

Hab. propè *Gattade* In valle *Talagon* montis *Elbrut* Kotschy No 660 A.

Caulea 3-4 pollicares, folia 4-1 *hfl* poll., fotiolacum mucrone 8-6 bn. longa M 4;1 lato, calyx 4 lin. longUB. Valde afflnto *A. strictifolio* pro cuju formà dlmtntà eum priøj habal sed none ab eo mlhl dlv-BUB videtur propter calyces multb brerlona slipulis ferè ad apcem uaque occultatoa adpregioa miniteque dense pflosoa; folia griseo-to-

menlrij nee adprcsē hirlula siwt. Medlus mler *Maem* el *Mtorocaly-
cmo**

ASTRAGALUS PRCSJAKUS Boiss. (Seel. *Tragaeanthce*.)

A ramosismuis breuter caulescens, foliis patenilbus 7-9 Jugis in splnam brevisslmam apice abeuntibus, follolis ovalo-oblongis adpres-
sissimē litrtis griseis in mucronem tenuissimum uttenuatls, stlpulis
albo-lomentosis brevisslmis trlangulanbus, floribus in capitals teran-
nalla compacta rotuDda bombycina densē congeslls, bracteis Ineari-
setaceis plumosissimls, calycis bombycinl turbinati dentibus lineari-
bus apice subincurvis prater mucronem villo occultalis tubo demum
flssiH brevlonbus, corollak carneā calycl sequilongft, vexllli lamina basi
obtuse aunculalâ in unguem breviorē attenuatA, ovario albo-blr-
sutisslmo

flab, in collibus inter *Broussa* et *Ghemlek* Bitbymae ubi legi
Junio 4842.

Gaoles 3-4 pollic , folia 2 poll., foliola cum mucrone 3 lln. longa
Capitua magnilud. DUCIS. AfBnn A. *Mitchellvmo* differt pellois cras-
sioribus, follolis non glabrescentibus, calyce turblnato *i* lin. tomtôm
longo compaclē lanato, capitulls dimidi6 minoribus, accedlt qaoque
ad A *Meyen* et A. *amblolepulem* Fisch. in Kolsch. pi. Kurd ?

ASTRAGALUS MEYEBI BOISS. (Sect. *Tragaemthce*)

A suffruticosus ramosisBimus ramis brevissimu spinis palubs mgrU
horndls, petiolis lomentellis superoē et approxlmatUn 4 jugis in spl-
nam tenuem foliolis breviorē abeuntibus, foHohs eUiptacis in mucro-
nem brevem tenulssimum abeuntibus densē et breriter tomentoao-
canescentibus, stipulis imngulan-laneeolatis acutls tomenteUu, flor)-
bus In captula parva rotunda compacta ad axlllas auperlores congestis,
bracleis linean-spalnhalaus basi glabns superoē albo-tomentosls, ea-
Ijcis turbinati densē albo-lanati dentibus linearibus villo occultatis
tubo flssih squilongis, corollâ pallidē carneā calyce sesquilooglrl,
veullo exauriculato in unguem senslm attenuato, alia per unguea et
basin hmbi carinae adnatis, ovano albo-birsutissimo.

*A. compact*TM C A. Meyer Enum. Gauc. Gasp, et Ledebour Fl. Hos-
sicaooQWilld.

Hab. m districtu *Swont* prov. *Tahlsch* C. A. Meyer I Hohenacker!
SufurutexulTidclurhumilis, pptioli 4 4S pollic., foliola 4 lin. clrcil.

longa, capitula magnitudine inter avellanam et nucem media, calyx 3 *ifi* lin longus Species hucusque pro *A compacto* W. habita sed ex autopsiâ plants Willdenowanse ab eâ omohrt diversa calycis brevis lurbinati dentibus lanâ crassâ obtectis *A compacto* est specie* macrocaiydna ex affinitate *A.pycnocephahet strictifolu*

ASTBAGALUS FILAGINEUS Bolss. (Sect *Tragoanthes*.)

A. suffruticosus raioosissimus ramis serinaceo-lintricatis, pettoliabrevibus crassis albo-tomentosis 4 jngis in spinam flavidam foliolis longis abeuntibus, foliolis inatissimis nivo-tomentosis ovatis mucronatis paginâ superior! canaliculato-plicatis, stipulis breviter triangularibus infernè albo-lomentosis supernè glabris nervulosis lutescentibus, floribus in capitula densa globosa compacta parva congestis, bracteis linearibus cymbiformibus longè albo-plumosis calycem subsequantibus, calycis brevissimi longè et densè albo-plumosi dentibus loricari-setaccis tubo fissili sequilongis, vexilli laminâ recurvâ exaunclatâ in unguem est longiorem attenuatâ. ovario albi-hnultissimo

Bab. in *Persia* Aucher N» 4S67, in colibus arida mantis *Elbnu* propè pagum *Dareke* Kotschy pi. Pers. bar. N« 664 sub *A. compacto*

Folia 40-19 lin., foliola lineam vel Heaquillineam longa, capitula magnitudinis nucis avellana omnino bombycina, calyx 3 lin. longua, capitula ea *A. Meyeri* referenda sed densis copiosiusque lanata, bractearum forma diTersa, foliola tripl6 ralnora (analiculato-plicata nee planf sslma etc. Affinis quoque -1 *gonyptno* Fisch. in pi. Kotsch. Kurd. caeterAm dWersissimo

ASTBAGALUS ABOTBOTHAHNOS Bolss (Sect *TragocanthcB*.)

K. suffruticosus densissimè erinaceo-dumosus, foliis argyris 4-foli Jugis in spinam flavidam tomentulis squilongam abeuntibus, foliolis approximatis parvis ovatis obtusis macronulalis nervo medio subUt prominulo, stipulis breviter triangularibus hirtulis foliorum floralium obtusiusculis aliorum acutis, floribus in axillis 3-4 capitulum parvum ovato-rotundum ad basin foliorum superiorum formantibus, bracteis stramineis ovatis calicato-concavis obtusissimis doreo tomentellis calycibus squantibus, calycis tomento niveo sub lente tenuiter oblecto densè vesliti brevis dentibus villo occultatis coalitisque tubo demum

fissili seqmlongis, corolla palhdè violaceâ calyce pitas duplb longlorl, vexilli laniinfst basi acutiussculè aunculata ungui subsquullonga, alls unguis basi cannae adoalis, otano albo-hirsuUssimo.

Dab. in regione mcdri *Anttlbam* inter *Zebdam* et *Zachle* Legi dor. Man One

Folia scsqquipollicem, foliola sesquilineam longa, capitula pauciflora avHlanse mugmtudute, calyx 2 1/2 lin., corolla 6 longa Planta foliolis minimis ovahs argenteis flonbus violaceis insignis propè *A Meyen* et *A. Creticum* collocaïda ab eis caelens nt'gicclis corollâ dongatâ ct formâ brace.u'um facile dignoscenda.

ASTBAOALUS CIENOPHILUS Boiss (Sent *Tragaeanthi*B.)

A caulibus lignosis glabns IUMUSCUIIS ramoslssiims, ramis nigrlicantibus horndis, pctiolls tenuissimls flavidis sub lente adressè et parcè hirlulis in spinam foliolis longiorem abeunlibus, foliolis 7-8 Jugis minimis angustfè clipticis acutrasculis ferfr acicularibus glabriuaculls \indibus, sLipulis triangularibus birtulis acutis glabrls, floribus ill axillis paucis spicas tenucs eloogalas subcylindricas secbs ramos formanlibus, braceis ovatis cymbiformiter phcatls obtusis margloe cihatulis extcrum glabris stramineis caljtis tubum xquaDlibas, calyels palule albo-btspidisissimi mmuUssimi ovato-globosi deotibus bmceolalis apice spinulosis tubo non flssill subbreuionbus, vexillo obloogO' linear! exaunculalo vcrsiis medium subangulato infernè dUatato, alia libens, legumlnè mmimo oblongo-cjHndnco inferaè glabrlusculo su-, peraè dense albo-tomentoso.

Bab. ad scatungioes montis *Gara* Kurdislanie Kotschy N» 381.

Folia ferè poll, longa, foliola 4 ||l-l ha. longa <« Hn.lata, cnlyx 1 |l lin. loogus, legumen ferè 2 hn longum lines 3/4 latum. Hab tu et calyce noa flssih afflois *A. hwclado* Boiss. el *brachyealyct* Fisch. ab utroque dlversus florum spicis angustè cylindricls nee ovato-globosis, legumine angostlori. *A. enanthus* Willd cui dubitanter nostiam plantain retulit Cl. Fischer quoque afOnis dlffert taraen calyce longltis alboplumoso ad baslo usquè deoiùm flssili, ejus legumiua ovata sunt longe lanala, flores capitati.

A. braohyealyx Fisch. in Kotsch. pi. Kurd. N" 363 quern *A. U%o-dadi* mei gynonymon *ease* pnuff credldi ab eo dlstlnctns videtur follis btionbiis murronnlatis calycis dentibus brevloribus

ASTRAGALUS NVMAUAMITHUS fioiss. (Sect. *Tragacantha*.)

A. ramosissimus, ramis erectis brevibus intricatissimis spinis iudumena longis tenuibus petalorum emortuorum et virescentium bordridis, foliis 8-9 jugis paret et adpressiusculè hirtulis pallidè virentibus apice in spinant tenuem flavidain foliolis nullò longiorem abeuntibus, foliolis minutissimis ovatis vel ellipticis id micronem brevem attenuatis plicatis fatis et ralis decedulis, stipulis ovato-linearibus apice glabris flavis basi densè lanatis, floribus in aillis superioribus 4-3 stipulis ferè occultatis capitulum ovatum minutissimum formantibus, bracteis oblongo-linearibus concavo - plicatis obtusis supernè densè lanatis calyce paulo brevioribus, calycis dense alba-lanali minutissimis dentibus linearibus villosa conjuncta occulta usque tubo demum filis paulo brevioribus, corollà calyce sesquialongior e sicco earned, \enlli laminà brevissimà ovatà exaunculatà basi strangulata, ungue vexillo longior sequilato, alis liberis, ovario adpresso hirsuto

Hab. ad Ialera meridionalia a Jpis *Kuh Daena* Pers. austr. Kotschy N° 650 sub *A. denudato*

Suffrutex Spedalls, folia 4 4; S pollicar. foliola 4-S Dn. louga angustissima, calyx 3 lin. longus. Hanc speciem olim adnumeravit *A. danudato* Stev. a quo differt foliolis multò tenuioribus aacularibus pluri-jugis, floribus ad axillas paucissimis vix capitatis dicendis.

A. denudatus Stev. mihi tantam forma minus cana videtur *A. pynopkyll* Stev. qui ipsissimus est *A. microcephalus* W. ex Armenia oriundus. Inter hunc *A. microcephalum* ex Armenià, Georgiâque Caucasica Igilur oriundum et *A. Cretum* Lain! Sieb' Willd! non DC. — *A. Sieulum* var. *Nitrodmssem* Guss. quem e Cretà, Taygeto, T>m(jliresto et montibus Sicilis vidi atque *A. echtum* DC in Libano' jugo Sinaitico crescentem, planamque regionem Granatensis sub eodem nomine in meo itinere Hispanico descripsi, discrimina nulla detegere potui et peEsuasum habeo eos omnes sub eadem specie militari.

A. Creticus Sibth. Fl. Gr. tab 737 e colibus Ioms oriunda ex icone est species non ab *A. Cretico* diversissima, corollis flavis rubello-striatis insignis

ASTRAGALUS MBSOLBIOS Boiss. et Uoben. in Kotsch. pi. Pers. bor. 4846. (Sect. *Tragacantha*.)

A. suffruticosus, caulibus lignosis ramosis, ramis procumbentibus

horndis plīb ntinūbvū tomeuLoso-cauis, foliis parce el brevissimè
t nspulo-tomcntffHis vindibus 3-6 jugis in spinam flavam foliolis bre-
\iorcm abeuniibus, foliolis parvis anguslè elliptico-Hnearibus com-
plrcatis In mucroncm attenuitjs, stipulis basi cano-tomentosis apice
jriabris fla\idis bre\issimè tmngulanlius aculls, flonbus in axilla *i-t*
spicas laxas tenuissimas breves fonnautibus, bracteis liean-cymbi-
lormlbuB brevibus bdsi glabris supernè tomentosis calycem subaequan-
tibus, calycis brevissimi lurbinati basi nudl superne albo-vriosissimi
dentibus viUo ummind occultatis coumvenUbUbque tubo dentum fissili
tluplo brevionbus, corolla calyceduplo longion, vextllo iuean-ob-
longo ioferne vix angustato, alis basi canns adnatis, ovano albo-hir-
sutissiuo

Hab. in monte *Totachal* prope *Tehran* Kotectay N« 569.

Planta nobis plunbus similis *A Caspio* qui differt fōuotta mulicis,
slipulis tenuionbns longionbus, calycc ad basin usquè tomeuloso.

AsIHAbALia TOUB^EFOKTII Boiss (Sett *TraQcantha*)

A. dumosus, caulibus erectis ramosis, ramls elongatis laxd foliosis
brevier tomentosis eanis, stipulis scariosis triangulan-lanceolatis acu-
mlnabs glabruscentibus, petiolis tenuibus flaveacentibus glabris apinā
foliolis loDgion terminatis, foliolis 5-6 jugis glabris elliptico-liaea-
ribus mucroulalis, flonbus sessiūbus in axillis sohtanis vel bins in
splcam laxam dispositis, bracteis otatis cymbiformiter pllcatis apice
Bffipè flssis, cal>te palulè albo-hlspidiAlmo mlrato subgloboso ad
basin usquè in lacinias vdlo occultatas in spinulam tenuem exsertam
abenntes UBSIII, corollā glabrā cal^ee dupli> longion, petalis omnibus
liberls subsquilonu, legumine mlmmo ovato dense et longlssiniè
albo-bispido

Tragaeantha Cappadoctca ereottor fobxs Vtoia glabm, ramta to-
mentosut Town herb ' Vlci in herb Mus. Paris

Uab m *CappadoaA* Toumef

Bami 5-6 poll, longi, pelioli S poll , fohola 4-5 lm. longal 1j4
lat. Affinis *A. Caspio* et *A Caucantco* a quibus folus glabris, calycibus
longè bispidis recedit, ab us el ab omnibus afflmbus insuper differt
ranns ut in *A Leucacantho* lafe folioaiR Flonbus ad *A. enanthvm*
W. accedit sed in hoc petioh tenuissimi \ix pollicares, fohola multō
minor.1, Bores capilati — Synonymon Toumefortu hie citatum In-
lausc A tl DC «1 *A. gvtniuiferum* Uli. el a Willdenowio atl snum

A. kucophyllwn Sp. p. 4331. relatum full Hlc *A. leucophylltu* ex autopsli herb. Willd. nbil est nisi *A. microcephalua* ejusdem aa&-toru vel *A. Cntieus* Lam. et Igitur species delenda.

Tragacantha pedunculatt

ASTBAGALUS LBUCACAKTHUS **Boiss.**

A, fruticosuB, caulibus erectis ramosis elongatis breviter tomentellis lailusculè fohatfs petiolls vetustis erectis longis horrldis, foliis 6 Jugis, petiolo rigido longo albido hirsuto in spmam foliohs longiorem abeunti, foliolis minutis partè et adpressmsculè birsatis gnseo-|rentibu6 obtusis breviter |ietiolulatis, stipulls a basi triangulari flavidà glabrâ nervulosâ angustè acumiDatls ciliatls, flonbus tn axillts superioribus 9-6 brevisslmè pedoncalatis patulis, pedlcellis baai et medium versfrs minute bracteolatis, calyds parce et patule hirautl flavidi tubulosi denUbus linearibus tubo qoadruplb brevioribua, corolla lutea calyce dupl6 lonpori, ve|illo oblongo-linearl recurvo alas superantl, canna valde recurvala alis squilongfl, leguminibos calyce flsso quadrupl6 longionbus oblongls laterauter compressis adpressisslme canescentibus in nracronem rectum pungentem attenuatls sutura superior! subcarinatâ rectâ inferlorl convexâ subsulcatâ.

Hab. in desertis *jEgypti* Olivier la herb. Mus. Par. sub nomine *A. Sieberi*, Montbret, Aucherabsque oumero.

Specimina qux vidi 1-1 4;S pcdalia, petioli S poll., foliola 4-11;| UD. longa, flores 5 lin. longi, legumen 6-7 lln. longum basi s latum rostra spiosformi J1 ;8 Uo. longo terminatum lawe. AfBnls *A. trigono* DC. cujus specimen authenticum Lppii in herb Mus Par. contuli, quem quoque in deserto Arabia? pcreae legi et qui dlffert ramis brevisslmis intrlcatis, petlollis bre^lbus, foliolis orblculatis subtòs Incanls, legnmine erecto *sn* coropresso subtngono sulurâ supenori concanluculo breviter mucronato. —*A. radtcatus* Decalsne tn Flor. Sinalca est *A. Siebm* DC. Ipsissimus sed planta Persisc ab amlciss. auctore hòc clata specific* dlfferre videtur.

ASTBAGALDS HACKosEiüDs Boiss ol Hohen. In pi Kolsch Pers. bor. 1816 (Sect. *Tragieanthm.*)

A suffruticosus liunults ramls densè intricalis cspspitosis horndia,

horridis plus minusque lomenlosu-cams, foliis parce et brevissime
in spicam flavam foliolis bre-
viter serratis, foliis parvis angustè elliptico-obovatis com-
plicatis in mucronem apicalem, stipulis basi caudato-tomentosis apice
dentatis brevissimè triangolaribus acutis, foliis in axilla *i-t*
spleas laxas tenuissimas breves formantibus, bracteis linearibus
obovatis brevibus basi glabris superne tomentosis calycem subaequan-
tibus, calycis brevissimi lobis basi nudi superne albo-villosissimi
dentibus villosis omnibus occulatis coarctatisque tubo demum sessili
duplo brevioribus, corolla calyce duplo longior, vexillo inaequali ob-
longo inferius vix angustato, alis basi caudatis adnatis, ovario albo-ber-
suto

Hab in monte *Totschal* prope *Tihtran* Koischy N^o 59.

Planis notis planibus similibus *A. Caspica* quae differt foliis serratis,
stipulis tenuioribus longioribus, calyce ad basin usque tomentoso.

*Asiaticus TOUBNEPOETII Boiss (Sect. *Tragacantha*)*

A. dumosus, caulibus erectis ramosis, ramis elongatis laevibus
breviter serratis, stipulis serratis angustis lanceolatis acu-
minatis glabris, petiolis tenuibus flavescens glabris spina
foliolis longioribus serratis, foliolis 5-6 Jugis glabris elliptico-obova-
tis mucronatis, foliis sessilibus in racemis, siliis vel binis
spicam laxam dispositis, bracteis ovatis cymbiformiter plicatis apice
saepè fissis, calyce lobis albo-bispidissimo minuto subgloboso ad
basin usque in lacinas mucronatas in spinulam tenuem insertam
aberrantes fissis, corolla glabra calyce duplo longior, petals omnibus
liberis subaequilongis, legumine minimo ovato dense et longissime
albispido

Tragacantha Cappadoica Tournefort *Flora Tuna glabra, ramis to-
mentosis* Tourn herb.¹ In herb Mus Paris

Uab. in *Cappadocia* Tournefort

Bami 6-6 poll longi, petioli* poll, foliola 4-5 l. longal 4;4
lat affinis *A. Catjina* et *A. Caucasea* a quibus folia glabra, calycibus
longè bispidis recedit, ab eis et ab omnibus affinis insuper differt
ramis ut in *A. Leucaeantha* laxè foliosis. Folibus ad *A. enanthum*
W. accedit sed in hoc petioli tenuissimi a pollicares, foliola multo
minora, llores capitati — Synonymon Tournefortii hic citatum in-
lausis i tl. DC AAA. *rummiferum* (a). et a Willdenowio ad sum

A. Uwsophyllum Sp. p. 43M. nlatum fult Hie *A. leucophylliu* ex autopstt herb. Willd. nblil est nisi *A. micmcephalu*\$ ejusdem asc-torls vel *A. Oretiau* Lam. et Igitur species delenda.

Tragacanthce pedtmcuiati

ASTRAGALUS LBVGACANTHUS BOISS.

A, fruticosufl, caulibus erectis ramosls elongatis breviler lomen-tellis laxlusculè foliatis petlolis vetustis erectis longis borndls, fonts 6 Jugis, petlolo rlgldo longo albldo hirsuto in spinam foliohs longio-rem abeuati, foholis minutis parcè et adpressiuscalè hirsutis gnseo-urentibus obtusis breviter |>etiolulatis, stipuln a basi triangulari fla-vidà glabrâ nervulosâ adgustè acumioatis ciliatls, flonbus In axillis wiperionbus 3-6 breviBslmè pedmncnlatls patulis, pedicellis basi et medium versus minutè bracteolatis, caJycls paroè et patulè hireuti fla-vidi tubulosi dentibus llinearibus tubo quadrupld brevlonbuB, corollâ luteâ calyce dupl6 longiori, vexillo oblongo-lmean recurvo alas supe-rantl, canoâ valdè recurvatâ alis aiqailongâ, legummibos calyce flsso quadrupld lougioribuB oblongls lateraliter compressis adpressissimè eanescentibus in mucronem rectum pungentem attenuatia suturâ su-perior! subcarlnatfl rectâ inferlori convexâ subsulcatâ.

Hab in deserlu *JBgypk* Ohner m berb. HUB Par. sub nomine *A. St*6ert*, Montbret, Auclerabsque numero.

Specimina quac vldi 4-1 *hfi* pedalla, petioli a poll., foliola M 1;t lin. longa, flores 5 lin. longi, legumen 6-1 lin. longum basi â latum rostra aplnaeforni *I iji* Un. IODgo terminatum lave Affinis *A. trigono* DC. cqjus specimen autbentfeum Lippii in berb Mus Par. contuh, quern quoque in deserto Arabic petres legi et qui differt ramis bre-vissimis intneatis, petiohs brevibus, follolis orbiculatis subtùs incanis, legunune erecto vn compresso subtrigono suturâ supenori concavuw-culo breviter mucronato.—*A. mdtcatus* Decaisne in Flor. Slaica est *A. Sieben* DC. ipsissimus sed plants Persia? ab amiciss. auctore hiic cltata Bpecificè differre vidctur.

ASTRAGALUS MACBOSBHIUS BOISS rt Hoben. in pi. Kolsch. Pers. bor. 4846. (Sect. *Tragdcantha*.)

*A. suffinilico*Hus Iramllis ramis densè intneatis ca«piosis hornd»,

MUB adpresse sericeis 6-6 jugis in spinulam laevem lenissimam foliis longiorem abeuntibus, foliis minimis ellipticis acutiusculis muticis versis folii apicem decrescentibus, stipulis tenerrimis triangularibus pellucidis albis lucidis pariter inferiorem ramorum later spiritibus vescentibus, floris 3-4 in racemos inter folia suprema subsessiles subcapitato-conferens dispositis brenter pedicellatis, bractea membranacea ovato-rotundis sessile lacens pedicellos subsquantibus, calyx pilis albis minusque adpressè birtis dentibus lanceolato-linearibus tubo quadruplo brevioribus, corollà albâ, vexillo recto linearibus acutiusculo carinatis in medio incurvato duplo longioribus, alis angustissimè linearibus cannam longe superantibus vexillo brevioribus, ovario adpressissimè albo-hirsuto.

Bab In Alpibus *Haaartschal* partis occidentalis *Elbrus* Kotschy No 497.

Folia 4-1 pollicem, foliola majora 2 lin. longa, calix 3 lin., corolla 9 lin. longa Species affinis *A. angustifolia* Lam. qui egregiè differt indumento multo magis adpresso, stipulis coriaceis, bractea lanceolata acuminate, vexillo alas alisque cannam paulo superantibus, etc.

Ex collatione speciminum multorum *A. angustifolia* Lam., *A. echnoides* L'Her. et *A. olynchus* Lam. ad eandem speciem valde variabilem pertinent. *A. angustifolia* ex Armenia est forma pedunculata foliis subquantibus, *A. echnoides* Cretici forma foliolis angustissimis, pedunculo brevi 4-3 floro quam quoque Schimperii In Cephalonia insula legit Innumera transiliva inter omnes occurrunt. *A. retusus* Willd. spec et bcrb I foliola non retusa sed tantum obtusiuscula bael et omnibus nominibus *A. angustifolia* vel synonymon quoque adnumeranda.

ASPERULUS HIRSISSIMUS BOISS

A suffruticosas humilis densissime cespitoso-cannaceus ramis foliolis vetustis siliis burndis, foliis 7-8jugis, petiollis erecto-patulis glabresculis albidis interstitiis basi supri complanatis vel subcanaliculatis apice in spinam duram vix pungentem foliolis brevioribus abeuntibus, foliolis adpressè hirtulis griseo-virescentibus parvis obtusatis ramplicatis obtusissimis vel retusis muticis versus petioli apicem dimittunt, stipulis albis brevibus breviter adnatis triangulari-lanceolatis aculis ciliatis, racemis & -i floris In axillis supremis paucis pedunculo foliis paulo brevioribus sessilibus, floribus breviter pedicellatis, bractea

lanceolate nigro-pilosis pedicello paulo longioribus, calyce tubuloso
 pills nigrescensque rarioribus parvis et adpressis obsitis dentibus nigri-
 cantibus breviter imbricatis tubo 4-5plo brevioribus, corollam carneam
 calyce duplo longiori, vello oblongo-lineam exauriculatoalavixsu-
 peranti, alis eam partim superantibus, leguminibus erectis calyce
 vix duplo longioribus glabris vel parcissimè et adpressè birtulis oblon-
 go-cylindricis acutiusculis mucrone brevissimo terminatis ad suluram
 superiorem elevatis subcannaUs ad inferiorem sulcatu, dissepimento
 oompleto.

Hab. in regione superior! raontisto&</ScA<wft(Hermon) Antiltbani
 necooD ID monte 6060/ *Baruck Libanx* inter *Rascheya* et *Dnr el*
KammariAM LegiJul 48iG.

Caspltesdrc. $\frac{1}{2}$ % pedem alti lati, petioli 1-1 4;2 pollic. basi lineam
 et amplius lati, foliola sesquilineam longa, calyx S 4;S Hn longus,
 legumen 4-5 lin. longum diametro lineam 4 4f4 lalum mucrone vli
 lineam longo terminatum. Species ab omnibus formis *A. angustifolia*
 distioca petiolis albis basi crassa complanato-canaliculatis, floribus et
 prsertim vexillo brevioribus, corollam carneam nec albo-flavidam etc.

A. gwnmtfer §. *hispidula* DC. herb.! est specimen absque floribus
 A AofMKEom met ab *A. two* ut et ab it. *gummifero* longe distantis

ASTHAGALOS INFESTUS Boiss. (Sect *Tragacantha*)

A caulibus fruticosis erectis simplicibus pumilis adpressisimè ca-
 nescenti-hirtis petiolis palulis rigidis borndis, foliis subjugis, pe-
 Uolo valde adpressissimè hirtis supernè in spinam flavidam longiss-
 simam abeunt, foliolis pams ovatis plicatis obtusis brevissimè mucro-
 nulatis adpressissimè canescentibus, stipulis teneris albo-pellucidis
 vix petiolo adnatis in unam brevem truncatam valde retusam bilobam
 c6ncreUs, floribus in axillis superioribus subsessilibus solitaris |e|
 biota approximate capitato-congescis, bractea minutissimis oMongis,
 calycis membranacei flavido-tomentelli dentibus setacibus tubo triplo
 brevioribus, corollam flavida glabra calyce vix duplo longior, vexillo al-
 carinaque parum longior, legumioe....

Hab. in *ngno Cabuitco* Griffith N« 1059 in herb. Hooker.

Caries semipedalea videntur, petioli pollic. aut paulo amplius longi,
 foliola drc. * U c, flores fh7 hn. longi. AlBni* quodam modo *A. ty-*
tioidi Bolss., in sectione stipulis concretis noiabilis

ASTRAGALUS RIMONIDS Bolss (Sect *Tragacantha*.)

A glabrusculus, caulis suffrutescens pumilis lenibus simplicibus flexuosis angulatis, petioli erectis lenibus rigidis 5-7 jugis in spicam tenuem acerosam foliolis multii longiorem abeuntibus, foliis ovatis obovatis complicate crassiusculis brevissimè mucronulatis, stipulis parvis membranaceis triangularibus acuminatis petiolo adnatis inter se libens, floribus 4-2 axillaribus brevissimè pedunculatis, bracteis e basi lanceolata tenuissimè setaceis rigidulis, calycis glabro chartacei flavidi dentibus e basi nervi subultra-acerosis rigidulis tubo dimidiatum brevibus, corollam glabrâ flavulam calyce parvis longiori, legumine coriaco laxo glabro ovato turgido calyci squilongo, sutura carinata impressa subsulcata, vexillum canoata marginata nervo crassiusculo apice in rostrum breve deorsum subcurvum abeuntibus, sepalo fere coramplato, loculis 5-6ovulatis

Hab. in regno Cabulico Griffith N° 4058 in herb. Hooker.

Gaulis semipedales, spinis sesquipedales, foliola 3 lin. circ. longa, (lores 8-9 lin., legumen 6 lin. longum in latum rostro lineam longo terminatum) Species insignis calyce aceroso et quam ex forma leguminis characterem magis artificialem petioli spinosi negligenter inter *Christinos* prope *A. Stefan* vel *A. Caragana* potius collocarem.

ASTRAGALUS LASIOMIS Doiss (Sect *Tragacantha*.)

A fruticosus caulis horridus ramosus, ramis brevibus intricatis brevissimè et parce lomentellis, petioli crassis longis virescentibus hirtulis 6-7jugis supra planiusculis basi elevato-nervis secus radios decurrentibus In spicis longis flavidas abeuntibus, foliolis pallide virentibus adpressiusculè hirtellis oblongis obtusis brevissimè mucronulatis, stipulia membranaceis hirsutis rigidulis e basi triangularisetaceo-acuminatis, floribus in axillam 2-3 breviter pedunculatis demum nutantibus, bracteis setaceis pedunculatoaequilongis, calycis membranaceo-flavidi birsuti dentibus e basi triangulari spinulosis rigidis tubo quadruplo brevibus, corollam flavam calyce vix sesquilingiori, vexillo extus dense et adpressiusculè birsuto alas versus basin lamina carinaeque margine inferiori birsutas partim superanti, legumine membranaceo-aubcoriaceo adpresso birtum oblongo-aubcompresso calyce incluso etaequilongo mucrone brevissimo subincurvo instructo.

Hab. in regno Cobulico Griffith N° 1049 in herb. Hooker.

Suffrutex ut videtur semipedalis vel longior caufibus rectis apice breviter dense ramosis, spinis petiolaribus ferè bipollicares, foliola 3 Ho. longa, flores 8 lin., legumen 6 lin longum 3 latum Species leguminibus pendulis inter affines notabilis.

ASTRAGALUS GIBBOSUS BOISS. (Sect. *Tragacantha*)

A. gibbosus, caulis brevibus procumbentibus ramosis ramisque densissimis spinis petiolaribus longis tenuibus horridis, foliis adpressissimè descendentes longis 7-8 Juncis in spinam tenuissimam foliolis longioribus, foliolis angustè ellipticis concaviscens obtusis mucronatis versus petioli apicem decrescentibus, stipulis minutissimis lanceolatis acutis vix petiolo adnatis, floribus ei axillis supremis *t-i* subsessilibus breviter pedunculatis, bracteis lineari-lanceolatis pedicello stipularibus, calycis membranacei flavidi adpressè biterdentibus e basi triangulari acuminata rigidis tubo triplici brevioribus, corolla flavè calyce duplò longiori, vexillo adpressè hirsuto alis carinatisque glabris paulò longiori, ovano adpressè hirsuto.

Hab. in regno *Cabulico* Griffith N° 4054 et 4055 in herb. Hooker.

Hab. in regno *Cabulico* Griffith in herb. Hooker N° 4054 et 4055 in herb. Hooker. Hunt pollicares, petioli 15 lty. ferè longi tenues, foliola 8-3 lra. longa, flores 8 lin. circ. longi Species a præcedenti petiolis tenuissimus floribus post anthesin non nutantibus distinctissimus

ASTRAGALUS GIBBOSUS BOISS. (Sect. *Tragacantha*)

A. gibbosus ramosissimus ramis brevibus strictis cespitosis, spinis petiolaribus longis tenuissimis foliis novella æquantibus, foliis adpressè canescentibus sericeis 6-7 Juncis in spinam brevem tenuissimam obtusis mucronatis ellipticis complatis obtusis mucronatis, stipulis minutis triangularibus hirsutis, pedunculis axillaribus tenuibus brevibus subsessilibus, bracteis oblongo-linearibus pedicellos subæquantibus, calycis membranacei flavescens adpressè hirsuti tubuloso-elongati dentibus setaceis tubo quintuplo brevioribus, corolla flavè calyce duplò longiori, vexillo return alis carinatisque apice rotundatis sennatis, ovano oblongo adpressè hirsuto semibilocari.

Hab. in regno *Cabulico* Griffith in herb. Hooker N° 4054 et 4060.

A. gibbosus densis 3 pollices alb., bracteis $t = \frac{1}{9}$ pollicares, foliola drc 4 $t = \frac{1}{9}$ lin. longa, calyx 7 lin., corolla 14-45 lin. longa. Affinis *A. Gra-*

hamtano Royle illustr. (ab 36 cul refero specimina N° 1062 coll. Griffithsiana, ab eo distinctur caespitibus humilibus, spinis ubi tenuioribus, etc

ASTRAGALUS VESTITUS Boiss et Heldr. Anat. exs. 4846. (Sect. *Tragacanthae*)

A caudiculis suffruticulis procumbentibus tomentosis saprophyticis caules breves erectos flavido-tomentosos late stipulatis edentibus, foliis tomento adpresso rufescentibus 5-7jugis, foliis sessilibus ovatis obtusiusculis muticis, petiolo vel in foliolum affinis simile vel in spinam tenuem brevissimam vix pungentem abeunt persistentibus, stipulis tenens albidis demum tomentellis pellucidis in uam magnam oppositifoliam amplei caulem petiolo adnatis oblique truncatam retusam coalitis, corollis congestis in spicam ovatam densissimam pedunculo crasso tomento foliis dimidio brevioribus auctam, bracteis amplexibus tomentellis ovatis concavis membranaceis mucronatis calycinum tubum xquantes, calycis lamina rufa adpressis densissime vestitis dentibus lanceolatis dimidio longioribus, corollam calyce tertia parte longior e sicco flavido-rufescenti, vexillum lamina ovata obtusissima supernè densissime rufo-tomentosa in unguem glaberrimum sensim attenuate, alis linearibus acutis canaliculatis oblongo-lineari acutis recta squamatis dense rufo-tomentosis veillis subrenoribus, ovario linearibus pilis rufis longis dense barbato, legumine ..

Hab. in saxosis regionis superius montis *Karadagh Imuria* alt. 4600 (Heldreich).

Caules 3-4 pedicels, petioli 4-5 poll., foliola 6-8 tin. longis sessilibus, pediculi 4-5 pollicares, capitula magnitudinis nucis, calyx 1 lin., corolla 40 lineas longa. Species floribus densissimè rufis tomentosis insignis, inter *Tragacanthas* ob stipulas latas coalitas oppositifollas anomala, si petiolos spinosos neglegas gregi *Lupinus Unorwn* adnumeranda.

ASTRAGALUS SCIDDEUS BOISS. et Bohen. in Kotschy, p. Pere. bor. 4646. (Sect. *Tragacanthae*.)

A suffruticosus caulis erectis elongatis supernè breviter foliiferis, foliis 6-7jugis in spinulam (enuissimam foliolis multo brevioribus) abnatis, foliis elliptico-lanceolatis acutis in mucronem attenuate

adpressissimè senceo-argyreis, sduhs teneris pelluddls trlangularl~ lanceolatis acutis, pedunculo solitario terminali crasso cano folia paulò superantl, spicâ cyllndncfi densâ latitudine sua 6-7 plò longiori serl- ceâ, bracteis glumaceis glabns cadudssimis lanceolatis acutis calycem equantibiis, calycis rubelli plhs longis adpresalusculis gnseis sencei denlibus setaceis tubo paul6 brevionbus, corollâ e sicco carneâ caly- cis denies quarto parte auperanti, teulio oblongo-linean alas ûneares acutiusculas non superanti, canoa alis paulb brevions laminâ brevl- aimft, ovario adpresslasim^ cano.

Hab. ID declivibus andis ad *Gattade* vallis *Talagon* montis *Elbrus* **Kotschy N° 520.**

Gaules 6-8 pollic , folia 3 *}t poll., foUola 7-8 lin. longa \ \}i lata. Spica 5 pollices longa, flores 7-8 hn. longi Aflinis *A. laguro* et *A. chrysostachyo* ab eis spicâ loDgissimâ 8-9 lin. tauUim diametro laA diversus.

ASTRAGALUS BocNOPBILus Boiss et Iloben. in Kotsch. pi. Pers. bor 4846. (*SecCTragacanlhcb.*)

A BUBacaulis csspitoauB, rhuomale suffrutescenti squamoso, fotiis patulis 6-Sjugis, petiolo subberbaceo in spinulam teDuislmam fohoJis breviorē abeunti, foliolis oblongis vel eUlpticis acutiusculis brevlssi- mē mucronatis, stlpulis lanceolatis acuilis, capitulo denso ovato, pedun- culo tomenllo fohis ffiquilongo, bracteis ovatis oblongisve rubellis clllatulis caEtnlm glabns breussimē acuminalis calycloo tubo brevio- ribus, calycis supernē praesertlm pihs patulia sericeo-griseis hispidi dentibus a basi lanceolate setaceis tubo diuudi6 brevionbus, corolla sulphured calyce vix longlorl, vexillo oblongo-lmean stricto alas oUoDgo-lineares vix auperanti, canse laminâ longiusculi parūm curvald alis pau!6 brevion, o\ano cano

Hah, m collibus arglUosis loco *Syach Nalas* dicto ad radices monlis *Demawend* propè *Lor* Kolschy N° 343.

Folia sesquipolllcaria, foliola 3-4 lin. longa 4 4;XIataf pedunculi ir% 4S pollic.† capitula magnitudine nucis, flores 8 Uneas longi. Ab. *A. Perstoo* differt caule subnullo, petiolis tenuibus non ngidis, foliolis brevissimē mucronatis Dabitu magis accedit ad *A. ebenotdem* foliolis minutissimismuticis calyce demtm inQato diversum.

MT. tantoiepu Boiss el Qolien m pi. Kolschy l'ers bor , est Unttm forma *A. Persm* F. el m

ASTRAGALUS IODOTMPS BOISS. et Hobeu. in Kotschy. pi. Pen, bor, 1846. (Sect. *Tragaoantha*)

A. suffrutescens caulibus ramosis inferne petiolis vetustis tenuibus horridis, foliis 9-40jugis erecto-patulis in spinam tenuem foliolis supremis paulo longiorem abeuntibus, foliolis eleganter argyris nentibus minus approximatis ovatis obtusiusculis muticis versus folii apicem valde diminutis, stipulis albis pellucidis tenens margine dila- tatis late triangularibus obtusiusculis, racemis 3-4 floris paucis in axillis supremis breviter pedunculatis, bracteis oblongis acutis caducis pe- dicellos aequantibus, calycis tubulosi pilis albis nigrisque breviter to- mentelli dentibus imbricatis lanceolatis nigricantibus tubo dimidio paulo longioribus, corollae calyce subduplo longior, vello rubenti oblongo- lineari alis linearibus longior, canna oblongissima apice violacea.

Hab. in parte occidentali montis *Elbrus* ad pagum *Asadbar*. alt. 8006 Kotschy N^o 471

Suffrutex ut videtur semipedalis, petioli 4-1 4/5 pollic., foliola majora 9 lin. longa, (lores 8 lin. longi). Afferens *A. munno* ab eo differt petiolis multo minus crassis rigidisque, pedunculis brevissimis, den- tibus calycis longioribus, etc

ASTRAGALUS SUBMITIS BUHS et Hobeu. in Kotschy pl. Pers. bor 1846. (Sect. *Tragaoantha*.)

A. suffrutescens caule brevissimo, foliis longissimis 90-15 jugis in spinulam brevissimam vix perspicuam abeuntibus, foliolis multinerviis al- ternis adpressè birtis palidè virentibus obovatis obtusissimis muticis vel nervo excurrente brevissimè mucronulatis versus apicem folii valde dimi- nutis, stipulis rigidis lanceolatis acutis, pedunculo longissimo folia superant adpressè hirsuta, spica brevissimè oblongo-cylindrica, bracteis parvis ovatis acuminatis pilis nigris denticulatis, calycis tubulosi pilis albis nigrisque adpressiusculis tomentelli dentibus breviter trian- gularibus tubo multoties brevioribus, calyce fructifero inflato globoso glabrescenti reticulato-nervuloso albido, corolla calyce duplo longior et sicco rubella, vexillo subretuso alas oblongas superantem, carinam apice obtusissimè violaceam alis breviori, ovario oblongo-lineariter virescenti adpressè birtato.

Hab. in monte *Elbrus* supra pagum *Passgata* Kotschy N^o 490

Foliol. 7-0 pollic. Innga, foliola majora 1-1/2 lin. longa 1/2 pollic. ut, po-

duDculi pedales, spica fructifera 3-4 poll, longa, (lores 9 IID. long!
Pukherrima species petiolo vlx spinoso transitum ad *A. hatieaeabo**
prabens, afltais *A. remott/Zoro* qui differt pettohs rigidioribus bre-
vionbas, calyds dentibus setacels, calyce fructifero purpureo-vlittato
A. Lamasaentu DC. nitail eat nisi status flonfer *A. coluteotdts*
W. etc., ad quem ut synonymon conjungendus est.

ASTRAGALUS TUHIDOS W. — *A. Bautoolfii* Vabl.

Species composita cujus nomen sectiunculse habitu et cbaracteribus
propriis donats et species sequentes comprehendenti servandum est

ASTRAGALUS CLUSII Boiss. (Sect. *Tragaeantha*.)

A. fruticosus adpressiusculè senceo-canescens rands erectis spinls
vetustis erecto-patulis borridis, foliis gemmanim ailUariam ramo-
rumque junlorum squilongis simihbusqae subse^jugis In sploam te-
nuom foliolis brenoremabeuntibas, foholls oboratfs elllpUdsve ob-
Uisis basi attenuatis mucronulatis, slipuhs tomeotosls triangidanhus
acatis, racemls 8-3 flons axillanbus laxis foliis multò brevtoribus,
bracteoUs bias llinearibus ad apcem pedicelli brevissiml sitls eo tri-
p!6 loagloribus, calyce adpressè albo-blrsuto florifero oblongo-cylto-
drlico dentibus setacels tnbo tripl6 brevlonbus fructifero Inflate ovato
reticulato-venoso, legumtne adpressè birto oblongo uaUocularL stiptte
ei subsquilongo suffulto apice mucrone teuui eo vlx brevlori superato.

Poterm forth Clns. Hisp H. p 216* — *Astragalus fntttcosut*
Asso. Oryct. Arrag. tab. a fig. i

Hab. in regioe monLanà Hispanis inferioris in regno Granateosi
(Qus.). Arragonensi (ASBO) Gastellâ novâ (Rodriguez). Sierra Mo-
rena(Prolongol).

A. Potenum Wild. herb, oil planta Clusll relata full nblil est
nisi *A. Masstiensts* Lam. *A. potenum*. Pall. Astr. tab. I est planU
e Taurilâ ex alflnitate *A. ^tcult* mihi ignota.

ABTBAGALDB FOKSBAHLEI BOIBS. (Sect. *Tragaeantha*.)

A. fruticosus adpressè tomentellus gnseus, ramis erectis uplnw
erecto-patulls valdè horndis, folns gemmarmm axiUarium spinâ mult6
brevioribus conferUm foliolatis in spinam mtnttUssimam abeunlibus
deutm dcciduis, ramorum annollnorum persistentibus elongatis in

spuam duram abeunlibus remoliusculè foUoJatis omnibus 5-QJugia, fo-
liolis obovatis obtasis vel relusis, stipuhs tomeatosls trfamguUrbus
miDDtissimis, flonbus e gemmls ad axillas spraarum sitis orluadis BO-
htanis vcl blnis peliolo calyci squilongo vei breviori suffultis basi 9
bradeolis ovalis minimls stipatis, calyce breviler tomfntoBO-caDes-
centi tubuloso denlibus Linearibus lubo quadruplb brevioribua, fruell-
fero ovato inflate albo-membranacco non reticulato, legumine unilo-
culan adressè birsnto oblongo acuto submtrico sbpate eo brevlor]
suffullo.

Volutea sptnosa Forsk.

Hub. in deserbs |rabur pctrea (Forsk. Schiiuper! Boissl)

A. specie precedent] diversissimus folus dimorphiB, pednnculis-
-l floris, bracleu brevissimis, legumine mutico

A *armatus* Vfm — *Anthyllis tragaeanthoides* Desf. AU. tab 494
sistit quoque speciem propriam inter affines foliolis linearibus 8jugi&
etc, disliDctam

ASTBAGALUS RUSSELLI Russell Aleppo tab Id I (Sect. *Trago-*
cantkce.)

A fruticosus ramis spmis loogis borndis, foliis gcoimarum aiUla-
num contracUs brevissimia apice spinulosis spioà aullari muUotles
brevioribus, ramorum aanotiuoram elongatu persistenUbus, foliolla
miouUs vlnidibus glabris rel apice parassimè birlulis mucroDolalfs
ovato-ellipbcis, flonbus in foliorum gcmms sohlanis >el blnls bre-
vissimè pedicellatis bracteâ mitumâ ovato-rotundâ cucullatâ basi suf-
fultls, calyce flonfero cylindnco parassimè et breviter blrsuto de-
mbm glabresceDti rubeilo deDtibns mlnunis tnangulanbiu tomentelHa
tubo multoties brevionbus, calyoe fructifero glabro mflato reticulato
uervoao, legumine jumon cano angustè oblongo stipitl SBquiloagp.

Uab. ad *Aleppum* (Russell), ad pagum *Gorluk* propè Eupbratem
Cbesney N« 3S, inter *Aleppum* et *Mo»sul* Olivier io DC. herb.

Fobola eis specierum praecedentiam muora, ab eis pnetereà differt
calycis deatibas brevissimis, foliis glabrescentibus, calyce fnictifera
nitido glabro.

ASTRAGALUS DRUGUIERI Boiss. (Sect *Tragacantha.*)

A. suffrutescens, caolibus brevibus teretil»us procumbenbbus ramo-

sis, ramula abbreviate totâ longiludine laxè foliosis breviter et dense
nervulâ, stipulis scanosis teneris glabris ovatis acutis, folia remote
2-3 Jugis, petiolo valido rigido glabro-caescenti in mucronem vali-
dum foliolis longiorem abentibus, foliola carnosulis glabris glauco-
cassidatis cuneato-subrotundis obtusis vel reflexis obsolete mucronatis,
floribus solitariis ad axillas inferiores ramorum breviter pedunculatis,
calyce fructifero glaberrimo pellucido nitido reticulato-nervoso den-
tibus triangulano-lanceolatis adpressè breviter connatis, legumine...

Hab. inter *Bagdad* et *Kormanchah* Olivier in herb. Mus. Par.

Rami et caule breviter semipedales, petioli *irrigati* pollicis, foliola
diametro 4-5 lin. lata. Species foliolis magnis orbiculatis carnosis
distictis inter affines distinctissima

ASTHAGALCS SCOBIPIDS BOISS (Sect. *Tragacantha*)

A fruticosus ramis breviter canis horridis, (bills gemmarum axil-
larium ad foliola 6-8 minima adpressè hirsuta elliptico-linearibus obtusa-
tissima mucronata subsessilibus fasciculata reductis, foliis secus ramos anno-
tinos nascentibus remotè 5-6 jugis, petiolo rigido persistente! spine-
formi elongato albo, foliola citè deciduis, stipulis tenerè membraceis
triangularibus vix perapicibus, floribus et foliorum gemmis solitariis
breviter subsessilibus basi bracteolis oblongis minimis stipulatis, calyce
adpressissimo senceo-canescenti florifero tubuloso dentibus minimis
triangularibus tubo mucronibus brevioribus, fructifero inflato ovato, le-
gumine...

Hab. in provinciâ *Larutan* Persia: australis Aucher N° 4398.

Spine petiolares ferè bipollicares, foliola gemmarum sesquialteam
longa complicata augustissima, flores 7-8 lin. longi. Affinis dentibus
calycis brevibus *A. Russelii* eo differt foliolis fasciculatis subsessilibus
sericibus mutis, floribus subsessilibus, spinis albis

ASTAGAIRA ANISACANTHUS Boiss. (Sect. *Tragocontium*.)

A. fruticosus, ramis horridis adpressè tomentosis, foliis gemma-
rum axillarium brevissimis bijugis, petiolo tenui in spinulam brevem
abenti. foliola obovatis mucronatis adpressè caescentibus, foliis ad
ramos annotinos nascentibus elongatis rigidis erecto-patentibus 3-4 Jugis,
petiolo supernè planiusculo sulcato, pedunculis et gemmis oriundis so-
litariis breviter 4-5 floribus, bracteolis ad calycis basin oblongis minimis

lissituif, calyce fructifero inflalo breviter blrto valdè reuculato-nmoso dentibus setaceis brevibus, legumne cano oblongo breviter mocronato vix slipitato.

Hab In *regno Cabylwo* Griffith N« 4046 in herb. Hooker.

Spins bipollicares, calyces fructifen piso duplb majores Species a praecedentibus calycibus fructifens minoribus, legumine vlx sUpitato dlstlncta.

ASTRAGALUS IUBATUS Boiss. (Sect. *Tragacantha*)

A. fruUcosns, ramls breviter canescentibus borndis, petiolis foliorum super ramos annotinos nascenttum longis acerosla erecto-patulis remotiusculè 5jugis, foholis., fobis gemmarum axUlanum qnadrnplb brevionbus foliolls approximatis 5jugis caoescentibos elllpticfs mucroQulatis, petiolo tenul m apinam mlDimam abeunti, stipulis vix perspicais, flonbus minutis in axillis 3-4 pedunculo vix perspicuo suffultis, bracteis oblongo-hnearibus pedicello sablongioribus, calyds densè et breviter tomentosi grisei florlferl cyUndnci curvatt dentibus Unearl-setaceis tubo multoties brevionbus..

Hab. in *regno Cabulico* Griffith N° 4047 ID herb. Hooker.

Spins sesqmpolhcares, foliola 3 *ifl* lin. longahneam lata, flos 5 Hn. lingua. Ab omnibus pracedentibus sectiuoculs *Inflatorum* calyce ferè dimull6 brevion subcUrvato dlstlnctus

COBONIUA LIBANOTICA Boiss. (Sect. *EucoTontlltB.*)

G. perennis glabnuscula, rbuomate crassiusculo llgnoso, caudlcuhs inbicatts aliu in aurenlos parcè foilosoa alhs In canles angolato-strift' tos flexuosos abeunlibus, follis sub 9 jugis, foliolis sesslllbus minutis ovato-obcordatis, stipulis minutasslmls scariosis ovato-triangularibus llberis, pedunculis dlvaricatis folio axillari mnltoaes lotigioribus umbellas 5-40 floras ferenbbua, pedicellis calyce vix longforibus, calyds albidu scabriusculi brevssiml dentibus mlnutissimls, corollâ carneâ, **vexillo alls oblongo-spathulatls vix longiori, carinâ alas subsoperanl! valdè incurvâ attenuate acutâ apice atro-purpureâ, legomlQe longissimo inter articuloB elongatos angnstlasimos angnlatos angustato.**

Hab. In *Lxbano* circâ *Eden* ubi earn leg! Julio 4846.

Species *C varus* proximè accedens, ab est e spedmlnibm qua vldi sal diveraa videtar follis 5 nee 42jugis, foliolls mnlth mlnoribus ob-

cordatis nee ellipticis mucronulalis, pedunculis 3-4 et fructiferis 6-1 pollicibus longis nee folia vix superantibus, ambellis 5-10 nee solo florta, pedicellis calycem squantibus ne¹ ro triplicibus longioribus, floribus paulo minoribus, cantho magis incurva, calycis dentibus multo minoribus.

ONOBRYCHIU EXPANSA Bolss et Heldr in pi. Anat. exs. 4846. (Sect. *Hymenobryohu*)

0. perennis, caulibus crassis striatis humiliter expansis ascendentibusque breviter tomentellis pilisque longioribus deflexis sparsis birtulis, foliis sub 4 Jugis, foliolis oblongo-lanceolatis acutiusculis subtus adpressè birtulis supra glaberrimis, stipulis triangulano-lanceolatis acutis, petiolis birsutis, pedunculis stantibus axillaribus folia multo superantibus ferè a basi laxè racemosè, calycis deorsum tomentosi birsutisque dentibus a basi triangulano-lanceolato-subulatis tubo duplo longioribus, corolla carnea vel flavida vividè rubro-striata calyce plus duplo longiori¹, vexillo adpressè hirta cantho margine superioris rebus inferiori angulo recto incurvis squilongo, alis oblongo-rhombis valde striatis calyce brevioribus, legumine falcato-orbiculari glaberrimo nitido dorso areolato areolis centralibus ob nervos valde elevates aculeatoa scrobiculatis crassis late radiato-nervosa margine denticulata circumdata.

Bab. in aridibus propè urbem *Kontah* Libanoniae (Heldreich)

Planta 4 4/8-8 pedalis, foliola pollinosa vel sesquipollinosa loop IWS. hinc lata, flores circ. 8. lin. longi, legumen diametro 7-9 lin. latum aculeis 4-6 triangularibus validis circi foveolam centram obrutum, denticuli crassis marginalis liaes 4;3 longi. Pulchra species propè *On. Patient* et affines collocanda sed ob fructum glaberrimum nitidum prorsus affinis 0. *nitida* Boiss. quae differt glabritie totius plantae, corollam non striatam, legumine paulo minoris centra obtusè aculeate margine crenulato nee dentato etc.

ONOBRYCHIS AVBAHTIACA Bolss. (Sect. *Hymenobryohu*.)

0. perennis caulibus ascendentibus crassis striatis inferè *bnk* densa longa patula barbata supernè glabris vel pilis tantis bispiculis, foliis infimis 4-5 Jugia superioribus 4-8 Jugis foliolis magnis ovatis vel ovalo-oblongis obtusis mucronatis. Istè viridibus fere

OiontrCHK ABbYhBA Boiss (Sect. *Eubryehis*.)

O. perennis tola adpressissime sericeo-argyrea, radice orassa 11-
gDOsâ caules teretes substratos pumilos edenti, foliis radicalibus cau-
lloisqie paucU brevtbus 3-4jugis, foliohs ovato-orbicularis obtusis
raicroDulatis ulnnqûe serlcels nilentibus, stlpulis ltnearl-selaceis sen-
cels, racemis brevibus latlusculis pedunculo folium æquaDli vel supe-
ranti suffullis, cälycis aericei denllbus e basi tnangulari actaceis tnbo
sublongioribus, corolli e sicco estrlatft rose&caljce quadrupl6 lon-
gion, vexlllo adpresad liltrto cannam margine supenon rectam Infe-
rlorl rotundato-Incurvam apice brevissimi altenualam æquaoti, alls U-
aearibus apice attenuatis calyce duplb longioribus, legumme stipitato
&lcato-subsemilunan cõmpresso raargine exlerion convexo bemisphae-
rico lofenori breMON convexiusculo loto broiler tomeptello pilisque
loagloribus birsuto, ad discum areolato parci et breviter aculeato ad
marglnem setis aculeiformibus diametrum suum dimldtim xquantibus
radiatim dncto.

Hab. ID *CappadoctA ad Euphratem* Aucher N° 1053.

Pulcra species indumento sericeo foliolisque rotuodis ab *O. lunatd*
heltocarpA el *ornatA* Willd. diversa. Pro ultimfi plantâ eam habueram
doec comparaverim spec, authenticum *O. ornata* berb. Willd in quo
fottola cuspidata sunt utrlnqûè pills adpressis vix grisea, floras di-
mld)6 majores, canles longiores parcè et patulè birsuti, fructûs lon-
gltis birauU obsoletè foveolati.

OMOBHYCIIB PISIDICA Boiss (Sect *Eubryehis*)

O. perennis multlcaulls caullbus elatls crassls terctibus strlalis
pills erecto-patulis canesceDtibus vlllosissimls, fohis 40-iajugls,
foliolls ellipllco-Jineanbus acutlnsculls suprâ adpressè hirtis vlrescen-
tlbus subttis densè eanescenti-senceis, stlpulis mepbranaceis adpressè
UrsuUs in unam opposfbfoliam bidentatam breviter connatis denllbus
longè triangiilarl-subnlatls, pedanculis longls folia muH6 superanti-
bos, splds longls cyllndricis lailuscuhs, calycis hlspldl denllbus a
bast treviter triangular! setaceis plumosls tubo quadrupld longioribus
corollâ roseâvlxbrevlortbiu, vexlllo carlnaque striatts subaequilongls,
allstubo calycno duplb longioribus llneari-oblongis breviter sUpltatis,
legumne calycis demibaâ superato semlorblculato complanato latrc
interiori recto exterior convexo loto birauto ad discum foveoiato mu-

tico \cl aculeis \-l brevibus ob&ito, foveolâ centrali oblongâ aiilsduplb majon, cnrtft disco angustion breviler 4B denticolatâ.

Uab. ID campis arenosis plamlei *hbarta* in PiBidiâ (Heldreich.)

Radix verticalis longa, caules 3-3pedales, foliola 8-9 lin. longa 1 t/i-8 lata, spice 3-3 pollicares, flores arc b lin. longi, legumen 3 lin. loagum latumque. Propè 0 *laswstachyam* collocanda ab est et lolo grege On *saUva* dislincla caulibus crassis viUosisslmia, foliib subtus senceis

Planta e monte *Ghetdagh* Tauri Isaurici sub 0. *montand* TOT. in Jleldr pi. Anat. distnbuta est forma vlrescens 0 *Cadmea* ab omnibus 0. *montanie* forails facilo disbnguendae dentibus tubo calycis triplò brevioribus aculeisque crlstaj legumlaisjongis basi lale tnan-gulanbus nee bre\ibus subulatis On. *saliva* var. *acardtca* Grisfb. Spic. ex proportionc denlimn calycis ad 0 *montanom* rectè spectare \idetur

UMBBYGUW G/EnhKBiANA Boiss (Sect *Eudrychis*.)

0. annua, caulibus prostratis parcè et patulè hispidulis, foliis 8-9 jugis, foliolis parvis oblongo-cuneatis truncatis vel obcordatis suprâ glabns subtas junioribus prasertim adpressè canescenibus, stlpulis ovatis membranaccis hirtulis m unam oppositifoliam apice bifidam coalltiB, peducuis billons folio axillan subbrevloribns, calycis adpressiusculè hireuti denlibus lanceolalis apice longè Bubnlalis tubo 4-5 plb longioribus, corollâ roseâ calychnos dentes pauló superanll, vexillo emargtnalo cannam pauluOm superanti, alls oblongis carinam aequantibus, legumine dentibus calydnis longion semiorbiculato ad latus mtenus recto ad exterius convexo, disco areolato scrobiculato 'adpressisslmè et sparslm birtulo parcè aculeate, cristâ planissimâ legumini subssquilatâ ad basin usque In tres lacimas oblongas obtusas utroque margine 3-4denliculatas sinubus latls sejunctas divisâ.

Hab. in Palaestmâ circi *Hterosolytm* el *Nazareth* obi legi vere 4846

On. *cnslagallx* Gsrto. % tab 448-DG. Prodr. etherb.t non L.

Corolla 4-5 lin longa, legnmen cum crislâ 6-7 lin. longum, crisis lobi tres lneas Jongi basi scsquillneam lati. Hæc species ab auctoribus cilatls alusque confusa fuit cum 0. *enstaggi* L. Fl. Graecâ tab. 714 \<râ quac in GneciA crcscil et quam in Palxslinâ quoque legi, luec ~~distnguntur~~ tt)hohs dimidid angustionbus l'mearihiiR rciusis, flonbu^

dimidio mDonbus pallidè camels 3 Un. longis, corollâ dentibus calyctis subbreuion, pelalis omnibus aeqmlongls, legumlhls patulè bireuti disco crebrè aculeate cnslâ duphci Iriplicive in laclnlas lanceolatas acutisslnias dentatas diametro disci longiores flssâ Pbrasis Llnnsel bane laci-Diarum formam optima exñibet. *On** *Gattturiana* varietas subsequens adjungenda.

p. brachylopha.— Flores paulò minores Legurainis ensta diametro dlsddl mldi6 brevior.

Hab. in aridis Penis australis propè *Gere* inter *Abusohir* et *Sehiraz* Kotschy N° 60 aub. *On. agwdentata*.

Eam priùs erroneè babul pro 0 (*Bqutdentata* Urv quæ ladolis crlBte triangulanbus integerrimis ab otrâque differt et qua eadem est ac 0. *Crettca* Desv. Journ. Bot. 3. p. 53 (in Prodr. Gand. per lapsum calami *enttala* dicta)

SARTOaiA Boiss et Heldr.

Calyx brevis obconicus dentibus Ssetacels tubo sublongionbns. Corolla calyce multò longior. Vexillum rctusum infernè attenuatom. Carina oblriangulans elongata marglne superior recta inferior! angulo recto mcurva breviter stipltata. lobo brevl ad stipltts orlginem Instructa. Ala breviter stipitatae linean-oblongae obtuslssimae lobo ad apicem stipitls auctae libers dimidiâ carinâ paulò longiores Stamina diadelphba slylusque abruptè infracti. Leguraen planlssimum oblongo-haeare papjraceum breviter atenuato-siipitatum indehlscens non arbulatum disperraura untloculare ad suturas non incrassatum nervulis transvenia anastomosantibus tenniter reticulatum. — Suffruticulus alpinus Anatollcus facie *Hedysan*. — Genus dicatum d. D. Sartori de florft classlcl Grsecse optime roerito qui plures bujus pulcbrae regionis partes peragravit et plantas multas Linkio, Zuccarlno plnibusque allis communcavit. Inter *Onobrychtdem* et *Hedytanm* exactè Intermedium ab eis cbaractere carpologico tantùm discedens Id eat legumlne nee ut in priori monospermo subrolundo vel orbiculariter falcato facie plbs minis scrobiculato suturA auperlori inenssato nee ut in *Bedysaro* articulate slnuato-strangulato. *Evertmannia* eodem fructus cbaractere gaudel sed differt fade diversislmâ legumineque apodo fleiuo&co tandem sutnria peraistentibus vel valvatlm vel in articulos transvereos inegulanler secedentl.

SABTOBU ~~mu~~~~Sd~~~~Loio~~~~Ks~~ **Buiss el Heldr. in pi. Anal, exb. 1846.**

S. pereanls tola setulis adprcssisaunis canesceus grlseo-virens,

rbizomate hgnoso cacspitoso, caulibus bre\isslmis rectu angulato-sulcabs, pedunculis 4-2 e\ axillis supremis folns et caule ipso longionbus, folus radicaibus caulimsque bijugis foholis orbicolatia ova-Usve obtusissimis crassiusculis suprâ coDcaviusculis pallidioribus, stipulis membranaceis nifscenibus in unam oppoBilifollaro triangularem apice bldentatam coahitis, racemis ovato-oblongis **49-46 florte** termioalibus, pedicellis calyce subbrevionbusbracteoIA setaceâ Buffultia, calyds adpressê bird dentibus a basi brevltter Inangularl anguste se-iaice» Inreriori demûm paliilo-sabrecurvo, corollâ roseâ estnata calyco tnplô longion, legumine adprcsslssimê ct parcê setuloso latitudne-snâ iriplô longion apice rotundato mucronulato.

Ilab. in pascuts SICCS monllurn ad oneotem jugi *Ghmdagh* sitorum, in *Tauro Tsaunco* alt circ. 5000' (lledreich).

Caulis cum peduculo et racemo 3-6 pollic, fblola majora 3-4 Un. longa, Dos 5 Un. loDgus, legamen cum stipite linear! calycem ezcedenti to lin. loDgum 3 latum.

HEDYSABIUH KOTSCHT BOISS (Sect *Echxnolobium.*)

H. tolum pills adpresslsslmis caescens, caullbw etatis **fitrllalle** Hetuosis jam e parte mediâ pcduculos axlllars subdlvancaios folio dupiô longiores edentibus, folils remotiusculê 8-7 jugla, foliolls ellip-Llcis obtusis pedicellatls utrinquê adpressê birlls, stlpulls **membrana*** ceis setacets mlnimw fnflmis inter se basi membran& semicircular L con-natls, racemis oblongis denais tandem elongatis laxls, pedlcellls caljci aequiloDgla basi bracteolâ caducâ obslus, calycis adpressê canesuentls deoiibus e basi inangulan setaceis tubo vn longtoribus, corollâ luteâ calyce quadruplb longlori, vexillo giaberrlmo carinâ angulo obtuso In-fractS qriintâ parte brevion, alis angustê linearibus caljce subtriplô loDgioribus vxillo brevionbus, legumine blarbcutato vel saiplts artl-eull altenus abortlone unlarilculato artlculo compresso oblongo. sub-obhquobast attenuate acutiusculo areolato rugoao tomento albodenso brevi cano setisque longis flavidis blrtis obsito

Hab in *ktsynA* circâ DwrMWr Kotachy N° 160.

Caulis 4 \fi-l ppdalift, foHola majoru 7-8 lin, longa 3-3 \jl·**Jin. hta.**

llores drc. 6 Hn. longi. Articuli leguminis 6-8 lin. longi. A (fide *H pogonocarpo* et *Awken* quorum prius tamento tomentello, flonibus mlooiibus, carinâ angulo acuto Incurvâ, alis calyce non longioribus, posterius vexillo hirto allaque carine aequilongis differunt

HEDTBABUH ATOMABIUK Botas. (Sect. *Eehtnolobtum*)

H. caulibus ascendentibus rubellis teretibus sub lente pills spank adpressissimis nirtulis In dnmos aroplos Rgregatis, folds B-fljugis, follolis amplis ovatis vel ohlongis obtusissimis vel retusis snprâ glabriasculis sub lenle crebrè et mlnutissimè punctulatis subtblg aparism etadpressissimè setalosis lætè virentibus, stipulis fuscis in unara triaogularem longè bideDta&m oppositifollam coalitis, peduculis ex axilUs Buperioribus paucis (bills xquilonis, racemls densis ovatis dein obloogls, pedicellis calyce dimidlo brevioribus bracteolatis, calycis adprase hlrli dentibus lanceolato-subulatis tubo sesquolongioribus, corolla rosea calyce triplb longiorl, veilllo glabro carinam angulo redo rotaodato subTqs incurvam vix saperanti, alia angusteHnearibus sub-Incurvfl carina paulft brerloribus, legnmlnc triarticulato breviter bjrto, articullB pbnls ovato-rotnDdis disco tenulter reticulato-venosis sape parce tuberculato-ecbnulatis margine ob nervos prominentiores rugulosfs.

Hab. In decIMbus siccis plantiei elevatse ad meridiem et orientem *Antioohia* inter bane urbem *elDarkusch* sits, leg! Jan. 1846.

Caulis 4-9 pedales, foliola 9-14 lin. longa 5-6 lata, floras 6-9 lin. longi, legamen deflexum salurft superior! crassiori rectiusculum Infe-rfori Inter articulos sinuatum 40-42 lin. longum 3 latum. Ab afflinibns tt. *Lydio* et *ealliohroo* differt foliolls dupl6 majoribus obtusissimis glabrescentibus, spiels densioribus. Forean tamen Illas species Inter He nhnl affines esse forms novae Intermedia? detectae demonstrabunt.

HBDTBA&UM Domroainf *BotoA* et Heldr. (Sect. *Ethwolobiuu*)

B. pills albis adpressissimis canescens, cwillbus vlralls angulato-striatis ascendentibus, foliis 7-8 jugls, follolls utrlnqrè parçe et adprassissimè hints pallldè vfrenttdua subsesflibus ellptics acutls crassiusculis, sUpulte rafeftcentibus In mmam oppositifollam longhueultè bWenUtam brevem coantls, pednnculu 1-3 ex aiUlls superlorOnis folio lonajiorlbui, neemls oblongls lavhucnlls, floribus pedloello calyce

sublonglon suffultis, calycis adpressè hirtl dentibus tngulan-seta-
ceis tubo subsequllongis, corollâ calyce qulntuplu longiori, vexillo
purpurco retuso cannam subtâs angulo recto rotundato Infractam fla-
vescentem margine purpurascensem subsuperanti, alis purpureis carlnâ
paul6 brevionbus, ovario triarticulato adpressè caoo lavi, legumine..

Hab. In dumosis inter *Ghslmdost* et *Karagatch PisiduB* (Heldreich).

H. Lydtum var *versieolor* Heldr. pi. Anat. exs

Canles pedales, foliola 6-7 lin. longa a lata, Bores 7-8 lin. long!.
Species elegans taabita *H. Lydn, caUwhrm* et sp. pracedentis, ab eis
omnibus slatiin dignoscenda calycis dentibus tubo xquiUmngis nee eo
«-3pl6 longionbus, floribus longiâs pedicellatis. *H Syrxaoum quod*
eodem calycis caractere gaudet babet folia trijuga, foliola obtusa,
ovanum glabrmn |c| margine obsoletè et brevissimè lurtnlum.

HBDYSAKUU PBSTALOZZJS Boiss (Sect. *Echtnolobtum.*)

Bab. basi suffrutescens totum pilia brevissimis lente tantâm per-
pleuis adpressisslmis obsitum, caulibus procumbentibus ascendeott-
sbusve tenuibus teretibus duris, foliis 7-8jngis, follohs mioimls
filliptlCO-IJQearibllS ObfUm<; AnffitiR fiuprA oh mnrnlncm HubrnvoluLum
tAW IIVIIIKMIH 1.1-IIIH hifrt olmtnrllfis vlruntlbuB, slpiliIB In nD<m
oppositifoliam btpartitam hrevisumflm rmiitin, pedunrulia ox axllllh
superlonbos folio looglonlius, racemis oblongis laxiusculiu, pedl-
cellis rectis post antbesio non deflexis calydno tubo squilongu, ca-
lycisl adpressè hirti dentibus tngulari-lanceolaUs tubo cqulloagla,
corollâ roseâ calyce quadrupl6 longiori, vexillo glabro carlnâangulo
rotundato obtuso incurvâ m longion, alls oblongo-ltoearUnu carlDf
paulb brevionbns, ovario parcè et adpressè birtulo, legumine.,.

Hab. in *LyaA* propi' *Etmalu* (Pestalozza).

Caules 6-8 polbc, foliola 2-3 ho. longa M 4/9 lata, floras 6 lin
longi Planta ab afBolbus *H vano, Synaco* et *dumstorum* distiocta
floribus follohsque niultò minoribus, etc.

HEDYSARUM LEUCOCLADUM Boiss. et Heldr In pi Anat e u. 1846
(Sect. *Echxnolobtum.*)

H. basi suffrutescens totum adpresslssimè canum, caulibus pumlli,
foliis 40 Jugis, foliolis oblongo-elhpticis utrlnque canis obuulsens-
slusculis suprâ concaviusculis stipulls cams in unam brevm opposl-

tifoliam profunde bipartitam coalitis, pedunculis folio 8-3 plo longioribus divaricatis, racemis tenuibus strictis oblongis laxiusculis, pedicellis *tabo* calycis brevioribus, calycis canaliculis dentibus triangularibus acutis tubo brevioribus, corolla purpurea calyce quadruple longiori, vexillo parviusculo carina angulo recto rotundato incurva. subbrevis, alba oblongis millo subbrevis, ovario adprewe caneaenti, legumine.....

flab. ID eolibus *Ptndue* prope *Bouldour*(*Re\greich*)*t.Vaio*.

Planta semipedalis, caulibus 4 basif ramosis divaricatis, foliola 1-9 fl HD. longa, floras 6 lin. longi. Valde affine *H. Pettaloxza* a qua dUbrt indumento cano, foliis plurijugis, spicis baxioribus, dentibus ~~calycatis~~ bnnioribus.

TAVBNTBHA iEaTPTiACA folios

T. caulibus basi suffruticosa stridit et subclivata ~~ramosissima~~ nmlaque stanaUs vlrgeUu subnudis scoparia glabreBcnUBiiB, foUB unUoliolatis breviter petiolatis, (dolo sparelm et adpreaissimA setoso ubtto griseo snperna pallide virenti oboyato vel retubo ban subcumatato, pedunculia ailuaribus bravlunua petiolom Tin Buperantibus 1«1 Aorta, pedicello calyce breviori, olycta adpressè hirtis obcoicil tlaillimi LMMOnda aeatis tubo eubQngloribus, gOrOlttum IOf.UmUfl (ID semperP) uni&rticolato srticulo ovato hirtulo Unller et crebra eoUmdato.

Bab. in *JBgypto auperiori ad more Rubrum* cl. Prof. HUSSOD.

, Pedalis, foliola 6-6 lin. longa apice 3 lala. Legumen stipilatum 3 lin. ~~longum~~ t btiun. Planta e spedmine valde imperfecto descripta ~~approximanda~~ *T. nwtmularuF* qua difert foliolis orMcuitis, pedicellis gracilibus elodgatis.

~~Alaba~~ *Turcoman* Bolas.

A. cajdlMB berbaceis ramosissimifl, ramis splnisque juDforibus pills spans adpreaaiBBCDito hirtillis tandem glabris, foliis elUptidis obtosis ID petiolmn brevissimum attenuatis primm ntrhupie adpnssd hirtis dendm gbrfs, spinis inferioribus nudis brevibus folio axillaril brevioribus Buperioribus tenuladmia Long* aecosls folia aifflaria mul«) supftutibus, floribus Becos sptoas Buperiores 3-8 laxft racemoaiu, calycis sub lentfi pares et breviter hirti dentibus brevibus triangularibus

aculis, flonbas purpurcis, vexillo carinâ obovalfi subtûs rolundatâ sublongion, alis oblongo-linparibus carinâ subbrevioribiis, ovario angustt lineari recto glabernmo, legumlne ..

Hab. ID A»iA *minon* ad *Kvmah* (Heldreich), *SynA* ad *Boyrout* (tolas.), *Mesopotamxd* Kotschy N° 406

Habitus A. *oamelorum* quod quoque ovario glaberrimo gaudet ted dlffert ramulls spinuhsque tenuionbus, catyctis deatibus obtusissimis ferè obsoletis. A. maurorum L. er iEgyplo cui probabUiter plaata ex *Arab\A petreA* Schimper N° 563 adnumeranda esl sic deflnleudum.

ALHAGI HAUBOBUM L.

A caullbus ramoslssimis spinoaisBimiB ramis aplniBque sub lente breviter et densiusculè puberulis, follis oblongls Dbtusia parvia pubermlia in petiolulum attenuatis, splnis eraasis basl substrlatlB loogè attenuato-accrosis folio axillan mult6 longlorlbus, floribus in pane Infernorl spins sohtariis rarids binls, calyctis adpressè nirtuli dentibus breviter tngularl-ovatis obtusis, corollâ...; ovario adpressè aericeo, legumlne tomentello llineari-cyllndrico sublncorvo 3-6 spermo inter semina irreglariter substrangulatQ.

Halhagt Desv. Journ. bot. 3 tab. 4 flg. 4. — *Aihagi* Toiirnef. lib. 489 ex iconis imperfectione et loco non indicate inter omnes species dobiom.

ALHAGI GHIBCOAH Bobs.

A. canlibus berbaceis nunosiBslmia spinoslfielmis, ramis gptaUsqae pneserUm Junloribus patulè et densè lomentelUs eanescenUbns, foWi oblongis obtusia in petiolulum attenuatis juDioribns utrinquè argyreoserlceis tandem canescentibus, spinis crassis longè attenuato-aceroBte folio axillan moltd longionbus, floribus in parte inferlori spin® so-litanis vel blnis, caljds adpressè hirsuti dentibus breviter triaAgnlaribus acatiusculls, corollâ purpareâ, vexillo carinâ obovatâ subttu rotundatâ paulb longiori, alis oblongo-Hnearibua carinâ subbretloribuB, ovario sericeo lineari, legumlne (ex Sibth) glabrescenU llneut-iiyllndrico 6-7 spermo in arteulos 6-7 snturâ Inferiori Inter semlnt strangulato.

Hab. in llttoribus *Attioa*> ad Sun̄tum promontorinm et *Phalenm* (Spruner! Heldretchl), insul&Syra (Boiss. Heldr.) *Samo* fgtbtb.)

Hedyrum Alhngv Sibth. pi. Grsc. tab. 730.

ib *Alhagi Maworum* egregie diversum ramis ensaioribuB, indumento copioso tomentello nee raro lenteque tantum conspicuo, dentibus calycis acnlioribus, legumine paulò tenulori magiB strangulate.

Envoi BiBBBBBmNii Guss. var. *HymettiaBolas*. etHeldr.—Humlior, pedunculi t-% nee 4-6 flon, legumen 4 nee 5-6 spermum.

Bab. In monte *HymemkUl&B* (Sprnnerl Bolss.I) montlbuaad Smyrnom (Bolas.I).

Legnmen 5-fr hn. longum sesquilliDeam latum. Prtmtam ab *E. sieberitwm** bane plantam apacificè differre credidi sed speclmina a cl. Heldreich in *GriaB* prov. *Sphakta* lecta el inter ambo intermedia me earn tanlOrn vanetatem ease docuemnt.

EEVUM tiTANBuH BOIBB. et Hohen. ui pi. Kotsch. Pen. bor. 4846. <Sect. *Utu.*)

H. annuum lotum patulè blrtum canescena, canlUma pomiliB angubtla, folU* brevibuB approiimatim 3-4 jugla, foliolla eUipUel&obtusis, petlolo plaaiuculo aut foliolo unpan aut ranôa mucronulo brevlashmo lenlnato, atlpulla oblongo-lanceolaUB acntluoeulis lntegeiTlnibi, pedmculls blfloris folio Tix longlorttnw aristatis, pedicello calyci subcqidlongo, calycis birautl lacmUs lanceolatis tobo dnplb longloribns corolla intensè caeruleâ brevlonbuB, stylo apice dUalato latere superioro piloaulo, legumine subrhombeo glabro 4-1 spermo.

Hab. in gluscosis montis *Elbnu* propè *Derwend* Kotschy N° 93.

^JSpedmlBa mea tiipollkana, folia 6-6 Jin, longa, flores et legumina magDitudiniB eorum *E. ntgncantis* cut nostra species accedit sed quod differ! BtapuUs basl dentatia calycia laeiniis *Betacela** corolla aequalongia.

b m n ouBifTAU Boiss. (Sect. *Lens.*)

, B^annuum adpresaiuBculè blrUilum, caullbuB pumUs angulatiB, foria>bnTlbuB approiimatia 3-4 jugiB, foholiB ovatb eUlptldave obtac<i%> petiola in mucronulum ?d follolum impar abeuntl, atipidla ovato-oUongtolntegeTrimto aetiuBculla, pedunculis 4 nriñs biOortaariataUs .flore isoglorlbuB, pedteeUo calyce paul^bwrlori, calycis adpreaaiusculè birU denUbna lancaolato-«ubalattia tuba trtpl6 longloribua corol-

lam sBTUkam subauperanlibos, stylo apice dilatato lalere superior pilosolo, legumme subrhombico glabro dispermo.

Hab. ID montans Japidosi totaus Oentis, Oufri supra *Colassam* in *Anatoli* (Boias.) *Ant\l\bani* circa *Rascheya* (Bolss.), *Pwna* otu-tralts propè *Gere* inter *Abouchtr* et *Schtraz* Kotschy N° 59 sub. *E. ntgnoanti*

Smihimum £. *cyaneo* et *E. mgncanti* pro quo diik habui et Inter ea intermedium. Species prior differ! tndumento densiori, corolla majori, calyce manifesto longion, posterior distingultur stlpnlis basi denticulatis

VICIA DUHANDI Boiss

V penning*¹, pard&iine et adpressè pilosula, caulibus tonulbus angulatis scandentibus, foliis brevibus ijugis, foholis clUptlcis basi el apice rotundatis mucronulauS, petiolo in cirrbum simphecm vel rariosum abeunti, slipulft semlsagittatâ laciniis nervulosis lanceolauS cuspidatiB alterâ denbculo basdari asepe auctâ valdè divarlcatis stipntam mdivisam horizontalem rectam transversè llinearem sunulantibus, peduoculls 1-9 ex.axilla aupremia ortis folio pau!6 longioribus S-3 flons, pedicellis calycis lubo aequilongis, flonbos magms, caljds patnlè hirluli campanulati basi glbbi obsoletè labiati dentibus trian^ulari-lanceolatis subaeqmlongis tubo subbrevioribus superlonbus sursam subcurvatis, corolla e sicco flavida calyce plus triplo longlori, veiilll lamina ovata retusa sarsnm angulo recto curvatft ungue longlori alas saperanti, carina bre\l valde et rolndatlm subtos curvata alls breviori, stylo angulo subacuto intracto apice undlqnè aed latere superior! longius birsuto, legumine (Junior!) linear! recto 14-14 ovuifito.

Hab. in *Maintami* ad *Tmgidem* Dorand In berb. Pavon none ntèo.

Gaulis in specim. meo pedalis, folia cum drrho 4;<< polllc, foUob 6 lin. longa ferè S lata, sttpula; 3-31;S lin. longa angnstse, Bores valdè curvatl *Lathyn* vel *Orobt*, vexlllum 7 lin. longum. Pnlcbra el dftstneta species nulli propiis affinis propè *V glauoam* collocanda.

VIOIA PALOSTINA BoISS

V. annua parcisslmè ftiib lente hirtula, cauttbas teneris tenulbiM angulatis, foliis B-> jugis petiolo simplici vel ramoso terminate, fbIMb vindibus llineanbus acutis vel apice rotimdatis mucronulatis sseplns

abends, stlpuhs mīDulīBsimis Inflmis semisagiltatis iDtegnis saperiori-
bus obloDgis aculis IDtegris vel lobolo laterali auctls, pedunculls aiil-
lanbus tenuibus folio 9-3 plb brevloribus 9-4 Dons muticis, pedlcellis
ealyd sequilongis, flonbus minubs tandem deflexls, calyce pareš et ad-
pressè birtulo bilablato, labii superlons dentibus tngulanbns bre-
vibus latls sursàm subrecurvls, labii inferior^ paulb longtorls denti-
bus tngulanbus lanceolatis tubo calycis squUongls, corollâ csruleâ
calyce tnplG longiori, vexdlo glabro aplce truncato retuso carinam
superanti, stylo apice circumcîcâ squallier piloso, leguminibus gla-
bris lineari-Bubrbombeis stipitatis obliquè mucronatfs dispermis, se-
minibus subcomprcssis nlgrlcanti velutinlformlbus, bilo peripheris
eitam partem occupanli.

Hab. inrupestnbus umbrosis *Palastxna* circâ *Kunet el Enab*, *H%e-
rotolymam*, mootem *Ithaburem* etc. (Boiss.)

Caulcs 4-1 4/9 pedales, folioia 7-10 Ln. longa 4 lata, legumen'8-40
UD. loDgam 3 aut pau!6 amplfus latam, flores magoltudins eorum
V. duperma quæ ut et *V. Btoona* affBnes statbn a nostrt specie dl-
gnoscmitur deDttbus catydDis lanceoiato-setaceis tubo duplb longlo-
rlboa.

VIÇIA noBopBYUA d'Drv. Enom. DC. Prodr.

V. amnia tota breviter et palulè puberula, caulibus angulatis flifor-
subus tQuissunis debdibus abbreviate Inter suffrubces Intncatis
basi ramosissimls, folus brevibus 4-BJugw, foiiolis minubs ovatls
oblODgisve brevlsslmê petiolulatis obtmus mucronulatis petiolo pla-
qluşculo in cirrbum brevem ramosum abcunti, stlpuiis miaimis senu-
şaglUatis blQdis integris acutis superioribus substipitatis, pedunculis
gracilibus incurvls folio axillari subdupl6 lougionbus laxè et spcunde
4-6 floris, pedlcellis breviaslmis, calyce basi gibbo breviter tubuloso
parcè et adpreasè blrto bllabiato labio supenon bideutato dentibus
triplg~~triplg~~ttlaribuBacuUB, inferior longion tndentalo dentibus laneotato*
subulaHs tobo squIIOdgis, corollâ intensè violaceâ concolorl calyce
tripto looglori, vexilli sublinearis sureniè subdilatau alls paul6 longio-
ris laminâ ab uugueiDdistlnctâ, carinâ rpice atro-purpureâ vlxlnnrva
margine-Inferior! rotundatâ alls brerlorl, stylo angulo obtuso infracto
aplice btere Interior! tartum barbato, legumine eompresso oblongo-
rfaombeo sab *i*-spenno, seraiibus atris yeluttnlfonnfbus comprat-
stntcnHS) bilo penpherlâ semins decuplò bretlori

Dab. ID omni regione inferiori Graeciae inter damosa humides praesertim *Potentillae spinosae* et *Thymum capitati* intricatae, Attica, Peloponneso, fonsulfic MoAucher N<>96B.

Caudes semipedales raris pedales, foliola trifida. longa 4-5 lin. lata, flores subrecurvi 7 mm. circ. longi, legumen 10-15 lin. longum, 3/4 latum. Affinis *V. pseudocracca* Bort quaecumque eam dicit confudit et quae specificè differit caule elatione robustiori. foliis oblongo-linearibus 5-6 lin. longis, calycibus supremis brevioribus, albis discoloribus, stylo apice circumscissis barbato, legumine a 1;5 lin. tantum lato oblongo-linearibus — Semina *veittuformata* voco ea inter KICIM* frequenter occurrentia quae etsi glaberrima ob integumentum exterius naturam velutina esse videntur.

VICIA GIBBATA BOISS et Heldr.

V. annua sub lente adpressè et parte hirtula, caulis filiformibus angulatis tenuissimis inter frutices intricatis, foliis brevissimis 3-4 lin. longis, foliis ellipticis linearibusve foliorum faeminae minimis ovatis omnibus acutis mucronatis, pediculis in circulo breviter simplicem vel ramosum abeuntibus, stipulis obtriangularibus divergentibus bifurcis brevissimis basi cuneatè substipulatis, pedunculis 4-5 lin. longis 3-4 lineis folio adhaerentibus brevioribus vel squilongis rariis longioribus, calyce breviter campanulato basi subgloboso pediculo, lobis penicillatis breviter subtruncatis dentibus brevissimis triangularibus acutis ascendentibus, inferioribus longioribus in densis e basi triangularibus lanceolatis rectis calycibus tubo squilongis partibus, corollae calyce unguibus longioribus, veris violaceis striatis lamina subreflexis nunc vix angustioribus et eis aequilongis, albis pallidis vix brevioribus, canaliculis apice violaceis albis brevioribus inferioribus angulo recto curvatè totaque longitudine nervo marginibus parallelis percurrentibus, stylo angulo acuto infractis apice nervo stigmate circumscissis barbato, leguminibus glabris oblongo-rhombicis subtispermis.

Hab. in Graecia inter dumos *Potamo* in Eparchia *SU* ad radices rariis *Tmo* Heldr. pi. eia. Bub *V. pseudocracca*.

Plants rariis 4 pediculis, foliola minores viz 5 lin. majores 4-5 lin. longa, floret 6-8 lin. legumen 9-10 lin. longum ferè 3 lineis. Ex affinitate *V. pseudocracae* et praesertim *V. murex* ab utraque differt foliis acutis, canaliculis subangulatis laevibus inferioribus naribus pa-

rallè nervosâ, a posteriori Iterium calyciDO tubo multo breviori stylo-
que drumclrcâ apice barbato.

Yicu Spamonu Bolss.

Y. annua sub lento adpressè et parcissimè blrtula caulibus fillfonni-
bin debilibus angulatis pros trails, follis brevlasmis 2-3 JugU, fo-
lloHs minutis oblongis vel elllptids acnttascoliB mncronatis, petlolo
breri planuscalo recurvo la cirrbum simplicem abeanti_t sUpidla mi-
nlnds a basl cunealâ bipartite lacnlis brevlbus Unearl-setacels dlva-
rlcatla recurvts supremis llinearibus indivisls, pedunculis 4 -a floris
folio axlllarl brevlorlbuB, calycis breviter campanulati pilis paucis
longls hlrU lablo superiori fert obsolete truncato deDtibus ascenden-
hbus brevi68im6 trlangularibus, inferior! longlori in dentes triangu-
lari-lanceolatos tubo paulò breviorib partlto_r corona pallidè violaceâ
calyce fert qoadruplO longiori, venlll bunbâ retusâ ungue subbre-
Tiori Bubrefleza, alls verillo paidb brevlorlbus, carinâ alia snlmquS-
longft latere loferiori rotundato-curatt nerro marglol pannello de-
•titntt aplice Intend violaceâ, stylo angulo recto infracto aplice dllatato
circumdrcâ breviter birto, legumine (Juniori) llinearl-rhombeo basl et
aplice longè attenuate 3-4 sperno.

Pab. In Grsdâ loco non notato (Boias.), ad radices month (*Eta*
Tbewalto (Sprunerj.

Planta i-topollic., folia majors ri& 10 hn. longa, foliola S-3 lln.
looga, floras 4-3 Un. longl. Facie et charactenbiiH pracedentl afQnla
dlflertpetlollBrecorris, floribna ounoribus, alis carinam subtds non
~~angulati~~ nec nerro antè margfnem slto cinctam non superantibus le-
ganrine loogWis attenuato.

Vicu CASSIA Bolss.

y, annua sub lente adpreasè breviter et parcissimè blrtula glabw-
Bcens, cauUlms elatis angulatis scandentibus, foliis 6-7 jogta, foölte
elUttleo-linearUHU sabqulnqnenerviift bast rotundatls aplice obtuste-
•lmB truncatto vel retesis obsolete macroniüBtlis, pettotts In drrbum
nmosuia abeunUbas, stipulis inferlorfims paitls semlssgHtatis cnspl-
d&Nis Hnearibus vaMe dlvarlcatls, superiorim cosplde alterâ angustè
UnearlaltertoblongtacuU Integrâ, pedunculta luè g-u floria folio
arillari paulò bnvtoribus, pedtoeUis pstulte calyce vix brevloribus,

calycis lirtuh nervosi campanulati basi gibbi labio superio-
rimo denudato brevibus latis triangularibus ascendentibus, labia
inferiori in dentes e basi triangulari subulata tubo squilongos di-
verso, corollâ calyce plus triplo longior atro-violaceâ, vexillum
superintis laminâ subrecurvâ unguem paulo brevior, alis vexillo sub-
parallelis lobis cannam subtus acute angulatam valde superantibus, stylo
angulo recto incurvo apice circumscissâ piloso, leguminibus lineari-
rhombicis 3-4 pennatis basi attenuatis apice rostrato-angulatis, semine
fuscis vel brunis, bilo periferico octuplo brevior.

Hab. in sylvaticis regionis inrenons montis *Cauu* In Syria boreali.
Legi JUD. 1846

Planta 3-4 pedalis, foliola 5-6 lin. longa 4 1/5-2 4/5 lin. lata, flows
9 lin. longi, legumen 12-15 lin. longum 3;2 latum

VICIA PINABDI BOISS.

V. annua sub lente parvè adpressè et breviter tortilla vel glabre-
cens, caulis tenuibus elatis angulatis scandentibus, foliis 4-8 Jugis,
foliis alternis denticatis 3-6 nerviis apice in mucronulum brevissimè
attenuatis, petiolo in crurum ramosam abeunti, stipulia inferioribus
parvis semisagittatis cuspidibus valde divaricatis superioribus
ovatis vel oblongis in stipitem basi attenuatis acute nervulosis altera
dente lateraliter sursum aucta, pedunculis laxè 6-6 floris folio parvis
longioribus, pedicellis formi calycis aquilongo erecto-patulo, calycis
parvis lobis basi valde gibbi labio superiori brevissimo dentibus
brevibus late triangularibus ascendentibus, inferioribus in dentes a
basi triangulari subulatis tubo breviores diverso, corollâ calyce qua-
druplo longior, vexillum cilioloso alis multo longiori laminâ subreflexâ
ungue paulo longiori, alis pallida carniam subtus angulo obtuse
angulatam superantibus, stylo angulo acuto infracto apice denudato
circumscissâ piloso, legumine (junior) oblongo-rhombico utrinque
attenuate

Hab. in *CanA* vel in *LyctA* (PinnardJ).

Species cum præcedenti molds congruens DOUS et a me pro hujus
varietate prius habitata dicitur lamen foliis non retusis Bed apice at-
tenuatis, Bt pulls superdis dupli majoribus, pedicellis tenuloribus an-
gulis longis, florum colore diverso, carina subtus magis adgolatâ,
V. *Cassia* et V. *Pinnardt* inter V. *onobrychioidem* et V. *caloaram*,
ferè intermedia sunt quoniam prior pedunculis longissimis, pedicellis

brovUslmis, stipulis dentabs, hilo loogisslmo*_f posterior peduncults
paudfloris aristatis, corolla linear!_t cariaft elangatâ vlx curvatt etc.
differunt.

VICIA GUBGABIA Bous. et Heldr.

V. perennls mult)caull% tote pills erecto^patulis vfflosa Qavescentl-
grisea, caulDnis rectls aculé angubtls strlatisque, follla approximate
JWOjugis, follolls lioearibas laflmonun obtasiuscufu soperioram
acuminatis acatlssimls, petiolo suprâ piano subtûs angubto-carâmato
ID drrrbmn brevem simpllcem abeuDti, alipnlis magna oblongls semi-
sagtttatls cuspidatls lachnlA exterior! lanceolate acutâ brerl, pednn-
CDIB et axlllls superioribiw folio paulò brovloribus racemos secnados
densiusculos 8-40 floras ferentibns, pedicellis tobo calyds rabaqal-
IODgis, calycis villosi campanula!! denttbus sabiBqottongls trlaDgubri-
lanceolatis tubo paulo brevloibos, corolla violacea nrtas albâ, vexilH
emarginati alas superantls lamina subreflexâ ungue breviori, carinl
aHs brerlori subtAs angulo recto rotndato curvatft aplice acntluscula,
stýlo dreamdra sed extfts coplositis barbato, legumine obiongo sub-
Abnlteo longe sflplato utraque fode vel ssptiis tanUm margine pi-
littb- 4-* aperiho, semlnls Ullo sextam ejus peripberlam occupantt.

'flab. ID regtone superiorl monUs *Gheidagh Taurilsaurieit*Ht. 5000'-
TdoO' gre'garie crescens totumque Jagum e longinquo tapete vlobiceo
obtegens (Heldrelch).

V. eaneseena Labill. var. *angwtifolia* B. et H. in Heldr. pi. Anat. exs.

Caules pedales, foilola 40-4 a Hn. longa 9 lala, Cores 4 0-49 HD. longi,
lègumen stipite ferè 3 Un. longo auffultum polllcare 4 Hn. latum inferofe
aogngtatum. Hanc speciem priàs pro varietate. *V. caneseentia* babne-
ram quant in Ubano^vam posteft observari et qua loogé dlffert indp-
raeoto sericeo denstsslmo, folila edrrhosls foliolo Impsri donatls-
Itostrt species magte afBnls est *V. Persica* a quâ tamen benè digoos-
dtar foUolto QOD oblongo-elliptids longioribus angustioribusacali^s
acuminatis, stlpulls ampUonbna, carinl aubttis rotndatt nee angulat.

Vicia tp. ex monte *Dcmawend* In Kotschy pi. Pen. bor. sub No 343
ut var. *albiflora* *V. Aucheri* edita accurattori examlnl subjecta ab ñ&c
spede In eâdem collecllooe sub N« 386 occurrentl dlffert stylo superne
ndtquè nee lateribus et margine Inferior! tantum barbato, logumlneque
dfcto facie glabro nee undlque plloso et ad Y, *Permm* Born, nt for-
ma 'carinâ concolori donataadmüneranda eat.

Vicu CIUCIA Bolss*

V. perennis tota tomento denso odpressiusculo subsericeo flavido-canescens, caulibus angulatis crectis, Mils approximate 6-7jugb cam impari, follolis lato-linearibus apice obtusis vel retuatis, stipulis magnis acutis infenonbus oblongo-semtsagiUatls laciolâ Infenorl triangular! brevi supenoribus oblongis Integrh, pedunculis viliosis folio soquilonis racemum secundm densom MO floram fereoUbus, pedicellis tubo calycis brevioribus, calycis vUoso-flavidl campanulas dentibus subulatis tubo pauto brevioribus, corollâ calyce tripl6 longiori c aloco pallidè violacea, venill laminâ ungue paulb breviori subreflexi alls paulb longiori, carinâ apice atro-violaceasubttis anpiiato-recurvfl alia paulb breviori, stylo angulo recto Infncio supernè undique sed extôs longlâs birsuto, ovarlo densè rufescenti-plloso Bericeo.

Hab. In *Tauro CUuno* Kotschy No 450.

Foliola pollicaria 2 lin. lata, floras magnitudes V. *canetcentu* cal accedit follis foliolo Impan donatis sed a quâeimife dlffert foliolni trnncalis vel retusls nee acutlusculis, dentibus calycis subulatis nee triangulan-lanceolatis.

Vicu SIBTHOEPH Boiss.

V. perennis tota densè et adpressiusculè TfUoso-caneacens, cBullbot prostralls angulatis ramosis, follis approxmallm MOJogis, folibUfl utrinquè villosis eDIptlids parvis Infimorum obtusis mucronnlatls émeu rorum acutis, petiolo indrrhum slmpHcem brevem abeuntl, stlpolis ptrvls acutissimls Infimls angulfl lanceolato-flemisagittatlu ladniâ baslbit minimâ caBteris angustUslmè linearl-subulatis integris, pedonculis crajsis folio 34 pl6 longioribus racemum longum secundum tandem laxlusculum ferentibus, pedicellis calycis tubo brevioribus, calycis vTÜosl breviter campanulaU csrulescentis labio superiorl brevisstano InferlbH 4 longiori dentibus omnibus triangularibus vel triangukui-lanceobtU tubo brevioribus acutis, corolla linear! violates calyce quadruple longiori, vexilli buninâ emarginatâ alls vk longiori sub reflexâ ungue lorè dlmidl6breviori, carinâ rectlusculâ extremltate rotuDdataatro-violacéâ alls mult5 brevion, stylo angulo oblusio infracto apice circumdreâ barbato, legiunibus 6-8 spermiiflineari-rhombeis apice baslquëatte-nnatis sUpltaUs.

View polyphyllaVI Grac. lab. 699 non Desf.

Hab. ID dumosis et agns derelictis totlus Gracte, in Atticā, Argolide (Spruner) et probabihler quoque In Asiā mlnorl.

Caulea pedales longioresque; foliola 4-6 fin. longa a fata, floras 6 Un. longl, habitus *V. mUosa* a quā longē dffert ndtee pereani aHsqne nodis. *V. Gerardi* et *7. polyphylla* quoque perennes dUfernnl Indumenta adpresBtaBlmo, folloUs rauH6 m&jorlbiu longtorUnn, calycte dentlbus aplce attenuato-subulatls, laminā veiilll sngul oqnUongā etc.

VIOIA YEKULOSA Bolss. etHoben. In Kotsch. pi. Pen. bor. exs. 1846.

Y. perennia viridls ludda sub lente minutē et adpresslsslmē puberala, caullbuB acutē angulatis flexuosla Bcandentibus, folUa remotē S-LJugte, follolls pedicellatiB amplis ovalls basi rotundatis acutiucnlls mncronulatiB venulis crebris subttts eleratts percorels, petiolo in cirrhum validum ramosum abeunti, stlpulls semisagtUaUs transversalB Inferionbufl basi 3-1 denticulalis, pedunculls petiolo Bub&qullongls •pica ncmum brevem Bubaecundum 6-7 florum ferentilniB, pedicelllB cernub) crassiuscula calydB tubo pins dnplb brevioribus, calyeto tubokwo-campanulatl adpreBsluBculejjlnutl dentlbuB trlangularl-lanceobi-UB tubo triplo brevloribuB, corolla cameo-flavldft cxslft calyre 3-4 pl6 longlori, vexllll alls sublonglorls lamiDfl refleift ungue breviorl, earinl aplce atro-vlolacea rotundato-lneurrft alia brevlori, Btyloangnlo Ineurovo Infraeto apke drcumdrca hlrtulo, legamlne oblo'Dg^Hiieui gtebro gpicB Totundato mncronulato bad attenuato-Bttpltato >-3 speitno.

Hab. in rupestribus propē *KoltuktaehiU* montls Elbrus propē *Derwmd* Kotschy № 833.

Caulfis 4 |ji-% pedalea, fohola majora 4OH4 lln. longa i-& lata, \$am die 7 Un. longl, legnmen poUlcare 3 Hn. latum. Species pulchni affitoU *V. 4wnetorwn* et *V. pollute* Tuna.

*

VioiA SATIVA L TM. *albiflora* Bobs. —Folia Inferiort elHptfci apriora Unearla omnia aplce retuaa vel tnincata mocronulala hUtdntiie varia, corolla alba e Bteco ochrolenca, legumlna brevltter pubenda.

Hab. in cultls *Agypti* et *Palasliaa* frequena (Boisa.)

Has plants nuDft nota gravlorl differ! a *V. teUba* cnjus calyces mul- Ustrlatos dentibus lanceolalis reclis tuboajqallongls babet.

VICIA ABBTBXAOA Bobs.

V. annua tola pills adprea&liisculls birtula vMdHctaiensciw, cauU-

bus creeds angulaUs infers ramosie, fohis 4-Bjugis, folioliſ lioean-cuneatis aplice truncate rel retusis breviter mucronalls, petiolo in clrriram simpHcem abeunti, ſtiputtB mſnotiſſimis oblongo-triangularibus acutis integriB, pedunculis brevIſſimiB S-3 flons, pedicellu centals calyda tnbo brevionbua, calycis campanulali tomentelll deotlbus e baſi trlaDgolari ſubulatſ ſupenonbus brevibus inferioribus tubl 3/4 ſquan-tibus, corollâ flavldâ calyce triplb longioii, vexilli laminâ ovata retasâ ſabreflexA alls vix longion facie interion ſub lente punctatft glaucolntenti, carinâ alis multd breviori curvatiffimfl galeatâ, ſtylo angalo acuto Infracto apice ciraiincircâ ſed ad latus exterius longits hirsutis-lmo, legnmme S-3 ſpenno glabro oblongo ſtlplte calyce breviori ſuffullo apice rostrato, ſeminibus avails compressis algris velullniformibus, bUo peripbenâ ſemlma decoplò brevlorl.

Dab. in *Assyria* circâ *Diarbekir* et in monte *Karadja Dagħ* Kolschy **Nº 213.**

Gaules pedales, foliola 4-5 lin. longa aplice 4-4 4fS lata, floras 7-8 poll, longl, legumina 8-9 Im, longa a *hft* laia. Valdeaffinſ *V. galeata* meae quse prster caulem valdè elatum, foliola latlora floras ampttore* egre glè dffert bilo ſeminis ejus periferlam dimidlam ferè eqoanli. — *V. galeata* In bumidſ GallæfB et Syria littoralis v. gr. in plantie *Esdraelon* ad rtvalos copioſiſſimfe creſcit ſaprâ arbores et domot ſcandeos; ID ejus descnpUone Diagn. 44, p. 403 lapsu calami denies calycim inferiores pro ſaperionbus et vice venâ deſcripti fueninl quod corrigeodura eat.

LATHTBQe STENOBOBUB BoiSS.

L. aouufl glabrescenB vel pilis Bparelaſlmis adpresais ſub leate ob-sitns, caulibuB procumbentibiu inferaè ramosfs, peholls aphyllU fltt-formlſyus In drrrbum almplicem abeuntibus, ſtipnttullifonnibusstrictiB lanceolate-saglltatiB acutla aariculis baſflaribSTvix dlvcgentibus trlangulari-lanceolatis brevibus acubs, pedunculis aiillaribos flifor-mibus rectis ſtipulas multò Buperantibus, calycis glabri obconlci den-fibus lanceolatis acutte ſubtrinervils tubo ſquilongis, corolli luteA calyce Bbtriplic longiori, vexdll oblongi pane ſuperiori reflexa iofe-riori aquilongâ, alls vexillo brenoribus cannae ſubaequullongu, carlna brevl Bbttos angolo recto ſubrotundato Incurvâ apice In mucronem brevem Incurvum attenuata, ſtylo in angulom obtuſum infracto apice longè dilatato latere ſuperiori barbata, legumine angnſte et loagfe

lineari recto compresso glaberrimo laevi 6-6 spermo, seminibus oblongis compressis hilo oblongo

Hab. ID sylvaticis montibus Syria* borealis. Legi Jan. 4846.

Caulis 4-4 pedales, stipulae majores 9-40 lineas longas basi Ires late, pedunculi 4-4; M. podicariae, legumen sessile pedunculatum sesquilineare latius, flores dimidiis minoribus illis *L. Aphaca* a quo et a *L. pseudo-aphaca* Boiss. differt bipulvaram formam, pedunculis tongibus lacinis brevibus, legumine recto angustissimo etc.

LATHYRUS BOLOVDI Boiss. et Heldr. ID pi. Cret. ess. 4847.

L. biennis vel perennis glaber viridulus, radice fibrosa caudiculos filiformes nudos breves ramosa edentibus, caulibus prostratis tenuissimis planis angustifoliis linearibus albis teretibus abbreviatis alius floriferis omnibus simplicibus, axis ex petiole deorsum onerata ad folium inferiorem aensum anisatis, foliis uoquibus, petiolo bipartito *jjao* triseriale foliorum inferiorum in arjpluque breviter superioribus drubum simplicem capitulum longum abeuntibus, foliis subsessilibus foliorum inferiorum otalia oblonga acotila teretibus obtusis nuncius, superioribus angulatae upovt-laefleolatis acutis omnibus quinquenerviis, stipulis inflexis q] DJB ebriaagnitibus conspiciuntur iubaenlongifoliae dtvaricads, «imperiofibus iriplibus majonibus bimaculato-semibagittatis caudae inferiori brevissimae, pedunculis 4 nervis s floribus stipulatae axillari brevioribus, pedicello calycis sobaqualongio, floribus horizontalibus purpureo-violaceis, calycis basi oblique truncatis dentibus triangularibus rectis tubo paucobrevioribus interioribus alius paulo longioribus, corollam abbreviatam valde curvata calyce subtriplo longioribus, vexilli ovatis valde reflexis laminam reticulatam striatam u e sublongioribus alas paucosaperantibus Bdm omentibus carinam paulo superantibus, earum subtendens emittit truncatam valde abbreviatam, stylo angulo fere inflexo apice nuda dilatato latere interiori hirtulo, leomliidibus rectis angustifoliis linearibus inferne angustatis apice rostrato subincurvo brevibus inferioribus parallelis elevatis percurtis, aemulibus laribus minimis globosis viridibus violaceo-maculatis, bilo aexiam partem penultimae seminis ambentibus.

Hab. ad rivos acalurgines et ID partibus paludibus caetanetorum loco

Jlal) <irti *Ffieroaoolymam* ubi leg! vcro 1846

Scmipcdalis, fohola 4-4 4;a pollicdHa 3-34;2 hn lala, norcs illis X. ocflfw paululàm minores, legumen 48 lm longum alatum Species afflIDis *L. annuo* et *hirsute*, a pnon corollà roscà, legumne duplò angusborl brentsimè attenuato a poslenorl glabntle etc distincto

LATITRUS CASSIOS BOISS.

L. aonuus glaber, caulibus elatis scandentibus angustè angulato-alabs, folus umjugis, fohohs elliptico-lanceolatis acutis 7-9 uervils, petiolo fohohs breviori angulato inferiorum in mucronem superiorum in cirrhum ramosum abeunb, stxpulis mioutissimiB semisagittatis laci-niis setaccis supenonlongiori, pedunculls 4-SflorlB folio aullari a-3pI6 longionbus, pedicello calyci subscquiloDgo basi mnutssimfi bracteolato, calycis lacimis triangulan- elongatis acutis tubo basi 40 nervi squi-longis, corollà calycc subtnpl6 longiori, vexillo kstfe roseo retuso alis carLràqac palhdis multò longiori, canna subtùs angulo acuto rotun* dato incurvft apicc oblusà alis subsquillongà, legumine glabro obso-lete reticulato-venoso hnean incurvo compresso 6-7 spermo margine snpenort concavo inferior! convexo apice in rostrum breve ascendens attenuate, scminibus cubias valdè tuberculato-scabns.

Dab. in dumosis jugi *Cam* inter *Cassab* et *Suadieh*. Legi jun. 4846.

Gaules 2-3 pedales, fohola majors scsquipollicaria i-5 lin. lata, pedunculi 4 4;S-3 poll longi, (lores magnitudes *L. hxr sulx*, legumen 4S-4S lin. longum 8 4;8 latum. AfOnlsL.HterosolymUanoaqao differ! caulibus elatis angustius alalls, foholis latioribus minus acutis, pedun-culis folio longionbus, denlibus calycis non cuspidatis, legumine recorvo margine supenon concavo nee convexo. Habitus £. *htnvti* indumento, legumimbns abbrevialis etc. dlversissimi.

LATDYHUS LTCIUS Boiss. et Heldr. in pi. Anatol. cxs. 4836.

L. annuus lotus sub lente pills sparsis brevissimis patulis birtulus, caulibus angulato-subalatiB elatis scandentibus flexnosis, foliis nnl-ⁿ jugis, foholis aniplis oblongis obtusis mucrooulatis basi subalte-nuatis nervis iateraUbus anastomosantibus reticulalis, petiolo crasso angulato foholis sulKcquilongo in cirrhum ramosum abeunti, stfpulls minimis semisagiUatis lacinhis lanccolatis cuspidatis Inferior! bre-viori, pedunculis rigidis folio multotics longionbus 3-6 floris, pedi-

cellis calyce paulò longioribus, calycta breviter utrū lacinijs triangulari-elongatis acutis tubo xquilateralis, vexillo antheris roseo subrotundo calyce subtriplo longior, alia violaceis cannam pauld superanlibus, carina sublus angulo recto curvati apice obtusa, legumine (junior!) compresso hinc-subcurvato brevissimè rostrato bexaspenno pills brevibus tuberculatis densè puberulo margine superiori convexo inflexo concavo.

Hab. in fruticulis ad portum *Teknova Lycus* (Beidreich) fl. Maio.

Gaules a-3 pedales, foliola majora sesquialtera 8 lin. lata, pedunculi semipedales, Gores dimidiò minoribus fills *L. odorata* qui differt stipulis triplo majoribus legumine longior recto glanduloso-piloso etc. *L. fursutua* diversissimus est foliis angustis acutis, floribus dimidiò minoribus, legumine recto tuberculato-bispido etc.

•CICBB OXTODON Boiss. et Hobeo id Kotschy in Pers bor 4846 (Sect. *Sptroenu*),

G. perenne totum pilis minimis sparsis glandulosis viscidulis obsitum vixit, caudis crectis subflexuosis, foliis 4-5-jugis, foliola eximie venosis subrotundis uiperne subtudialis basi cuneatis utrinque argute 4-8 dentatis dentibus triangularibus acutis terminatis brevion, petiolo superius canaliculato in cirrhum simplicem vel ramosum abeuntibus, stipulis parvis semiovatis acutis et profunde 4-dentatis, pedunculis folio brevioribus 4-a floribus in anastomosis pedicellis longioribus abeuntibus, pedicellis tomentello-viscidis calyci aequilateralibus, calycibus pubescentibus viscidis basi gibbis Ucinus a basi lanceolatus in cuspidem setaceos apice incurvos cirriformes corollam subajquantem attenuatis tubo multoties longioribus, vello ovato lacino alas cannamque palhdiores superanti, alis obovatis spatulatis canisp apice valde attenuatis aequilateralibus, legumine densè puberulo viscido oblongo turgido, seminibus valde tuberculato-acutis rostellatis.

Hab. in rupestribus propè *Artonbag* montis *Elbrus* propè pagum *Patgala* Kotachy N^o 867.

Gaules pedales vel longiores, foliola 4-5 lin. longa, flores 6-7 lin. longi. Affine *C. sprooera* quod differt caulibus rigidis infractoflexuosis, pediculis rigidis remote fofoosis, foliolis cuneatis flabellatis utrinque 3-5 dentatis dente medio longioribus, stipulis triangularibus indivisus in quinque tantum denticuloauctis, lacinis calycis brevioribus, seminibus refulgentibus rugosis eic

CICER MQnmiii Boiss et Ilohen in Kotschy pi. Pers. bor 4846.
(Sect *Anetarta*)

C perenne toLum patule glanduloso-pubescensgriseum, radicibus crassiuscuhs caules nanos libformes basi serpentes nudos dein fobosos procumbentes rdentibus, folus brevissimis ambitu ovalis impanpin-natis bijugis, foliolis cuneato-ovatis complicates apice obtusiusculè 5-7 dentatis, stipubs mmimis peliolo dimidiö brevionbus inferioribus trifidis lacimâ mediâ triangulari-lanceolaU lateralibus multò brevionbus, supenonbus semisagiltatis, pedunculis uoifloris ad mediam partem articulates ebracteates folio sequilongis, calycis hirsuto-viscidi basi subgibbi lacinus lanccolahs acutiuscuhs tnnerviis lubo duplb longioribus corollâ paul6 brevionbus, vexillo vtolaceo vel sanguineo ahs carnflque apicc atenuatA paulft longlon, legumme ovato-oblongo inflata pubescrnte-viscido, scmimbus oblongis brenter et acutauscuN rostellatis sub rostello foveoli rotundâ excavates obsoletè et sparslm tuberculato-punctates

Hab. in scbistosis propè *Metdan Abdallah* m Tall. *Loura* montis *Elbrus* Kotschy N° 542.

Caules 2-3 pollicares, foliola | *tfi-i* lin longa, flos tres lineas longus, florum et foliorum magnitudme affline *C. ervotdt* Fenzl Illustr pi Tauripag. 8 — *Onontdi ervoidi* Sieb Reis. Gret. || Ic. — *C ptmpinelloidi* Jaub. et Spach. III. tab *it. H.* in montibus Greta;, Anatolls et Libani crescenti et quod differ! foliolis angustè cuncatis, stipulis duplb majonbus oblongis lalcre extenori tndentatis petiolot aequanbbus, semmibus exinuè et densè tuberculato-scabns etc

CicBft JoDAicmi Boiss (Sect. *Anetarta*)

C. annum parcè et patulè glanduloso-blrtulum, caullbus tenulsslmis erectis, folus impanpinnatis 41-13 foholatis, foliolis ovatis basi Integra subcuncatis ad mediam partem usquè ulnnquè in 3-4 dcntes argutè subpinnato-dentahs dentibus supcrionbus trifidis, stipulis ovatis minimis crebrè denhculates^ pedunculis unifloris folio multò brevioribus ad medium articulates aristulatisquo, calyce glanduloso-hirto ferè ad basin usquè in lacmias lanceolato-llineares acutas corollam subaequantes subtnnerves partito, flonbus palhdè violaceis, vexillo ovalo rotundo alas cannamque paululdm superanti, legumine oblongo subcompresso hirto, semimibus..

Hab. circā *Hieroaolymam* ubi **iprili 1846** speditaa pauca reperi
Caulls 6-8 polhcaris, folia pollicem, Mola $\frac{1}{2}$ -t **W lln.** longa, flor
3 lin loogus, legumen 5 lin longum 3 latnm. Species pulcñella a
C. anetmo minulie omnium partinm, foliolis null6 profuodids den-
tatis DOD mueronatis, stipularum formfa, leguniiDe compre&o etc.
dislinclisslma *C. cuneato* Hochst. quoqoe divereissimo magis afflnis.



DIAGNOSES

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DIAGNOSES

PLAKTAHVH **ORIENTALIVM NOVARVM**



HOSACEJE.

AMYGDALUS AGHBStis Bolss. (Sect. *Spart%o\des.*)

A. liumilfs basi suffruticosus pared ramosus, ramis teretibus glabris atriatulls strictis rlgidis elongalis simpheibus foliosis aplice nudls aub-splnescentibus, gemmuUs axillaribus minimis glabns rnfescentibas, foliis glabns coriacels utiinqud pallidd vireotibus lanceolatis basi In peliolum brevisslmm apice In mucronem subincurvum attenuate cri-nato-serrulatis crenis parvu ascendeniibus glanduhferis, flonbus. drupla seeds ramos bornotinos apbyilos solitariis pedunculo crasso brevissinio msidenlibus breviler puberulis ovato-subglobosis apicub-Us, putamine acuminalato lse\igato cannulato sutorâ doreah non canalicolato

Hab in agris derehclis *Calesyntr* inter *Balbeck* et *Zaehle*. Le^{vi} fructiferam Julio 48A6

Suffrutex 1-2 pedalis, folia M 1fs poll longa s-s ifSlin. lata, dni|w eâ P. *tpinosce* major. Ab afflmbus *A spartuAdt* Spach et *A. AraincA* Olivier dlvereiuima ramn non angulatis, folds angusttortbuB acum.J-natts; a priori iteriim drupâ minus oblongâ pubescent! nee glabri, putamine non canallculato; ab *A. Arabica* fructn majon non obtnso ner canescenh, putamine carfnulato

PYRUB STBIACA Roiss.

P. arborea 10-S5 pedalis nomâ rolundatâ ramis etiaiu junloribus gla-

bernims cortice rubella glaucescenti vestitis ramulis rofenonbiis ramorum saepe spinosis crassis .ibbreuatis, foliis in fasciculos sessiles polyphyllos gmmulam foventes setis raras dispositis ad ramorum apiceni solitans dissitis glabernmis]allidè virentibus suprâ mtidis sublus pallidioribus tenuissimè venulosis subconaccis oblongis ve) oblongo-lanccolatis basi rotundtis vel breviter cuneatis acutis margine CMIMÓ et minutè crenalo - scrrulatis denticulis ascendentibus eglandulosis.peliolo foln dmudiam longitudmpm subauperanti, floribus pomis 3-5 in corymbos super ramulos hornotinos tenmales disposals folia basilana xquaotibus glabernmis nigricanti-rubelHs conaceis subglobosis in pedunculum crassum apice clavalum eis dupld longiorem basi attenuais dentibus calycims tnangulan-lanceolatis erecto-patulis oorumitis, loculis propter sepia inconipecta in unum ccntrale pentarpn diamelroangustiuspanum confluentibus.

Hab in sylvalius ruyionis inferioris montis *Cassn* suprâ *Cassab*, in Antihbano inter *Zebdanx* et *Zackle* (Boiss)

Folia 1 1j2-2 1;2 poll longa 6-12 Fn lta petiolo 1-4 4;S polhc. suffulla, poma diainetro 6-7 hn lata [tedunculo ferfe sesquipollicari suffulta. Species a *P sahnfolta* distinctissima fohis glabernmis, fructu quadruple majon. *P Smaia* nostrt specie differt ramis pubescentibus, fohis subtds velulinis ovato-oblongis subinlegns, fruclu majori spbavnco, pedunculo non clavato *P glabra* Boiss Diagn 'VII cortice ramorum albicanti, folus breviter petiolatis uitegris angustioribus exlnuè distinguilur. An nostra species eadem cum *P angustifoltd*, Decaisne in Bovu pi. Syr Ann Mat 183^r» cujus tamen character (folia linean-oblonga • minds bene convenit ° Si eadem, nomen speciflcum specieiingenerecertè non *angustifohcr* improprlum mutanduiD ent.

GBEASUS PEOSTRATA Liibill *nr concolor* Boiss et Heldr In pi. Tayg exs 4844 —Folia etiam Juniora ulrinquè glaberrma vindla, esterâm omnes cñacteres forms genuinae iuu&cum crescit.

Hab in *Taygeio* loco *Choupata* dicto (Heldr)

Ad speciem formis Intermedils in quibus folia subtus hirta sunt transit.

AHBLANCHIER PISIDIGA BOISS. et Heldr

A ramoBissima, ramis cortice nibella lævi nitidulã vesUtis, foltis ID* legprnmis ovatis obtnsis vel relusis mulicis vel mmutisRimè mucronu-

latis basi rotundatis breviter pedunculatis supra glabris pallide virentibus subtus tomento persistenti catis, flonibus in racemos breves ovatos ad ramulorum apicem sitis folia basilana vix superantibus, pedicellis tomentosis calyce sesquialongioribus, bracteis linearibus rubellis deciduis, calycis albo-tomentosi hemisphaerici dentibus triangularibus acutis apice tomento denique detersili nudis rubellis, petalis albis calyce duplo longioribus basi attenuate oblongo-spathulatis obtusis medio dorso brevissimo tomentellis margine ciliatis, stylis 5 tomento denso immersis, drupa .

Amelanchier TpaTWflorayl Anal Ueldr. exs 4846 non Boiss. Diagn. Hab. in *Pisxdia*. (Heldr.)

Soffrutex *Cat nummulanwn* F. et M florura magnitudine habUunque omnino referens sed hic (qui forsitan ultimum genen *Amelanchier* conjugendus esse differi foliis acutiusculis et praesertim flonibus subsessilibus in racemos densos fasciculiformes conferlis, petalis suborbicatis basi intus hirsutis extus glaberrimis, toro tomento nullo lanato. *A. parmfiora* pro quo primum nomen habueramus specificè differens nervis secundariis tollorum valde prominulis, dentibus calycinis longioribus, flonibus fere duplo majoribus, petalis obovato-rotundatis extis valde tomentosis. *A. integrifolia* Boiss. et Hohen denique, quae fructiferum tantum nomen habet folia detersilla longiuscule mucronata, pedunculosa elongatos simpliciter vel bifidos, dentes calycinos longissimos apice subulatos

ROSA *KorschnAN.v* Boies. (Sect. *Gnamomea*.)

B. ramis glabris glaucescenti-rubellis, aculeis stipularibus subaequalibus flavidis patentibus recurvis compressis, foliolis 7-9 ovalis simpliciter et acutè serratis ulnque dense tomentosis subtus palhdioribus, stipulis ramulorum florentium sublongioribus, flonibus in ramulorum apice *i-i* rariis solitariis bracteatis, laciniis calycinis tomentellis et basi triangulari-lanceolata longè acummatim mlegerrimis corollam subquantibus, tubo calycis glaberrimo, stylis brevibus Uberis In discum approximate, fructu ovalo glabro laefis calycibus deflexis eo longioribus coronato, carpella sessilibus.

Hab. in vrgultis montis *Kuh DaVno* Persia austr. Kotschy N° 637. Jl. *Orientais* var.P Boiss. in Sched. loc dt. non Dupont.

Oec planta quam dubitanter ad *R. Orientalem* (quae inter plantas Kolschyanas e monte Gam Kurdistania N° 543 quoque occurrat) retu-

lei-am, accuration exawiiii subjects eerie differt 1° rainis glaberrimis
nee annolicils puberulis, a° ovario glabernmo nee densè aculeato-his-
pido, 3° calycis laciniis reflexis nee arreclis semper integerrimis nee
plus minis pinnatifidis, 4° aculeis crassionibus compressis nee conico-
cylindricis.

ROSA LIBANOTIGA BOISS (Seel. *Canma*)

R puraila ramis junionibus plus minusve glanduloso-pubescentibus
adullis glabris rubellis, aculeis sparsis compressis patulo-subrecurvis,
stipulis foliorum floralium multò latioribus semiovatis, foliis 7-9 ova-
tis argutè duplicato-aerialis Berraturis palmis utnquè breviter sub-
iis coprosiis puberulis glandulosisque glandulis marginibus breviter
stipulatis ciliatis sessilibus, floribus ad ramulorum apicem solitariis
subsussilibus bincleatibus, pedunculis parè sclosis, calycino tubo brevi
obcomco praeter setas Donnullas apice glandulosas ssepè evanidas gla-
bro, laciniis corollam aequantibus supra medium angustatis supernè
spathulato-dilatatis denlieulatis, styli brevibus liberis, fructu. .

hab. in *Libano* superior! supra Cedros. (Boiss.)

Suffrutex humilis *R. glutmosam* Sibth valdè referens, ei affinis sed
distinctus aculeis tenuioribus minus adunatis, stipulis foliorum flori-
um latioribus, lupinosis (tubo calycino obcomco nee infra lacinas ut in
R. ruginosa, *canad.*, etc strangulato Species quoad fructum ignota
ex paucis specimibus tantum tamen observanda.

ROSA PIOSNIA BOISS. (SOCL *Mobiles*)

H. RWUS surmucosis elongatis, aculeis sparsis subtupresBis bre-
vibus valde adunatis, stipulis omnibus subeiformibus angustè lineari-
bus subulato-acuminatis, foliolis quinque foliorum supremorum
icinis ovalis ellipticisve obtusis argutè et simpliciter serrato-dentatis
dentibus acuminatis subascendentibus supra glabris nou nitidis
subtus pallidioribus breviter pubescentibus glandulosis, floribus in
paniculas terminatas multifloras composite corymbosas dispositis par-
vis, bracteis pubescentibus oblongo-lanceolatis acuminatis perstipulis
Ubus, pedunculis glabris vel glanduloso-brevibus, tubo calycis glaberrimo
veuo angustè elliptico basi cl apice attenuato, laciniis oblongo-
Vdim longe eadentibus supra medium sepe strangulatis pot
thesin reflexis tubo longioribus integris vel utrinque 2-4 lobis sub-

Hneanbin auctls pimiati fldis, pelata nlveis lactoias calyds snperen-
tibus, styliā ID nnum coDDatis, fructu.

Hab. ID seplbus humldla Phoenicia; littoralis cjlidions circā *Beyrou*,
Tripoli, etc., vufgans (BOMB J, In *CUwtd* Kotschy N° 18b F. Julio.

Pulcra et dislmcta species more *A. sempervirentu* sepea excelsas
paniculis innumens multiflorisque adornans, flonim dispositione et
lomento fobonim *Rubum tomentoswn* quodam modo referee Afflnts
fl. semperwrentt et *R. moschata* ab ulràque distincta aculeis valtdio-
nibus magls aduncis, foliolia non acuminatis profundltis et acattOs
dentalis suprā obscuris subtds pubescentibus, bracteis magnis per-
sistentibus.

POTBNTILLA XYLOBBZA Boiss et Ilohen in PI Kotsch. Pen. bor.
4846. (Sect *Fragarwjtrwn*.)

P. ftuffritioBa, rhzomate ~~EDOBO~~ duro crasso, cortice in ~~pelliculas~~
tcQues lonumeras secedente vesii to apice ramosisalmo ramla brevissi-
UUB squamoBis in cassUem congestls, foliis ad ramulorum aplcem
panels basi stiputla oumerosis squamxfonnibus rufesceDtibus pubes-
ceoUbus saffiills parvls breviter peUotaUB pionattan S foUotatU, follolis
supernè adpressè birtulls subtds serlceis oblongis basi attenuaUs
dpice rolundatis mtegnis vel obsoletè tridentatis duobus inferioribus
reiDoliusculis tribus supenoribus palmatlm disposals, peduncults e
centra foliormn 4 vel *t* uniflorw folia \ix superaiibbus ebracleatis,
floribus albis, calycis adpressè sencei laiamls exlenonbus linearl-
obloDgis obtusis \cl acutiuscuhs intenonbus duplb loogionbus lalio-
ribasque tnaogulan-lanceolalis breviter acumtnatis, petalla.. toro
pilosissimo, carpellis.

Hab. in rupibus septenlrionalibus vallis *Loura* moatis *Elbrus*. (Kot-
Why, N» 537.)

Truncua tortaosus cortice eo Pint sylvestris bmlli vestltus dlgtum
et amplUu crassus, satpè saiorum flsaarls compressua complanatasque,
feH cum patlolo &-6 Un. looga, follola 1-3 lin. longa 1-1 lē lata, ca-
lyoc <Aa aUarum specierura sectionis rainores. Species rhzoraale et
mbitu P hgnosce Willd. herb. — *Tnehothalamo hgnosce* Lehm. Act.
Nov. Mat. Cur. X, tab. 49, pag 585, e montibus Penis quoque
offends mirè accedens, aed haw ex icone et descriptloDe egrea^e dif-
fevt folls gciisu srlcto paimUm 3-5 follolaUs, foliolie petiolulutis

cuneatis apice truncate argute denticulatis flabellatis, dentibus. calycibus longioribus angustioribus minus inaequalibus.

POTENTILLA ARGYROLOHA Boiss et Hoheii. in Kostcb. pi. Pers. bor 1846 (Sect *Potentillastrum*.)_m

Y perennis herbacea, radice collo fibroso, caulibus pluribus ascendentibus simplicibus ciliatis parvis foliosis, foliis radicalibus petiolo longo patule hirsuto suffultis quinque-palmatisectis, foliis oblongo-cuneatis in lobos oblongos obtusiusculos profunde pinnatisectis inferius duobus subsessilibus intermediis breviter superiori longioribus petiolulatis hirsutis margine argyreo-serratis, foliis caulibus breviter petiolatis 5-6 sectis foliolis angustioribus profundius serratis squallidius et reiter pedicellatis, stipulis oblongo-ellipticis acutiusculis integris, floribus paucis terminalibus laxiuscule corymbose, pedunculo calyce adpresso hirsuto longior, (acinus calycinis ellipticis inferius paulo brevioribus angustioribusque obtusiusculis interioribus acuis, petalis aureis obcordatis calyce duplo longioribus, toro inter stamina ulbopilosissimo, carpellis.

Jab in jugo *Naserou* montis *Demavend* alt 7500' Kolschy, N° 346.

Pulchra species ex affinitate *P. Netadensis* Boiss et praesertim *P. petraea* Lelini Pot tab 44, quae egregie a nostra differt foliis omnibus sessilibus elongationibus, stipulis radicalibus longissimis, sepalis subsquaribus acutiusculis, corollam parvam

POTENTILLA POLYSCHISTA BOISS. et Hoben in pi. Pers. bor. Kotschu 4846. (Sect *Potentillastrum*)

V perennis dense caespitosa, collo vaginis fuscis vestito, caulibus basi expansis brevibus tenuibus subsimplicibus rubellis adpressiusculis hirsutis, foliis utrinque adpressè serratis subtus argyreo-denticulatis ambitu obovato-bipinnatisectis lobis oblongo-linearibus margine serratis, radicalibus breviter petiolatis, caulibus sessilibus paucilobis, stipulis oblongis acutiusculis denticulatis, floribus paucis terminalibus densiuscule corymbose, calycibus nuncantibus adpressè hirsutis, laciniis exterioribus oblongis obtusis interioribus paulo longioribus angustioribusque triangularibus acutis, petalis aureis obcordatis calyce sesquialongioribus, toro piloso, carpellis...

Hab. ID alpinus *Haaartschal* in parte occidentali montis *Elbrus* Kotschy, N° 489

AfQnis *P. mulltidcB* et forsan adhtic hole specie! polymorpbe «He-nūs conjugenda, ex Bpecimmibus qua vidi tamen ab est diversA follis utriquoè sericeis nee dicirois, lobls abbreviate minūs Iraearibus margine non revolulls, cal>cis laciois exterioribus obtuslonbus

POTHRHM COHPACTUH B01SS.

P. rhizomate lignoso caespites pulvinares densissimè compactos edenti, foliis ferè omnibus radicalibus 5-6 jngis, foliis prater se-lulas sparsas glabris ovatis obtusiusculè et profundiusculè denlatis dentibus linear-oblongis, fohorum cauhnorum sublinearibus apice tantAm denlatis, caulibus prostnttia it\ ascendeDlibus infernè tantim et parçè ramosis lenibus srialis, pedunculis gracillibus loogissimis, capUulis globosis pandfloris IDIHIDIS, floribus Inferioribus masculis supenoribus femineis, frectu (Juaiori) ellptico Ueviusculo angulalo utnnquè acuto

Hab. in herbis siccis jugi Libanotici inter *Zacht* et *Beyrout* in regione *Rhododendn Pontun*.

Gaesptes diametro 2-4 pollices latl dansi dun, follola eia *P. san-guorba* ferè djndld mlnora, captula plso dirndib mlnora. Species quoad fructum maturum imperfectè nota captulls minutis et radfee lignosAcaespitosaaP.san^uMorMetafBnibusdisHncta *P. ancutrotides* quoque suffruticosum longe differt caule simplici, foholis duplb majoribus ovato-rotundis, etc

CVCURBITAGE^

BHYONU HICEANTHA BOISS

B. diotea caulibus pilis papillosis crispis obslitis, fohte otrinquè papilloso-asperis cordatis inferioribus subrotundis obsolete et obtusè isepfdo-dentatis supremis ovatis 5-7 lobis lobis inferioribus brevissimifl superior! multb majon elongato, cirrhis simplicibus, flonbus mas* colls., fsmneta sessilttniB mlnutissimls, calyds lacinis valdè papilioso-hlris corollam papilioso-hlram equantibus, stigmatibus aspe-

ris, baccis axillanbus soltarils rubellis pedicello eis pquilongo ve] Ion-
giori suffullis

Hab in duniosis Anlilibam circà *Rascheya* ubi legi Maio 1846.

Species adhuc imperfecta nota a *BT dxotoH* disincta foliis rotandio-
nibus multo minus proflindè lobalis pedunculis aolilanis, floribus
fannmcis minimis annilx capiit ||| suporantibus, lannns calycis elon-
gatis

BKYONIA MULTIFLORA Boiss et Heldreich

B diolca cauhbus valde angulosis parcissime rt bre\iter paplloso-
asporuhs, folns obscure virentibus brevissimfe et sparslm sublils aspe-
rubs superoè larvibus ullrJ medium In 5-7 lobos tnangulares acutos
saepiAs itertim basi oblusè lobatos palmatisectis, cirrliis simpheibus,
floribus masculis.. faemineis in racemos multiifloros eloogatos oblon-
gos pedunculalos sxpu basi ramosos e c eâdem axillA sapibs plures
disposals, axi racemi flexuosA pedicellisque glabns eis bacctf brevio-
ribus fructifens recurvis, launns calycinis glabns hneari-selaceU
acutis corolla: lacimis papillan-clliatulis fere dimidib brenonbus, stylo
corollam exccdenti, stigmahbus patenti-recurvis elongatls asperis.

Hab HI rupestnbus umbrosis Plsidiae in montibus propè *Tcheltickeht*
ad mendiem urbis *Bouldour* (Heldreich)

Species a *B dtoicd* eximie` distincta foliis prof undiùs et acuhAs loba-
tis, floribus fsmineis DOQ in corymbos paucifloros fled in racemos
|-||fl polhcares 1 b-80 flores disposilis, stylo e corolla exscerto.

TAMARISCINEiG.

TAMAHIX H&HPKANA Boiss. et Heldr (Sect. *Olxgadenxa.*)

T. glabra glaucescens, ramis erectis, fotais densiusculè lmbrcatis
subsqualibiis e basi lation rotundatA subangustatls oblongo-JanceoIatiB
crassiuscoliB acutiusculis, racemis seeds ramos hornotinos nameroslA
patulis brevibus crassis densiusculis paniculam spiciformein longajn
fonnantibus, bracteis oblongo-hnearibus obtusis pedlcello kmgiori-
bus, pedicello calycem aequanti, floribus tetraepalls telrapetalis octa-

denlis, sepalls oblongis acutis, petalis oblongis calyce duplò longionibus, staminibus 6-8 breviter exsertis, stylis 4, capsula..

Hab. in montibus Allies ad *Phalenm* (Spruner, Heldreich), Argolidia ad *Astros* (Boiss) Fl Apnh.

Habitus *T Africans* a quâ floribus tetrameris statim dignoscitur. Cum *T tetrandra* quâcum crescit, *T. laxa* et aliis speciebus sectionis ob spicas crassas abbreviatas, flores duplo majores, stamina 8 nec quaternaria non confundi potest. Cl Hampe in Flora 4841 huic speciei absque diagnosi nomen *T hexandra* proposuit quod ex variatione numeri staminum non servare potuit.

TAHABIX MBTBBI BOISS (Sect. *Ohgadnxa*)

S glabra glauca ramis erectis, foliis crassiusculis e basi latius subtruncate sensim angustius lanceolatis acutiusculis paginifloris aequaliter lobatis, eis ramorum ad basin cujusve ramuli triplo majoribus patulo-subrecurvis, ramulis lenibus laxiusculis foliosis, racematae aequales ramos hornotinos lateralibus numerosis longis densis crassiusculis, bracteis linearibus latiusculis pedicello brevi duplo longioribus deflexis, floribus tetrapetalis tetrandris octadenis, sepalis ovato-rotundis margine membranaceis dorso lobatis obtusis, petalis oblongo-spatulatis calyce sesquialongioribus, filamentis corollae brevioribus, styliis quaternis, ovario pyramidato depresso

f. *tetragyna* C. k. M. En. Gasp N* 4460 non Ehrenb.

Hab. in insulis mans. *Casp.* fC. A. Meyer.)

Folia ramea 4;2-3 in longum 4 lata, ramulorum sesquialineam circiter longa, racemi triplo carcerum crassitie eorum *T. Africana*. Habitu et ramorum longitudine, florum magnitudine *T. Hampnensis* similis. Bracteis distinctis foliis laxioribus longioribus eis ramorum multo majoribus nec omnibus subaequalibus, racemis densioribus, bracteis lateralibus longioribus, pedicello brevissimo nec calicem subaequantibus, sepalis obtusis nec acutissimis, petalis calyce sesqui nec duplo longioribus, staminibus brevioribus nec 6-7. *T. tetragyna* cui d. Meyer bane retiderat est planta Aegyptiaca. Sepala 5 petala decadenaria. Omnia esters species tetramera a nostra foliis longè minoribus densè imbricatis, spicis tenuibus, lloibus saltern dimidiatis numeribus dignoscuntur

TAHABIX DBSBBI Boiss. (Sect. *Oltgadenut.*)

T. glabra plura minus glaucescens, ramis erectis, foliis lanceolato-

linearibus acutiusculis erassiusculis subter angulatis basi simplicibus truncatis, ramis ad basin cujusque ramuli 3-5 majoribus, ramis tenuibus laxiuscule fohosis, racemis seciis ramos hornotinos numerosis pedicellam longamformantibusloigis densiusculis, bracteis linearibus obtusis flores squantibus vel superantibus, pedicellis calyce paulo brevioribus, bracteis 4 ovato-subrotundis obtusis late margatis dorso subcanuatis, petalis 1 ovato-spatulatis calyce sesquialongioribus, staminibus 4 corollas squatlongis, stylis 4, capsula quadrialveolata glauca pyramidata % hinc longit.

Dabit in salsugineosis deserti *Aralnco-jEgyptiaci* (Husson) in descensu septentrionali in Arabia petrea ad fontem salsuginosum (Boiss)

Habitus *T. Hampeana* vel *T. Meyen*, a priori bracteis longissimis, floribus minoribus staminibus quateris statim dignoscenda, posterior magis affinis sed ab ea egregie differt bracteis elongatis, floribus non sessilibus, racemis minutis densis, staminibus ciseris

BEAUHURIAE

RUBIA PALJEBTINA BOISS

R. basi suffrutescens mullicaulis, caulibus erectis albidis breviter tomentosis nodulosis fohosis simplicibus vel parce ramosis, foliis semiteretibus carnosius angustius linearibus obtusis glaucis glabra sparsis basi non dilatata subretusis facile deciduis axillaribus brevissimis in fasciculum brevem imbricatis, floribus pedunculo basi nudo paulo plerumque breviori suffultis paucifloras forantibus, bracteis numerosis angustius imbricatis obtusis squarrose patentibus calyci aequilongis, calycis lacinis triangulari-lanceolatis apice attenuatis acutiusculis, petalis calyce sesquialongioribus elliptico-linearibus integris ovatis appendice interiori ovata longe filiformi apice filiformi, filamentis pane dilatata edentulis, seminibus..

Habit in argillosis calidis inter *St. Saba* et mare Mortuum, legi floriferam Maio 1846.

Folia majora lineam lata 40-42 lineam longa. Flores eis it. *hirtella* J. et Sp. paulo majores, bractes foliis similes 4-6 lineas longas. Affinis *R. hirtella* et *mucronata* ab utraque distincta foliis elongatis, bracteis

Ms longis squarrosopatentibus, petalis calyce sesquialongioribus nec subsquialongis angustioribus, appendicibus in unam connatis, etc...

PORTULACEÆ.

GLINUS WCBANTHCS BOISS

G. adonii herbaceus totus tomento stellato sparso subdeltato canescens virens, caulibus brevibus humi prostratis in orbem expansis, foliis parvis radicalibus obovato-spatulatis caulibus 5-7 pseudovermicillatos formantibus petiolo eis subsequialongo suffultis ovalo-orbiculatis inter se inaequalibus, floribus 3-5 axillaribus minimis pedicello eis versus sequialongo vel longior suffultis, sepalis tomento stellato dense et sordide canescentibus oblongis acutis cucullatis, parastemonibus duobus, staminibus fere 40, stigmalibus tribus, capsula .

flor. in rudcratis Antilibam circa *Rascheya*, legi flor. in Ditione Man.

Caulis 2-4 pollicares, folia diametro 2-3 lineas tantum lata, calyx 4-5 lineis; stamen longius quam filamentum et arceuthemum Fenzl. in Ann. Wien. Mus. plures *Glinum* species sub *G. latouii* combinavit et suo sensu hanc species quoque speciei polymorpha adnumeranda esset; collata tamen cum *G. lotoides* quae in Hispania, Graecia et Aegypto pluries observata ab eo adeo dissimilis videtur ut donec manifestos transitus viderentur eam specificiter differre persuasum habeam *G. lotoides* est planta multo major foliis oblongis saepe acutiusculis, floribus tantum majoribus, parastemonibus bifidis, staminibus fere 48, stigmatibus 5.

TRICHOPTERIS.

TRICHOPTERIS OMBROSA BOISS.

T. perenne glabra glaucum multicaule, caulibus prostratis filiformibus simplicissimis dense foliosis, foliis alteris secundis oblongis vel ellipticis lanceolatis acutiusculis raris obtusis in petiolum brevissimum attenuatis, floribus in cymis dense capitato-corymbosam et natis 6-6 constantem terminalem dense congestis, sepalis oblongo-

liieanbus oblusissimis >ilde uirinalis albuinargiaalis intus concavft, pelahs calyci aquilongis, tapsulā apice tngoni senslm in rostrum attenuatA caljcc tertH parte loogion 45-g0spenn&, seminibus reniformibus subcompressis lenle punctatis maturls ecannatis

Uab in toto Onente, *CretA* m monlibus *SphacioHets* (Heldr), Anatolii in collibus *Smyrna*, *Syptto* (Boiss.J, *Cand* (Pinard), *PamphyltA* (Heldr.), *Ltbano* ad Gedros (Boiss), monlibus *Perstce australts* (Kotschy N°M3) prov. *Taltjsch*. (Hohen.)

Species eerie *T Imperatt* valdè affDnis et forsan hujus forma orientahs, tamen ab eo faale dislmguenda, foliis m moribus angustionibus acutionibus, corymbis florum Diult6 densionibus, flonbus paul6 minoribus, sepalis evidentiils carmalis et paulò lalius marginatis, uapsula imprimis altcnuum nee abruptiuscule roslrata est, calyce tertiā parle longior nee eam vix superans, semina maiura non lit in *T. Fmperati* etidpiitercarinaia

TELEPHIUH SPHBROSPBRMLMBOISSI

T aimuum >! bienue glabrum glaucescens multicaule, cauibus filiformibus procumbentibus abbreviatis simplobus foltosis, foliis oblongo-ellipticis acutiusculis basi a^enualis radidbbus majonbus breviter petiolatis, caulmis alierois subsecundis subscsibus, flonbus in cymam parvam corymbosu-subcapilalam c rains s-4 constantem aggregate parvis, sepalis oblongo-lmcinbus obtusis cannatis vmdibus angustisstmè albo-marginatis, pelalis oblongis caljci subsequilongis, capsullf breviter ovalā supernè Ingon] acutiusculft erostri 25-30 sperma, seminibus mininns globosis mgns

Yar. ^ racemosa.—Forma for&an submonsrosa, cymac ramis elongatis laxiflons saepe 2-3 pollicaribus

Dab. in deserbs jEgypliaco-Arabicis (Husson, Figari), deserlo Sinaico ad *Wadt Scketch* (Boiss.), *Wad\ Btbran* Schimp. Uo Itin. No 346.

Caules 2-4 pollicares, folia caulina 3-4 hn longa \ 4/S-S lata, flores llhs 7. *Imperati* minores Ab eo et a specie pncedenli differt radice annul vel bienni, seminibus dimidi6 minoribus globosis nee reniformi-compressis Yanetas habitu diversissima est forma \erosimilller aubmonBtrosa mtermediis in speciem transiens. Tertia species onentalis hujus genens est *T oltgospermwn* Steud. in Kotsch. pi. Kurd, dlstinctum caulibus rectis virgatis elatis, foliis clongatis lioean-lanceolatis

jectis, capsula acutissime trigona sub longispennata, semtibus magnis reniformibus dorso rotundatis

POLYCARPON ARABICUM Boiss

P. annuum glabrescens, caulibus abbreviatis prostratis dichotomic densiflore cymosis, foliis minimis oppositis linear-oblongis obtusis carnosulis, stipulis bracteisque omnino albo-scanosis triangulari-ovalis acutis tace ad floram basin confertis calycis basin occultantibus, sepalis oblongis obtusis late albo-marginatis, petalis oblongo-hoeribus obtusiusculis calyci aequilongis, staminibus quinque, uisui polysperma, seminibus

Hab in arenosis *Arabia petraea* obi Irigi Marie 1846.

Affine *P. tustnifolium* DC differt foliis angustioribus minimis linear-oblongis nee ovatis circiter linearibus longis linearibus latis, stipulis bracteisque majoribus, omnibus paulo minoribus, sepalis latius scanosis, petalis calyces sequantibus

PARONYCHIA KOCHIANA Boiss

P. perennis, caulibus procumbentibus dense caespitosis nunquam surculosis, capitulo minuto inter supremas folia sessilibus terminali, foliis utrinque vel margine tantum hirsutis oblongis vel elliptico-linearibus obtusiusculis sessilibus subtus subcanalicatis, stipulis scanosis oblongo-linearibus acutis foliis subaequantibus, bracteis latis rotundatis orbicularibus apiculatis acutis (lores superantibus, calycis abbreviati adpresse hirsuti laciniis aequilongis oblongis obtusis angulato-albo-marginalifera

P. captata Koch Syn Fl germ, p 380 non Lam.

Hab in *Illyria* (Koch), *Apenntino Neapolitano*, Asia minor in monte *Cadmo*. (Boiss)

Species hucusque confusa cum *P. terpyloides* MHC, ephrenaeiset Alpibus occidentibus onunda qua¹ huic habitu et bractearum magitudine affinis species tamen differre videtur caulibus surculos elongatis filiformes foliosos eduntibus, foliis breviter ovatis floribus minoribus. *P. chumaa* Boiss quoque affinis differt bracteis floribusque fere dupli majoribus illos. *P. nevadensis* xanthotibus acutis *P. captata* Lam. utinam Voy bot Hisp demonstravit eadem ac *P. mwa* DC. species diversissima Anamen *P. catoncu*, *serpyllifolia* H. Koch in

locia nalalibns accuratè examlnabe specici polymorphs vanetates non erint⁰

Loco *P. Sinauxp* Fresen in pi Pinard cxs pone *P. deaertorum*
Boiss Diagn

PABONICHIA FLAVESCENS BoiSS

P. perennis tota pilis adpressiusculis brevibus densis canescens
caspitosa, caulibus brevibus a basi flonfens, folns miDimis oblongo-
bnceolatis obtusiusculis, stipulis albo-scanosis lanceolaUs acutis folia
aequanlibus, flonbus densè aggregate, braceis ocbroleucis magnis re-
niforml-rotundatis muticis calyces tolamque fere plantain occultanli-
bus, sepalis adpre&si hirsutis anguslfe hnearibus obtusls valde losqua-
libus obscurfe tnaernis immarginatis.

Hab. in deserto *Arabue pelrece* ad fines* PaLBSlnte (Boiss.)

Species habita *P. chmaam* et *Swaicam* Fres. referens ab eis et
omnibus alus bracteis flavidis rotundatis oinnmb matids, calycis laa-
DIIS linearibus obtusii inaequalibus distioctissiina.

CBASSULACE^.

UIIBIUCCS LINEATA Boiss. (Sect *Rotulana*)

U. perenms, foliis radicalibua rosulalis elongate hngulaUs liaeari-
spatbulatis obtusiBsiols facie sparsim papillosis margine ciliabs, sca-
pis extrikrosulanbus ascendentibus deosiusculè foliosis folusque aor
guste linearibus stnetis valdè papilloso-nirsutis, flonbus in cymam
semel vel bis biBdam unllateraliter dispositis laxiuscuHs, pedunculis
calyce brevionbus infra ortura bracteà Hnean suffultis, cymaj ramis
flexuosis valdè papdlosis viscidulis, calyce valdè papilloso viscidulo
ferè ad basic usquè in lacinias tnangulan-lanceolatas longitudinallter
lineatas partite, corolls roses extlis longfe papilloBO-hmabe lacnlnlis
lanceoiaUs acuffimatis calyce tertiã parte longionbus longitudinallter
purpureo-lineatis, flatnentsi basi dilalatâ corolla ad hujus tertiam par-
ten tuquè adnaus, carpellis paroè puberulis ovatis cootlguishi mu-
cronem brevem rectum abeunhbus.

Hab. ad rupen pneruplas ad mare Galilajum Junta *Titenadm* all.
arc. 400 pedes infra mare Lrgi flor. Maio

Folia radicalia 4-14; 3 poll, longa 8-2 1; 2 lin. lata, caules a-4 pollicares, cymaB raini 4-4 4 ; 2 pollicares, flores eis *U. labanatoea* ferè majores, ab eâ prater indumentum copiosius viaeidins tobus inflorescentis diBlinctissima est floribus son paniculatis sed in cymam bifidam dispositis. Hâc notâ accedit ad *U. Perstcam* Boiss. qua differt glabritie loliis inflorescentibus, floribus angustioribus et prsertim calyce corollâ triplici nee tertiâ parte brevior

UMBILICUS *ἄμυρα* Boiss et Heldr in pi. Anat exs 4846. (Sect. *Rosuhna*)

U. perennis tola papilloso-hirta Tiscidula, foliis radicalibus rosulatis abbreviatis oblongo-spathulatis plantis utraq; facie et margine densè papilloso-hirtis, scapis floriferis c centro rosulæ ortis foliosis rectis Buperius breviter paniculatis, foliis caulinis stnctis ovato-oblongis obtusiusculis, pedicellis calyci subsequilongis infra orlum bractea oblonga eis brevior suffulus, calyce papilloso ferè ad Itasin usquè In lacinium triangulare acutis partito, corolla liliæ calyce duplo longioris laciniis lanceolatis acutis lineâ rubrâ dorsali purpureâ papillosâ percur&is caeterum glabriusculis, (Immentis basi dilatatis ad tertiam partem usquè corollas adnate, carpelibus oblongo-hneanbus rectis contiguis superne in rostrum acutum papillosum stylo ^rminatam longè allenuatis

Hab in summitate occidentali montis *Gheuiagh* Taun Isaunci supra *Maria* alt. 6000'.

Folia 4-blina longa, 2-3 lata, scapi 2-3 pollicares, panicula ovata contracta, flores eis *U. labanotica* ferè majores, corollâ 5-6 lin longa Pulchra stirps ab *U. axzoonx* Fenzl. quoque florum foliis abbreviatis, scapis non extrarosulatis, panicula multiflora etc. distinctissima. Ab *U. pubescenti* Ledeb. cui proprios accedit dlrersa floribus 8-3 plo majoribus, sepalis acutioribus, carpelibus contiguis nee stellatis divergentibus.

Sunn MDicoauu Boiss et Hohen. in Kotsch. pi. Pers. bor. 4846.

S. glabrum, radice perenni a collo valdè tuberoso-iacrossatâ brevi napiformi rosulam solifloram formantem edenti, foliis ptenis oblongo-ungulatis obtusis, scapo extrarosulatis elaiis foliis paucis squamatis formibus demum deciduis obsito apice in paniculam ramosam confertifloram oblongam abeunti, panicule ramis flumosas pedicellis que flori

subsquelongis glaberrimis, calycis carosuli glabri lacinis ovato-oblongis obtusiusculis, petalis calyce quadruplb longioribus lanceolate acutis pallidè carnis lineà purpureà percursis, carpellis glabris oblongo-linearibus rectis conghuis in cuspidem longiusculam abruptè attenuatis.

Hab in monte *Demawend* propè pagum *Ask* Kotschy N° 606.

Rosula omnino *Sempervivum* foliis 8-40 lin longis 3 latis constans, scapulis semipedales, panicula multiflora $K \frac{1}{2}$ poll longa, flores $2 \frac{1}{2}$ lin longi. Species distinctissima propè *S. sempervivum* collocaoda.

SEBUM GBETICCM BOISS et Heldr. in pi. Anat. exs. 4847.

S. ananum vel bienne, radice fibris paucis longis cylindricis constant!, caule basi incrassato rosulam subelongatam densamque foliorum edenti, foliis planis oblongo-spathulatis obtusissimis glabris, ramis brevibus unilateralibus patentibus subscorpioideis seeds caulem alternis paniculam suprarosularem densiusculam multifloram subspiciformem formantibus, inflorescentià totà glanduloso-puberulft, bracteis ad ramorum basin ovato-rotundis ad pedicellos minimis oblongo-linearibus, pedicellis brevissimis, calycis glanduloso-puberuli lacinis ovatis obtusis, corollà glandulosà obscurè rubellà calyce duplè longiori, petalis elliptico-lanceolatis acutis, carpellis glabris oblongis dorso gibbosomcurvis inter se contiguis apice breviter cuspidatis

Hab in saiosis faucibus *Kordulwtzko* Eparchis *Haytoanly* Crete (Heldreich). Fl. Jun.

Afflue *S. epea* et *S. tetraphyllo* ab eis distinctissimum foliis omnibus ad basin caulis in rosulam elongatam congestis, panicula subradicalis dense rarais c^omiformibus, foliis subglobosis nec patentibus, petalis obtusis, carpellorum formà. Folia drc 6 lin. longa 9 4yS lala, panicula 1-4 pollicans pollicem lata.

SEDDM THISTBIATDM BOISS et Heldr. in plant. Cret. exs. 4847.

S. perenne totum pilis papillaribus brevissimis puberulum, foliis rosulatis planis oblongo-spathulatis rotundatis basi attenuatis, caulibus floriferis bundibus extrarosulanibus ascendentibus foliosis, (bills caulibus minoribus ovato-oblongis, foliis paucissimis terminalibus laxiosculè corymbosis, pedicellis calyce longioribus basi bracteolà stipatis, calycis valdè papilloso-hirti lacinis triangulari-lanceolatis acutis,

pelalis Janceolalis longè setaceo-acuminatis eslyce Iriplò longionibus pallidè carneis tristriatis, carpellis .

Hab. In saxosis moniis *Volalaa* suprà *Omalo* In montibus *Sphactotieu* occid. alt. 6000' (Heldr)

Afite *S. hirsuie* a quo differt folns magis planis e sicco tenenonibus majonibus 4-6 hn longis 1 1/8 latis, petalis lodg6 setaceo-acuminatis, cymis pauuifloris 5 *glanduixfenm* Guss ob folia teretta ml' nora sepala petalaque obtusa longias distal

SEDEM BITRIMCXM BOWS

S perenne puiulum, caulibus procuinbeqtibus flbnlhens ramos deasfi fohosos alios Oonferos alios stenles edentibus, foliis semitepibus Jmeanbus glairis obtusis basi xquahbus ramorum sterilion) paolb brevionibus, flonbus pentameris in eymas terminales breviter ramosas laxiusculA dlspositis, pedicellis calyce brevioribus cynraque ramis pubescenti-glandulosis, calycis parn vlsiduh lacmus oblongis obtusis corollà quadruple brevionibus, petalls pallidd roseia viacidulfs lanceolatis iongg altenoato-sabulatis lineft purpureA percureis, anlberia *id* nigrtcantibus, carpellis pubescentibus ovatis ereclo-patulis in cuspldem longiusculum abrupte atenuati^.

Hab. In regione mediã *filympt Bththyrn* ubl legi Boriferum Jul. *UAi*

Sitnillimum habitu *S. palMo* MB. et *S. Stspmteo* ab eia egregiè distinctum radice nee annik nee bienni sed perenni slolones foliosos edenti. Gollocadum ju\i 5 *tenellum* MB affine sed quod differt flonbus confertioribus, pclahs obtusiusculis caljcem partni superan(ibns etc

SEDUH OBIENTALB BOJSS

S. annuom vel bienne jumulum multicaule, caulibus inflorescentttqne plus minùs breviter pubenills, folus primùm rosulatis dein seeds curies floriferos sparsis seniteretibus hnearibus obtusis glabris vel sparsim puberulis, cymis termfnabbus 3-Sfldis ramis abbreviatis, flonbus 6-7 sesailibn* densluscuhs, calycfs ladnlis trianfulari-oratis acuHs, petalis calyce quintupft longioribus carneis lioeà purpureà percursis laneobtls longè setaceo-acuminatis, stamimbus I (Hi, antberls nigricantibus, carpellis «recto*patentibus rectis oblonpis acutis viscldo-puberalia stylo longiusculè roBtratis.

Hab in montanis totius Graeciae¹ in *Hymetto* (Heldr) *Taygeto* (Heldr). Anatolii in montibus *Smyrna* et *Tmolo* (Boiss), rupibus *Anttodiae* in Syria (Boiss), *Macedonia* (Gussone)

S. Hesperanum f. *Buxbaumii* Gussone Spic — *S. Hespericum* var *glandulosa* Roiss et Heldr pi. 15

Species a *S. Hesperanum* cui affinis distinetur foliis crassioribus densioribus, cymis confertioribus, floribus fere duplo majorebus intensius roseis, petalis longe acummatibus, carpellis vix divergentibus nec stellatis patentibus puberulis nec glabris *S. pallidum* MB. differt quoque floribus pallidis, carpellis stellatis patentibus *S. enocarpum* ex icone et descriptione longe differt* glaberrimum, floribus pentameris, sepalis ovatis obtusis brevissimis Icon Buxbaumii conl. 3 tab. 45 fig. 4 ob folia majora carpellaque patentia Biddula non hinc mihi spectare videtur

SEDUH PALHITINOM BOISS

S. annuum praeter inflorescentiam glandulis minimis paucis conspersum glabrum, caulibus namque basi ramosis apice in cymas breves 2-3fidas dilatatis divisis, foliis citius deciduis semiteretibus linearibus obtusis basi aequae sessilibus, floribus sessilibus sepalis cyathis ramos approximatis perianthiis decandris, calycis glaberrimi minimi laciniis breviter ovato-triangularibus acutiusculis margine pallidioribus, petalis calyce sextuplo longioribus cum sicco pallidissime lutescentibus glabris lanceolatis breviter attenuato-cuspidatis dorso carinato-nervosis rubellis, antheris nigricantibus, carpellis anguste oblongo-cylindricis rectis vix divergentibus in rostrum breve attenuate sub lente punctatis glabris

Hab in siccis montibus *Cornell*, in *Libano* supra *Cedros* leg! 1846

Plantula bipolhuans, cyma rarae primae 6-7 lineas deinde post anthesin pollicem fere longi, flores illius *S. Hesperanum* paulo minores affine *S. paphlago* MB. quod differt foliis longioribus, calycis laciniis minoribus abbreviatis acutioribus, petalis pallidius carneis longe acummatibus xpius birtis, carpellis puberulis in rostrum eis squilongum abrupte attenuate *S. littoreum* quoque affine differt foliis multo latioribus, floribus duplo majorebus, sepalis saltem corollam mediam sequantibus. *S. annuum* distinguitur calyce corollam subaequantem etc

GROSSULAJUACEÆ

HIBES MELANANTIIUH Boiss cl Hoh in Kotsch. pi. Pers bor 4846.
(Sect *Ribesta*)

B. Inermc, ramis abbreviate tortuosls, folls ad ramulorum apicem
coofertis parvls pctiolo palulē pubesucti suffullis ulrinquē puberulis
eglandulosis vindibus suborbiculatis ad medium usquē tlobw lobis
breviter et obtusē 3-5denlatis, racenus ad apicem ramulorum sollta-
rlls folia superantibuB temubus laxiuscuks, axi toinentosi, pedicellis
eglandulosis blrsutis calyce paul6 brevionbus basi bracteā oblongā
acuminatā albidā pelluudj glanduloso-cilialâ florem aequantl suffulUs,
flonbus parvis, cal>cis alropurpurei pihs albis hispidi tubo ovato apice
subconslncto, limbi erecto-paluli lacinus o\atis obtusis, petalis orbl-
culalis atro-purpureis minimis, slylo summo apice bifldo, baccâ ..

Hab iu saxosis jugi *Nasseron* montis *Demawond* Kotschy N° 3A9.

Suffrutex ut videtur humills, folia diatnelro *i-'o* lin. lata, raceinl
pollicares vel paul6 longiores, flores e miDimis generis AfUnis A.
Ortentalt fohis majonbus minds incisls glandulosls, bracteis haearibus
flores BUperaotibus, flonbus fla\ovirentibus divereo.

SAXIFILAGACEiE

SA&IFBAU TAYGETBA DOISS. et Ueldr. (Sect. *Hydattca*.)

S. perenms csspitosa rhuomate tenui rufescenti, foltis ferē omnibus
radcalibus peliolo loogo teuui longē et crispē bfrsuto suffultia parvls
margine sub lente birtulis caeterūm glabris berbaceis flrnus Immargl-
natls remfonnl-tiordatiB subrotundis vel transversē lalloribus B-9 cre-
nato-lobatls lobis rotundatis obtusiSBlmis muticiB, scapls nudls vel fo-
liolum uoum alterumvc hneare vel trifldum ferentibus Infernē crispē
hrtifr supernē breviter glandulosls, floribus pedlcello els longion
guffiUIB panculam paucfloram subcorymboam formantibus, bracteis
Unearl-setaceis minimis; calycls glabnuscull lacimis oblongls obtu-
sluscuhs, petalis albis rubro-punctaUs elliptids obtusis calyce tiiplo

loiiigionibus, capsulâ oblonga apice emarginatâ stylis divergeutibus superatâ, seroimbus brevissimis oblongis angulalo-costatis.

Sao; *Olymptca* var. *mtcrophylla* pi Tavg exs. 1845.

Ilab in rupcstribus mucosis umbrosis humidis *Taygetx*-superioris infrâ hives loco *Koumata* dicto. (Ilcldr)

Species a nobis did pro 5 *Olymptcop.* var habita nunc ab eâ'cbaracteribus flrmis etsi lacvibus ul \idetur diversa, folia dunora flrimora nunquam diametro 6-7 hn excedentia et sæpiOs minora crenis 7-9 nee lb-20 rotundaLis nee attenuato-apiculatis donata, pantcula ob pedicellos longiores laxlor, seimna costulata

UMBEUIFEILE

ERYNGIUM UBLDHMCIIH DOISS

E perenne glabernmum pallide virens, collo louge densêque flbnl-lifero, foliis radicaibus longè petiolatis petiolo canahculalo, limbo parvo orbiculato bis tripartito partitionibus lterùm profundè lobatis inter divisiones spinoso-dentatis lacinus lanceolalls in spinam brevem flavidam abeunlibus, folns caulims petiolo brevisslmo dilatn suffultis minds multilldii., cauibus erectis simphcibus apice 4-5 capilula subumbellata bemispxnca fcreniibus, involucn pbyllis capitulo tnp16 longionibus lanceolals dorso cannatis plunnerviis pungentibus Integra vel rands dent* uno dlleruLro>e medium versûs auclls. paleis 6iibulatu spinosis calyces pau!6 superantibus, calycis tubo papilloso launiis a basi oblongâ nervo crasso percursâ subulatis corollam paul6 supcianlibus.

Hab. in monte *Boudnun* Pisidis alt 5000' (Heldr.), monte *Gebel Seheiek* Antilibani alt 7000-9000'. (Boiss.)

E. BtUardten in pi Anat. Heldr non Delar.

Planta 1-4 \fi pcdalis, folia radicalia ambitu sesquipollicaria, petiolufl i-5 poll, longus, involucr1 phylla 4-4 4 ;S poll longa ba&l i lineas laU, habitus omninò *E. Bowrgatt* quod differt foliis minûs multifldis lacinus margine semper mtegerlrmis, tapilulis conicis, paleis calyces duplò superantibuB, tubo calycino minûs densè et ad angulos tantùm papilloso Hanc speciem prius retuleram ad *E. BUlardmi* quod **Ipse** postea ad radices Antilibani propè *Rascheya* legi el quod a nostrft

specie eximiè diflert fohls multb amplioribus sspè ambitu semipeda-
libus lacinifs lobisque lalis, caule 3-4 pedall aptce paniculato-ramoso,
involucn phylls angustionbus cum spinla subnlatis brevlbus alter-
nantibus

In plantis Heldr. in Taygeto anno 1844 lectis pro *E. amethyatino*
var *tenuifoho* Boisa. et Heldr. pone *E. multifidum* Fl. Grac. tab. 859
quod follis lenuins dissectis el prascrlm involucn phylls profundè
pmnabAdis ab *E. amethyatino* specificè dislractum videtur

EBTKCICH PALHITO BOISS et Heldr in pi Anat exs. 1846.

E. perenne glaberrimum pallide vireis, collo radicis nigre densè fi-
bnlloao, folus radicalibus rofcnonbusqup ad apicem petioll canàuculati
palmatim 5-7 partitis partitionibus grammeis anguslè hnearibus lon-
gisaimis planis par.illelè nullioervus rategrte rarius hlnc inde denticu-
culo uno aileron e obsitls, caulims iripartitis petiolo dilatato vaglanb
suffultis lacinus abbrevlahs, summis ad capitulorum basin sills ad TO-
ginam e basi oblongS dentuulatft longissimè acuminatam pungentem
reductls, caule cfmpllcl foliorum radicalium lacimis subbreuiori aptce
6-9 capitula subrotunda prater supremum pedunculatum ad vaginas
supremas subsessilia solitaria vel bina ternave ferentl, Involucri phyl-
hs lanceolalis subcarlnatis albo-ncnosls acuminatR pungentibus utrin-
que versùs basin 1-8 denticulatis capitulo subduplb longlonbus, paleis
IanceoIalo-liDranbus pungentibus nervo ^alldo tnBtruchs cal>ces
ffiquantibus, calycino tubo dcnssissimè albo-i>apilloso laclois oblongis
nervo medio crasso in mucroem breveui pungentem producto

Hab. In andis pinetorum umbrosorum IU faucibus montis *Anema**
Lycaonla?, Aug. fine vix florere incipiebat (Heldreich.j

Caulis sesquipednlis, foliorum radicalium pelloli 4-6 polllcares, lad-
nbe 1/9-4 1/Spudeslongae¹ vlx 2 lineas latx, capitula magnlt avel-
lans Speaes meinorabilis, laanlis longisslmis foliorum species quas-
dam Americanas ejusdem generis referens, *E. ternato* Polret Cretlco
bucusquè malè noto probabiliter afflms.

SISON KXALTATUH BolsS

S. blenne vel perenne glaberrimum canle terett elalissimo ramosis-
siino, ramift plurtes dlchotomls tenmter virgatis. follis petiolo dilaUto
suffultis radicalibus sub antheu exsiccantis blpinnaUsectis partilionbuc

subsessilibus oblongo-lanceolatis lacinis otatis mucronatis, fulnis cau-
 imis mfmombus angustissimis pinoatisectis segmentis setaceo-filifor-
 nibus paucis remotis abbrevialis, foliis supremis ad vaginulam apicè 4-3
 lobos lineares breves fcrentoin reductis, umbellis terminoallibus parvis
 longiuscule pedunculatis sc\radutis radiis msequilibus, involucri quin-
 quephylli foliolis hincanbus aculis brevibus, involucelli pbyllis lanceo-
 lalis acutis immulissimis, pedicellis inaequalibus longioribus ilorem vlx
 Uupl6 superantibus, pcalis albis villa hUk rubrâ tol& longitudine per-
 cursis cm.'irgDalis cum launult mflexa, fructu (junior) o\ato a latere
 compresso vittis latis rubris tolam \alletulam occupantibus percurso,
 stylis atylopodio conico-depressissimo incumbentibus eoq; xqul-

Ilab inter frutices regionis montanæ cabdions Libani ubi legi juxtâ
 palatium principis Drusorum ad *Beledem* prope *Deir el Khamar* et
 non procul a pago *Meih*. PlanU serolina line Julu tanliiin florens.

Caules 5-8 pedales, folia radice quantum e frgmentis exsiccatis
 dijudicare pussura ilhs *Sis amom* mmora, lacinis caulorum magis
 setaceae, umbellarum ladn fa-6 lin. long). Flores et fructus juniores
 omnia *S. amom* sed styli depressi stylopodium aequantes nee erecti
 brevissimi, villae fructu asquilogx nec abbreviate Quamvis character
 viltarum paulò differat omnino *Stsont* adnumerandura videtur

CABUH PEauLAFOuM Boiss (Sect *Packypwt*)

C radice bulboai, foliis radicalibus tripinnatisectis partibus
 longè petiolulalis lacinis linearibus elODgatis acutiusculis, caule a basi
 parçè et divarcallm dlchotomo flexuoso, umbellis 8-12 radiis, involu-
 cellis oligophyllis, umbellisc fructifenc stellato-patenlls pedicellis in-
 crassatis fructu prismatico-cjhndnco subaquiliitls iquHongisque, me-
 nearpiis linearibus margine per totam longitudinem contiguus, carpo-
 phoro tenui, dentibus calycfnis sub marglms subundulat fereobsoleti
 forms fructum tenmantibus, stylopodio cupulari depressissimo fruc-
 tûs apice paulò angustion, stylla stylopodioque aquilongis.

C dxvanoatum Koch. Syn — *Bumtun ferulafottum* Desf. Goroll.
 t. 43.

Ilab. in agris *Dalmatia!* insularum *Gractal Cretal*

Specimina Grotina ab amic nddreich lata me docuerout plantas
 (Jrawas et Dalmaticas eamdera speciem esse et nomen Fontaneslanum

anuectas ide6 servandum esse. Diagnoem dedi ob comparationem cum spec sequentibus

CABUH ULACHYCAPDM Bolss. (Sect. *Pachypus*.)

C. radice bulbosa, foliis radicalibus tripartite partitionibus pinnatipartitis lacinis paucis anguste linearibus obtusis, caule a basi parte et divaricatum dichotomo flexuoso, umbellis 6-8 radiatis, involuellis oligophyllis, umbellae fructiferae¹ stellato-patentis pedicellis parum incrassatis fructu prismatico-cylindrico angustioribus pauloque longioribus, carpophoro tenui, mericarpiis linearibus margine per totam longitudinem contiguis, dentibus raris sub forma calli circularis ad apicem fructus persistentibus, stylopodio cupulari depressissimo bipartito fructu angustiori, stylis stylopodio squilongis

Hab in cultis regionis montanae Anatolis occidentalis, *Mesopotamiae* prope *Derioend*, *Cadmo* supra *Geyra*. f Boiss)

Affine *C. ferulifolia* tamen certe distinctum foliis radicalibus multo minus amplius minusque divisis, pedicellis fructiferis vix incrassatis, mericarpiis fere dimidio brevioribus lineam 1 4; tantum longis, stylopodio bipartite

GARUM CYLINDRICUM BOISS et Hofaen ID Kotschy. pi. Pers bor 1846 (Sect *Pachypus*)

C. radice bulbosa, foliis radicalibus tripartite-pinnatipartitis partitionibus breviter petiolatis segmentis oblongis subpinnatipartitis lobulis 2-3 fideis sublinearibus abbreviatis, caule simpliciter flexuoso simplici vel parte dichotomo, umbellis 6-6 radiatis, involuelli phyllis paucis lanceolatis anguste margatis, umbellae fructiferae stellato-patentis pedicellis parte incrassatis fructu elongato cylindrico prismatico brevioribus angustioribusque, carpophoro tenui, mericarpiis linearibus margine per totam longitudinem inter se contiguis, dentibus calycinis omnino obsolete, stylopodio comae-obtuso fructu angustiori stylis depressissimo-recurvis eo longioribus coronato.

Hab. In monte *Elbrus* prope *Derbent* Kotschy. N» 118.

A. duobus praecedentibus diversum foliorum lacinis abbreviatis lobuliformibus, fructu lineas longo, stylopodio mamilliformi depressissimo comae nee cupulari, stylis elongatis

BUNUM CASSIDM Boiss

B. glaberrimum, radice bulbosâ globosâ, foliis radicalibus ..., caulibus tripartitis partitionibus pinnalipartitis laciniis linearibus elongatis, caule tenui elato junceo angulato-striato dicbotomè ramoso ramis erectis superius flexuosis, umbellis subaequaliter et longè 5radiatis, involucri phyllis 8-10 lineamentis acutis brevissimis, umbellulis etiam fructiferae parvis contractis, pedicellis involuelli phylla lineari-setacea vix superantibus fructibus oblongo a latere compresso aequilongis, petalis albis profunde bilobis, calycibus dentibus obsolete, roericarpiorum jugis parum prominulis, valliculis 2-3 vittatis, stylopodio depressissimo fere obsolete, stylis deflexis fructibus dimidiam longitudinem aequantibus

Dab. In regione montana sylvatica montis *Cassini* Syria borealis ubi legi Jun. 4846

Bipedale tenue, radii umbellae fere pollicares, umbellulis vix majores fructiferis non auctis, fructus vix sesquialter longus A (fere *B. macrum* et *B. montanum* quas ambo extendens neglectis differunt) stylopodio bipartito auriculato, stylis stylopodio vix superantibus. Petalis albis hanc speciem fere ut *B. C. elegantissimum* profunde biloba, pedicelli fructiferi tenuissimi

BUNUM PESTALOZZIAE BOISS.

B. glaberrimum radice bulbosâ caulibus tenuissimis tenuiter striatis teretibus junceis dicbotomè et parè ramosis corymbosè umbellatis, foliis radicalibus... caulibus paucis in laciniis paucis angustè lineares divisis, umbellis pedunculatis gracilibus longiusculis suffultis subaequaliter 5-6 radiatis, involuelli phyllis nullis vel 4-2 minutissimis, involuelli phyllis lanceolatis acutis albo-marginatis pedicellos subaequantibus, umbellulis fructiferis contractis, pedicellis angulosis fructum oblongo-linearem brevem subsquantibus, mericarpiis unis sub* incurvis jugis albidis prominulis, valliculis 3-vittatis, coronulae dentibus calycinorum subnulla, stylopodio bilobo mamillato cincto-depresso fructu subangustioribus stylis deflexis eo aequilongis superato.

Hab. in montibus *Lycaoniae* propè *Elmalu*, legit et mihi comm. clar. Pestalozza

Affine *B. Cuno* sed minus bipedale, caules ramiq. teretibus rigidius striati nee subangulati, petala non profunde biloba, pedicelli

fructiferi angulati, mearpla linearia stylopodio manifesto stylopie brevi superata. *B. maeuca* Boiss. valde affine tamen sat differre videtur involucri phyllia numerosionibus longioribus, stylis longioribus. *B. montanum* Koch eisdem ferè nobis radice pedicellisque crassioribus differt.

BDNIUM GLAUCOCARPUM Boiss

B. glabrum, radice ovata bulbosa basi dense fibrilifera, caule pumilo pane subterranea valde toruloso divaricato et parce raro, foliis radicalibus..., caulis pinnatipartitis lacinis paucis linearibus elongatis, umbellis subsqualiter 6-7 radiatis, involucri phyllis paucis brevissimis demum evadentibus, involucelli phyllis lanceolatis albo-marginatis pedicello triplo brevioribus, umbellae fructiferae pedicellis rigidiusculis inaequalibus extenonibus longioribus fructu ovato a latere compresso subduplo longioribus, mericarplis subincurvis, jagis subangulosis albidis, pericarpio magno glaucescenti ruguloso, valliculis trivittatis, dentibus calycinis coronulam subobsoletam formantibus, stylopio triplo breviter et obtuse mamilliformi fructu dimidio angustiori, stylis deflexis stylopodio duplo longioribus.

Hab inter lapides circa Cedros *Lxham* ubi leg! fructif Jul. 4848.

Affine fl. *mvah* quod differt foliorum teneriorum laciniis uninerviis nee enerviis, involucelli phyllis pedicellos squantibus, fructu magis elongate mearpla in hac specie crassiuscula hanc vix superantia

PDIPINELLA APIIFOLIA Boiss. (Sect. *Tragium*)

P. perennis tota sub lente brevissime ciliolifera-velutina, caule crasso acuto striato ad ramorum et foliorum insertionem nodoso inferne valde folioso supra basin corymboso-ramoso ramis foliosis elongatis, foliis caulibus petiolo piano basi dilatata secus caulem decurrenti sulcatis bipinnatipartitis partilionibus duabus inferioribus petiolatis segmentis oblongis cuneatis plus minus profunde 3-5 fidis lobis ovatis acutiusculis, ramis pinnatipartitis segmentis cuneato-linearibus, involucri involucelli que phyllis 6 linearibus tomentosis hinc flores subaquantibus, umbellis 4-4 radiatis, pedicellis floriferis birsutis flora paulo longioribus, ovario dense niveo-villoso, petalis parvis albis donis puberulis...

Hab. in monte *Kandja Dagh* Assyria Kotschy, N^o 493.

Pedalis, folia formâ segmentorum ea *Apn graveolentts* referentia Bed minora 8-3 pollic. longa, segments 3-4 tin. longa 8-3 lata, radii umbellae pollic. longa aut paulo amplius longi. In *P. Kotsehyana* et *P. an-mtee*, a priori distinctum involuclis nec 3 phyllis flores aequantibus, ovano junctio multo longius albo-illoso, a posteriori cui ovario accedit differt folium incisum, involuclli phyllis non membranaceis.

PIHFIBLLA RBOTEBIANA BQKS. (Sect. *Tragum*.)

P. perennans tota sub lente parassimè pilis brevibus adpressis puberula vel glabrescens, caule elato erecto striato jam imò basi dichotomo ramoso ad dichotomias nodoso, ramis erectis elongatis, foliis inferius petiolo basi in vaginam amplexicaulem nervosam dilatato suffultis pennatisectis 3-ijugis segmentis præter inferius sessilibus ovatis basi obliquis circumcircà crenato-dentatis, foliis superioribus vaginâ basi suffultis pennatisectis segmentis angustatis. In laciniis oblongas lineares profundè fissas, folium summis in laciniis paucas angustè lineares divisas, umbellae ad apicem dichotomiarum tenentur 42-43 radiatis fructiferae patulae nec contractae pedicellisque brevibus, involuclris involucllisque nullis, pedicellis albis dorso lirtulis parvis vix radiantibus ad tertiam partem bilobis cum lacinulâ inflexâ, fructu rufescenti pilis albis brevibus patulis hirsuto ovato a latere compresso apice sub stylopedio attenuato, stylopodis duobus a basi distinctis conicis mericarporum apice latioribus in stylos eis paulo longiores attenuatis, mericarpiis facie commissuralibus birittatis Jugis obsolete, valleculis tenuissimè 3-4 vittatis.

Hab. in monte *Elbrus* Persia borealis propè *Derbent* (Kotschy).

P. peregrina KoUcb. pi. Pers. bor. N^o 405 non L.

Hanc plantam e specimine imperfecto prius pro *P. peregrina* habueram donec specimina meliora e seminibus Persiae orlunda et ab amle. Beuter communicata me docuerunt illam spedem diversissimam. Betera *P. peregrina* est planta biennis nec perennis parçè e¹ corymbosè nec dichotomè elongatam et copiosissimè umbellifera, ejus umbellae sunt ampliores mulliradiatae? et fructiferae contractae nec ut in meâ specie patulae, flores paulo majores, fructus denique subspluericus longè hypopidus minime apice. In collum attenuatus stylopodis tenuissimis fructum mullis angustioribus coronatus.

PIMPINELLA TBIBADUTA BOIM. (Sett. **Tragium.**)

P. perenns, follis omnibus radicalibus adpressè puberulis hiis expansis petiolo rigido patulo basi vaginatis suffulcatis pinnatis Mjugis, segmentis coriaceis ovatis obliquè cuneatis argutè crenatis lateralibus sessilibus indivisis tenninatis pedicellato plus minus profundè trisecto, canaliculis prater vaginas petiolares inferiores folium minimam in tactas linearis-cuneatas distantes pinnatisectum ferentes nudis infemda puberulis exterioribus glabris teretibus jam a basi rigidis et dichotome ramosissimis ramis subdivisatis rigidis, umbellis terminalibus parvis triradiatis umbellulis 6-10 dorsis, pedicellis pubescentibus exterioribus floribus vix sequantibus, petalis albis dorso puberulis emarginato-bilobis cum lactula inflexa, fructu (junferi) ovato breviter tomentoso stylopodio depresso subbilobo stylisque divaricatis longis operato.

Hab. in lapidibus Ubanis in Coesyria inter Amet et Skit et Aehmar. Julio (Boiss.)

Folia radicalia cum petiolo 1-3 poll., segmenta 3-4 lin. longa, caules teretes pedales, rami tenues, umbellarum majorum 6 lin. longi. Affinis P. tragio a qua differt caulibus a basi rigidis et divaricatis ramosis, foliis expansis, umbellis semper 3 radialibus nec 6-7 radiatis multaque minoribus, stylopodio subbilobo.

BvvtBVBini VULCHBLLDH. Boiss. et Heldr. in pi. Anat. 4B46.

B. annuum, caule erecto gracili angulato-striato a basi ramoso, foliis linearibus 6 nervis margine angustè membranaceis aculis inflexis basi attenuatis superioribus basi non latius caulem cingentibus, ramis lenibus erectis plures dichotomis, umbellis terminalibus irregularibus inaequaliter triradialibus, involucris oblongo-linearibus acumine subternariis, involucelli flore subsessilioribus perijlto quinque-ovatis mucronatis quinque-nerviis hyalinis nervis omnibus laminae apice anastomosantibus.

Habit. In nigribus Pampbylæ prope Kourmalu ubi el. Heldr. legit floctenim fine Aprilis 484B.

¹ Purata 4-5 pedalis, folia inferiora 3-4 pollices longa 9 lin. lata, involucrum phylla vix a lin. tonga lineam lata. Yalde affinis B. Aleppico Boiss, quod satis differre videtur involucris perijlto ellipso majoribus flores plures superantibus nervis ad apicem usque perdue-Us nec tantum ramulis lateralibus inter se anastomosantibus.

Buplebium subuniflorum Boiss et Heldr. in pi. Anal, eu 4846

B. annuum glaberrimum, caule striato tereti a basi Irregulariter dichotomo ramosissimo infracto-flexuoso ramis tenuissimis pluriè et dichotomè ramulosis flexuosis ramulis capillaribus flexuoso-recurvis foliolosis paniculam effusissimam formantibus, foliis linearibus quinque-nerviis marine sub lente obsolete denticulate-scabridis apice sensim acuminatis lobis basi attenuatis, ramulorum minimis linearibus ramulo adpressis, umbellulis ad umbellulas solitarias minutissimas 4-3 floras ramulos terminantes radio capillari suffultas reductis, involucri phyllis 3-4 setaceis acutis floribus paulò superantibus, petalis pallidè luteis, pedicellis ovario oblongo acutè jugato dimidiò brevioribus.

Hab. in *Tauro Pamphylico* inter *Maria* et *Adalta* Alt. circ. 3000' in saxosis inter frutices. (Ueldr.)

Planta cunoscissima ferè pedalis, folia inferiora 1-4 in; a poll, longa sesquialteum lata, ramuli superiores abortu plurimum dichotomiarum infracto-flexuosi foliis setaceis 4-5-1 lineam tantum longis obsiti paniculam nebulosam effusam formantes apice tantum prope apicem umbellulas pedunculatas saepius 1-9 floras cum involucrio vix lineam longas ferentes

BUPLEBIUM DICHOTOMUM BOISS

B. annuum caule humilo tenui a basi dichotomè ramosissimo, ramis tenuissimis rigidulis, foliis radicalibus linearibus brevibus, caulibus basi squamam caulem cingentibus margine subrevolutis, omnibus rigidulis pallidè virentibus acutis 6-7 nerviis, umbellulis radialis ternis capillaribus subsqualibus, involucri phyllis ternis setaceis brevibus, involucrio 3-4 nerviis oblongo-lanceolatis acutis flore fructuque brevioribus, floribus luteis, fructu linearibus acutè jugato pedicello duplo longiori, valliculis evittatis.

Hab. in regione raontanajugi *Cassti* Syria Legi Jun. 1846.

Affine *B. turchopodo* cui primò ut variet. retuleram, ab eo differt radice multò magis dichotoma ramosa longè 6-6 pollic. tantum alto, umbellulis 3 nec 4-5 radiatis radibus sequantibus, umbellulis 4-3 floris, involucrio phyllis non striatis acuminatis, pedicello fructura non aequanti.

BOULEYER KOTBGHYANUH Bolss

B. perenne glaberrimum basi suffruticosum multicaule glaucum, caulibus virgatis erectis minutissimis subangulatis, foliis opacis glaucis rigidis lanceolato-linearibus quinque-nerviis basi attenuatis subtus subcarinatis aculis superioribus brevissimis umbellulis lateribus et terminalibus inaequaliter 3-irradiatis, involucri involucrique phyllis minutis nervis lanceolatis aculis, floribus luteis, pedicellis fructiferis paleis bifloris. Fructu prismatico basi subobtusis sesquialongioribus, jugis filiformibus vix prominulis, valliculis angustis et tatis.

Hab. in regione inferiori montium *Elbrus* et *Demavand* Persiae borealis Kotschy N° 627 et 649 sub *B. Sibthorpmno*.

Usc species valde affinis est *B. Sehtmpen* Bolss. in quo folia quoque glauca quinque-nerviaque sunt sed quod differt ramis patentibus, pedicellis floriferis flore brevioribus nec eo duplo longioribus, fructiferis contractis fructu squamatis, mericarpiis glaucis, valliculis exterioribus 6 vittatis — *B. Sibthorputnum* Sm. est species affinis *B. Baldwin*, diversissima foliis elongatis trinerviis, umbellis 5 radiatis, umbellulis pluri-floris et utrinque fructu elliptico-oblongo. *B. Sibthorjnanum* DC. Prodr. e Persia boreali est *B. exaltatum* var. foliis linearibus a *B. Kotsehyano* cui accedit fructu acuto jugato pedicello eobreviter suffulto siatim digressum

SEBBLI CORYKBOSCH BOISS et Heldr (Sect. *Hippomaralhroides*)

& bienne vel perenne glauca tota brevissime tomentum, foliis tripinnatisectis laciniis linearibus acutis radicalibus petiolo piano sessilibus ambitu elongato-oblongis caulibus e vagina brevi ovalo-oblonga sessilibus multinerviis pinnatis vel bipinnatisectis laciniis abbreviatis, caule striato simpliciter umbellam amplam centram subsessilem multiradiatam lateralesque longe pedunculatas corymbosas edenti, involucris nullis vel oligophyllis, umbellulis hemisphaericis densis, involucelliphyllis oblongo-linearibus lanceolatis albomarginatis umbellulis brevioribus basi in discum expansum concretis, fructibus pinnatis breviter tomentellis.

Hab. in Ossuris rupium regionum plinifera montis *Anemas* Lycaonis supra *Tourtohal* alt. 4000'. Aug. (Heldr)

5 *gummiferum* pi, Anatol. ess. Don Sm.

Platyla speciosa pedalis vel Besquioides, folia ea *S. gwanmtyri* vel *nguh* referentia sed magis elongate, umbella centralis vagula summa pinnatisectis stepè involucrata 40-60 radiata, umbellate piso dupli majores. Dane plantam habueramus pro *S. gwanmtyri* quod differit involucri pbyllis augustè imbricatis acuminatis umbellulà longioribus. *S. riguiwn* differt foliis glabris, caule paniculato-corymboso, umbellulà triplà minoribus etc.

SESEM AADICOSU BOISS. et Hohen. in pi. Kotsch. Pera. bor. 4846.

S. perenne, rhizomate crasso lignoso abbreviato ramoso, canaliculis duris virgatis erectis elatis subtiliter striatis teretibus remotè foliosis simplicibus, foliis radicalibus petiolo longo basi plumulo superne subcanaliculato suffulcatis pinnatisectis 1-2 raris. Jugis segmentis sessilibus coriaceis nilidis pallidè virentibus ovatis basi breviter cuneatis profundè iripartitis partibus acutè 2-3 lobis segmento terminali petiolato basi truncato, foliorum caulinarum sessilium partibus indivisis, folia summa ad folium 1-3 partitum reductis, caule praeter umbellam terminalem superne ramos brevissimos 4-3 umbellulà edenti, umbellis lateralibus 5-6 radialibus terminalibus 8-4 radiata radiis omnibus sub lente brevissime et parce tomentellia, involucri pbyllis 8-10 imbricatis brevibus involucelli linearibus pedicellos subaequantibus, petalis minimis tomentosis albidis apice induratis dorso subcanaliculatis, fructu pedicello squilongo ovato a latere subcompresso tomentello, jugis vix distinctis, valleculis late univittatis, commissura bifurcata, dentibus calycinis triangularibus minimis stylopodio breviter oonico apice bilobo in stylos deflexos eo dupli longiore abeoti.

Hab. in rupibus ad cataractas *Ser. Ah. Scher.* dictas prope *Pasigala* Kolsch. N° 148.

Caules bipedales, folia radicalia cum petiolo semipedalia segmentibus 5-7 lineas longis, umbella terminalis radii tantum 6-9 lin. long). Valdè affinis *S. Oilmen* Boiss. quod ante oculos non amplius habeo et quod e descriptione differt foliorum segmentis basi petiolulatis truncatis. Usque, umbellulà pauciradus, stylopodio depresso stylis rectis coronato.

GRYNOSGIADIUM Boiss. et Heldr.

Galycis dentes obsoleti. Petala asqualia alba oblonga dorso reflexa.

viUata aplice emarginata can lacinulâ ioflexft obtusâ canaliculate. Fructus elUpUcus a dorso subcompressus. Stylopodium breviter concum apice fractôs angustius bipartitum In stylos deflexos atlenaalum. Pericarpium tenuissimum. Mericarpiâ dono subconvexa latere fqterion plana jugis qmque aBquldistantibus spongiosfs obtu&is lateralibus marginandbus craBsionibus, valleculis 3-4 vittatla, commlssurâ 6-8 ||l-latft vltlia magols. Garpopborum flifonne ad basin trlpartitum. Albumen anllc6 plaDum. — Herba Anatolica alpna babltu *Heraolri pwnili*.

Genus inter *Seselineas* el *Peucedaneas* subdublum; fructus juniores teretfs sunt, maluri autera a dono pobns compress) videntur. *Peucedanets* quoque mellts ob fructum multivittatam Jugaque lateralia paul& crassiora adnuraerandum est.

CBEHOSGIADIDH suPOLum Bolss. et Heldr. in pi. Anal. ess. 4846.

G. glabrum perenoe, radlice subfusiformi simpllici, caullbus aacendentibus aogulato-sulcais infernè follosia parcêqae ramosis, follis 1D-ferioribus petiolo piano brevi basi 1 n vaginam membrauaceam ampleileaniam dlatato suffultla pinnatiseclis *i-t* jugis segmentis sessilibus vel petiolulatis oblongis cunealis superaè acutè crenato-dentatis superiori aspè trifido, follis dlcbotomiarum ad vaguam angustam liDearem scumlnatam redoclis, umbellia paacis terminallibus longè peduculatis insquahbus eximolucraUB qunqueradiatis fructiferis coniractis, Involucelli pbyllis 4-3pedicellos ID»quales subaquanubus, fructu pedicellum erectum stricturo aequauti, stylis deQexis stjlopedio longioribus

Hab. In herbis bumldis ad scatungines montis *Antmtn* Lycaonis nit. 6000-6000' ubi floriferum fructiferumque roedio Aug. legit cl. Heldr.

FoUa cum petiolo vix 1 poll, longa, segmenta 5-6 lln. longa 3-4 lala, uaules ||%-| pedales Infernè bis vel semel dlcbotomi, urabellae pedunculo |-3 poDfcari suffults diametro vix pollicares, floras magolitudlnis *P. taxifpagai*, mericarpiâ drciter 3 lln. longa 4 llineam lata.

KuroiïAHTnAP STBIACA Bolss.

K. perennis glaberrinu pallidè virens, fohla teneris radcallibus numerosis petiolo ñaql in squamam ovatam subfungosam dlatato suffulds ambliD trlaagularibus subternito-blplnnatsecUs segmentis sessilibus oyatis basi sspè cuneatis circumdrçâ erabrè et obtusè serralls indl-

VISIS vel irregulariter 5 vel 3 fidis parlitivae summo saepius tripartito, caule erecto striato a basi ramosissimo subflexuoso ramis ramisque patulis, foliis caulinis inferioribus breviter petiolatis minus divisis segmentis angustioribus cuneatis aculis acutius serratis, superioribus ad vaginam oblongo-linearem apice in lacinas paucas angustè hinc canaliculatas multifidas reductis, umbellis subsquarifer 45-25 radiatis breviter pedunculatis, involucri pedicellis seicis umbellae in plò brevibus involucri triangulatis aculis brevissimis, pedicellis Don subquadratis, pedicellis flavo-virentibus, fructu...

Hab. in fossis rupium calcareorum ponè urbera *Antutium* siforum medio JUDIO vix florere incipiens (Boiss.)

Bipedalis, caulis illo *R. Suntla* multo ramosior raris patentibus, folia non ut in *|||i* firma sed tenera segmentis minoribus 1/2 lin. longis 3-6 latis, umbellae minores diametro sesquipedales, floris subminores flavo-virentes nee aurantiaci, involucri triangulata nee longè lineata. Quamvis fructum non viderim, de genere ob petalorum, ovum junctis habitibus, et foliorum similitudinem non dubito.

ANETHUM CUIYSEUH Boiss. et Heldr. In pi Anat. exs 4846.

A glabrum, caule nudiusculo crasso sulcato acutè angustato superne stantè ramosissimo ramis elongatis subangulatis tenuibus junceis, foliis inferioribus.. caulinis petiolo longè complanato convoluto suffultis brevibus bipinnatisectis lacinis hinc elongatis crassiusculis aculis apice aciculato-scabris, foliis surarum ad vaginam linearem 3-4 fidas vel integram reductis, umbellis multiradiatis radiis tenuibus flavescens fructifera non incrassatis nodo in disco subincrassato, involucri nullo involucri phyllis 5 linearibus lanceolatis aculis pedicello setaceo paulò brevibus, petalis intense luteis, stylis recurvo-deflexis stylopodio depresso fructu angustiori multo longioribus, fructu pedicello paulò breviori, mericarpis ellipticis, jugis dorsalibus ferè obsoletis lateralibus in marginem album diametro seminis dimidiis angustiore abeuntes, vultus in valliculis soctatis latis commissuralibus binis.

Vab. in humilionibus *Town Pamphylu** inter *Maria* et *Adalia* alt. 4000'. Flor. Julio. (Heldr.)

Herba perennis? 4-5 pedalis, umbellae fructifera diametro 5-a pedales, quamvis fructus non plane maturos viderim de genere dubito

plants non dubuo; ab *Anethi* ipedebna hucneqñe noils dlsttaettalma
oat caule elatissimc? acutè Holcato, Involucello non natio, foNorum fei*
eodem modo dlaaectorum lachrile dnplb laUoribna acoleolatts.Fractus
eo *A. graveolmis* panlo mlaor eat minta graveotena.

Jomumu DICHOTOSA DC. non. BoUs. Ann ic. Nat.

J. foUb Inferiorlbuft blplnnaUsectla aegmenti& dlstantlbiu aubbVngts
in lacinlas late linearHanceolaias planaa badconfluenta parUUST am-
ballia brevlter radbib fructiferis non eontraetia, merlcaipUa tf4tis
areâ centrall a margine (lungoso albo distioctâ, eommlsBura planlns-
cti& perlcarpito non fungoao lineâ tenuiaalmâ elevatt ad medlam partem
percuno.

Hab. In *Libano* Lablll. In herb. DC., Antnibanl radices ad *Buehaya*
et Gnaw. Legi flor. et froct. sat. 1816

JOBHINIA vmrooaA Bobu

J. folla Inferloribos blplnmtlBectis aegmentla remouawuiu in raci-
ntaB angnitt Unearea margine anbrevolotaB basl H% confloentes par-
Uta, nmbenia longlnacuiè ndlatis fracUferis contractta, merioarplis
oHongls latere extprlorl convexls ftingoala areâ centrall Indtatlnca,
conuntoanra concave perioarplo fungoso Hneâ elevatâ anlcatt ad me-
dUffi partem percarso, canall Inanl Inter albumen et commissnram
medlam alto.

J. diehotoma Boisa. Ann. ac. Nat. non DC.

tiabi'ln montibus Lyduz. (Bolaa.)

Ambas apedes valdè afflnea pro nnâ eâdemque prlôa baboeram sed
cftm priorb speefanlna fructUera In toco natal leglaaem earn a apede
AUtoUcâ dWenam esae atatim comperl

~~Jobinia~~

~~Jobinia?~~ *JOBHINIA* Bolaa.

AeWHw.imlUnUbiM anlbeaoa tempore praè destructH, oollbos nn-
41B uMa eUtts virgaflg durils vlridUms teretUma airtatla anpernè alteraè
ramoalaaliDle ramla atrlqOa erecto-patolta, ngtala caoJtam et ramornm
Hnearibos aeomlnatta denmm deddlna, wbeBls longè peduncnlats
vaUâ inequalfter 7*8 ndlatia, Ittwrfocro nufi^inTolaceHi phytlb 5-1
~~linguibus acuminatis submembranaceis peltatis subsequentibus, pe-~~

tails Intels látè et Indistinct* vlttaUs, stylopodlo depress* conlco u r .
gine lobulato stylis detidafs, fructa...

Hab. ad margines agrornm Blerltam in AntlHbano Inter JhueJhsya
et radices *Bermonu*. Fine JnHl vix florere Inclplebat. (Boiss.)

Cadies 4-6 pedales, umbella radii gapé faipollcares, ñabltn quodam-
modo *FarUeuli piptriti* sed elatior et ramosior. AfBnts *J. teopaHm*
Bolss. Diagn. 7 cul quoque caules vtrgatl apbylli Bed qua bsbet ran-
bellas parcitus brevltsque radlatas, stylos peralstentes, etc

OBMOSOLBNA PIBIDIOA Bpos, et Heldr.

0. perennii radlce cylladrica subuniclpitl, follis omnlbuB radicalbm
glaucesceDtibus carnoBolis petlolo longo sufflitts ambtu oblongi tri-
sectis vel piDoatlsectifl bljugia segmeotls cuneads profiindè et obtusè
Hoarl-lobalU lalerallbus sesallbuB terminall petlolato, caullbus pitBtor
vagas 4-9 nudia basi incurvis ascendentlbas parçe et dicbotomè w-
mosls folia multb superantibus, nmbeilis terminalibus Inaeqaalter ~~0-4~~
radiatls, involucris invoUcellHsque nullis, petalis luteis glabris, ~~pedi-~~
cellis fructlfeis tennislmU fhictu aequllongis, stylopodio conlco-de-
presso nmrglne lobulato stylis defleils el ssqnilongls superato, mtri-
carpiis elhptlcls glabris, Jugls trlbus intenonbus, fUiformlbin vtefrfr-
minuliB laterahbus In margioem albfdum vallecobD asqailatnm confluen-
tibns, valteculs trlvlttatis, commissara sexvlttata vlttls anbflezflosift.

Hab. Inter lapides In reglone alpina montlB *Stmro*\$ PWdte prbpè
hbarta alt. 6500' (Heldrelcb).

Yaldè afDms 0. *Crettca* et ei quoad folia almillma aatia Utaen spe-
dfleè differre videtnr eaulibus procerioribus, pedtoelHs mdlo modo
incnssails fructu B3qallongiB; fructàs omnino matnrl «drte DOD noil
0. *Crettpa* aha foraa prsbeuat dlscrimtna. — Cbaracterem refor-
matum *Ormotoltnim* dabo in floruia CreUcà a me et amUda. Heldfetah
mox f dendfi.

pKCCEDAinJH MBIFOLnmi BoiBS.

P. caule crasso strlato aimpllel elato M O M supernè BubvertteUalto
elongato-paniculato, foUa ampills ambtu obloDgls qniDqales.fdeoalfc-
seotla suprà decomposite bcmUs angoatè Uneart-subutatlB abbriflllh
eoBlerltslmtto, COSQB onraium ordlnuni basi nndls ~~secundaria-patto-~~
Jullisque densè varfeatii, ndlcalibUB pattolo toofo ~~caulibus, cupillis~~

nmll6, ateortbai ad apicuo vagina ample onto fitveaanttM~~idate~~
 «oruoBB ob margtoes Inter M longè coalitog urceolats sesBULbns, onr
 bfWa ad ramonim aplcem 3-4 nls central* sobaesslll, taTolucro noHo,
 InTolucdll phyllis ad callos triangulares oculo annato tanttan pewpt-
 enos reductis, denUbus calyclnls euhobsoletta, petalls flavls dono late
 BOTTOMS apice whwitarajiMttfo cum i«««mi& tnfl^t eompUcatâ Unearl—
 laBoeolatâ, atylopodlo cupulari, styJis defleiiia slylopodio triple longio-
 ribus, fructu matnro...

Hab. in Colâ regione Intermedll. et saperlori montls Ca»m^â usquè ad
 cacmnen ubi florlforum leg! Jnnio 4846.

Dorema metfoltum Fend. PugUL. — *Elaoohytru mnfitUa* Fend, tn
 Biaa. Belsen App. pag. 958.

r Planta Bulcberrima 4-5 pedalis, folia radlcalla pedem ei ampllus
 longi 41 % ped. lata, vagina caulina aape 3-4 poll, long© dlametro ie»-
 4Dpo)Uoarea, panclula pedem et ampHns longa. Affilns P. *Orintali*
Boiss. Ann. quod diflert canle pareâ ramoso, fblorum **lactnalls longio-**
 rribus, invQucelH pbyUls longloribus, stylla rtylopodlo pmU» loDglo-
 ifbwetc.

REQUERENDUM PASTINACAE-FOLIUM Boisa. et Hoben. in Kotsch. pi.
Pers. bor. 4848.

Pi glaberrlmm, canle oraaso tentl Btrlato dnro medullâ brcto eltto
 nupBrnè longè bnèqne paniculalo, folttis ndlcaUbna peUolo crawo ri-
 gldo sulcato-strlato superaè canalicolato soffliltis ambltu lanceokUla
 pumatimcUs 6-7Jugls, segmentls oblonglB laferloribus pedicellate
 <B^B-parUd8 partttione infedori nmltb minor! coBto media contlgni
 jegmntiB mperiorUMH basi traneatlB seBslibin supremis basl angostè
 ^HDRmtl mbeontuenUbuB omnlbaB gnoasè et aentè dentato-lobaUa,
 Aaâta.Bia1inia.44 BeatUibna pinnafu muUk mlnorlbua, umbeUlt aecus
 ramos panclulie elongatos alternatm dlsposltis 6-7 ndiatb tenntntU
 mtjorl longiòs pedonculatâ, involucn involucellknie pbylllB 6-7 ob-
 longta acndlB albo-membranaceis bbee floras subnquimlMM, nmbel-
 llB parrla, florlboa seuUlbus parrrta, petalto sordldè BIUIUS ©quall-
 A 15 U ~~angla~~nerro medlo vfreflcenti pereumlB, «ploe angobtè emargl-
~~ntis~~ ~~cau: lnducâ. lnducâ~~ pUcatâ, peakellb-rtx toonwalls rlgldulis
~~majoribus fructu oblongo-ci~~ ninaeentl a^ttUoflga, atylopodio brafter
~~oblongo-marginè~~ lobtliio atyUs-deleria ea dapM^tongiorbuB coronate,
~~lnterptla dorso convexo; faga 8. lnterptla albidis partum promi-~~

nulls Jaterallbus margin! Don Incraaulo lalleculia oquilato conttgoto, vallecubs latè unMttalia, cominissurâ concavûisculâ UvitUlâ paplllosl sub Unefl elevatâ media canal! Inani percunâ.

Hab. in monto *Elbrus* propè *Berbend* Kotschy N» 417.

Caulls 3-4 pedaliB basi digito minore vlx teouior, folia cum petlolo sspè pedalla J-3 poll, lata ea *Pattxnaca* vel *Malabatta* ap. referenda, Begmenla 4 4;I poll, longa 9-41 lin. lata, radii umbella majoris polll-carea, mericarpia s 4;4hn. longa 4 4/4 lata. Fructu et Involucelte membranaceis *P. Awhen* et *membranacao* afilnls, ab ela folds etBto-turt dlversiaslmum

OPOPANAX PEHSICUM Boisa. et Beldr. in Kotch. pi. Pera. exs. 4 844.

0. folls radlcallbus bipianatlsecils segmeDiis ovalo-oblongis aogustè albomargnatls acutè creoulatis alternla vel oppositls basi obllquis BOB-sUlbos latere extenon decurrenbbua gbbrls, petiolia petiolultaqye piliB paplllanbus apice stellatis obsiba caulins ad vaginas breves apce 9-4 foliola oblonga acutè dentata basi attenuata ferentes redoctis, oanle, elalo Btriato ramoso ramls longtasimla, petalia auraniiacls, involuceDt pbyllis laoeolatis acutls albo-membranaceiB, atylopodlo depresao, fructu latfori margine creoulato styliia rectia eo dinddi6 brevloribaB Buperato, fructu...

Hab. In monte *Elbrus* propè pagum *Pamgala* Kotsch. N° 305.

0. *Onmtali* valde affline Bed follorum lumbob glaberrlmua, planta ut vldetur multò amplior, raml umbellifert In meo specimlne pedales et ultrâ, imolnceUa albooiembranacea nee berbaoea, stjli breve* eretnl nee deflexi atylopodlo longlorea. Fructus forean alia suppeditabl diao crlmina.

FKRULAGO GuneuLATA Guas. Syn. PL Sle. exel. synoo. uovBotltM Ann. sc Nat.

F. glabemma, folliu radicalibua ainptigslmiB circuinscriptiODE tifi gulanbus suprâdecompositla ladollis decussaUi planis acutto *tofim*, fllicronuLaUs, foliis caulins Buperloribusad vaginas reductla, caol» Mnl rati ad ramflcatioaes ovato-Inflato, involucrL involucem«QA pbsHU' ovato-lanceolatis brevibus, petalia palUde flavte, pednoctife frupOiWift non increajatls oracto-patulte fructu ohloqpMjlUotlco paal^ JbmMM bus, Btyliia dlvergeotUHU Btylopodio oupatarl pne>.lopgoittpm Jogfe

omnlbuTioorttcosls atdtts fiingosta triboainterioribuaacatb'tater'M
apprbtiffiatlB eileriorlhus In marglnem cortlcoflumJuglB tnterioribns
snbduplò latlorem abentlbn.

Bab. ID *Sunlid et Haiti meridional*^ (GDBS. Ten.)

-frñotus matDri bujns spedel ab amlc. Leresche nper commnclat
detaonstraverunt hanc a plantft Orientall qoant el cum plurtbos andorl-
buà consociaveram dlverslssimam ease. Hsec ñabet folia mlnora mnlt
ngta ghmcà, Cores aunntiacos, pedicdlos fructlferoa BteUaUm paten-
tes fructu ovato longiores, juga dorsalla anguaU et tenubibni alalt et
flic mnncupanda est.

FULLAGO RODOSA Bolss.

Hab. In *Attica* (Sprun. Bolss), radidbiu *Olympt Theuait* (Aucher),
VMD;(tourD. Heldr.)

F. *gènioulato* Bolss. Ann. Sc. Nat. non Guss.—*Peuctdanwn nodo-*
sum L. — P. *Cretioum* DC — Baub. Hist. III. p. 58 JcJ VeroshnD-
Umò hijc special quoque *Eammatocaulia Cretusa* Tausch In Flor. 4834
L. p. 1 & jtY. quaaivlBln desciiptlone vallecidse 4 vlttats commissuraque
lvittata erronefe dksantnr.

'fconfer dlagnosln In Ann. BC. Nat. loc.dt.

, **FULLAGO** PAVcaniDMTA Bolss. et Heldr. ID pi. Anat. BIS. 1846.

' F. glaberrima glaucescens, caule lereli laevl elato panl6 suprà basin
BBbaiohotomè nmosissimo ad dlchotouuas pneserttm Inferiores sub-
iDcrassato folUs radleallboB ambitu ovatls supradecompositlB petlolo
natulo costlsqae longè denudatta dtarlcatis laclnds subdecusBaliB ob-
lftBgD^tlearlbuà plants ligldulis mucronulatls partum confertis, caoll-
nto prater lnflma ad Tagmam llinearem reduct&s, nmbellB Jonge pe-
dunculatla 3-6 radiatla. involucrl involucellique phylla oblongta acu-
minatla tremulmfl, petallB luteis, pedicella frucUferis contracdB non
incommoda > rnaa (Junior!) ovato ecostato srflopodlo patellari cremi-
tttda^9 liqnei longls recUs superalo.

~~U'rtpe~~ U'rtpestribirt eaUdls proge *BounartxtoM* pror. *Kanman* In
Agrostica. (Heldr.)

^fillbrttfet 'follis aflBta *F. gmkndata*, ***** * *lophoptent* que
o t M dbtèrvnt ndHá mhñeDtfani *muamt^uflttu*; prior l&mpcr ~~cu-~~

libus gemculatib, aeeunda et tertia fructu etiam Jnoion evidemer margioato; radii umbellae sspè j-a 4/2 pollicareB.

FUDLAGO Srauca Boiss.

F. glabra caule elalo tereti duro tenueslmè atnato recto nudo tofernè nmplici supernè corymbosè panicidato foliis omnibus radicalibus pallidis triplicatis ambliu oblonga petiolo supernè piano Bufultis laciniis linearibus vel oblongo-linearibus mucronatis sublimis margine subrevolutis nervo elevato percursis rigidulis sub lente fade superior! eximie punctulatis et marginem versus scabrido-denticulatis, canaliculis ad vaginam brevissimam teretibus berbericam reductis, umbellis 9-44 radiatis, involucri phyllis circ. 5 triangulatis acuminatis brevissimis angustissimis albomargiatis Involucellis lanceolatis acuminatis, petalis intensè luteis, pedicellis erectis non incrassatis fructa onto dupli longioribus, stylopodio patellari margine lobulato stylis deflexis eo longioribus superato, Jugis lateralis in marginem album alatum crassiusculum valleculis sublatis abentibus interloribus tribus corticosis obtusis angustioribus vittis utrinque copiosissimis.

Hab. in fissuris rupium montium pone *Antiochum* aitorum, prope *Suadu* ad oetium *Orontis* et in Antilibano inter *Damasoum* et *Btryihum*. Lfgi Jun.

Planta 3-4 pedalis, folia omnino *F. Aueheri* vel *lophoptera*; a priori et ab omnibus affinis distincta Jugis fructibus interloribus non difformibus vel obsoletis sed ut in *F. oxypurpurea* et *aulcata* etsi minus manifestè tamen alatis corticosis.

FUDLAGO CASSIA Bolss.

F. caule nudo tereti tenulter stnato supernè rarioBO-corymbosè, foliis radicalibus ambliu ovato-oblongis triplicatis petiolo supernè piano suffultis laciniis linearibus setaceis brevissimis mneronatis Bubverticillatis secus costas terlii ordinis confertis, foliis caulnibus id vaginam cucullatam lanceolatam reductis, umbellis 6-7 ndite, involucri Involucellique phyllis 5-6 triangulatis lanceolatis brevissimis, patellis (ructiferis subincrassatis fructo oblongo aequalibus, stylopodio patellari depresso stylis eo longioribus superato, Jugis lateralis in marginem planum valleculis subaqualibus interloribus tribus corticosis obtusis utrinque copiosissimis.

Hab. In umbrosis ad radices montis GMI in latere meridionali *Lao-*
diotam versus Junco in fructifera. (Boiss.)

Planta dr. Lipedalis; caule in genera buni, laciniis angustis
follorum, pedicellis brevissimis incrassatis formique fructus
nide affinis *F. / nmtla* Hsc tamen a *F. Cossta* longè differt foliis
amblylatis divisionibus lateralibus brevissimis loasibus
Dec longè pedunculata, involucri involucellique pbyllis
iDearibus. *F. asparagifolia* differt foliis amplissimis
valde decompositis laciniis quoque trifloratis
sed elongatis et caule elato umbellisque multilatis.

FOULAGO FBIIDA Boiss.

F. caule erecto subangulato atriato asperato superne ramosos
valde elongatos rectos apice 3-umbellatos gerentes edentis, foliis
~~q~~ amblylatis ovatis superdecompositis, petiolis costoque asperis
vejlis brevis, laciniis nudi ordinibus brevissimis papillari-
rigidis junculis sulcatis lobis brevissimis manibus
nradatos confertissimos inter se contiguos floris, foliis
CBOHDIB Inperiortibus ad petiolam basi nodatè rigidè
pinnatis 3-vel paucifloris, involucri involucellique
pbyllis 6-6 Mangatut-lanceolatis acuminatis
Balbomargiatis, pedicellis iwulsi tonentibus,
petalis luteis tomentosis, fructu...

Bab. In regionibus summis *Libani* et montis *Gebel a Scheik* (*Ear-*
man) Antiliban alt. 8000-9000'. Legit medlo Jallo petalis
vta explicatis.

F. trachycarpa js. *Libanotxa* Boiss. Aon. Se. Nat.

A. *F. traohymra* pro qua e specimine valde incomplete
Ancheriano oDm habueram egregie differt caule parcoso
et elongato ramoso nee verde utat in eorymbis, foliorum
ladalis abbreviatis, «WIODe nudis et lauri eic.

~~SMOTA~~ SMOTA Boiss.

ni'v'ojB elato fiasco tared trifloris striato gupene
pudulato-radiato ex eodem puncto upbellam
larflem-dnasque umbellatam
faptipui pauibus pedunculatis edentibus
Wlto omnibus radiatis
longis In ngram longè dilatatis
suffragatis
tnangdari viflB lenatt* sDpradeoDpotWi, m-
mentis parvis oblongis in lobulis oblongos reticulatos
margines sub-

revolutos apice rotundatos mucronulatos pinDaUsectis, vāgiols cauliols teneru albdls cymbifonnibus oblongo-acumroats supremis ad tricholomus summas binis In unam biacuminatam concrete, involucriB InvolucelUsque niriis, umbdlis breviusciilè 45-soradlatls, petalls Intend luteis, pedunculis non Incrassatis fructu caesio ||liptlco dlmid!6 brevloribus, stylls deflexls stylopodlo piano paulb longtoribus, jng)p laterinribm fillformibus tenuibus extenoribus la marginem albidimn valleculls iequllatum abeuntibus, valleculls trlvittatis, comnussara,* vittatâ

Hab. in regione catldA maritimfl *Palmttna* et *Pkamicun*. Legl ad margines plantiel EsdraSlon versos *Krtfa*, supri urbem *Tnpdt* loco fa *Deroiakerie* dlcto ad muros Fl. Malo. Fruct. Junii fine.

Pulcra speeles follis cum petolo sapfi blpedallbus laciolarum formâ *Anthrtd* speciem rferentibos. Caulls 4-5 pedalls Ulo *F. communit* mnlb tenuior, radii umbflhe fertills pollicem tantkm longl, merlcaifia 5 ho circ. longa *t* \fft lata. Affiais formâ follorutn soli *F. Tingitop** quus longt differ! foliis virldibus lucidis, laciunlis majoribus, merkarplis dupUt maJoribuB, stylopodio brevltter conico, etc.

FBBULA SINAICA Bofts

F. caule elato crasso teretl rubello tenuiler strialo supernè panics^ lato-ramoso ramis aplice sspiûs umbellam fertilem ampliolem duasqûe masculas brevfts pedunculatas subglobosas ferentibus, folUs *aSbl&th*-giauescentibus glabrls, radicalibus petiolo longo longô In vaglnâm caoallculatam basi dUatato suffuitls ambltu ovatis ternatlm BupradecoposlllB, ladnlls planls linearibus indfvisls vel decassalim 3-6 fldls obtusis macroaulatlsa costls ultimi ordinia non dislraguendls, follis canlinis supeiioribiiB vaginâ lanceolatâ loagisslmâ canallculaiâ suffldtta parvis decompodUs, vaglnls floralibus ad umbeilaram basin parybjai^ ceolato linearibus acumnalls vbx imâ bad connatls, involucrla Invjojj^ celllsque nullis, nmbelUs breviuscule 4B-aondutis, petal» ipenja b^ teis Iractu...

Bab. ad latos bonale montls *Sla. Gathoima* Anbls petres in,pra^; ruptis fine Mali florifera Schünper No 449.

Species quoad fructum nondòm sat nota sed formft foliorum a^ta^, fliboa mlhl notis dlsdncta ad *F. erubetantem* aocedepa qna? ~~...~~ lacfnlls multb mlnoribus aliisque notls.

HEBACLEUM GLABBESCENS Boiss. et Hoch. In Kot. pi. Pen. bor. 1846.

H. foliis tenens supra glaberrimis subtus glaucescentibus sub lente tenutosline puberulis ad nervos et nervos minute asperis pinnatisectis faijugis, segmentis lateralibus inferioribus petiolo profunde tripartitis f. intermediis sessilibus terminali petiolo profunde tripartite partitionibus omnibus oblongis elongatis In laciniis grossas triangulari-elongatas acuminato-lobatas divisas, umbellis amplissimis, radiis glabris, pedunculis glabris vel asperis, pelalis exterioribus amplissime radialis bipartitis lacinis oblongo-linearibus, mericarpiis obovato-ellipticis ad discum setis papillaribus elongatis sparsis obscuris margine apicem versus aculeolatis, vitis dorsibus 3;4 pericarpium quantibus subaequilongis superne tenuissimis basi late saccaloclavatis, commissuralibus binis clavatis pericarpium dimidiam longitudinem vix quantibus divergentibus.

Hab. In humidis faucibus montis *Elbnu* Kotsch. N° 301. Incotae caules Juniores comedunt et seminibus ut condimento utuntur.

Radii umbellae 6-8 pollicares, petala radiata 4 lin. longa, mericarpiis 0 4 siliculis longa 3 4;4 lata, vix eis sp. affinis multo latius saecatae basi dimidiam lineam latas. Affine *II traehyloma* V. et H. quod e descriptione differt foliis nunc acabriusculis, fructu auborbiculato aetoso et piloso oec aspero. *H. pubescent* HB. discedit caulibus petioloque hirsutis, foliorum lobis minus acuminatis etc. *E. Perneum* tandem e descriptione inter alios characteres differt vitis commissure subparallelis.

HEBACLEUM ANISACTIS Boiss. et Hoch. in Kotsch. pi. Pers. bor. e u. 4846.

H. caule tenui striato-sulcato erecto parvis et subdichotome ramoso glabro, radice cohaerente densè fibroso, foliis sub lente parvis papilloso-puberulis radicalibus petiolo elongate caulinis petiolo brevi basi vaginanti multilobis amplexu lanoeolatis pinnatisectis 3-4-jugis, jugis praeferentibus inferioribus inter se valde remotis, segmentis ovatis profunde 3-partitis summis indivisis omnibus circumdextra inclusivis dentibus obsolete inferioribus petiolulatis ceteris sessilibus, foliis summis ad vaginam oblongam apice 3 segmenta subsessilibus gerentem reducis, umbellis valde inaequaliter 9-44 radiatis, involucris phyllis lanceolatis deflexis membranaceis minutis demum deciduis, pedicellis hirsutis, petalis albis exterioribus parvis induratis, fractu elliptico glabris-

culo pedicello paulft longiori, vittis dorsallibus quatuor pericrph ter-
tiam partem vix excedentibus clavatiffl, commissurâ evittatt

Hab. ad radices montis *Demawend* Juxtâ pagum *Ask* et In jugo *B&st-
tnttschal* Kotsch M« 377

Plants sesquipedalis, segments foliorum |·| |ft poll, longa lln.
3;4-1 lata, radii umbellarum sspe semipedales, mencarpia 31 fS lln.
longa a lata. Species e sect. *Wendtxa* ab *B. humxtt* et *B. Austrian*)
oil magis affinis distincta fructu ellptico, umbells fructiferse radils
longlssimis Inaequallibus.

MALABAILA KOTSGHTI AOISS.

M. tota brevissimè sub lente puberula, caule ^recto ranoso suban-
gulato-slriato, folus ambitu lanceolatuHnearibus pinnatsectU, seg-
menlis sessilibus oppositis oblongis iterôm plnnatsectis laciotis acutè
obatis, umbellis umbellulisque amppls muliiradiatis, involucro Invota-
celloque nullis, petalis glabrfs, radils pedfcellisque parçè setnoso-sca-
bridis bisce fructu ellptico basi subangnstato sesquilongloribus, me-
ricarpiis dorso parçe papilloso^puberullB, styiopodlo cupularl emargl-
naturam sequanti stylis elongatis superato, alae utnnque dlametro semi-
ills paul6 anguBtioiis parte exterlon *Incrassata alba* Interne pellnclds
aeqallata, vittis non abbreviate internis donalibus angusUoribus, com-
mifisra parçe araneoso-puberula.

Jf. *pimpinellifolio* in Kotsch. pi. Pere. Austr. N» 999 non Bolus.
Dtagn.

Hab. Inter segetes In Persia Aastrall prope *Schiraz*.

Earn speclem erroneè babui pro *M. pimpinelhfoliA* a quâ differt fo-
lifs mult6 minùs dlsectis, fructu dupl6 major! non orbiculato etc. Jaxftt
M. Aucheri collocanda.

Loco *M. platyptera* Bolss. Ann. Sc. Nat. pone *M. SKKABUL* Bolss.
— *Pastnaca Sekakul* HUBS Alep. 41 p. 949. — *P. dissecta* Vent.
Gels. tab. 78. E spechnibus Svrlads et Palasunis a me lectls comperf
plsntam Anatollcam Syrlacâ eadem esse el nomen anUqnlusBiiMe-
llanum igtur sellgendum. ,

In Jf. *UwlucreatA* Boiss^ Ann. Sc. Nat. dele synonym. *Pevoedanum*
obtusifotium Fl. G nec. quaj est planta glabra dlverstulma, folUs allter
divisis etc. <

ZOVJUA KADIAMS Bolss. et HobeD. In Kotsch. pi. Pen. bet. 4846.

Z. canle sulcato hirtulo recto ID wnbellam lennâlem amplam tongè peduncalatum sub* so radiatum abeunb medium versùs sspè 3 umbellls parvls oppositls brevlter pedunculatis aucto, foliis radicalibus numeroBls expaosis ambitu ovatis suprâdecompouUs ladntis llinearibus obttMis inter se vUlo denso griseo cobsrentibus, radiia pedunculisque hiflplds, Involucri Involucellfque phyllis lIdeari-subulatis, petalls albls exterioribus valdè radianllbus blpartitls lacnlls obloogo-spatbuUtiB loDglludinaliter *-3 oervia rufescentibus percursls, umbellls fructlferls coDlracLls, fmctu elllptlco pedunculo sequilloogo pneserUm ad dlscum loDgè papillarl-blrsulo apice angustè emargnato, vltlis lullls contlguls totam semlnis penpheriam occupantibus, al» utriquè sernini sqai-latse margine valdè ioflato paril intenuB pellucid® aequillato.

Hab. In scbistosls montis *Eibrua* propè pagum *Pa»ggah* Kotsdiy **Nº. 246.**

Habitus *Z. abaynihtfolice* ged cauUs ferè simplex, foUorum lacnle elongate deosè et longè VUIOBBB, petala exterioris valde radlaoUa % UD. et^ampUus longa, fructus pauld maior maglg elongauu et margine praserttin valdè Inflatus.

AINSWORTHIA TRACHECARPA Boiss.

A. anoua, caullbus pluribus aoguloals simpliclboB vel a basi parcè nmoBi& ramisque aculeolia brevissima subdeflexis asperis, foliis brevlter pubescentibus infimis aliquandò Indlvlsis ovato-cordatis caetei-urtrsecilB vel pinDatlsectis segmentis lateralibus ovabs sessilibus terminau ovato-cordato omnibus obtusè crenato-dentatib, foliorum supremojnim petiolis brevlBslmia ID vagioam dlatatls segmestis adgu&horibusacaté dentatls, umbellls longe pedunculatls, involucrl Involucelll-jufl phylUs numerosls temdter setaceis asperriiDiB rills deflexiB bisce % e, f marglnales Buperantibtu, petal!* valde nubantibus oblongo-apatyqJaUft.cum jporniculo basilari laterab, frueUbus pedfcello setaceo els longlorL BQ^OIUS, mericarpiis parvls ovatis ad dlscran et marglnem sub lente tubercull albIB sUpitatis dense obslUa aplce neè basi angustè enarglnsuiB, marglne albo ioflato semlnls dlmetro dimldi6 angustiorl; jHfto tenuBBlmè filiformlbiis, vitMa tenuibus doraalibu» Interioribus rectfl exterioribUB arcuaite margin! contlgutu, conunlsBnnUbiu binb seedfl lineam mediam Bltis, facie commlssurall concava.

Ilab in collibus et cullis Judsx, prope *Hwrosolyman*, *S. Saba* et in descensu ad *mare Mortuum* April! 4846. (Boiss.)

Similima omnibus aotis *A. cordate* differt tantum caulibus et ramis aculeolis brevibus Dec setaceis obsitis, foliis non omnibus radivisis rariis lobatis sed prater unum alterumve idivisum in vel pinnatisectis, involuclis flores etiam marginales superantibus, mericarpis paulo minoribus lateris commissurali magis concavis raargine non glabris sed tuberculis parvis albis obsilis.

AINSWQUTHIA CARMBLI Boise.

A. annua, caule erecto sulcato simpliciter vel a basi remote ramoso ramis elongatis strictis petiolisque patule hispido-scabris, foliis peltatis vel omnibus indistinctis ovato-rotundis profunde cordatis vel superioribus tripartitis vel trisectis vel omnibus insectis segmentis lateralibus ovatis sessilibus lennatis petiolulato ovato-cordato omnibus utrinque pubescentibus circumcircum rotundatim crenato-lobatis, umbellulis longe pedunculatis terminalibus, radice patule selosis, involucris pbyis numerosis setaceis deflexis scaberrimis, involuclis setosis setaceis insequantibus longioribus flores aequantibus, petalis valde radiantibus obovatis cum corniculo basilari, fructu pedicello eo paulo longiori suffulto, mericarpis orbicularibus biter marginalia basi et apice anguste emarginatis, marginibus utroque semim parte tuberculato-punctato aequali parte interiori rufescenti pellucida exteriori opacalbidifl paulo angustioribus subinflatis, Jugis tenuiter filiformibus interiori marginem pellucidum usque ad stylopodium producens, vitis dorsalis inferioribus rectis exterioribus arcuatis, commissuris ad 9 latera lineis elevatis sitis omnibus tenuibus, fructibus internis umbellae specie urceolatis.

Ilab copiosissima inter frutices in latere septentrionali *Carmph* prope casnobium. Leg! fl. et fr. April! 1846.

A. cantata Pinard pi. Syr. exs. non Boiss. in Ann. Sc. Nat.

Similima *A. cordate* — *Tordylw cordate* L. fl. et florifera ab et sere dignoscenda sed fructifera distinctissima margine DOD ut in eff semine dimidiato angustior inflato et opaco sed seminis diametro utrinque sublatione ad partem interiori pellucida rufo ad exteriori albo subinflato. Hanc speciem in nola opaco citati pro varietate monstrat *A. cordata* babui sed in centenis exemplaribus loco natali observatis Juec fructus forma semper eadem fuit.

TOBDYLIUM PBDTALOZZS Boiss.

T. annuum basi presertim piJis albis deflexis birsutum, caulibus nans Im§ basi parcfè ramosis i-4 umbellas longiusculè pedunculatas eden-
tibiB, foliis radicalibus breviter petiolalis ovalo-cordatis, caulims paucis
trangulari-lanceolatis acutis basi trlpartitis trisectisve lobis laterallibus
parvls rotundalis omnibus obtusè crenato-dentatis, umbells radiia bre-
vuslnus fructiferu imrassatis parcè setosis, involucn involucellfque
Phyllis laDceolato-lIneanbos albomarginatis vaidè setosis **illis** deflexis
hisce petalls multb brevloribus, petahs pallidè ocbroleuds exterioribus
valdè radiantibuB obovato-spathulalis basin verstis lobo rotndato mi-
nirno comcluloque brevlssimo aurtis, pedicellu fructu bremonbus,
mflrlcarpiis ovato-rotundis aplce aDgosbsslme emarginatis disco ovato-
trangulari papillia albis elongatis sparsls obsito, margine albo glabro
inflaUssfano disco angustion transverse rugosissimo, jugis flhformibus,
vittis dorsaliboa nullis, facie commissurali plaoa alboprulDOsa, vlttla
commlssuralibus duabus subdivergentibus.

flab, propè *Elmalu* Lycis ubi legit cl. Pestalozza.

Planta e meis specuninibus (an semper?) 3-4 pollicaris, canle brevis-
simo umbellis peduneulatis ferè radicalibus, mericarpla 9 lin. tant&m
IODga. AfQne *T. macropetalo* quod longè differt radiis petallsque exte-
rioribus multò longioribus, mericarplls majoribus margine hlrtulo
dnctis, vittis dorsalibus 4, commisauralibus parallehs subcontiguls.

TOHDTLIDH BBAcrTTANimi Boiss. et Heldr.

T. annuum totum setulis deflexis asperulum, caule lenul basi hlspido
sulcato-Btriato a basi parcè ramoso, folhs petiolo birsuto suffultis
mbserlceo-paberulis trisectis segmentia l&teralibus sessilibus ovato-
rotundis tennlnali pedunculato ovato-cordato fohorum superlorum
oblongo acuto omnibus obtusè dentato-crenatis, Involucri involuceUi-
que phyllis lanceolato-hnearibus adpressè setosis illis deflexis nisce
petala exterlora non aquantibus, petalis albis exterioribus amplè ra-
dlantibus obovato-spatbulatis basin vends lobo rotundato mlnimo cor-
nucioque brevhslmo auctis, pedicellis scaberrlmis fructu brevioribus,
merlcarpiis ovalis aplce emarginatis, disco breviter et parcè papUlari f
margine albo glabro seminis diametro dlmlldd angusUori obsoletè et
lanttam supernè rugoso, jugis fllllformibus, vlttis dorsalibus interloribus

duabin brevissimis extertoribus sub margine Inflato sills, facie commfsurall planâ albo-puberuti.

T. officinale pi. Anat Heldr. eu non L.

Hab. In rapestribus colUum prop* *Kourmalu* ad occaum nrbis *Ada-Ita* in Pamphylil (Heldr.)

Urba et floras *T. officinalis* pro quo primam erroneè babulmus ted quod differ! involucellis longissimè setacels floras ocbroleucos snpe- raatibus, mericarpfis tnpfc minonbus llineam nee S lineas longia valdè- rugosls allter vitlatw. Nostra species a *T Cappadonco* et *T, BaanU- qwsita* dignoscitur pctahB majonbus radlanlibus, fructus mlnoris margliie minàs inflato et minds rugoso, vittarum fonnâ.

LASEBPITIUH PEIHOPMILUM BOISS. et Deldr. in pi. Anat. exs. 4846

L. glabruin, folns radicalibus numcrosis trlplnnatisectisambltu ova- lis, peuolis basi dilatails coslisque secundarlls longè denudalla, sèg- mentis abbrevlatis In lacinlas oblongo-lineares acaias margne subre- volutas rigidulas parvas profundè partitls, caullbus leretibus vlrgrttU fcr6 a basi dlcbotomè ramosis, follis caullins superioribus ad vaginam linearem elongatam apice in lacinulas bre\lss)mas llncares pinnatlsèc- tam \el indmsam reduclis, umbclhs terminalibus subseqoalfter 6-44 ratliatis, involucri phyllis 5 minulis lanceolatis longè acumtnatis sub- membrauaceis, umbellulis subglobosis pan is, fnvolucelli pbylls 5 lan- ceolatis membranaccis acuminatis pedicellos a^quantibus, petals luteOj HB squalftus parvis aplice emarglnatis cum ladnulfl inflexfl, fhicOBÕb- longl a latcre subcorapressl meriearppls prlsmalids, Jugta prlmariia fliliformibus secundanis In alas integras carum intervallo vn latiore a expansis, stylopodlo depresso stylls deflexis co paul6 longloribus só- perato.

Hab. in flssuris ruplum montls *Boudroun Pisidlae* (Heldr.), In mon- (libus Lyda? suprt *Eimolu* cl. Pestalozza alt. clrc. 5000*.

Pedale vel sesquipdale, folia illis ferè omnium speclerum generis tenulos dissecla, ilia *Ferulagmia Auohan* vel *genkulotte* quodam mode referenda, umbellute flonfers magnit. pisi, fructus vlx ires Unev longus, ate lineam dlmidiam latac, Bpecies dlstlndissima.

ORLATA P ANIBOPODA **Boiss.**

0. annua radlcr vertical! longàgracNi, caulc ferè a bael dlvlso rtrMt6

glabreseenti ramis palulis, foliis radicalibus et ad dichotomiam sillis
ambitu oblongo-ternatibus bipinnatisectis segmentis ovatis In laci-
nas lineares breves ad basin usque partitis Rub lente parcesetuloas,
petiolo glabro basi ID vaginulam brevem amplexicaulem longe barba-
tam dilatato, nimbis oppositifolius infima subcaulis vel pedunculo
brevisimo recurvo subincrassato suffultis superioribus longe peduncu-
lata omnibus losequaeter pauciradiatis, involucris involuicellisque phyllis
hoari-lanceolatis angustissime albomarginaUB bisce floras superanti-
bos, umbellulis parvis, petalis albis eiterionibus modici radiantibus
roseis subequaliter bipartite lobis rotundato-cuneatis, ovario ovato
papillisalbu hinutbalmo.

Hab. In vallibus Palxstina? in provincia *SamanA* ubi floiferum Maio
Ineunte legi.

BamI plants florifera semipedales, folia eis *Daum carota* minor
minisque disticta, umbella inferior sesilis ant pedunculo vii polli-
cari suffulta, inbellula 6-6 alis subsesiles alis pedunculo 3-6 lineam
longo suffluite, (lores marginales eis 0. *montma* vix majores. Species
distictissima de CIUB genera etal fructum non viderim viz dubito.

DAUCUS nctOBci&finis Boisa.

. *D. animus* caule gracili elalo dicbotome et remote ramoso pills pa-
lulis sparsis longis bispido, foliis bipinnatisectis ambitu oblongo-lan-
ceolatis lacinis remotis aequalibus Hnearibus subconvolutis aculis ad'
pnisse scabundis, umbellis parvis longiuscule pedunculatis subaequaliter
radiatis, involucris phyllis scabris patula umbella paulc brevibus
trifida lacinis setaceis, involucelli phyllis lineari-setaceis basi albo-
marginatis floras aequalibus, flonibus albis centrali umbellis centralia
sterili, petalis marginalibus vix radiantibus, fructus oblongi JUBIB ae-
quandarum in aculeos albos teulssimos apice glochidatos basi triangu-
lari dUatatt ID cristam aequaliam coaltoa mericarpi diametro sesqui-
longiores dilatataUs, fade comrisBurali setnlosa.

Hab. In planie elata later *Aleppum* et *Antiochtam* sita ubi Junio
flor. et fictif. legi.

fadaliB vel sesquipedalis, umbellula florifera diametro 6-0 Unea lata
fractifera pollicaris. Adnis *D. pubetcenti* Koch et *MtmUuo* Guas.; prior
differt indumento brevissimo asperulo, caule procumbentibus, lobulibus fo-
Horum abbreviatissimis, involucri involuicellisque brevissimis, *D. «tu-
ifva* habet umbellas longe radians multo amplioreB, involucelli phylla

flores superantla, jugorum secundarionim aculeos longion* magis dilatatos

LSIRA SYBIACA BOISS. Ann. sc. Nat.

Dane speciem inter sectes *Samaria* prope *Sanour*, *Ccelesynce* el planihel datx ad meridiem *Antiochut* Bits abunde legi. In mca descrip- Uone c specimine junior! facta loco citato fructus Indehiscentes dxi qui contra In spcimmibus ntatunssimis carpoboro Ollforml biOdo donatt sunt et in duo mncarpia facillime secedunt Mncarpia variant vel FSDia tricnslala jugis primarns extenonbus nbsoleus secundarlls ad aculocolos minlmos in valloculis sparsos reduclis vel tuberculata jugis secundanls plus mlnusvc in cristas quoque oxpansis

TOBILIS TRIBADIATA Boiss et Hldr in pi. Anat. CM 4846

T annua, caule erecto flexuoso a basi dichotomly ramoso tereti sellis sparsis adpressis minulis stnguloso, petiolo foliorum Inferlorum elongato superiorum in vaginam linearem caDallculatam dilatato, foliis viridibus sub lente strigulosis ambitu oblongis bipinnatisseclis segmentis in ladmas breves oblongo-lineares aculas ad basin usque partitis, umbellls axillanbus triradlatis radhs subacqualibus patentibus, involucro nullo, umbellulis minimis, involucelli phyllis lineari-setaceis ovaria oequantibus, floribus sessilibus dense tongestis raarglnallbus rosels Bnbradiantibus ovarlo aequullongis, fructu ovato undique tuberculato flava vldis brevissimè aculeolatis obsito, stylopodio obsolete, stylis recclis subdtvergentibus.

Hab In saxosis Paraphyllis prope *Adalut*. (Heldr.)

Radli umbellx 3 lin. drc longi fructiferi incrassati angulo recto a pedunculo divergentes, umbellulis flonfera diametro a Ha. late, petal* magnit. *T helvetuA*. Species insignis floribus sessilibus, fructu non setoso sed brevissimè aculealo-tuberculato.

GYGLOTAXIS Boiss.

Calycis dentes obsoleti Petala minima asqualia alba oblongo-lanceolata acuta aplice intus inflexa evittata. Floras omnes hermaphroditi centrais Bessllb ovario alna duplo major! donatus marginales pedicellu circa centralem circumscripte dispositi. Ovarium lineare alylopodio eo-

lallorl diKuldeo bipartite stylisque recta superatum. Fructus omnes fertiles longè rostrati, centralls indehiscens pericarplo spongioso-tacrassato donalus peripherfcis roultb crassior coDico-alteDuatns leres, fructòs peripheral a latere compressi In duo mericarpia dorso convexa ab apice rostrn secedentes pericarpio tenuisslmo donali Jugis quinque filiforinibus ferè obsoletis vitlls Jt-3 parum peraplcufis Inter se valdè approximate In Intervallte jugorum sills. Commksura canaliculate. Albumen in omnibus fruciibus corneum sulcatum marglnibus involutum. Garpophoriim apice blQdum. — Herba Palsstina fàcie *Scanduns*.

Genus fructus dimorphlâ ad *Echmopboreas* accedens aed magis afflns *Scandici* quæ ab eo differt petalis radiantibus fructibusque homomorpbls.

CTCLOTAXW PALCSTIHA BOISS

C. annua herbacea a collo ramosa, caulibus brevibus expansis dicholomè ramosis foliosis teretibus, foills aoibltu oblongiH triplnntlsectfs lobulis tenuibus breviter et angustè lineanbus acutis, petioba brevibus basl In vaglnam linearem striciam caulem amplecicntem dilalaUs, umbellta breviter pedunculalis 6-43 radiatis, pedunculis radils pedicelhs-que post anthesln spongioso-incrassatls aploem versùs dilalatis, involuiccro noDo, involucelll nhylls linearibus florum pedloelloa ffiquantibus cmalulte apice broiter bifidls, fructibus perlpherids ad latus ester- num secùs semen et rostrum breviter aculeolato-acabrils, semlne pedicello subloDgion rostra suo dimidib breviorl, fructu centrali leevi.

K. glabnuscule — Caules et folia Rlabiüscule, fructu centralls glaber.

I. papillans. — Caules supernè et folia breyiter tomentdla asperula, fructus centralls papillis albis longlB mollibus crispulls obsltus

Hab. In plngulbus hyeme inundatls planitleram Galilseaj, ad margloes ptanitieï *EsdraVlon* Inter *Jmin* et *Caifa*, In planitle ffittin Inter *Nanrtih* et *Ttbenadnn*. Legl frucllf. Malo ineunte, floruit culta e seminl-bos PakesUnls.

Caules semlpedales, floras minutlsslml, radii umbellas 9-10 ln.longi, fructus peripherld cum rostra 6-7 Un. longl, centralls non longior sed dlametro Inferoè (orè sesquilineam latas.

SCANDIX PwiDioA Boim. et Heldr.

S. tnnua, caulibus plHs pataHsilbo-MrsuUs, follia hravfter et parcè

hiraulis lacinulis Incurvte elongaUs angusle linca-selacels, umbells
radlls glabrls, Involucelli pbylhs dettexls brevibua oblongo-linearibuB
crispo-lanaLls bifldis, Details pjriiro radlanlibus extenoribus bilobfa
cum ladnulâ Inflexâ csetens Indivisis in lacinulam inflexam attenuate,
fructibuB breviler pedicellatis longis rectis subteretlbiu tolâ superficte
sparslssimè aruleolatis, rostro complanato semine tnulò longiorl mar-
glnibus tantùm aculeolato-scabro, sMopodio cupulan styhs longis
subparallells superato

Hab. Inter scgetes Pisidia ad *Egirdtr.* (Heldr)

Sc. Ibenca pi. Anat. Heldr. exs. non MB.

Hoc species quoad herbam, lacnias angustissimas foliorum valdt
refert *Se Ibenoam* pro quâ eam pnmùm babuimus, ab eâ tamen spe-
cificè differre videtur *So Ibenca* habet caulera subumfanam pilosum,
involucelli pbylla obtusa indlvisa, pctala externa valdi radiantia omola
biloba In lacnulam coarclata, fructus CBS pratereâ a latere compressus
dicitur. Semon *Sc. Pmdwa* i lineas longum esl, rostrum pollicare et
amplius lineam fere latuin. Gum 5 *pectrne* ob folia tenulssimè dissecta
non confundi potest.

BUTINIA CBBTICA Boias. et Heldr In pi. Cret. CXB. 4847.

B. perennis prater vaginas foliorum dliatas glaberrlma, radice g[D-
bosâ, caulibus pumilis tereilbus infernè nudis paul6 suprâ basin parcè
dicbotomis ramis dlvaricatis, follh radicalibus petiolo longo tenera
suffultis ternatis, partitiombus pettolulatis ambtu ovatis bipinnat-
sectis, segmentorum lacimis abbreviate oblongis mucronulatIB, folito
caulinis In vaginâ oblongâ subsessllibus plnnatlm vel bipinnallm sectis
lacnlls pauds, umbellis S-i radiatis, iovolucro nullo, involucelli pbyllis
drc. quinque oblongis acutis albomargnatls pedicellos subsqnaott-
buB, fructibuB pedicello sequllongis oblongo-linearUniB, stylopodUs
conicls in stylos subdlvergenies efs longiores attenuate.

Hab. in lapidosls montium *Laantt* Cretx ad nivem dellquescentem
alt. B000-6000'. (Heldr.)

Planta 3-4 pollicans babltu et formâ foliorum elsl ladnla nlnôres
mntuâque lass Bint 0. *bunundem* referens sed ab eâ diveru fructu
oblongo-lineari S lneas et ampHus longo «t appropnrquanda *B. OyUaa*
qua distinguitur folus in ladnlas longas hnearisetaceaB diiBectU.
Fructds planè maluros non vidi et ldeb luec planta inter *BuUniam* et
Conopodium snbdubia sed habitus omnlm6 *Butmtm.*

B. gtauoeteem, *nodosa* et *Ltbanotica* a me in ADD. SC. Nat. descriptiffi Buot species generis *Eloorttcta* Fend. Flora 4813. Hoc geaas cbaracteribus *Butxnia* equidem valdè affline eat sed habet fructus breviter ovatos subturgldos nee ut In *Butmtd* aplice attenuatos, juga nunquam promlnula, eanales oleiferl In eo etsl tenuiimml et irregalares tamen adsont nee ut in Ihittmd omninb desunt. Habitus pratterea diversisslmus nam *Butmia* berbse tenerrimsB aunt, *Elaosttcta* aotem habet caules elatos paniculato-ramoBos *Tnma*. Species clatae sic igitur riomlnandae

fiuttnta *glancwoens* Boiss loc. cit. — ELBOSTIGTA GLAUCSSCU* Bolss.

Huttnta *nodosa* Bolss — ELJEOBTICTA NODOBA Bolss.

Butmta LUtanoiuia Boiss. el Heldr. — EUBOSTIGTA HBIFOLIA Fend, loc at.

GBJEBOPHYLLUJH CBBTICUH Boiss. et Heldr. in pi. Cret. exs. 4847.

C. perenne vel bienne, caule tereb sublihter striato glabro foltoso Bupernè corymboso-panfciilalo, foliis ad petiolos et costas pilis patulls vel deflexlB hlspldlis peilolo In vagnam tnferrè dlatato suffultis ambltu Uongls triplnnattKctls segmentls tomentellis In laclnlas mlnutas bre-
«s oblongo-lineares acutas partltls, folls snperlorlbuB mlDOriboB ID vaginâ sessilibus BubsesslHbusve, umbellis multiradlatls laterallbus mloonbus omninò vel ferè omninb sterlhbus, involuclrl involuceillque polyphylli foholis oblongis acumlhalls raembranacelB albidis patulls hlsce pedunculos acquantibus, petalis luteolis glabris, pedicello vix incrassato fructu quadruplb brevlori, fructu longe linearl-cylndrlco flavldo eximifi costato apice vis attenuate, stylopodlo depress© patel-
larl el aequilato stylisque dlvergentibus tenulbus stylopodio parCim longioribus coronato, carpophoro aplice tantum bifldo.

, Bab. io planitle *OauAo* montlum *Sphaoiotuxwm* alt. 3500'. (Heldr.)

Blpedalla, folia inferlora cum petlolo pedem et ampIUu longa, umbelJff majoris radii sesqaipollcarea, mencarpla 4 0 Jin. long*. Pnlcbra species afflns *Ch. coloroto* a quo egreglè dlffert u'mbelU hwolucratâ^ fcnctn duplo longlori, etc.

SANTALONIS SYRIACA Bolss.

S. caule elatiaslno glabro verticillaUni et longè ramoso ramis dis-

taillor et vcrliullatun rumuORla uanu ulas elongated Utyraouleu for-
nianiibus, foliis amplisnimis ambilu latè ovatis trlpinnatsectis Begmen-
tis scssilfbus ovato-cuneatis latere whriori flaepe braviter decurren-
tibus circumcirca grossfc scrratls, peliolis peliolubftque papillis sparala
brovibus comcis duns asperubs, foJus ramealibus ad dichotomias ter-
ms quaternsnc subverticillalis subsessihbos pinnalisecliB vel insectis
segmentis oblongo-spalbulalis basi longc cuneads aplce acute aernUs,
foliis summis ad foliola a-4 oblonga basi atlcnuata integerrima flavida
rductia, umbellis ad ramfflorum aplcem sublernis intermedift longtfii
pcdunciilali, mvolucn iu>olucellique phyllis 3-5 lanceolato-acuminaUs
flavidis abbreviaus, slylopodio depreoso-conico apicebifldo marghne
lobulato circumcincto slylis defloxio eo longEonbus supemto, frurtu....

Ilab in umbrosissinns ruplum Anlilibani Inter *Zebdant* et *Zaohl**
et quantum mcmlm iu regione superior! monfls *Cassn.* Legl flor. Maio.

Planla 6-7 pfdalis, folia inferiora sutpo sesquipedalia pedem lata,
srgTDenta 7-14 lin longa 4-6 lata. A. Sim. *Aucheri* differt folus tene-
noribus aho modo rl magis dmsis, seginentis mlnoriboB, ramis flori-
ferls thyrsoideo nec subcorjmboso-paniculatis, stylopodio conlco nec
depressissimo, fructus maluri alios suppedltarent nbaractpres

In Ann. Sc. Nat loc. cit pro *ScaltgenA Tournefortit* Boiss. pone.

SCALIGEHIA CARTirA Bol&S

ix speuunibus a me in S>nâ lechs Sc. *mxcrocarpa* DC. etSc-
Tournefortti Boiss.speciHcè non differunt, d. Candolleus folia Inferiora
plants non noverat mdè descripllomim dlsrTimina. Bute s|>eciei nomen
speciflcum antlquils ot notisslmum TourneforQI et Urvilhel restltaen-
dum.

MKLIORABPUB PEDUNCULABIS BOISS

M. folhs pnniordlallbuB oblongis basl cordatls indivlsls vel teroatis'
lobis ovatis sessihbufl terminall major! radicalibus petlolo complanato
plicato valdè stnato nargine denticulato BUHUIUB bipinnatsectls, seg-
mentls oblongiR obtusis Becunlibos vel basi breviter attenuatls oroDtbiri
obtuslsdim^ crenatis angns^qne albo-margmath, foliis caullnb Infe-
noribuB slmphciter pmnatisectls sumuniH ad vaginas reductls, umbeUU
JongBBim^ radialia, involocii involuepplliqup phynis brariter lanceo-
laliis acuminatlii vlrfdlbus, pedunculiR fructtferlB contractls fracclu eHIp-

Uco 1-3 plò longioribus, jngis tenuibus alatis alls dorsahbus angustioribus in utroque mericarplo numero dissimilibus 4-1-3 nls venta basin fructòs attenuatis, margnaltòs latis ad basin fructùs subretusis, albumine pericarplo dimidlo breviori

Hab. ID dumosis regionis montanas inter *Laodweam* et *Suadteh* sitorum ID Syria boreah, ad radices orientales monlla *Casni* coptosos (Bolss.)

Badll umbelte sspè 4-5 pollicares, pedicelli fructiferi 1-4 4/2 pollicares, mericarpia 7-8 Hit. longa. Ab affnibus *M. alato* et *M. anuoptertu* (ero differt foliorum segmentis latioribus, mericarpiorum atslateralibus manifestè latioribus infernè angustatis et ideò fructu uon ut in els basi attenuato, pedicello fructum non paulb sed 3-3 pldve superantl *M. anuoptertu* in omm Gdhsa vulgatus est et ut suspicaverara folia DUO modo liDean-fiupràdecomposita sed els aharum specierum similla habet. Notam c mericarpis ojusdem fructùs aequali alarum numero donatis varfabilem esse observavi et tde6 *M. Syriacw* cum *HI. anaoptertu* forsàn In unlearn spedem ultenùs oollgendl erunt.

MBXIOCARPUS VICBOCABPCS BOISS

M. folli Inferloribus bipmnatisectis 4-5 jugis, petiolo breii vagina/itl costisque margne lawlbua, divlstonibus infimis pettolulata, «egmpntts oblongo-lanceolatis acutluscul[^] creoulatis, folijs caulinis mlnoribus pinnallseciis_t involucrf Involucelliqie ph>llis oblongis acutis, fructu pedicello eo sesquullongion suffulto parvo oblongo, alls dorsalibus cra&siusculis angustionibus in ulroque mericarplo saepius numero dissimilibus soliUiriis vel bmis, lateralibus latioribus ad basio retusam fructùs mlnimè angustatis, albuolne usque ad 3/4 pericarpil producto.

Hab. in *Cf/ndf* loci proprill non memlnt

Foliorum segmenta angustata ea If. *Anatolim* referentia, mericarpia 4-91ln. lanlum longa, quà nolà, aais doraallbus cnssluscuHs et albumlDe vix pericarpio breviori a pncedentl specie disthigultur. Hoc genus quoad Bpedcrum distincUonem propter polymorpblam alarum et pericarpii spongiosi difficile In locis nalallbua ulteiùs observandum, vereor me specierum numerum forsàn nlmis anlisse.

CACBMYB GONIOCABPA Bolss.

G. gtaberrlma, caule elalo tereti strlato strict ramosissimo ramis



corjinbust! subbricholoniis, umbellâ centrali brevius lateralibus longitatis pedunculatis, foliis amplis suprâdecompositis petiolo piano Miffullis, laciniis lenmler et longissimè linearibus flexuosis phcatis, umbellis 8-U radialis, involucri involuicellique pbyllis hneari-setacels elongalis, fructu o\ato-rouindo a latere subcoropresso obtusisahno apice depresso, st>hs st>lopodio dpressissimo tnplft longioribiis, mencarpus *alde spongiosis hsmisphxrico-pentagonis, jugis acutis apteris \alleculis plamusculis

Hab. in an is fertilibus ftkeslinx Jittorahs circa *Asdod* et *Ramta* ubi Apnlis inilio jam rrucliferam Iegi.

Fructus 8-9 hn. longi, pencarpium spongiosum albumine quadruple lalius, facies commissuralis plamssima, fides dorsalis acute pentagona, carpoborum bipartilum totum planum, pedicelli fructiferi fnictu 4 1/2-2 pld lonpiores. A speciebus omnibus sectionis *Eueachrydu* optiine distinguitur mencarpus non ejugatls convexis sed acute penlagoms *C prangoides* BOISB. ADD. SC. Nat ei afilms differl fohorum lanus brevioribus tenaionibus, mencarpus oblongis, jugis rotuodatis obtusis, valleculeis sulco notatis

PBAKGOS ABPEBCLA BOISS

Pr. caule glabno elato stride ramosissimo, ramis eloogatis opposite subverlicillatlm corymbosis, umbellfl centrall majon Teraciori brevius pedunculate, foins ampllssimè suprâdecompositls papiDb brevibus. albis pellucidis undique asperulis, petiolls cosUsque striato-BDbaitgD-latis lacimis angusLfe lioeanbos aculfè planiusculis ngidulis, umbellis 4(HJ radlis, involucn Invluicellique pbyllis parvis hneari-setaceis tortilibus, pclalls auras hispiduhs, pedicellis fructiferls acutt angulalia vix incrassatis fructu paulb brevioiibus, fractu oWongo stylopodio capulan depresso st> Usque stylopodio duplo longionbus corooato, mericarpis quinque alatis alls grossè et valdè undulatis rubellis seaunift diametro sesquionibus.

Hab. ID colibus circa *Rasekya* AjitUibani ubi flor. Halo et circa *Eden* Libani ubi fructiferam Julio Iegi

Mencarpia circ. 9-10 Hn. longa, alae 1 hfi Iin. latae, pericarpium spongiosum albumine non crassius. Species foliis et habitu *P. faniculactam* rferens sed lacine foliorum latiores, affinis quoque *P. p***-cedantfnUff*. Species foliis paptlbribus, alls fractas \ala> uadshtto,

sinibus grossis in uoâquodque affl 2-3 nec ut in *P. lopkopterd* et *ulop-
erd crebns dislinclissima

PIAKGOS PBSTALOIZA BdSS

Pr. collo radicles densè Abroso, caule nano s-4 umbellas peduoculatas
sdentt praserllm (nfernt pills crispulls albis laoto, folHs petfolo brevi
analicnlato dilalato suffultis ambitu ovatis blpinnatiseclis, costls pills
iparsis crispis obsitis, segmentls mîDimis giabrls subrotundls seeds
;ostas secundarias sossilibus oppositls inter se subdistantibus in laci-
nulas lineares abbreviates teretiusculas acutas confertissimas minlmas
multfldis, follts caulims ad tajtfnam canaliculatam brciem hirsatam
iplce lacinalatam rrdueds, umbellis S-8 radlatis, Involurri fovolucel-
llque phyllis bncoolaLo-Uneanus cliatia dentfm deciduis, petals .,
fructu ovato pedicello sublonglori stjlopodio cupulan depresso sty-
llsque st>lopodio tnp!6 longioribus superafo, mericarppls a basi ad
apicem alls 5 subundulatis margine denticulatls obsitis.

Hab. In monlibus circâ *Elnutlu* Lyrle. Legit et comm. amic. D. Pes-
talozza.

Plaaia sempedalls, foliornm segmenta *xn* 2 Ho. longa lataque mul-
tlfida, fhjetas quern malurum non vidi clrc. 4 lineas longiis alls demôm
4 4;2-311D. loogis. Pulcra species tfnoltate folionim inslgnis affDola
Pr. odontoptera a qnft hoc cbaractere allisque notts longè differt.

PBANGOS PATcEADIATI Boiss. et Hohen. in pi. Kotsch. Pen. tor.
4846.

P. glabra, radice tenui vertical!, collo petiolis >etaslis vestlto, caule
tenul erecto supernè in 2-3 ramos strictos totidem umbellas gerentes
dlvlsio, foliis radicalibas gtoucescentibus petiolo longiusculo basi dila-
tato suffultis ambitu parvis breviter oblongls pionatlsectis segmentis
Z-1 sesslUbus oblongls inferioribus remoUsculis omnibus ilerum snb-
bîptnmatlpartitis, laciniis obloogo-lanceolatis aculis, vagims ad dichot-
tomlas brevlbus in ladmilas paucas pinnatisectis, umbellis 4-5 radiaUs,
in\olucris Involucelli que pb)llis llnearibus acuminatis fert ommnb
membranaceis hucc pedirellis pau!6 brevioribus, pelalis flavis glabns
apice involutis, frnctibus (junlonbus) ovatis stylopodio cupolari slylis
deflexls eo longioribiu coronalo Buperatis, periearpifs 5 alntis, *valle-
jMllis* inter alas papilHs albis cyhndrids crebris obaiils

Ilab in monte *Dudere* jugi *Elbrus* Kotschy N° 788.

Caulis in specimine meo pedalis, folia petiolo 3-4 poll. suffulta vix 3 poll. longa, radii umbellae 6-7 lin. tantum. Species ex unira specimine mihi nota sed caule tenui vix ramoso foliis ambitu parvis ab omnibus aliis diversa, fructus quos juniores tantum novi et quorum ideò alarum proportionem non describere possum vaneculis papillosis notabiles et hæc noli propter diversissimas *P. pabulanam* et *lophopteram* collauda

HIPPOPARATHURUM CBASSILOBUH Boiss et Heldr in pi. Anat. exs. 4846.

II. glabrum caulibus crassis striatis ramosissimum, ramis subangulatis, foliis radicalibus amplicissimis petiolo angulato crasso basi canaliculate suffultis ternatisectis costis lacinusque duntaxat hisce longissimis lanceolatis rigidis acutis subpungentibus planis facie superiori marginibus subrevolutis minus arduiuscule 2-3 costatis, foliorum caulium breviorum lacinis paucioribus, foliis supremis sessilibus indivisis lanceolato-linearibus pungentibus, umbellis nullis subsqualiter 3-5 radiatis radiis rigidis, involucri pbyllis 5 brevibus lanceolatis acutis, involucri sessilibus pedicellis brevioribus, petalis palmaribus dorso puberulis, ovario sphaerico papillis albis lacinibus elongatis densitate obsito, dentibus calycis triangularibus obtusis, stylopodio lato patellari margine undulato stylis brevibus superato.

Hab. In campis *Pamphylia* prope ruinas urbis *Perge* (Heldreich).

Folia radicalia 4-5 pedum ferè longa pedem lata, lacina 3-4 poll. longa 1/2-3/4 lin. laevia. A catenis specieb. generis foliis latis longissimis striatis parallelis costatis distinctissimum. prope *H. gterochlanum* collocandum.

ECBITOPROBA ANATOUCA Boiss. et Heldr in pi. Anat. exs. 4846.

E. tota sub lente indumento bravissimo velutino subpulverulento obsita, caule sulcato obtusangulo tortuoso superne raro sissimo id paniculam rotundato-corymbosam aequantem, foliis bipinnatisectis petiolo piano basi in vaginam amplexicaulera dilatato suffultis, lacinis hinc hinc canaliculatis in spinam aequantibus, involucri involucrique pbylli lanceolatis spinoso-acuminatis facie superiori planis inferioribus carinatis

hiscæ flores superantibus, petalis albis parùm radiantibus dorso brevissimè pulverulento-velutinis, fructu...

Bab. ID collibus arenosis Anatolia ratenoris in Pisidiâ ad *Isbarta* (Heldr.) fl. Augusto.

Yaldè ab his characteribus *A* formâ foliorum *E. sptnosce* sed gracior et ramosior, laciniae foliorum breviores, involuceûa flores superantillâ nee at In *E. sptnosd* dilata, petala pulverulenta nee hispidula, indumentum totius plantæ pulverulentum nee hispidulum, statlo nullo raodo maritima.

RUBIACEA

RUBIA BBACarpooA Boiss.

H. caullbus fruticosis sarmentosis scandentibus obsoletè angulatis cortice tenui lucidè albicante vestitis, ramis hexagonalis pube-brevissimè patgiâ pubescentibus laevibus, foliis senis elliptico-linearibus utrinquè attenuatis acutis mucronulatis margine subtùs subincrassato albido retrorsùm scabridis secùs oerum et ad &ciem glabris laenibus iaddis in0ndB deflexis, cymis oppositis axillaribus subsessilibus foliorum verticillo subbrevisibus, bracteolis bimis setaceis ad cymæ divisionem sitis, pedicellis pubescentibus divaricatis flore vix longioribus basi dudis, corollâ albâ glabrâ subrotatâ magnâ laciniis oblongo-fanceolatis in mucronem brevissimum attenuatis, fructo magno carosulo globoso pedicello incurvo smulto.

Hab. ad, muros sepes et rnpetria Palaestina circa¹ *Hierosolymam*, *Bethlehem*, In *Carmelo*. Leg] Malo 4846.

Var. *g. fanophylla* Glabrescens, folia angustiora elliptico-obovata 6-7 ltn. longa itneam vel Besquilineam lata.

flab. In AntUibano propè *Rascheya* et *Zebdani*.

Folia forme genuine 8-U lit), longa a 4/2-3 lata, Tarfatis multo angustiora, floras e maximis generis, fructus magnitudinis pluri species ab omnibus Europæis distincta caullbus fruticosis sarmentosis, foliis magnis, ramis pubescentibus. Affinis *R. Olivim* Rich, qua; tamen e descriptione caulè retrorsùm scabro, foliis obovatis margine hispidis corollâ subcampanulatâ differt. *R. Ivmda* Fl. Græca non L., e Cypro oriunda, probab ad nostram speciem referenda est, Icon in-

florescentiam nostram omnino refert sed corolla; In oâ minores longius-
que acuminata:

CRUCIANELLA SYHIACA BOISS

C. annua tota minute scabrâ glaucescens, caulibus quadrangulis
ascendentibus dichotome ramosis, foliis in quibus sub antbes
jam deciduis minima obovatis ceteris seais angustè linearibus valdè
revolutis rigidis mucronatis scabris, spicis axillaribus terminalibus-
que pedunculo rigido eis Don longior ssepè brevior suffultis linearibus
Bupletrasclilicis densis, racemate bracteatis, spiculis unilobis tribracteatis,
bracteis strictè imbricatis oblongis concavis in mucronem brevem at-
tenuatis dorso nervo rotundato crasso instructis internè latè albomargi-
natis margine ciliatis cacterum laevibus, corollis flavidae tubo bracteis
duplè longioribus, limbo pentameris lobis ovatis In appendice linearem
eis sequilongam circinnatam abscissis, stylo incluso.

Hab. in rupesribus Syria; propè *Antiochiam*, leg. florif. JUD. 4846.

Semipedalis vel elatior, folia caulina 6-9 ho. longa lines 4;31 «ta,
spicis M 4/5 poll. longis, bracteis % lin. longis. Or. *Graea* afflois ab
eâ distinctior scabrâ major!, foliis arctius involutis angustioribus,
spicibus breviter pedunculatis, bracteis diradibus minoribus mucronatis nec
longè selaceo-articulatis, tubo corollis longias exserto.

CRUCIANELLA BITURNICA BOISS.

Gr. annua tota minute scabrâ glaucescens, caulibus quadrangulis
ascendentibus dichotome ramosis, foliis quaternis omnibus angustè
linearibus valdè revolutis mucronatis scabris rigidis, spicibus axillaribus
terminalibusque pedunculo eis longiori suffultis linearibus subte-
traclis densis, racemate glabrâ, spiculis bilobis tribracteatis, bracteis
arctiusculè imbricatis ovato-oblongis carnatis in mucronem brevem
«1-tenuatis dorso vix et crasse nervosis margine latè albo-raembratatis
ciliatis ceterum laevibus, corollis flavidis tubo bracteis sesquialongioribus
scabridulo, limbo pentameris lobis ovatis In appendicem linearem apice
subtortam eis longiorem fatis reflexam abscissis. Stylus profundè
bifidus ramo altero cum stigmate e corollâ exserto

Hab. In Biturnia propè *Bolu* cl. *Pesulozza*

Quoad fadem, spicibus, bractearum longitudine in praesentibus stadit,
differt foliis 4 nec 6nis omnibus linearibus, spicibus longis pedunculatis

latis, bracteis arcius carinae soblallonibus, rachide glabrata, oorbetubo bractearum proportionem breviter scabrido, stigmata altero exserto, a *Or. Grand*, differt ut et species praecedens bracteis dimidiis minoribus, foliis angustis, stylo denudato.

CRUCIATA IMBRICATA Beta.

Cr. annua caulibus erectis strictè ramosis quadrangulis laevibus, foliis infimis quaternis ellipticis caeteris sensim valde recurvis linearibus breviter mucronatis scaberrimis, spicis linearibus cylindricis pedunculo eis assequens subaequalis densis, rachide glabrata, spiculis unifloris bracteatis imbricatis, bractea exterior! longior! multoque latiori ovato-oblonga vix carinata breviter attenuato-acummata margines late albo-membraceas scabunduli, lateralibus carnato-plicatis anguste linearibus, corollis rubellae tenuissimae in apice subexserte tubo capillari in umbra vix apparente lobis ovatis in macronem reflexum et squilongum sitenalis.

Hab. in *Syrto*, loci proprio non memorati. (Bobs.)

¹ Folia caulibus 6-9 lin. longa semilineam lata, spica forma et magnitudine. *Or. angustifolia* qua differt bracteis sequentibus omnibus carinatis, corollae exsertae. *Or. latifolia* differt (bracteis caulibus viz revolutis, spicis longioribus lateralibus tenuibus, bractea quoque et bracteis exsertis).

Cr. JBgyptvua L., vera — *Cr. herbacea* Forsk. quae mihi nunc et Specimenibus circa Alexandriam ab amlc. Cadet de Fontenay lectis innotuit, ut jam subpicaveram a *Cr. Greed*, diversissima est et affinis *Cr. ephlorostachydi*.

ABKAILA LIBANOTICA BOISB. (Sect. *Cynanehtcw*.)

. A. peregrina rouscauto, etulibus teneris filiformibus ascendentibus*
Fere ramosis simplicibus quadrangulis ad angulos retrorsum* ca-
briculis fallis quaternis ovatis subtrinernis aculeis mar-
> fine sobris ceterum glabris lateralibus paleis virentibus, pedunculis
, paucis axialibus terminalibusque subternis cymas in capitulum dense
continetas paucifloras ferentibus, bracteis involucribus elliptico-
boceolatis aequalibus non asquantibus, corolla lactea glabra tubo a
bail aequatori in limbo eo dimidiis breviter seorsum ampliato, teel-
, «Hs BDDHB ovalis terminalibus aculeis, antibus linearibus wacete m-

grescenlibus, st)Lo apice longè bipartite exserto, sligmatibus globosis, ovario glabro tevi.

Hab 10 bumidis regionls alpfn et subalpns Libani, suprà *Khan Hussein* in \ii inter *Berythum* et *Damascum* in consortio *Gatn Pe»-talozzu*, ad fonlem supra pagum *Eden* situm, in monte *Cassio*.

Pedalis >el elatior, folia majora 5hn. longa 3 aut pau!6 ampliùs lata. Corolla circ. 4 lin long*. Pulchra et distincta species inter *A. %nvo-tucratam* et *Taurtnam* media, prior differt glabntie, lxviUe, fohis elliptico-lincjribus obtusis uninemis, posterior caule pubescent!, (bins triplè majonbus margine ciliais, tubo corollae longissimo, lobis lmcantibus, etc

ASPEBULA TA\GtTEv Boiss et lleldr (Sect Cj/rio»icAica-)

A perennis rhizomate suffrutescenti multicauli, tola \illo hirsulo-lomentosa mollis canescenb, caulibus asceudentibus ramosis obsoletè angulatis fragihbus, fohis scms paluhs hneanbus aculiuscnlis margine i'on\olutis, flonbus in capitula rotunda deosa ex axillis supenonbus breviter peduoculata terminaliaque ssppè 2-3 approvimata congestis, bracteis comolmlspatulo-subrcflexis (lores subxquantibus, corollae in \no laeleae densè \elulina; tubo limbo dupl6 longion lacinus oblongis acutis submuticis anthers oblongo-linearibus mgncantibus, st)lo parte exberta longiusculè biGdo, o\ario birtulo.

A *mcana* Boñ et Cbaub. Fl Pclop non Sibtb

Hab. ad ruqes umbrosas faucium propc *Androunsta* in Ta\geU>. Fl. Junio (Heldr.)

Pedalls |e| elatior, folia raajora arc 4 lm longa 1/2 lin. lata, capitula piso subduplo majora *iS-ia* flora. Corolla arc. 2 lin longa. Affinis *A. hinutu*, *A. tomentosa* Ten. et prasertim *A. incarnae* Sibth. pro quâ cum cl. Boo^{et} Chaubard bane quoque babuimus donee speciulna Cretica oos docuennt *A. ineanam* Indumento brentsimè \elutino, flonbus dupl6 inajonbus, corolis scabridulx lacimts obtusis a iiostra longe differre

ASPERLLA piscitxLiTA Boiss. (Seel *Cynanchum*.)

A perennis basi suffruticosa multicaulis caulibus asceudentibus vel crectls clatis simplicibus >el supernè parcè ramosis quadnngulb gb-hris i el asperulis, folns quaternis tenmssimè hnearibus valdè revoiu-

Us ui mucruuem brevem atienualis iniernodio plunès brevioribus plus
imnas scabndis, Qonbua opposite fasaculos capituliformes subsessi-
les oppositos sccus ramos dislaules forniantibus, braceis lanceolate
ovaria parùm superantibus, corolla: albida? tuberculata tubo ID lim-
bum seiteim amphalo, lacinus tubo inult6 brevionbus oblongis ens-
siuscuhs obtusis, antbens Iraeanbus mgruamlibus, stylo inclaso ultrã
medium bipartite stigmatibus globosis nigricanlibus, ovano glabro

Hab. in rupesinbus sfecis circi *Eden Libani*, legi flonferam Jul. 1 846.

Pedalis ui sesquipedahs, toba erecto-patula tenuissima 6-8 Im.
longa, corolla arc 3 lln longa. Ex. afinilate *A. stricter* a quã facile
dignoscitur foliis longionbus tenuionbus supenonbus bracteisque noil
ut IU eã setaceo-mucronatis, flonbus longionbus di'isims fasciculatis

AspsniLi ULvGERi Boiss etHoldr (Seel. *Ctjnanchicce.*)

A. basi suffrutescens multicaulis, cauibus teouibus \irgatis erectis
quadrangulis elatls infonii bre\issimt puberulis dense foliosis supenift
remold foliosis parte ramosis, foliis quaterms inter sc aequalibus an-
gusU lineanbus bre^issimis neno medio >alido secus caulem decur-
rentl tnstruciis inucronais basi connais mfpnoribus secus caulem
densi imbnatis ceieris sparsissimis inleniodio multo broioribus,
floribus *t-i* la fasclculos oppositos brcMter pedunculatos sestleaque
seeds caules ramorumque partem superlorcm la\t dispositis, bractels
ellipticis acuminatis otaria paulo superantibiis, corollx glabrae albs
tubo io limbum eo quadruple breMorem M\ ampllalo, laanns oblongis
aptce subcucullalis aculiusculis mulicis anlhens nigricaniibus, sl>lo
inclusoad medium usque bifido, Trudu \alde tuberculalo.

A. tenuifolia pi Ta>g. Ueldr e\s nou Boiss. Dugn.

Hab. to monte *Taygeto*. (Ueldreich.)

Pedalis, folia mferiora 2-3 lin. cetera 4-3 longa, (lores ID racemos
longos teuues disposili, corolla ii'nuis us 3 lin. longa. Priinum erro-
neè reiull ad *A. tenuifoliam* meam quæ fuljis loogionbiis slnclis co-
rollB vfolascenUs subscabnda? tubo bre^i lacmitsque mucroualls dif-
fert. Ab omnibus pracedeolibus et ab *A. luted* fasciculu pauufloris
dignoseenda. *A. arutala* egregie differ! paaicula dnaricatiin nimosi,
colon Oorum, corolla tuberculatx lobis mucrouatis.

ASPERULA SETULOSA BOISS. (Seel *Cynanchiat.*)

A. perennh rhtzomatesoffruteseenti, canHbns phiribus ~~erecta~~ **vall-**

ihusculib rigidia quadraingulis inferoe scabndis aupenie pared ramosis, foliis quaternis anguste hnearibua mucronalis valdè revolutis margneque scabndis loternodio niullò bretionbus, flonbus In faaciculos paucifloros breviler peduuoulalos disposilis subcorymbosis, bractei oblongis acuminalis ovaria subsuperaiibus, corolla; (e aicco albids veJ carnes) aculeolaio-scabnda tubo in liubum subsBquilongum senslm ampliaio, lacimis oblougo-lanceolatis muticis, stylo breti ad basin usquè bipartite*, ovano selulis adressis densè obsito.

Hab. in arenosis Rossise austrahs ad *Pensyp* et ad ostia I^r, Laiiff et Szowits berb Eutb. No 408 sub *A. hltorah* Smith.

i'laula 6-9 pollicuns, folia intermedia 5-6 lin. looga tenuia, corolla vix *t* lin. longa. Afflnis habitu *A. montano*: W. K. ab ei el affloihus o>ano papillan-setuloso dislinctissima *A. httoralu* Fl. Graec. tab 422 e litlonbus Ponli £u\im est planta di\ersiffma folus lationbus brevioribus densè imbricatis, corollis majonbus (narasquepalutehispldis.

ASPEBULA NITID*. Sibth. vai^l. *puberula* Oaisb. — Tota papulis bremsimls puberula

Bab. in monte fronton Laconue (Heldr.), *Sipylo* Lydue (Bolss.).

Veluti species qux in Oljmpo et montibus Graecis sept, crescit, vana floribus In cespite subsessilibus et caulescens caulibus dlffisis subelongaus. Hsc species dignoscilur semper foliisin mucronem longum selaceum abeuntibus et corolla? Uciniis In mucronem brevem calusum brevem attenuans (nee ut ID Fl. tiraul falsd exhibentur retums)

\spBauLi ATHOA BOISS. (Sect *Cynanchwa*)

*A. basi suffrutescens mullicaulis densO caespilosa nana tola Mtulte patulis brevissimis canescens scabrida, caulibus bretissunis quadrangulis basi praesertim densè follosls, foliis quaterofs parvls angusiisslmè hnearibus rigidulls strictis brevissimè mucronalats subtns inter Bwrgines revolutos nrrvumqoc medium crassam anguste bisulcatte Inferioribus abbrevi.itls oblongis fnternodia sequantibus, floribus 3-4 tetmloalibus et ex axillis supromis blots oppositis, bracteis mmlmta onna vix superantibus obtongo-lauceolatis acominatis sabridh, eorotbe e sicco rosee tubo capillari limbo setuloso ferè quadruplò longlorl, tocmiis hnearibus oblusiusruhs, antheris lloeanbus nlgrls, itylo iDduio MI mnlum Wt*arlilo orario bmiter albo-sctuloso.*

Hab. In monte *Atho* Aucher N» 683

Planta caespites 2-3 pollicares formosa, folia longiora vix 3 lin. longa lines 4/3 lata, corolla 4 lin longa. Habitu affinis *A suberoiae* Fl Grew. d'JUB locus natalis propius adhuc ignotus est et pro qua eam primum habui sed haec ex descriptione et icone differt indumento canescenti nee scabrido, corollae glabrae tubo minus tenax lacini ovato-oblongis dupli nee quadrupli longioribus.

ABPERUIA *Crussonii* Boiss (Sect. *Cynanchiccr.*)

A rhizomate suffrutuloso crasso. caulis plumos filiformes diffusos nanos dense caespitosos edenti, foliis quaternis glaurescentibus dense imbricatis subtus late nervosis margineque subincrassatis inflexis ovato-oblongis obtusis externi replicato-linearibus basi obtusis vel acutiusculis, floribus paucis terminalibus capitalibus subsessilibus foliis supremis basi stipitatis corolla glabrae corollae tubo dimidibus breviter sensim ampliato, lacinis ovatis apice cucullatis obiusculis, antheris ferrugineis, ovario glabro laevi.

Hab. in rupibus excelsioribus *Nebrodim* Siciliae.

A. suberosa Guss. Syn. Fl. Sic Don Fl. Guss.

Species pulchella nana foliis lanceolatis brevibus obtusis dense imbricatis floribusque magnis insignia a planitie Sibthorpianae nonis sequentibus certe distincta. *A. suberosa* habet caules pubescentes, folia plus minus incana acula, flores in apice caulium ob pseudoverticillos plures spicalos, lobum corollae tandem pubescentem superne ampliatumque subincanum.

ASPEEULA *Breviflora* Boiss. (Sect. *typhocata*.)

A. perennis pallide virens, rhizomale suffruticoso tortuoso cortice fibrifero albidulo multicauli, canaliculis quadrangulis glabris tenues vel ad angulos subscaevulas erectis tenuibus a basi alternata ramosa inter folia, foliis senu brevibus inaequaliter brevioribus linearibus basi subaequaliter marginis scaberrimis subaequaliter acutiusculis sub lente pendulatis, floribus secus ramulos in bacculos remotiusculos sessiles vel subsessiles 3-7 flores saepius oppositos pauculam effusam formantes dispositis, bracteis ovatis ~~go-Hra h us~~ ovario breviter corollae albidae breviter

puberulae tubo brevi a basi campanulato ampliato laciniosis brevibus ovalis muticis vix duplo longior, stylo brevissimo incluso ad medium usque bipartito, ovano glabro Isvl.

Hab. in rupibus siccis circa *Eden Libani* ubi legi floriferam Julio 4846.

Planta pedalis vel olatio ramosissima ramis erecto-patulis, folia 4-5 lin. longa lineis latis, corolla lineam lata. Species distinctissima ex affinitate *A. hraehyanthe* Boiss. floribus in capitella late bracteata dispositis ovano cano foliisque brevibus longioribus distincte et *A. rigidoe* Sibth. qua caubus pumilis, floribus aolitanis vel brevibus duplo longioribus longius distal. *Gahum sverosum* Sibth. e Græta quod ex Icone tantum novi nostram speciem habere suo refert sed prater corollam *Gahi* et omnino glabram differt foliis latioribus brevioribus, floribus ternatis etc.

ASPHERULA PANCINANTHA Boiss (Sect. *Galiotdeis*)

A. perennis, caulibus crassis valde elongatis inermis vel ascendentibus subsarmentosis quadrangulis papillis albis conspicuis pinis minutis birsulis supernè oppositè ramosis elongatis et stridè paulculatis, foliis semper octonervi deflexis oblongo vel elliptico-linearibus acutiusculis mucronatis facie superne sub lente punctatis subtus concavis margine scabridis revolutisque ad nervos et rariter facie plus minusve albisetosis, floribus in pseudoverlicillos capitalo-globosos densissimos remotos valde albobirsuos secus ramos congestis breviter pedicellatis, bracteis oblongis mucronulatis flores subaequantibus, corolla lutes brevis campanulatae cxtus sparsim et longè albisetosis lacinis oblongis inflexo-mucronulatis tubo longioribus, stylo subexserto apice brevissimè bifido, fructu parvo.

Var. «. *lastocarpa*. — Fructus albo-setosi.

Hab. in plantis *Damasoenae* Aocher N° 742.

Var. p. *letocarpa* — Fructus glabrus.

Hab. in vallibus ad septentrionem urbis *Latakiah* ad *Aleppum* eundo. (Boiss.) Fl. fine Junii.

Gaulis terpedales longioresve, folia caulium 5-6 lineas longa 1/2-3/4 lineas lata, corolla 3-4 lin. longa. Habitu et characteribus affinis *A. humifusce* Besser quæ tamen longè differt foliis angustioribus, corollæ alba lobis ovatis, floribus in racemos laxiores spiciformes dispositis

GALIVM PEBTALOZZA Boiss

G. perenne multicaule lsvissimum glaberrimum scellate mgrescens, caullbus teneris flifonnibus quadranguhs foliosis slmphclbus ereclis csspitosis, fohis scnis elliptico-lanceolatis acutis margine subrevoiutis lucidls ferè pellucidis, peduncuha ternnaalibua folia paul6 auperantibus Bubtrichotomè coryjnbois, corymbis paucifloris, pedicellis stnctis corollâ paulft longionbus, corollas magns albae patuls lobis oblongis acutfascnlis mnticis, antheris roseis, stylo apce tantùm blfldo, fructibus glabris

Hab. In regione subalplnâ Libani in viâ inter *Berythwn* et *Damagcwn* suprâ *Khan Hussein* in berbidis bumidis, legi Maio 4846.

Caulcs semipedales tenues erecti numerosi tenen stmplices, cyma> more *G. alpestris* terminales densiusculs, folia majora 6 lin. tonga vlx sesquillDeam Iata, floras lactei magmtudiDls *Asperula odorata*. Species dlstinctlssima propè *G. mxte* et *Onentaie* collocanda, facie *A*perutam odoratam* vel *Libanotusam* quâcum crescit referens.

G. Onmtalis Boiss forma mcana est *G. inoanum* Flora Gneca, tab. 430, sed cum forms vn pilosuls imò glabernms lucidx virides bujus speciei mult6 frequentttts occurrant quâm forms lncanae in calidioribus tantâm obvisB, nomem spedficam nostrnm specie! In totius Orientis alpinis a Grsedd ad Cappadociam frequent! aptissimum omni Jure servandum est

GALIUV DBLICATDLUM BOISS. et Hohen in Kotsch pi Pere bor 48i6 (Sect. *EugaXia*)

G. perenne caulibus e rhizomate saepè crassiusculo numerosis ascendentibus pumilis intracto-flexnosls fliformibus tenerrimis bispidulls parcè ramosis, foliis senis tenons pellucidis bispidulis basi et apice attenuatis mucronulabs, cymis terminalibus breyissimis paucifloris bl vel trlcbotomè valde divaricatis, pedicellis caplllaribus glabns flore sobduplò longioribuB, floriibuB albis mediocribas glabris, corolla plans lacinills obloDgis in nracronem tenuem eu qdadruplò breviorcm abeuntibus, antberis nigrescentibua, stylo ad medium usquè blpartlio, fructu glabro laevl.

Hab. in roneatrlbus montu *Dmaumd* Aucler N° M6S, Kotschy N» 361.

Plaota tonernraa 3.4 poiicarls, folia intermedia 6-6 lin longa ses-

quilineam lab, flores magnit *G sylveatm*. Affine *G. Kurdwo* el *Hyr-cantco*, prius differt folns majonbus ovatis, pedicellis elongatis, co-rolia; lobis muticis. *G. Hyrcantum* habet caules ngldulos multò cras-siores, folia mutica, cymas confertifloras, pedicellos brevissimos, etc

GALIUV CHEIUM Boiss et Tiehr m pi Cret e 8. 4847 (Sect *Eugalta*)

G. perenne glabrum cauhbus brevissimis lucidis obsoletè letragoms tenuissimis tenens erectis supernè parcè ramosis, folns 4-8 nis brevl-bus erectis oblongo-linearibus obtusis supernè margine scabendo sub-revolvulis, ramls floralibus tricholomis ramulis divancato-palentibus, floribus ad rimulorum aplcpm in urabelluias 4-6 floras congestis, pedicellia (lore subduplb longionbus etiam fructifens strirtis contractis nee divancalis, corollà alba glibrft modiocn lobis oblongis acotmsculls muticis triDervus, fructu didymo lævi

Dab. ID pratis paludosis montans Grebe loco *Enneachona* dlrtto propè *Elos* Eparchis *Kissamos* alt 4000*. (Heldr.)

G. junceum ID pi Cret. Heldr, exs. non Slbth.

Caules filifonnes ferè pedales, folia Inter se remola 3-8 lm. longa lines 3/4-4 lata, flores paulò minores cis *G. palustTis* cui nostra species valde affinis est et quod differt folns deQexis raajoribus slccitate nigril-cantibus et pracserllra pedicellis paulò longionbus post anthesin dlva-ncato-palentibus nee contractis. *G. junceum* nunc mihi ex icone flora¹ Grace nolum est *G frutxeosum* Willd. species distlDctissima.

GALIDH DIPLOPRION BOISS rtHohrn In pi Kotsch Pers bor.4846 (Sect *Eugalui*)

G. perenne slccitate nigncans, cauhbus berbacob prostratis basl fli-formibus nudis lucidis deln parcè ramosis incrassatis obsoletè angulatis ad angulos sparsim retrorsàm aeuleolatis, fohis subsenis opacis car-nosulls oblongis breviter acumlaiis margine retrorsùm et subbifanè oncinato-acnleatis fade Isvissimis, flonbus m cymas axillares et ter-minates breviter pedunculatas paucifloras subcapitatas congestis, pedl-colhs ovario sequilongis, corolke albae planuscusu ladnlls oblongis acuUusculls muticis, stylo brevisslmo bipartito, ovario giabro

nab in glareosis propt *Schah Nesehin* montis *Totschal* propè *Te-heran* sAl 7000' (Kotschy.)

Gaules in meis speciminibus seu pedales, foba 4 HD. umga sesquilineam lata, floras magnit. eorum. *G. palustrw* Species foliis veluti serrae denies subbifariam relrorstihn unctaulaiis insignia propè *G. Auchm* collocanda inler *Eugalta* et *Apartnm* intermedia*

GALIUM MoHAcumii Boiss. et Heldr. In pi. Cret. exs. 1647. (Sect *Euaponne.*)

G annum glabrum, caulibus pluribus brevibus tenuiter filiformibus decumbentibus ad articulos remotiusculos mfracilis mbellis obsolete angulatis lsvibus, foliis seatis mlnutis oblongo-ellipticiis utnquè attenualls acutis mucronulatis iiiargine vix revolutis scabridis csterùm lxfibus, peduncubs ox axillis supremis terminahbusqiie paucis folus 2-4 pl6 loagionbus tnOons, pediceltis glabris bracteà oblongo-lieari Uores aequanti suffultis flon aequilongis fractiferls erectis fructa vis longioribus, flonbus minutlssimis hermaphroditis, corolls glabrs roseas ovano albo-bspido angustions lacinnis obloDgis obtuslusculis anibens luteis, stylo supcrnè bifldo, stigmabbus globosis albis, fhictfts didymi mencarpiis globosis pHis albis brevibus apice subUncloatis deosò falspidis

Hab. ID lapidosis monlium *Lassiti* Crete ID monte *Lazzaro* alt. 4000-8000' rarum. (Heldr.)

Caules c radlcc temiisaimà plures 3-6 polllcares, folia majora ferè 3 lincas longa lineam aut paulb amphis lata, pedunculi 6-40 hn. longi, flores e mmutissimis generis, fructds magn. eorum *G VatlUmtn*

GALIUH PISIFBBUH BOISS. (Sect *Apanne.*)

G. aiiuum vinde ylabrum, caulibus longis flaccidis asceodentibus quadrangulis relrorsiim aculeolatis, folus 6-7 ms inferioribus oblongo-spathulatis basi IU pebolum brevem attonuatls apice rotundatiB mucronulalls supenonbus angustatis elhptico-lanceolatls acutis omafbus umnerviis margine et subtùs ad nervum medium retroreùm vaWè aculeolatis, pedunculis ex axilUs supenonbus termnalibusque breviter corymboso-panlculatis, ramulis pedicellisque setaceis flore sesquilongionbus divancatis retrorsùm aculeolatis frnctiferls iacrassalis recurvis, bractcis mmimis lineari-selaceis acutis, flonbus polygamis, centrali tricbotomiarum hermaphrodllo lalerabbus masculis, corollae glabra laclea? lobis oblongo-lanceolalis acutis rauucls, antheris luteis, stylo

a biisi biparllis, fructu *oh* pedicelluni rcurvuu pendulo, mencarpio altcro semper aborbvo altero glabemmo lsvi globoso magno, pencarpio albido membranaceo subinflato a semine soluto, scunne sub leute luberculato-punctato

Qab in umbrosis rupeslnbus Palxstina.¹, legi in monle *Carmelo* et circA *Haacheya* ad radices Anldibani.

Gaulcs 4-3 pedales, folia mfenora ferè polhcem longa 3-3 4;Slia. lata, flores Icrmmals magn corum *G palustns*, fructus magnit. plsi Species inter *Apannes* flonbus albis magnis, fructus magni glabn pencarpio inflato nolabilis

(*ALIMUM CASSIUM Doisti* (Sect *Letapannc*)

G annum glabrum, laule obsolelissimu letragono fillformi fere a basi diciolomi¹ et divancatim ramoussimo, ramis rigidis capillaribus clongnils intricatis, folns b-6 ms elliptico-linuanbus angustuque hneanbus margine scabndo revolulis obtusiuscuhs muticis patulis vel deflexis suprcmis selaccis opposilis brevibus iDicqualibus, pedunculls setaccis folia axillana superantibus umbellulas densifloras parvas contractas ferentibus, bractcis setaccis flores non superantibus, pedicellis flon subscquilongis, corollx pallide ocbrolcucus lobis oblongib obtusiuscuhs muticis, fruttus roinnni moricarpus subglobosis

K. *tasuxarpum* —Fructus pihs longis albis subuocinatis densè bispidus

p. *oalvescens* — Fructus adpresse et parcè stngulosus.

Hab. ambo formic imxtse in umbrosis regions inferons montis *Casstt* inter *Laodiceam* et *Suadxeh*, legi quoque ad pedem ruplum in promontorlo AM *Beyrout* ad meridiem urbis *Berythi*.

Afflne facie et florum magmludine *G setaceo* quod egregiè a nostro differt folils tenuionbus, bractuis flores longè superantibus, pedunculis pauciflons, pedicclhs flore longionbus, corolli rubella, etc.

G. Mungiertt Boiss. el Helder. in pi. Grat. exs est tantum *G. dwanatum* DC. var flonbus albis et pneter colorem Oorum pedicellosque subbreiores a formâ geminft non differt.

GALIDH PKMCELLATUM Boiss (Sect *Leiaparme*)

G annum siccitaU' nigrescons, caule fillformi ereclo pumilo a basi lialulè ramoso obsolelu quadrnugulo siabridoque glabro, folils glahns

6-8 DIS auguste liueanbus margiue valde reuolutis scabridis breuiter albo-mucronatis, pedunculis breuibus pedicellisque numerosis subumbeatis flore sesquialongibus glabris capillaribus, bracteis foliisque superius puberulis longè belaceo-acuminatis, corollae alba¹ laciniis oblongis apice pinnatis-pilosis in setam eis dimidiis breuiorem abeuntibus, fructu glabro lavi pedicello recto dimidiis breuiori

Hab. in Mesopotamia inter Or/a et Suerek Kotschy N° 94

Planta 3-4 pollicans, folia 4-h lin. longa 4;9 bn. vix lata, flores magni 6 sylvestris. Valde affine *G. Alepico* et praesertim *G. magnicantt.* Ambo a nostri specie sat differre videntur caulibus valde quadrangulis folisque latius albonervosis, corollae segmentis setis eis sesquialonga tenentibus, pinnis insuper scabris totius plantae et indumento pedunculorum et fructus, postea corollae glabrae pedicellisque basi hirsutis

GALIUM PAHYLIGUM BOISS. et Heldr. in Boiss. exs. 4846 (Sect. *Xanthopanne*)

(*J. animum* glabrum, caulibus tenuissimis erectis quadrangulis obsolete scabris rubellis superne ramosis pauculam corymbosam nebulosam tenuissimam edentibus, foliis inferioribus quinque subinquinatis oblongis basi attenuatis acutiusculis superioribus subseptenis angustis laevibus omnibus uniuersis margine subreuolutis scabris crassiusculis laxis, pedunculis divaricatis pedicellisque flore 2-4-plo longioribus setaceis glabris, corollae glabrae flavovirentis lobis oblongis mucrone eis triplo breviori terminalis, fructu glabro et pilis brevibus albis uncinatis tomentello

Hab. in collibus saxosis apertis ad *Kourmalu* Pamphyliae. (Heldr.)

Species facie, characteribus florum magis affinis *G. intricata* Reuter et Margot, ab eo distincta foliis caulibus pedunculisque glabris nec hirsutis, foliis muticis nec longè acuminatis, flonibus fuscis nec albidis, ovario cum pilosum est pilis brevioribus multo densioribus obsito. *G. nebulosum* Boiss. quod est tantum varietas lobis corollae longissime setosis *G. flimbundae* Sibth. a *G. Pamphylae* dignoscitur flonibus duplo majonibus pedicellisque elongatis

GALIUM JUDAICUM Boiss. (Sect. *Xanthopanne*.)

ti. annuum multicaule totum dense et breviter hirsutum, caulibus

antendenlibus lerti a basi dieiolome ramosisslmis ad dichotomies m-
iraOis quadrangulis, folris quints cliiplico-lineanbus oblusiuscalis
lwsī atlenualis marghne subrevolutis hispidulis mulicis, pedunculla
folia axillana vix supenmubus patulo-dnancatis sepè deflexis eras-
siiiBCuhs divancattm 5-9 (Ions, pedicellis hispidulis divergentibus ca-
pillanbus flore 2-4 plō longionbus, corollsc lutes valdē hispida? lobls
ublongis mucrone iilbido brevissimo terminalis, fructu didyrno setis
albis loogis ajiicc subuncmatis dense hispido, mencarpils oblongis
subincurvis.

Hub m rupestribus Palxslina:, propè *Hurosotymam* frequens, propè
Banvuf in Galilxi (Doiss)

Sennpedalis, caulus intneatj, lolia *s-i* Ira looga sesquilineam lata,
nores inngmt *G tntncali* a quo *utetaG Pamphyltco* fgregi6 differt
pedunculis brovibus pedicelhbquc minus icuuibus ngdiorlbuB valdfè
divjncatis, fructu loiigi^simu el druse lusuido, corollis vix mucro-
nularis

GALIOH vuLc&Nitu Boiss. ut Uobeo in Kolsdi pi. Pers. bor.
4816 (Sect. *Xanthopanne*)

G annuūn, caule nano ereulo paulo suprā basin ramoso breriter
el cflubu pamcuLvlo rubello quadrangulo law glabro, foliis subseoia
diifustfè hncanbus valde revolutis supcrnu et margine parcc scabndis
ylnbris albo-niuoi'onulatis, pedunculis foliis axillanbus paulb longion-
bus munitions pedicelhsquo divancatls flore tnplo longlonbus seta-
teis nitidiilis valde hispidulis, corollu: purpurascntis vel sordidè
flavai minimal exlus hispldaa launns oblongo-lanceolalis in cuspidem
suticeam squilongam intus reflexam abeuntibus, fructu pihs brenbus
•iibuncinalishispidulo mrcicarpus brevitr ovatis.

Il. lib. in glaroosis vulcamcis monlis *Elbrus* propè *Derwend* Kotsch
N^o 252.

Plantula blpollicana, habitua, Oorum maguitudo epeuminum mino-
rum *G. mtncali* a quo prater folia angusliora valdu revolula brerissimè
ncc longii muLronala muu'uae longissimo lacinlarum corolle statim
diguoscilur *G. Aleppicum* quoque affDne differt caule crassiorl valde
quadungulo, folus ncrvo albo vahdo percursis, corolla albâ fèn* dup!6
majori

GALIUM PHILISTAEUM BOISS (Sect *Xanthopanne*)

6. annuum lotum vinde glabrum valdè scabridum, caule ascendenti a basi ramoso ramisque quadrangulis retrorsim aculeolalis dense foliosis, foliis 6-8 DIS internodi aequantibus rafenoribus oblongo-ellipticis superius linearibus omnibus aculis planis vix revolvens scaberrimis tenacibus, floribus ID umbellulas densas breviter pedunculatas bracteis floras ferè superius suffultas dispositis, pudicibus omnium togitudinæ, corollae luteolae extus hirsuta? lobis oblongis mucrone brevissimo lennatis, ovano albo-hispidissimo

Hab in Palaestina prope Gaza (Boiss.)

A. G. Pamphylia, mtrteato et Judaea fauili; dicitur scaberrime, floribus brevissimis pedicellatis dense umbellatis, his nobis affinis est *G. capitato* D. et Gb et praeferunt *G. trackyantho* Boiss. quod panicula; multo ramosius pedunculis elongatis, capitulis florum bracteis linearibus brevibus suffultis, cuspidatis lobis corollae vix breviter differt.

GALIUM LYCIUM Boiss. (Sect. *Tnchogaha*.)

G. perenne basi suffruticosum caulibus numerosis intricatis erectiusculis cortice albidâ venis sub lente tenuissimis puberulis quadrangulis fragilibus, foliis sensu ellipticis tenuibus plants vix subrevolutis lucidis glabris margine et fere parvo et minutè scabridis superioribus diminutis oblongo-linearibus, ramis patulis et breviter hispidulis, floribus secus ramulos subverticillatis pedicellis setaceis hispidulis eis dupli longioribus divaricatis suffultis numerosis minimis paniculam effusam formantibus, corolla; purpurascens extus hispidulis lobis oblongis ID mucronem setaceum lobo triplo brevior attenuatis, ovana albo-hispidissimo.

Hab. in nigris prope *Elmalu* Lyciae ubi legit et mihl comiu, ci. Pestalozza.

Ex affinitate *G. earn* et *musiformis* ab eis diversum foliis glabris tantam scabridis, caulibus glabrescentibus, ramulis breviter et tantum sub lente hispidulis.

GALIUM SABBOTINUM Boiss. et Heldr. in pi. Anat. CM. 48*6 (Sect *Erythrogaita*.)

G. perenne glaberrimum basi suffrutescens, caulibus numerosis as-

ccidentibus clongalis ngidulis quadrangulis laevibus lucidis tenuissimis paulo supra basin stridite ramosissimis, foliis Jain sub anthesi exsiccatis angustissimè lineari-bus marginè laevibus involutis inflexis J-6 nis ramealibus floralibusque bimis valdè abbrevialis, flonibus minutissimis seeds ramulos tenuissimos vel in glomerulos trifloros oppositos sessiles aut brevissimè pedicellatos vel solilanos vel oppositis sessilibus, bracteis minimis glaberrimis oblongo-lineari-bus, ovano glaberrimo oblongo, corolla; purpurea subclausa lobis ovatis In mucronem inflexum crassiusculum cis dimidio brevior attenuatis, stylo brevissimo ad basin usque bipartite, stigmatalibus globosis mgris.

Hab In rupibus *Town Pamphyltci* inter *Maria* ft *Adalta* alt circ 4000' fl Julio (Heldreich I)

Caulis sesquipedalis ramosissimus, ramuli flonibus strictiusculi tenuissimè liliformes vel pollicaris numerosi paniculam effusam multifloram forisiantes, flores illos *G. purpurei* dimidii minorcs. Ab eo pretereft differet foliis raris deciduis, flonibus subsessilibus, etc Naturaliter collocandum propu *G. rupestre* Vis et *G. suberosum* Fl Grace qua quoque pedunculis inflons gaudent sed longè differunt flonibus majoribus, corolla; segmentis muticis, stylo apice tantum bifido, etc , etc.

Gal. incurvum Fl GRGC lab. 132 est forma pumila brevifolia paniculâ effusâ, foliis falcato-subincurvis *G. melananthen* roei, In Grætae montibus occurrens et quam cl Ueldreich quoque retuht, *G. melanantherum* var *mcurva* dicenda

Pro VALANTU ABUTATA Boiss et Heldr Dug VI pone VAILLAHTIA APBICA Boiss et Fheldr navi ex Icone et descriptione hæc planla est ipsiffl Simum *Galnmi apneum* Fl Gracatab 426

VALERIANR>E

VALEBIANA OLIGANTHIA BOISS. et Heldr. in pi. Anat. exs. 4846.

V perennis glabriuscula, radice surculos tenues nudos apice foliosos sessipè edenti, foliis tenens ad collum congestis in omnis paucis parvis ovato-rotundis integris longe petiolatis ceteris pinnatis parvis segmentis lateralibus 2 raris 4 ovatis subpetiolatis tenuiali tunc majori petiolulato ovalo-rotundo, caulibus scapiformibus tenuibus supernâ

pared et BUDDkbotomè ramoste medium versus ferentibus folia oppo-
alta minima lodlvisa vel pinnalipartita laciniis liDearibos, cyan's valdè
pauciooris bifidia corymboso-capitatiB terminalibuB, bractete oblongo-
linearibuB margine sub lente ciliatulls, floribus roseis.

Hab. in regione alpnâ month *Stavroa* Pisidte in umbrosis ad saia
alt. 6000-7000'. (Heldreich.)

Folia com petlolo i-1 k/% pollicana segmentiB laieralttnu t 4|f-1 11-
neaa terminali 3-4 lineaa dlametro latls, scapl 6-8 pollteares sopernè
aemel vel bis ramosi ramiB strictis flHformibus, cyme mmlnia) 5-7 flora.
Species diatQctffisma propè *V. aoeootUem* collocanda.

CENTRANTHUS KLATDB Boiss. et Heldr.

C. pereniis glaberrimus caullbas numerosis elatis sspè glauco-
CSBSUB cnuaffB teneris valdè fistulosis foliosis inferne ramoAs Bimplicib-
buve, foliis lads oblongis acalia laflmis in petlolam attenuatls exteris
sessilibus Bupremis ad basin ramorum floraUnm a bashatori obloDgo-
lanceolata atteiatio-subacaminata, ramla oppositls dlssiUs atibreviatis
dlcbotomls cymferls paniculam lODgissimam angustam laxam forman-
tlbm, cymta deDsiosculiB, bracteis Uoearibns puberulis, ealcare tubo
Bubbrerlorl ovarlo triplè longiori, genitaUbuu limbo dupld longioribus.

C. kngiftorus sat. *UAifoha* pi. Heldr. Anat. exs. IBM.

Hab. ID declivibus lapidosis Anatolis in Pisidli ad lacnm *Egyrdtr*
(Heldr), in *Tauro CUioia* Kofschy N» 845, in tolâ regione inferior!
AntlUhani. (Boiss.)

Planta 4-5pedalis, folia inferiora a-apolucarla 9-40 Un. lata. Pani-
cula sspè pins quam pedalls. Quoad cbaracterea florum valdè af&ols *C.*
longifloro Stev. ab eo tamen sat specified dlfferre vldetur foliis bre-
TioribvB multb latioribus obloogls nee lineari-ladceolatts, panieula
mult6 longioriB ramto omnibus dlssitls nee confluentibus.

GBNTBAOTHOS JDNCHIS Bolss. et Heldreich.

C. perennifl, rblzomate aufruteBcentl multtcauli, caullbos tenuUnu
vtrgatis rlgldlB Jnncels infernè divarcatim ramosia oUgophyllis, foUis
Indmia llineari-spatinilatis obtusis cateris deflexa anguBUSahni llinea-
ribus aeiitmiBiillB, floribus in cymas paudfloraa fiwlcullformeg ad
aplcem ramorum tenuium nudorum Bids, bnctela oblongo-linearibna

bravissimis, calcare lubo corolla; subacquilongotario quadruplo longiori, gemtalibus limbo duplo longioribus

C. longiflorus w. *angustifolia* pi. Tayg. exs 484B.

Uab. ad rapas *Kakochoni* dictas in regione summâ *Taygelt*. (Deidr.)

Caulis sesquipedales internodi divaricati longe et rigide ramosi lenues, folia sparsa intermedia pollicaria lineam lata superflora multo breviora, corolla cum calcare fort pollicaria. Facies *C. angustifolia* a quo caulis proportionem distat dignoscitur. Affinis *C. longifloro* a quo differt caule tenui rigido, foliis angustissimis deflexis, floribus in cymis paucis imbricatis dispositis, corolla *C. longiflori* insuper ad calcem insertionem sessilis est, in *C. juncea* autem insertione calcaris et ovarii lubulo brevissimo separantur.

VALBBIANELLA SOYBBI Buchinger in hort. (Seel. *PnloecOa.*)

V. annua glabra a basi ramosissima, foliis inferioribus oblongo-spatulatis in petiolum attenuatis, superioribus sessilibus oblongo-hanceolatis inferne lobulatis, ramis fructiferis subincrassatis fistulosis, floribus in fasciculos corymbosos capituliformes minutos dense congestis, bracteis oblongo-linearibus integris, truncibus dichotomiarum persistentibus abortu unilocularibus angustissimè hinc cylindricas dente subulato recto apice subuncinato denticulisque binis callifloribus coronatis, fructibus capitulorum maturis deciduis ovato-oblongis subinflatis flubincurvis dorso irregulariter sulcosis trilobularibus loculo **fertili** angusto sterili altero loco fertili sequilato altero duplo latiori, dentibus terminalibus ternis solummodo callifloribus superne fere obsolete tertio subulato brevi fructus curvaturam spectanti sublocurro.

Hab. in montosis totius Graciae, in *Hymetto* et *Penteluso* (Spinier, Bolss.), montibus Peloponnesi, Creta in montibus *Lautti*. (Heldr.)

Species habitu, fructus formâ *V. cchwatam* pro consuetudine varietalium earum dicitur babul valde referens egregie tamen diversa ramis fructiferis tenuioribus minus incrassatis, capitulis minoribus, fructu seorsim nee enim capitulo deciduo minori cum denubus vli Jun. longo multo nee fungoso duro, dentibus forma diversae, localis interdum insquati nee nullatis angustissimis.

VALBBIANELLA DIPLOBODON BOUJB. (Sect. *Psiloeala.*)

V. annua **cabriuscula** oana fere a basi raraosa, ramis brevissimis,

cynus coufertis, bills oblonge linearibusque oblusis Integrals, bractefe llinearibus, fructu glaucescenti parvè glanduloso-puberulo linear! dono convno unfnervi facie sulcato, loculis binis sterilibus Quoforndbus angustissimis basi aiae bluas rotundatas dilatatis, coronà campaduhtt obliquâ fructu duplò latiori tridentatè dente Intermedlo brevuimo transversè latiori reticulato-oervoso argutè denticulate, laterallibus horizontaliter aubrecunla altero fructu longiori linear! a medlo acutè denticulato, altero dhnldò breviori.

Hab. ad radices orientates AntUibani Inter *Bascheya* et *Daauueum* In sleds, led Malo laeunte.

Valdè affinis *V. dvdonti* fioiss. Diag. differt caullibus 1-9 pollicari-
dus coDrertfloris, fructus paulò majoris coronè dilatati, denlibus paulò
latioribus pectinatis nee integris. An tamen bujus varietas?

Vol. remota Boiss. et Hohen. ID Kotsch. pi. Pen. bor. 1846 mlhl
nunc tantòin status junior *V. solerocarpa* F. et M, esse videtur.

YALEBJANBLLA DACTYLOPB^ALLA Boiss. et Hohen. In pi. Kotsch. Pen.
bor. (Sect. *Psilocala*.)

V. anoa ghabra, caule plds minùs ebto supernè plurles dlcbotomo
nunta divariatis, mnulia fructiferis non lnensatis, floribus In oapl-
tuloa tenninales parros congestis, foliis radicalibus integriB oblongo-
lleanibus obtusis, caullis subdigitatis ladinis IntegriB llinearibus late-
rajibus adgustis intermediâ 3-6 longior latiorique, bracteis linearibus late-
rajibus bispidulis earinatis, fructu pyramidato-ovato puberulo-antteè
profundi sulcato dono convexo, coronà regulariter 6-7 dentatâ erecto-
patula dentibus irlangularibus reticulato-nervosis In arialaa pataJaa
undnatas atenuatis, loculis aterilibus cylindrica, loculo fertill com-
planato duplò latiori sectione transveni ellipUco-Hnearl.

Bab. In laputosis montis *Blbnu* Kotschy N^o 94 k a 493, ad radices
AntUibani. (Botaa.)

Cbnlea 4^M pedales, fructuB absque coronâ llineam tantùmB longos,
corona com dentibus tno feè bmlor. *V. uncinata* fonn otolB
affinis et eadem fructuB Bstructurâ gaudens, hsec tamen a ottri specie
differt foliis Incuo-plnnatillidls, superiorum bdnlls dentatis, fructu
IODgiori, loculis iterUibus fertUl quodropl6angusUorU>UB.

DIPSACEJE.

CBPHALARIA KOTSGHYI fioiss. et Hobeo. in Kolsch. pi. Pen. bor.
1B46. (Sect. *Upuxphalw.*)

G. caule modice elato valde striato sub lenle brevissimè et densè
pilis patulis puberulo supernè parcè ramoso, foliis puberulis lyrato-
pinnatipartitis dimids peliolo piano suffultis ceteris sessilibus, seg-
mentis Uteralibus utrinquè 1-4 parvis oblongo-lineanibus a superior!
ad inferiorè sensim decrescentibus deo Uculatis Integrisve superior!
multobes major! oblongo argute denticulato, omnibus acutis subacu-
miatis basi angustis secus costam decurrentibus, capitulis paucis ter-
minialibus logiusculis pedunculatis medlocibus globosis, involucri
phyllis paleisque corollas subaequantibus ovatis brevissimis ateuato-
acuminatis adpressè hirsutis apice nigro-spiculatis, corollis Davis
aequalibus, involucelli dentibus 8 subulatis subaequalibus, frudu...

Hab. in declivibus septentrionalibus buds *Dudera* montis *ElWut*
Kolschy No *iti* A.

Bipedalia, folia inferiora cum petiolo semipedalia, segmentum supe-
nus 4 poll, longum h 4/5-2 poll, latum. Afons *C. aipince* quo differt
segmentis foliorum lanceolatis subsqualibus, caule elato, paleis, lan-
ceolatis longè attenuatis. *C. emtauroides* foliis coriaceo aliter (ivto)B,
paleis duris ovatis gibbis vel breviter puberulis longiora distat.

CBPBALABIA BTBUJIPILIS Boiss. (Sect. *Lepioephalus.*)

peradde basi suffrutescens tota tomento brevi denso laesceq
pilis lepidoto-stellatis constant! pannosa, caulibus erectis teretibus,
foliis ad extremitatem caudam sterilibus breviter aggregatis et secus
partem inferiorem caulium ferillibus oblongis in petiolum longè atle-
noatis obtusis vel acutiusculis Integris vel supernè obsoletissimè den-
tatis, sicut in pedunculis ad pedunculorum basin angustè hirsutis glab-
ris, pedunculis monocephalis longis oppositis glabrescentibus sobri-
ditas, capitulis globosis medlocibus, involucris phyllis paleisque scarieis
pallidis tenuissimè tomentosis ovatis breviter acuminatis, corollis late-
aequalibus, Involucelli dentibus 8 subulatis cunctis quatuor ei mptto

orbs fructu paulò brevioribus calycem inferiorem superantibus, quatuor internodiis trifloris minoribus.

Habitat in siccis dumosis ad radices montis *Gebel Sehik* (Hermann) Anlibabai supra *Rasoheya*. Legit flor. Jul. 1840.

Flora 3-4 pedalis, folia inferiora cum petiolo 4/5 pedem longa 3-4 un. lata, pedunculi e caule 3-40, capitula fere map. *C. leucantha*. Pulchra species ab omnibus fons *C. omtauroidea* distinctissima foliis integerrimis, involucri dentibus inaequalibus, etc.

PTEROCOPHALUS CAHAGNICUS Bolss. et Heldr.

P. annuus vel biennis, caule tereti tenuissimè pubescenti-virescente praeaeque pilis sparsis patulis hispido inferne folioso supernè plures subdichotomè ramoso, foliis eodem dupli in duntaxat omnibus plina uparito-lyrae segmentis oblongo-brevioribus in petiolum attenuatis acutè deorsum terminus major), foliorum superiorum segmentis lanceolato-linearibus acutissimis integris, capitulis longitudo pedunculatis, involucris pnyllis floribus dimidiis brevioribus tomentosis albidis oblongo-linearibus in cuspidem vridem s^aarroboris attenuatis, corollis cruleis adpresse velutinis non radiatis, involucri oblongo apice subattenuato supernè ad costas dilatato utoduloso dentibus linearibus brevissimis calycis stipite brevioribus coronato, calycis setis 49 plurimò involucri subduplo longioribus.

Pt. plumosus pi. Anat. Heldr. ez. 1846 non Coult.

Habitat in rupestribus apricis Tauri inferioris Inter *Karamon* et *Erineftalt*. 3000'. R Junto. (Heldr.)

Pulchra species a me penitus confusa cum *Pt. plumoto* cujus fructum habet et qui differt foliis inferioribus indivisum, involucris pnyllis rectis floras squantibus vel superantibus, involucri apice non attenuato > dilatato sordidè glanduloso

PTEROCOPHALUS GOUTMI Bolss.

P. annuus vel biennis lotus pube brevissimis densè albae longior patulè tomentellus viscidulus, caule tereti fere aequali subdichotomè nobilissimo, foliis omnibus sessilibus oblongis plinnatis laniatis Uocarlbu Iterò aoutà dentato vel piniutifidis Jwull super coslam mediam latam confluentibus, capitulis diimerois pedunculis longis patulè pousis suffultis, involucris adpressè hirsutis phyllis laeo-

labc in jnucronem allenuatls corollas squantīnus, coroilis adpressē hirtis flavldls exterioribiis subradiantibns limbo atropurpneo, Involucello cylindrico apice truncato ad angulos breviter dilato In coronam brevem integrant membranaceam abeuntl In centra areolse lerminali vaglnutt cylndrfcft truncate membranaceâ calycis stipltem Includeoll aucto, calycis setls drc. IS plumosis.

P. brtou Goult. Dips (spmmina minima submonocephala.)

flab, in deserto *Arabia petrea* Paiaestlnsp flnitlmo, monte *Çarmeh* (Boiss.), *Ptma austral** Autber N» 4708, Kotschy N° 85i.

Planta pedalis elatlorque rarlòs et in sterillsslmis nana monocephalaeque, capitula magnlt. *Pt plutnon* a quo egregle differt follis inferioribùB profindè dlssectiB, corollis marglnallbus atro-purpureis nee caeruleis, Involucelil coronâ membrana edentoia nee dentlculiB mlfanlB constanti Nomen CouUerlanm e formâ abnormi ortum mutandam eiat.

PTBHOCBPUALUB AHABICUS BOISB.

PL perennlB baal Buffrulescens densè caespitobOB nanms cineraBcens¹ Bub lente pube breviBsmâ crispulâ densè obsituB, foliis radicalibus caullnlBque angutè oblongo-linearibus basi attenuatis obtnsiusculia vel integris vel dentalis vel saepiùs ad medium usquè pectinato-pinnatifldis lobla oblongo-linearibus, caulibus teretibus pumlliB rlgkfu a basi oppoBite ramosis 4-3 cepfaaliB, pedunculis rigidie, involucrl tomentello-cinerascentis pbyllls 5-7 oblongo-lanceolatis acutis florea jBquantibus Buperantibuave, corolla adpresse hlrlis Inteia, involuoëffò (Qonion) adpressè hirtio apice non angustalo in coronam Inlegram brevissimam abeuntl, calycis setis 46 plumosis.

Hab. In lapldosis lateris septentrionalls *Jugi Tih* infra *El Bakmeh* alt. drc. 4000'. Legi florere incipientem Mail 4846 initio.

Ftlla 40-45 Un. longa t 3 lata, caules cam pedunculis 1-4 polliceas, capitula mlnuta illls Pt. *ami* dlmidio mlnora. AfBnlB *Pt. stricto* Bolss. el Hob. quod differt indumento viacdo, caulibus multb ramosiorilms, folds oblongis, corollis longteslmis.

SCABIOBA LBPTOPODA Bolss. (Sect. *Cyrtostemma*)

Sc. aonua tola parcè et breviBBimè rab lente puberulo-scabrida caule, Lenul tereti a basi dichotomè ramoBiulmo, follU amMtu oblongte pifnaliparUtlB basi In petiolum alialum allenualls laclnlls Hnearibin ~~don-~~

galiB subinjegna foliorum inferiorum latioribus obtusis superiorum lenulter filiformibus aculis, capitulis multinulis longè pedunculate hexalme corymbosis, involucri phyllis 6*7 e basi laterali densè albo-birsuta linearibus hirtulis viridibus flora marginales HOD squantibus post anthesin deflexis, corollis extns hirtulis albidis vel pallidè luteis. Ubus exterioribus radiatis lobis oblongis subdilegri, capitulis fructiferis ovatis, fructu turbinate parvo, involucelli basi minima subrotunda tereu 8 striata ad strilas dialata, coronam tubo longiori laterali hemisphaerico 8 nervis validis arcuatis confluentibus totidemque foveola intermedis exarctis roagine brevi membranaceo placcato-crispo ciliato terminatis, calicis interioris subpeltatis basi vaginatis membranaceo dactilo e coronam non everso, setis 6 corollae duplo longioribus.

Dab. In areosis *Arabis petreæ* Palaestina conterminal et regionibus *Amalectorum*, legi Aprilis 4848.

Planula 8-10 pollicans, folia majora sesquipollicaria linearia 6-8 lin. longis 4-4 1/2 lin. latis, pedunculis saepe semipedales, capitula illis *So. maritima* dimidio minora, fructus cum corollis vix ultra lineam longus. A. Sc. *semipapposæ* cul habitu affinis ut et a *Se. maritime* differt fructu brevissimè turbinate, corona tubo longiori valde peltata hemisphaerica ciliata nec campanulata. *So. arenaria* Forsk. — *Asteros-paiu arenarius* Vis. *J. Eg.* tab I bcc forsitan spectat sed valde dubitanter nam capitula fructifera a cl. Ylaiani nempeberica differunt ealydque tubus ut oblongo-cylindrico corona brevior exhibetur. Planta Forskale insuper planè Igaota est nam soils verbis • *pan alba calyce Ungiori* • insignita. An quoque *Ast. pattnatus* Lag. ex patria Arabia hoc spectat?

SCABUMA BAKHOPBILA Boiss. (Sect. *CVrt<wt<flima.*)

Sc. annua breviter bracteata-scabrida virescens linearis, cinerea brevibus procumbentibus filiformibus a basi alternè floriferis ~~Sexuoso-in-~~ fractis aopè bracteatis, M. a radice hinc oblongo-linearibus obtusis tategris vel basi perinatidis laevibus oblongo-linearibus terminatis mottò majori, caulibus angustè linearibus etongatis lotegerrimis, capitulis multatis paucifloris pedunculo filiformi erecto-patulo elongato longiori buffullo, involucri phyllis 6-7 linearibus acatis inferè praeferunt Urtis capitulo longioribus, corollis multimis carnatis non radiatis, capitulo fructifero breviterico, fructu turbato parvo, involucelli tubo parvo subrotundo ferè striato, coronam tubo paulo

longiori duplque latiori brevissiraè obconclâ 8 nervis arcnatlm confluentibus totidemque foveolis Intermedlls exaratt margine brerl membranaceo pncato-crlspo extûs blrlulo terminate, calyds interioris stlplte corona squilongo ad aplcem usquè vagina membranaceâ tabulosfl dnclo, sells 1-4 coronae squilongis, sxpè brevloribus tenuiaslmis.

Hab. in arenosis deserti Arabid loco *Ramlo* dicto inter jugnm Sinal-Ucom et radices jugl *Tih* Bito. Legl April. 1846.

Sæpè acaulis capitulis in centro rosulae sessilibus vd 3-4 pollicarls, folia 1-4 4)3 poUicarta 4ja-4 Ita lata, capitula florifera magn. pisi, fructifera duplô majors, fructus cum coronâ sesquilineam longas. AdDnis pracedenti a quâ dlstinctissima mioutie, foliis mtegris, capitulUB minimis non radlantibus fructiferis spbseiids, setis calyds brevissims, etc.

SCABIOSA PALJGSTINA L

Sub hoc nomine plures species ab auctoribus et a me ipso confuse fuerunt quas blc eiponam. En vera *Sc. Palmtince* diagnosis.

Sc. annua pills minatissimis dblsque sparsis bireuta, caule elato ramoso ramis pedunculisque strictis loDgissims, foliis inferioribus oblongis basi attenuatis dentibus ssep^ sublyratis, supenonbus trifldls lactmis lincan-lanceolatis acutis integris intermediâ majori, Inrofacri pbyllis basi birsulissimis lanceolatis acutis corollas marginales aequantibus vd eis subbrevioribus, corollis albido-lutescentibus radiantibus laclniifl trifldls oblongo-HoeariboB intermediâ subquadrifldâ, InrolncelU tnl deaæ albo-pUosi basi teretl foveolis aequilonga, corona tubo BQD-dupl6 longiori 31-36 nervi, calyds Hrabo longè sUplato setis quinque scabrils corona brarioribas.

Hab. in *PalasUnA* ubique Bolss., drcâ Aleppum Kotschy N° 487, In *Pvma matron* Kotschy N° 439 (forma plngms ladniis follorum lado-rlbnş capitulis corollisque majoribus).

Bsec est sola afünium a me In Palastinf observata et omnlno conveniens descnptom Lmim qui folia inferlora indsa corollas albas calyci aequilongas ladnils trifldls didt. Icon Jacq. Yiod. I tab. 96 quamris mala et corollas nlmis dentatas exhibenB bane spedem potlñs quàm sequentem refert.

SCAHOSA CALOCKPHALA BOISS. (Sect. *AttWOOepkaliU*.)

Sc. annua brevissimè asperula ad follorum basin parct seiosa, canle

recto opposite ramoso, ramis pedunculisque kmgtslms treats, fo-
ni inferionbus oblongo-spatbulatis crenato-dentalis basi breviter at-
tuatls superioribus lyrato-plonati-partitis laciniis inlegerrimis lale-
[ralibus utrinque 8-3 obtongo-linearibus intermediis; moH6 major! ob-
longo-lanceolata, involucris phylhs adpressiusculè faientis oblongo-
lanceolatis acutiusculis corollis margatU dmidib brevtonbus, corollis
arasnè caruleis exterioribus valdè radiantibus laciniis usquè ad basin
palmallm lateralibus 3-4 intermediis 4-6 partitis, tub! involucelll densè
alboHosi baa) teretl foveollis breviori, coronâ tubo subduplb longiori
20-24 nenia, calycis limbo longiuscatt stipitato aetis 6 breviter ex-
sertis.

Hab. in Ci/und Kotschy N° 255, SyrxA Aucher N° 770, in monte
Torbot propè Tripoli. (Boiss.)

A. Sc. *Pakatvna* distinctissima corollis caeruleis multè magis mul-
tifidis involucrum longè superantibus

So *Alepptea* Coult. cujus propè *Bierosolymam* pauca legi specimina
a duabus praecedentibus dffert staturft 8-4 pollicari, corona 80-S6
nervi, foliis vel mdlvisis longè linearibus >el pnesertlm intermediis
trlparUUs laciniis longè^d linearibus, ejus corolla? ut in *Sc. Palcestina*
radlantes sunt

SCABIOSA rEBSicA Bolss. (Sect. *Asteroeophatus* Coult.)

Sc. annua tota tenalsslmè et densè puberata canescens, caule ercrtio
tenul fliliformi ramoso, ramis pcduticalisque tenulbus longissimis erect-
tis, foHs omnibus pinnatiparUUs, radicalium laciniis abbrevialis ob-
longo-linearibus lobulatis aequilongis, Buperionim linearibus integris
intermediis longiori, involacris adpressè hirtl phylhs elllptico-Uneari-
bos acuis floras exteraos non squantibiis, corollis e sicco carneEs
eterioribus modtcè radiantibus laciniis ad medium trlfdiB, Involucelll
tubl pills albis densè hirsutl basi teretl foveollis breviori, coronâ tubo
longiori 14-26 nervt, calycis limbo breviter stipitato setts e coronâ
loogè euertis.

Hab. In Persiâ australi ad rulas *PenepoHs* Kotschy N° 8<l, Persia
boreali ta monte *Elbrut* propè *Dervomd* Kobtchy N° 847, In provinciâ
Talbscta G. A. Meyer sub So. *rotatd* MB.

Planta rade Sc, *Uaknmtoam* refrens a binis praecedentibus distinct
indumento, caullibus tanuloribus, foliis omnibus plnnatpartitis, capl-
UillR pirvis Sc *rotate* MB e descripilone el speclmloibos cl. Done-

nacker differl corollis squalibus, Coins inferloribus indivisis, caullnjj inpartitis lobis lanceolatis integerrimis.

SGABIOSA ANATOLICA Bolss. (Sect. *Asterocephalus*.)

Sc annua densè et brenssimè pubenila ad basin follonun dilate, caule a basi ramosissimo ramisque albidis valdè patentl-divaricatis, follis omnibus pinnatipartitis ladinlls Inlegerrimis laterallbns S-3 Hneanbus intermediâ foUorum inferiorum oblongo-lineari superiorum multb majon linear, pedunculis longis ngldis, involucri basi nrsutl pbyllis virescentibus scabrida lanceolatis acutis flores margfms Buperanibus fructirens reflexis, corollis csruleis marginalibus breviter radlanbbus lacniis ad medium usquè in lobos 3-3 oblongo-Hneares flssis, capltinis fructifens hemisphxrcis, Involucri tubi densè albopUosi basi tereti foveolis subxqudongâ, coronâ tubo paulò longiorl 3S-36 nervlâ, calycis limbo stipitato setis 5 e coronâ breviter exsertis

Hab. in Cans et Lydiæ monlams, in monte Hesogi propè pagum *Derwent* et in planitie *ybtrenn* (Boiss.) ad agrorum margineB ad *BmMour* Pisidue (Heldr)

A nobis dit formis *Se. Palastina* adnumerata a quâ nt et a *So. eo-locephaiA* differt foliis omnibus pinnatipartitis, ram valdè divaricato-patentibus, involucri pbyllis corollas marginis vix radiantes superantibus. *So. rotata* et *Sc. Perstea* ramis erectis tenuibus, capltulis dlml-dlb minoribus longius differunt.

Sc Auohen Bolss. quam quoque in collibus ad *Damasoum* legi varlat limbo calycis sessili vel breviter stipitato sed a *Sc. Palaatina* et *AleppteA* capltulis subradlcailibus, corollis squalibus, follis indivisis egregiè dignoscitur

COMPOSITAE.

TR. CYNAREM.

CALENDULA GAHUNBIS BOISS.

C. annua P minùte glandulosa calerum glabrescena, cmlibus elatis stnctè ramosis acutè strlatis, foliis oblongo-lanceolatis obtusis mucro-

nulaUs basi subattenuatâ rotundatâ breviter decurrentttnu, rameta ~~angustè~~ linearibus setaceo-acuminatls, capituls magnls, iuvolucrl brevesimè puberali pâyHis angustissimè elliptico-lanceolatls acnnaUs, ligulls pallidè citrinis involucro 1 \jt pl6 longioribus, disco coacolori, achenfis omnibus cymbiformiter carvatls eiterloribos membranft tenerft Integra planfl semlne laliori utrinquè marginaUs dorso tuberculatw intûs carinatfs apice In cornu non productls, interioribus cylindricis Bemidroolaribus dorso luberculatis inttas Isvfbus.

Hab. inOin4(Piaard).

Magnitudine captuloram et bablta affinis *C. efficalx* qua a nostrâ specie differt membranâ aebeolorum marginallam durâ intôs revolutâ, acheniis interlprlbus crassloribuB non seiDicirculariter sed arctiBsbifir IOVOIUB latere interior! sulcatis nee teretibus

CALENDULA LUSITANICA Boiss.

*C. perennis*P Bupernè parcè gianduloso-vlscidula caeterâm glabn, ramls abbreviatis feliosis parcè ramosla, follis evatts rotondatis obtu-aisBlmia integrls vel denticullis punctifonnibus parcè obsitis inferioribus In petlolum brevem basi confractifi supenonbus sessilibus auriculato-amplexieauUbtB, capitulis magniB, involucrl breviter papUoat pnyllis lanceolata aetis, llguhs citrinis Involucro plus dupl6 longioribus, disco conoolorlt acbemis...

Hafr. in petroBls prope dntra Lusftapl x ubi legit d. et am. Gutbnlck.

Foliis rotundatia obtusissimis ab omnibus speciebus mihi notis dls-tincta sed quoad radlds indolem et acbenfa adhOc ignota et rursûs obserranda.

CALENDULA PALXSTINA Boiss.

C. annua scabrido-Tlscidula a basi ramosisslma ramis ereclis, foliis lanceolatls ve] oblongo-lanceolatis acuUs margne obsoletè unduiaUs Inferioribus basi subattenuatis caetens basi subaurieulatls sspè bre-Tlsslmè decurreotilUs, capitulis minutls, Uguhs sulphureis involucro papUoM visddulo dupl6 longioribus, acheniis margnallbns dorao spinulosis membranfi recta profiindè crlstato-dentatâ utrlnquè marginatls ovatis rostro recto eis dapl6 longiori superatis, Intermediis cymbifor-HQbus inflatis subrolundls dorso parcè spinulosis intûs carinâ alacfbrai

.uitlis, inlinus aniujaribus dorsu subbiserulidsr spuiuiotus cailerum laevibiis

Dab in declivibus inter *Jtuaalem* el *Jmcho*, in monte *Carmeto*.
Leglvere4litt6.

CauleB 4/J-a pedales, capilula ea *C. tavenns* vix aequantia, acbenia marginalia 6-8 cum rostro 40-41 lio. longa, mtenora omoia plus minus membranacea. Affinis *C. UeUaUe* Gav. qua; dffert capituUs duplò. nutjonbus, achenns exlenonbus cymbiformlbus, intermedlls lanceolate dentatis etc *C sancta* L cui ex patnâ meara plantam primbm trdweram e descnptione semmibus obovatis urceolatis lievibus aliena est. *C. astenas* F. et M. differt aobemu qxtenoribus 4-4 4;S poUicaribus gracillibus subulalis non alatis inlenonbus laUssim6 membranaceis dorso sobLuvibus

ECINOPS SYRIACUS BOIS

E. caule sulcalo simpliu 4 rarfus 3-J cepùalo folioso densd ('bnduloso setuloso, folus suprâ dense et breviter glanduloso-stlpitatis subtôs ad nervos glandulosls inter eos adpressè camls lanceolatis puinatfparlitls laciniis lanceolatis plbs minus lobatis lobisque in spinas elangalas Qavidas attenualis, supenonbus sensim diminulis, capitulis nungnis, setis albis basitaribus in\olucmm dimidiam xquantibus, squanus ab inrcrloribus ad intimas scnslm elongatis lndmis aplce pared viscidulis spatbulato-dcltoldeis breuu-r acuminatis denticulalis, intimis ad medium usquè concratis inaKtualibus allis margine serrulatis subulatis ahis apice flmbnalis, pappi sctis in uupulam usquè ad apicem concrelis.

Hab In Syriâ ad rupes supri pagum *Darfatsch* prope *Orontem* fluvium situm

Planta 8-3 pedalis, folia utnque ad nervos viscida inter nervos subtûs cana *Eie* indumenli naturâ refert *E. vtscosum* et *E. Cretioum* (infra descriptum), ab els cactcris neglectis pappi sells ad apicem usqu4 conrrelis statim distinguitur

EciiiNora HKLDHBICIIH BOIBS in pi. Anat. exs 4846

E. caule hmmlis adpressè canoscentt eglanduloso 4-3 cepbalo, foliU laiceolalis radcalibus numerosu petiolo brevi basi in vaginam densè et longfe spinoso-pectinatam dilatato suffultis, canllais brevronbus basi aunculalis omnibus suprâ pai'oc .iraoeosis glanduloslsque vlrantibus

sublūs dense arneoso-cams plDnatipartitis, rachide alata, parlitlonibus lanceolalls foliorum inferiorum Inter se remolls lobatIB flarldo-apinoais, capitalia magnis abldfs pedunculo non glandnlOBO suffultis, setis involucraro dimfdium subsquanllbus, squamis glabrls exterlonbus setas oon superantibus aplice spatbulato-subdeltoldefis breviter pectlnatis carlnatis In spinulam abeuntibus, Intlmls llberfs senslm acuminatis teneris a basi Bmbrlatis flmbrils striclls, pappi setis ferē ad medium usque connatls.

Hab in aridfs submontosls *Lyeaonw* Inter *Beychehr* et *Kontah*. Fl. Aug. (Heldr j

Foliorum formā et habitu *E. Penioo* mihi afflne videtur scd blc liabet partitlones foliorum longiores profundius lobatas, setas invoiacro trlplō breviores, squamas extenores longf pectinato-dllatas etc

ECHINOPS HACHOCIATUS BOISB

E. caule sulcato rubello breviter nibro-setoso prasteraāque glanduloso-blrto parcē ramoso, foliis Indumento setuloso-crlspo glandullfero densd btrtlB viscidls ntrlnquē sordldē griseis bipinnatipartitis ladnlls tenulsslmIB Hnearl-subulatIB ad costas splnasque flavldas tennes ferē reductis, capitulo soUtarfo magno, setis Invohicrf squamas Intlmas superantibus, squamis exteiioiibus setas non aequantibus aplice deltoideo-spatbnlatls breviter pectinato-clllatls abruptēacummatis apice visddulls, Intermedlls omnium florum vel superiorum in cornua valida canallculala alba capitulo duplb tonglora abeuntibus, squamis intlmis llberls linearibus obtusiusculis aplice flmbnatlm flssis, pappi setis...

Hab. In decllvibus calldls Judaes inter Son. *Saba* et mare *Uortuum*.

Foliis tenmter laciniatis cauleque glanduloso-setoso afflms *E adenoeaulo* a quo egregiē dlffert foliis glanduloso-birtis, squamis eiteerioribuB abrapte nee attenuatm cuspldatls clllatf s nee denticulate intimtoobtuBIBnberis

ECOINOPB POLTGEHAB BoiBS.

E. caule lenul teretiusculo araneuso-caoo eglanduloso infernē folloso 6upernē 4 rartna 9 cepdalo, **fbllis** Buprā coUum csoAgestiB utraqūe cams lanceolatis subblpinnatipartitis myrlacantbis lacralls angustē Ianceotato-fltllulatb ad splnas flavidas tenues ferē reductlu confertla a foHo medlo ad IUJUH basin decrescenllbuB, fottis catiHnls supcnoribus

parvis ad spinam infernè pinnatam reductis, capitulis mediocribus, sellis paucis involucri mutuo brevioribus, squamis externis setas superantibus apice subspathulatis longiusculè acuminatis ciliatis, intermedus florum ferè ODDIUM ID cornua canaliculata subulata numerosissima floribus longiora productis, interioribus libens integerrimis e basi lanceolatis aceroso-subulatis, papillis sellis...

Hab. in Syria areà *Damasoum* et *Tibenam* copiosè. (Boiss)

Sesquipedalis, folia brevia 3-4 pollicana in parte inferiori plantae confertationibus confertis, capitula spinis numerosissimis albis horrida. HÆC species quam juveni tantum vidi ab omnibus foliis tenuiter dissectis donatis et hinc descripiis differt squamis lotunia apice subulatis integerrimis nee filicinato-laceris

Echinops HUSSONI Boiss.

E caule sulcato simpliciter glabrescente remoliusculè folioso monocephalo, foliis linearibus lanceolatis basi attenuatis supra glabrescentibus subtus araneoso-canescens subintegris vel obsolete et irregulariter repando-lobatis acuminatis acuminibus lobisque brevibus in spinas flavidas tenues pilis minimis elongatis acuminibus inferioribus basi anculatis superioribus parvis ovato-linearibus, capitulis majore albidis virentibus pedunculo parvo et minute glanduloso suffultis, involucri sellis paucis involucri dimidiato brevioribus, squamis exterioribus setas paulo superantibus apice nigrescentibus spatulato-deltaideis in simpliciter acuminibus scaberrimis margine brevissime pectinatis, Intermediarum alterè superè in cornu canaliculatis flores squamæ attenuatæ, interioribus ultra 3;4 longioribus concretis apice obtusis breviter flossis, papillis setis ad basin ferè usque liberis.

Hab. in desertis *Arabie* JSgypti superioribus unde clarè prof. Husson scilicet retulit et plantam a me visam in borto Kahiræ coluit.

Planta 3-4 pedalis, folia inferiora sæpe 6-8 pollices longa sesquipedalem lala subintegra, superiora breviter lobata, flosculi albi. Species ob folia herbacea mimè nigra vix lobata insignis et distinctissima.

ECHINOPS CANESCENS Boiss. in Kotsch. pi. Pen. bor. 1846.

£. caule densè folioso simpliciter monocephalo adpressè cano glanduloso, foliis sessilibus auriculato-dimplexcaulibus oblongo-lanceolatis

utrinque supra peltidius Burtus intensis dense araneoso-canaliculatis pinnatifidis facie inferior! prominuere nervosis, lobis triangularibus in spinosis 4-3 flavidas eis paulo breviores abeuntibus, capitulis albidis breviter pedunculatis, involucri Bedis involucri triplici brevioribus, aquam externis setis sequantibus a basi tenui glaberrima sensim dilatatis apice spatulatis muticis vel spinulosis parvis lanatis, intermediarum una alterave in binam subulam interlobis longiorem flosculos aquantem saepe attenuate, latim ultra medium cordonis uncinatis acutis glaberrimis, pappi setis fere ad basin usque ubi fimbriolatis.

Hab. In monte *Elbrus* prope *Derbend* Kotsch. Mo 449.

Folia inferiora 3-4 poll., longa sesquipollicem lata ad medium usque lobata, capitula mediocria, flosculi albi. Pulchra species indumento caeco foliis tantum lobatis *E. allndum* referees a quo foliis characteribus differt.

ECHINOPS GIBBICUS Solas et Heldr

E caule sulcato a basi ramoso tota longitudine folioso parvis et brevibus setuloso viscido, foliis supra glabris setuloso-viscidis subtus ad nervos viscidis caeterum adpressis caulibus lanceolatis pinnatifidis, rachide lata, parvis lanceolatis profunde pinnatifidis lobis in apices breves abeuntibus, capitulis magnis, sellis involucri triplici brevioribus, squamis glabris ab inferioribus ad internodias sensim elongatis externis spatulato-deltoidibus acuminatis densulatis intimis ad medium usque concretis in squallibus lanceolato-sinulatis vel apice fimbriatis, setis pappi a basi liberis.

Hab. In saxis maritimis Crete ad *Mavromolo* prope *Kissamot* Heldr. pi. exs.

E. vucomu. pi. Cret. exs. 4847 Don DC.

Planta foliis supra glabrescentibus viscidis subtus ad nervos glabrescentibus viscidis inter eos canaliculis insignia, setis involucri squallidibus, involucri 41-44 lineis longo, flosculis albidis. Eam primum pro *E. vtooto* habueram sed hic pro cuius typo plantam steulam a d. DC. descriptam habeo differt capitulis spicatis elongatis interspersis intimis liberto, pappi sellis concretis. Planta *Urvillaeasa* cuius specimen pessimum in herb. Cand. exstat ab utraque diversa videtur.

ECBINOPS BICHWOPHOBUS BOISS.

E. caule inferne glabrescenti supernè cano valde sulcato dense fo-

lioso simplici monocephalo, foliis bipinnalipaniculatis laciniis areolatis convolutis subulatis longissimis spinosis supra glabra subtus angustissimi¹ cernis inferioribus petiolo tereti suffrutis superioribus sessilibus capitulum sessile magnum squamis supero-axillaribusve, setis dimidiam involucrum aquantibus fasciculatis, squamis exterioribus setas aequantibus apice spatulatis margine laevibus ceterum glabris extimis minutis caeteris deltoideis acutiusculis, intermediis subulatis florum superiorum saepe in spinas tenues floribus duplo longiores inferiorum flores sequentes productis. Millinis ad 3 longitudinis Inter se coactis apice inaequalibus acutiusculis fimbriatis, papillis sellatis; ab basin usque libens.

Hab. in Syria ubi legi loco non notato

Species insignis includit fructibusque foliorum aequante hinc 14; 1-4 pollicem Bsp. S pollicem longis hinc ceteris, involucrum florum inferiorum sapu. to-h 4 lin. longum, spinas florum superiorum 2-S 4; i pollicem tenuis subflexuosa; Aequantibus et longitudine lacinarum foliorum distincta

Echinops ADENOCAULOS BOISS

§. caule sulcato rubro simpliciter glandulis atrorubris aliis sessilibus aliis setulis aculeiformibus insidentibus densi exasperato, foliis bipinnatifidis supra virescentibus breviter glanduloso-scabridis subtus araneoso-caulis junculis remotis angustissimè lanceolato-lanceolaribus ad costam ferè reductis In spinas luteas tenues breves abeuntibus, folds summis minutis sub capitulo ad spinam ramosam reductis, setis copiosis Involucrum dimidium squantibus, squamis setasquantibus glabris apice spatulatis margine brevissimè denticulatis etiam inferioribus longè attenuato-subulatis, intermediis subulatis In cornua flores aequantia vel superantia saepe productis, Interioribus ad 8/3 longit. coactis parte hinc denticulato-serratia apice In squabua subulatis vel obtusiusculis fimbriatis, papillis selte ad medium usque coactis

Hab. in Gilead et Samaria circa *Noplose* copiose. (Boiss.)

Folia inferiora cum petiolo ferè pedalis 3-4 poll., longa, lacinias 7-40 lin. longas basi 4-H; S late, Involucrum magnum ferè sesquipollicare, k sp. precedent! distinctos laciniis foliorum non convolutis, caule superne glanduloso-echinato, squamam formam, etc

Gemmops LABIOCLINIUS Boiss

E. caule simplicid vli sulcato adpressè canescenti setuln rabelUa tuberculosis paucissimis conaperso eglanduloso, foliis suprâ parcè araneosis griseis subtiis adpressè caois lanceolatis bipinnatipartitis parUoDibus lacnliisqae lanceolatis In splnas flavidas abeuntibus, capitalis magnis, receptaculo sellis albis persitentibus els flosculorum similibus pneter apicem nudum densè piloso, setis involucrum dimidium squamatis, involucrum squamis exterioribus setis squallongis apice spatulato-deltaeideis abruptè acuminatis margine cillatulis, intermedialis saltern florum superiorum in contua canaliculata flosculis 2-9 4f9 p!5 longiora prodocUs, intimis mediâ parte concretis basi et superoè liberis nequa-libus aliis subulatis aliis obtusiusculis omnibus serrulatis-flabrilatis, papilli setis a basi liberi.

Hab. in *CnlesynA* dreâ *Balbeok*. Legi Jul. 4846.

AJb. E. adenocaulo cui affinis eat formis formis, differt squamis exterioribus abruptè nec attenuatim acuminatis, allatulis nec denticulatis, setis papilli liberi. Ab eo ut et ab omnibus affinis receptaculo non omninò nudo sed sellis albis pneter apicem nudum densè hirsuto pnetereâ differt.

GUSIUM HTOBOPBILUM Boiss. (Sect *Onotropfu*)

G. totum papillis crispulis sparsis obscurum vel glabrescens virens, caule sulcato folioso supernè parcè et laetè corymbose-daniculato, foliis oblongo-lanceolatis laseibus irregulariter et parùm profundè lobatis longè crebrè et tennter flavescenti-splnosis basi in alas splnosas angustas decurrentibus superioribus diminutis pinnatipartitis spinosis-stimilis capitiula plus minusve involucranibus eisque brevioribus, inferioribus cri bemispinosis glabrescentis squamis ab exterioribus In spatulam flavam eis brevioribus adpressam vel apice spatulam abeuntibus ad superioream violaceam in acumen loermem abeuntes sensim elongatis, floribus purpureis, filamentis yaldfe papillosis.

Hab. In faumidis montibus *Totschal* propè *Teheran* Kotschy N° 604 (forma squamatis longioribus apice spatulatis), In monte *Elbnu* propè *Passgala* Kotschy N° 642 (forma squamis adpressiusculis).

Folia etiam *C. uKpnnori* angustiora multaque longiora valde copiosiusque spinosa, capitula illius saltern duplò majora. Affine quoque *C. KaUekgano* quod differt foliis brevioribus spinosis, caule simplici con-

gestè corymboso, capitulis subsessilibus minoribus, squamis viridibus inlenoribus longius et tenuias cuspidatis, flonbiis albis, etc.

CIBSIUH LTCAONICUM Bofss. et Heldr (Sect. *Onotrophe*)

C. glabriusculum, caule elato sulcato supernè densè foHoso aplce plus minus laxè corymboso-pamculato, foliis glabns viridibus lanceolatis in alas spinulosas angustas foliaceas contiouas seeds totum caulem decurrentibus pinnatifolatis lobis S-SAdls laciniis in splnas tenues-Oavidas longas abeuntlbUB, folus sumims seeds pedunculos angustls pinnatlpatrius valdè spinosis. capitulis mediocnbtis, involucri globosi squamls viscidulis apice parcisBimè lanaiulis inferionbus oblongo-lanceolatis nlgrlcantibus spraulâ adpressA brevi abruptft terminatis, interioribus lanceolatis acuminatis inermibus, floribus pallfdè roseis, filamentis valdè papillosis.

C. uhginosum pi. Heldr Anat c\s. 4846 var.

Hab inter lapides deciduos in locis irnguis regions supenoris raontis *Anemas* Lycaonlie alt 6000'. FJ. Aug (Heldreich.)

Planta a-3 pedalis superoè densè foliosa, folia honzoDtaha 4*5 poll, longa sesquipolhcem lata, capitula 40-13 pedunculis plus minus abbreviatls foliolosis suffulta magn. eorum *C. arvensw* vel *uliginost*, huic ulumae speciel valdè affine differt foliis densis angustlonbus profitiD-dluslobatls longidsque spinosis supenonbas longfe decurreDtibus quod in *C ulignoso* non occurnt, involucri minus abbreviatl sqoamls glandnosIB apice non patidis. Planta Knrdistanica Kotschy N» 494 ad nostram spedem probablllter referenda est.

CARDUS ISRAELONICUS Bolss

G. caule elato puberulo alato folloao supernè stridè ramoso, follis suprà parcè subtús copiosè araneosis eanis teneris lanceolatis pinnatifidatis ID alas angustas ssepe interruptas lobulato-dentatas crebrè spinulosas per totum caulem decurrentibus, lobts irreguiaribus triangulanbus lobulatis brentpr spinosulls, pedunculis canfs stnetis foliomm auperlomm decurrentiâ spinulosis 4 rarlusa-sflortscorymbulanun ohgocephalum fonnanlibus, involucri squamis vlridibus sub lente breviter et adpresse setulosis parcc pilosulls e ban eaervi subdilalata lteeaniBnceolatis tnnerviis longis adpressis ab exterioribus ad iniimas ^ M-sim elongatls omnibus spmulâ brevi termInatis, receplacuU setts piiea-

eels pita mlnòs dilatatis sape apice J-3 fldls, floscuhs purpureis involu-
crum DOD Buperanlibu9, achenlisviscidllBlineolalis.

Hab. ID bumldis plamhei *Esdraelon* et Galilsa? snpenons ad *Bahv*
tlHouleh Leg! Apr. 4846.

Planta bipedalis recta, folia Indumento et naturâ ea *C argentaU*
referentta sed spinoslon longèque decurrentla, capltula duplb majors,
pedunculi striati alall nee ul ID *C. argentato* patulo-Incurvi nudi IOD-
(Isaimi, aquanue involocn longiores, Ooscul Involutum vlx cquaptec
nee ut in e6 multft longiores, Juxta bane speciem csertim collocandus.

ONOFBODON BBACIBATDM BOISS. et feldr. ID pi Anat. exs. 4846.

0. totum adprossè araneosum niveum, caule crasso elalo supernè
polycephalo, folus oblongo-laoceolalls brevltter lobatislobls lanceolatis
subiodivisiB fa spfnas flavas valldas abeuotlbus, folls supremis an-
gustè lanceolaio4lnearibus ad capUulorum basin pluribus involucran-
tibus squamas sepè oequantibus, alls caulis et Tamorrm namerofs
contiauis nivels creberrimè lobalatis tenuiterqnc flavo-spmosissfmls,
capitulls magoifl basi subtruncatls, Involutum glabri squamia infernè
laUsrimta planls longè attenuails aubulatls validis patulo-reflexis (lore*
squantibus ab extertoribus ad Intmas rectas senalm eloogatis, flori-
bus roseis.

Hab. In saxosls propè *Agtansoun* ad radices montls *Boudroun* Piat-
dis Fl. Aug. (Heldreleb)

Speaes inslgnls Indumento denso adpressissimo oiveo, ramis et
caule tenuiter myriacantbis, capitulls basi folus involucratis ilia 0. *Illy-*
rm magnitudine et squamarum latitudine rferentibus sed squamis
multò longloribus et magis reflexis.

ONOFBODON ABGOMGDH Bolss.

0. totum glabresceDS virens ad cauleB et partes superiores vlscldc-
blrtum, canle ramoso, folls tenerls sobtùs reticulalls rugosls lanceo-
latls pinnatfpartltis segmentis obUtngls lobatls sabretrorsùvloblstrhD-
gularibus In Bplnas tenon breves abeuntibus, alls GMHS et ramonn
interruptls brevltter subpalraatim splnosfs, capltulls rotondis, lovo-
lucro Inter partem inferiorem iquamarum valde araneoso, squamis via-
ddulls vlrantibus anguste lanceototo-subnlatlssubcquflongls omnlbuR
sqo»JTOM-faienUbiis.

Hab. in ruderatis prope *Nauplium* ad radices rupis cui an *Palomedts* insidet latere meridional! Legl April! capitulis nondum explicatis.

Virescentiâ el Indumento glanduloso-viscido 0 *wentx el 0. elato* appropinquandum ab utroque distinctum fohis minus rigidis profundius distis»invohicro laxè araneoso nee denudato, squaiuis angustilobis multò longiùs subulatis quarum intermedia! etiam In alabastro sesquipollicares sunt

UNOPOHDON CABDUIFOBHE Boiss

0 totum araneoso-canum, caule humili infernè ramoso superne 4-3cephalo pedunculisque augustissimè alaUa splnuloalssimis, foliis lanceolatis tenuissimè bipinDatiseclis in alas angustissimas splaosissilmas dcurrentibus laciniis subulatis In spinas numerosas tenues breves flavidas abeuntibus, capitulis mediocribus, involucri Inferne valdè albo-lanati squamis lanceolatis planis apice attenuato-subulatis parom Inaequalibus intimis erectis ceteris patalo-defleus, floribus purpureis.

Hab. in PalesUnâ circa *Gaum.* {Boiss.}

Fedalu, folia 4-5 pollicaria pollicem lala tpuissimè dissecta quâ ootâ ab omnibus mîni ootls differt, spinae caulis fohonimque numerosissims tenues 4 4;S-3 hn. tantOm longs, capitulis eis 0. *aeanthn paulO* mhnora squamis latioribus brevionibusque Intermediis vii 9-10 lin longis

ONOPOBDON FLOCCOSUM BOISS.

0 totum lanâ floccosâ denBâ non adpreasâ fecilè accedentl araneosum, caule ramoso pleiocephalo, foliis lanceolatis ad costam ferè usquè partilis sublUB relculalo-nervosis segmeotls rotundalis circumcircâ radiatlm lobatis In spinas flavas valldas abeuntibus, alls caulis et ramorum angustis interrupUs ad spinas flavas longiusculas ferè reductis, capitulis mediocribus, involucri Infernè valdè lamb squamis a basi lation planS lanceolatis canaliculatis validis acerosis subtnquetriB longis erecto-palulis ab infimis brevibus ad intimas longiores senslm elongatis floras roseos aquatibus.

Hab. in ardis propè *Eden* Ltbam, legl Jul. 1846.

Caulis 2-3 pedalis 3-6 cephalus, squaenue pollicares basf els. On. *Wync* xquilata sed mnlb longiores validioreaque Bubtriquetr 0. ~~114-~~

cnuanthum ¥\ Grac. lab 83* a plant* cl. Schousboë toto caelo diversum Dosram speclem formã squamaruiD refert sed dlfferre vldetur (omento denso omDium partium.

ONPOBDON ANISACANTHIW BolBB.

0. totum densè et adpressè niveo-araneosum, caule smplici vel parcè ramoso, folus lanceolatis bre\iter lobatu margine spmulois lobis brevibus in spinas flavas lenues eis squilongas abeuntibus, folds BupremiB llinean-subulatis slrictu snbinlegns, alis caulis et ramorum continuiB angustis subintegris spinuloBIs, capituhis latis depressis basi sublrancatis, involucri inferaè mvei squamis parte supenon glabrescentibus tafmiB adpressiusculis brevibus teDulBsimd apice subulatis, intermedus e basi lalt recunis loDgissimis supeniè angustfè lanceolato-UDearibuB plaDiusculis acerosis, iuUmis subulatiB rectiftflosculos dimldloB tanldm sequanUbus.

Bab. in *GsiesynA* circã *Balbek* ubi in arefi templorum et ellam in parte ioterion tempm mmons specunina mea legi.

Planla a-3 pedalis, folia 4-6 poll, longa sesquipolhcem lata, capitula formã et magnitudne smllia eis 0. *heteracanth* G. A. Meyer quod habet qnoqne squamaB intermediaB elongatas sed egregfè differt Indumento multò nnnòs cano, squamia exteraiis tails brevltter lasceolalla tntermediis sesqailatlonbUB. 0. *ambigwm* diflert capllulls mioonbiu ovatis, squamis inflmis crassioribuB deflexis. 0 *Graeum* deniquè dia-**tlngoitr eisdem notis squamarumque spinis tenuioribus TIX** inxqua-hbuB. Squama iDtermedis 0. *antsacanth* ferè bipolllcares, exleriores 5-6 lineas longs, intuns pollicarea.

ONPOBDON ALBXARDBUIUH Boiss

0. paroè grlseo-araneoBum vel glabrescens, caule ramoaissimo, follis lanceolBtB plnnatlpertitis segmentis rotundatis pllcatls lobatls circã **foll** rachldem subverticillatis remotiDsculis subbullato-rugosis lobis brevibus In spinas flavidas breves abeuohbus, alis ramorum angustis pitulè et flavldè splnoBlssimis, capitulls parvls Bubrotundis, mvolucri pareè grlaei araneoai squamis a basi latlon angustè lanceobtis subulalo-acuminatls prater inlimas rectas patenti-recurvls intermediis inflmas et Baperlorea superaoUbuu, floriIbiw roseto.

Hab. circã *Alexandrxam* AgyptJ_y legit Maio cl. Cadet de Fonlenay.

Flaube clake lumuui iricepMum cum foüo lauium \idl Hagnit. capitulorum, squamarum formã el proportione 0. *Graeum* vel potluB 0. *amInguum* relert sed ab eis el aliis spedeibus generis differt prater glabrillem Ft rantos creberriDie spinosos folns quorum segnienta YIX cum spinis pollicein Jooga horizontaliter el s¹ bverticillalim rachidi folil insidenl, parenctyinaleque subbullato.

CYMABA SIBTHOBPIANA Boiss et Heldr.

C. Jjumilis, fobis fere omnibus radicalibus petiolo brevi spUuilo bruuissimè papilloso-hlrto suffultis suprã glabris subliis adpressè cams ambilu bilè oblongis pinnatipartitis segmentfs oblongo-elongatis basi discretiB vel confluunÜbus ad medium usquè lobatis lobis triaogalanbus breuibus in spinaa breues fuscscntes numerosaa abeundbUB, caule 3-j folia ininuta gerenli monocephalo folita radicalibus brevlorl, involucn squamis latis glabris extenonbus tnangularibus brevlbas plants breuiter apice spinosis, cxlens senslm elongalis, superioribus basi dilatatis in appadicem crassam canallculatam subulatam longam actsrosisslmam abeuntibus, intunis brevforibus llinearibus tnennibus, • flosculis albis, sells achemo qulntupl6 longioribus. • (Sibth.)

llab in *Peloponnesa* et *Creta* (Sibth), in saxosls maritmla Gretn propè *Piskokephalt* Eparchis Sltia Hldr. legit. Apr. nondbm floriferam.

C. humUus Fl. Graic. tab. 835 non L.

Folia radicalia cam petiolo 9-40 poll, longs 3 poll, lata, segmenta utrinquè 9-10 a folio medio sursùm deorsùmque longitudne decresurnlia, caulis in meo spccimlne Spolllecarls, capitulum eo *C. cardunculi-y* minus, squamsc supenores ferè bipollleares rlgidIBsims. Polcbra species propè *C. Tournefortu* collocanda, a *C. humih* ut Jam cl. Lindley In Florã Gneçã notaverat toto cago diversa

GINABA STUACA BOISR.

C. foliis radicalibus amplls ambita ovatis petiolo canaliculato margine remotè spinoso suffultis pinnallsectls, segmentis utrinquæ 5-8 tan* ceolatib elongatis acumlatis suprã glabrescentibus subtus canescenlibus reticulato-oen'osls lobatis lobls ttianglaribus spinã brevi flvescente terminatis, caulibus elatls craBsis Blriatls araneoso-canti apice rorymbofls congratim 3-7 cephalis, foliis caulmis tenuibls ladnblts

superioribus inaequalibus pinnatifidis lobis indivisis crebre aurantiaco-spinosis, involucro ovato basi latiori truncato attenuate apice subconstricto, squamis glabris rubellis arete imbricatis ad inflexis ad superiores sensim elongatis ovatis vel oblongis plants apice appendice reflexa basi obcordata ID splnam attenuate eis squallongâ vel breviori auctis, superioribus erectiusculis, intimis paucis anguste linearibus inermibus, floribus violaceis.

Hab. in plinibus Syria hitoralis prop* *Tartoua* ubi gregariè crescit et floriferam ineunte Julio 1846 legi.

Folia radicalia cum petiolo 4-4 4S pedalia aegmentis a medio folio uersum deorsumque abbreviate majoribus 4-6 poll longis poll latls, foliorum caulinarum segmenta valde angustata 4-6 lin. lata, folia suprema augustissima, capUula S pollices et amplius longa basi sesquipollcem lata, flosculi numerosissimi involucram valde superantes Pulcherrima apedeg insignia involucri squamis appendice brevis eximie reflexa basi 4Hn. circ. lata com spinâ 5-6 Ho. longâ lermnabs

CABLINA LIBANOTICA. BOISS. (Sect. *Mitma*.)

G. parè lanata florifera glabrescens, caule lignulo supernè divaricatim 1-3 cephalo, pedunculis brevibus apice incrassatis, foliis rigidis alnibus reticulato-nervosis sessilibus amplexifolibus lanceolatis canaliculato-plicatis pinnatifidis inter spinas margine deoliculatis lobis angustis flavido-spinosis, capitulis magnis, involucri squamis externis supra basin ovatam duram enervem contracta dein dilatata in apudicem foliaceam glabram oblongo-lanceolam patulo-incurvam longè acuminiatam marginebus et apice spinosam squamis intimis duplò longiore folli similem, squamis internodiis supra basin glabram uncinatis lae albè araneosis densè junctis brevibus, intimis longioribus sulphureis linearibus acutis integerrimis raduutibus.

Bab. in regione intermediâ Libani circa *Detr el Kammar, Abeth* et in Gntaynd, floret Augusto omnibus aliis Cynareis seriis. Legi fine JulU 4846 floribus nondam expletis.

Planta 8-8 pollicaris, folia inferiora Jam exsiccata non vMi, caulium J-J 4S poll, longa pollicem lata. Capitula majora els *C. involucreta* qoc In eadem regione ciscu et nostre affinu ab **est** differ! squamis externis Involucri angustioribus longioribusque a **tasi** uncinibus recurvo-patulis, internodiis glaberrimis linearibus mucronatis, pedun-

culis longioribus minus locrossatis *C. maorocephala* lions involucri squamis interioribus purpureis, etc. longius distat.

ATRACITILIS PBOLIFEBA BOISS. (Sect. SpodorfwCass.)

A. annua tota adpressè araneoso-canescens a collo radiatum ramosum capitulumque centrale sessile edcas, ramis prostratis tenuibus simplicibus dichotomisque, capitulis terminibus aliisque interdichotomiis breviter pedunculatis, foliis radicalibus rameisque anguste linearibus rigidis minutè denticulato-spinulosis plicatis basi attenuatis acutis supremis capitula involucribus eaque superioribus, involucri duplici floribus adpresso, involucri extensoribus squamis paucis rigidulis linearibus subulatis pinnatisque spinulosis involucri interioribus subsquamulibus, involucri interioribus parvis et adpressè araneosis linearibus planis mucrone selaceo innatis nigrescentibus terminatis ab inferioribus ovalibus ad intima lanceolato-linearibus sensim elongatis, floribus exterioribus valde radiantibus purpureis oblongis truncatis quinquefidis, antherarum appendicibus acutis caudis plumosis, acheniis molliter et densissime sericeis, pappo a basi plumoso niveo uniseriale basi villis anctis radii pauciseto

Hab. in arenosis ad meridiem urbis *Gaza* in regione *Amalea* Arabiarum Septentrionalium Legi Aprilis 1846.

Pulchra species ramis 3-5 poll., longis basi expansis, foliis linearibus 1-1 1/2 poll., longis 4-4 1/2 lineas latis, capitulae *A. eaneolata* vix majora, involucri extensoribus squamis pauciora breviter spinulosa, ligulae radii 4 lineas circulo longae sesquilineam latae.

SIRBATULA LATIPOLIA Boiss. in Kotschy in Pers. bot. 1846 (Sect. *Klasea*.)

S. glaberrima, radice repente, caule elato tereti albidulo simplici teretibus parvis ramoso ramis longis strictis monocephalis, foliis coriaceis lucidis palmeis vireo-olivaceis costis mediis validis albis percurrensque reticulato-nervis rariis inferioribus ovatis petiolo crasso breviter canaliculato basi membranaceo-marginato amplexu suffultis, nervis sessilibus oblongis acutiusculis basi auriculatis auriculis acutis breviter decurrentibus summis rameisque linearibus strictis, capitulis longè pedunculatis, involucri oblongo-cylindrico apice subconstricto ovato glaberrimo squamis arete adpressis interioribus subnatis vix strictis co-

racis lutescentibus ab infinite ovalis minute mucronulalis ad superiores olliptifias et lineares seasm auctis, flosculis lutescentibus omnibus aequalibus bermapbroditis involutro terliâ parte longionibus, pappi setis albis subptomosis basi in anulum concrelis facile secedentibus.

Hab. propè *Gaitade* in valle *Talagon* montis *Elbrus* Kotschy N° 54 R

Caulls 8-3 pedalls basi rrassitie penns anserlnee, folia inferora 4-5 poll tonga 3-4 tola ramea inferora pollicarla 3 tin lata, fnvolicrum pollicem longum baBi 6 lin latum Species insignia collocandi propfc *S. ctahoraceam* el *S. flavuemtem*

LBUZBA **SCLBBOFDYILV** Boiss el H/AAv {Sect *Fomtemm*)

L glabruscula caule angulato srialo humili fle&uoao S-3 phyllo monocephalo, folns coriacissimis ovatis prater costam medJam validam utnoqa6 elevatlm reticnlato-nervosis clrcumorcâ grossè dentatis denlibus margine uicrassatu triaagulanbus obtuslssimls Inferionbus potiolo brevi piano aodpiti semiamplexicauli suprâ JSBVI sabtûs stnato suffultiB rarb basi duobus segmentis Bilnutis linearibus auclis sublt>rails, folio superior! aessih, capitulo magno bemispfasnco pedunculo crasso folio supremo brevion suffulto, lorolucri glabrl squamls regulariteret adpressc Imbncatis ab inferloribus ovatis oblongisve ad Intlmas elliptico-lneares sensira elongatls plants parallele lneatis stramineo-tiigricanlibus obtusis appendice exlmiè reflexâ stramineâ anguste lanceolalo-subulats molliusculâ eis brc\lon terminatis, achemo oblongo compresso laevi nlgncanti angustlssimc margioalo, sellis pappi nlvels plumosis hbens abcnio duplb longlonbus

Jvnaa aeltrapkyUa Boiss. et Heldr. In pi Anal cxs 4846 (per errorem schedulse pro *Setratuld*).

Hab. in colltbus siccls propè *Betiam* suprâ *Ermenek* Isaans (fheldr.j

PlaDla 8-40 polUcans, folia mferlora circ 4/3 pedem longa 4-6 Hn. lata, capitulum magnitudùito ei *Rhapoatict cynarotdu* S ifS poll, latum, squama lDtermedise involnclrl i \fl No. lata? appendlec 3 4;S Hn longâ basi semllineam latâ reOexâ terminate. Aflinls L. *serratuloidi* F. et H qun folils longis lyratis creoulatis minùs cortacels alUsque notis longè diftert. Ob pappum dlsttactè plumosum ban; plants *mentis* In *Uuzeu* sect. *ForMao* quara in *Rhaptmheo* \el *SerratvLA* collocanda esl, (lores e sicco otiroleiH'i

JURIVLA KAYTIHOLEPIS Boiss in Kotsch pi Pore bor exs. 4846.
(Sect *Longfalxa*)

i. basi suffruticosa procumbens, ramis numerosis erectis virgatis densiuscule foliosis Bimpliibus vel stride ramulosis angulalis adpressè canescentibus, foliis stnctis suprâ pallid* virentibus sab lente scrobiculato-punctatis subtus conspuls et adpresse canescentibus integerrimus margine vix revolutis lineam-lanceolalis inferioribus basi alternatis obtusis superioribus basi rotundatis aculiusculis, ramealibus angustis linearibus brevibus, capitulis vel solitariis lacinialibus vel paucis corymbosis pedunculo proprio eis sequilongis vel longioribus suffultis, involucri ovali glabris squamis arcuatis adpressis rubellis aculiusculis mutis ab inferioribus praesertim secus lineam mediam costato-subcannalis, flosculis roseis involucri subdimidii longioribus.

Hub propu *Chuskum* in valle *Talagon* montis *Elbrus* Kotsch. N^o 5H.

Planta 9-40 pollicans, folia inferiora 1 -1/2-2 poll, longa 8-3 lin *lata, capitula cis /. *stachadifolia* paulo crassiora brevioraque basi non attenuata. Ab hac specie et /. *linearifolia* insuper foliis multo latioribus distinguitur /. *pulohella* affinis forma capitulorum et squamarum differt foliis pinnatifidis angustissimis alusque nobis

KENTROPHYLLUM STRUCUH BOISS (Sect *AtraasyU.*)

K bienne caule parce ciliato-lanato vel glabrescenti ramosissimo «orymboso-paniculato, foliis breviter hirtellis et sab lente glanduloso-punctatis inferioribus tononibus ciliatis exsertatis pinnatifidis lacinialis inferioribus denticulatis margine et apice tenuiter spinulosis, foliis superioribus densis rigidis nervosis oblongis vel oblongo-lanceolatis canaliculatis subrecurvis utrinque 5-3 dentato-spinosis in spina duram flavidam abscuntibus, capitulis minutis breviter pedunculatis, involucri ptyllo exterioribus foliis superioribus similibus vridibus coriaceis oblongo-lanceolatis sab inferioribus basi utrinque pinnatis 5-3 spinosis acerosis erecto-patulis flores subsquantibus, Interioribus scarosis oblongis lanceolato-linearibusque integerrimis acuminatis subpungentibus flore paulo brevioribus, flonibus purpureis, acemibus ovatis tetragonis rugulosis marginalibus calvis interioribus breviusculis papillis, papillis albis paleis ab exterioribus truncatis intermedia acutissimis scaberrimis clongalis, sericeis inlatis triplo brevioribus

ID Syria Inter *Edhp* el *Aleppum*, in siccis *Cnlesyriw* et in collibus propè *Anttoohium* (Bolss } Jun

AfOne *K. glauco* et *Anatolteo* ab utroque differl capltuhs mnoiibus, a priori pretrreâ involucri squamis ceterionbus dimidl6 angustioribus 3 nee 5 nervis, a posteriori pappi nivci nee rubelli paleis Intermedus achenio S 4/2 pl6 nee II jJ longlonbus aculisslmls disiinguUnr

KENTHOPIYLLUH CBBTIGUH BOISS. (Sect *Atraxylt*)

K. blenoe totum lanâ sordidâ parcè araneosam prmtcreâque ad folia breviter glanduloso-puberulnm, foliis lanceolatis infenoribus pinnati-partlts csteris canaliculatis rcurvis infernc lobalo-spioosis margioe dentialatis apice accroso-acumlnatis, caule supernè dlvacallm ramoso subcorymboso, «apituliB pedunculis brevibus suffUIUs saepibs congestis, involacri squamis exterlonbus foliacels e basi breviter ovatâ araneoso-lanâtâ aogustè lincari-laaceolalis tnnervlis aceroso-acuminatis utrinquè pinnatlm 4-6 spinosis patulo-sabincunis floscnlos superantibus, interioribus scariosis lanceolalis acumlnatis integernmis florldbus \a brevioribns, flosculs purpureis, acbeaiis omnibus papposis, pappi rubelli paleis ab tnlmte retusis ad intermedias acutas sensim elongatis, serie inlimâ tnp!6 breviorl.

Hab in *OntA* undè retullt cl Victor Raulln

K. glauco et *K. Synaco* nimis afflne ab eis sat dlfferre videtur indumento araneoso copiosiori, capitulis pauciflons lenuionbus magis elongalls, involucri squamis ceterionbus mullb magls attenuatis elongattsque floras superantibus nee cos \ix osquantibus suprij basin nou conslrlctis

KENTBOPHTLLUM AUBBDH (Sect *Thamnacantha*.)

K. btenne glaucescenB totum flavicans, caule tetmi tereti a medio ramoso corymbosè polycepbalo ramisque Ocruosls albldis, folUs inferioribUB did exstccatls tenerioribus lanceolatis acutis basl In petiolum attenuatls dentlculato-splnulosls superioribus rigidis nervosls canali-caiato-pUcatls sessihbus e basi **latlori** rotundato-subcordalft lanceolatis margine pectinato spinosis valdè pungentibus acumlnalls, capitulis terrinallbus solltariis peduncuUs foliosls suffkiltis, Involucri glabrinsculi squamis sub lente mlnutlssime prulnoso-poberulis exterioribus follis sbnHibos rigidis angustt lineari-lanceolatls suprâ plicatls subttis can-

naiis infamè trebri' longmscule ul leuailer ad oiargioein spmulois
longeatteuualis acerosis crecto-paliilis floras subsuperantibus, squamis
intennonbus floscuhs panlu brevionbus oblongis linean-lanceolaUsve
subscanosis flavidiB plums lonintur muliiBlnaUs integerrlons subulalo-
Juuninalis intimis inermiLus, flostuhs intensè luleis, antbcrarum flla-
montis lorqualo-pilosis, acliemis marglnalibus epapposis foiuscullft
interioribus tetragoms superne parciï mgulosls castcrum lxvibus pappo
violacco non deciduo multisenali cis longion superatis, pappi paleis ad
infirmis rctusis ad intimas acutluscuhs senslm elongatis densè subplu-
moKO-cihatis

Ilab in cultis di'relictis plantiprura elatarum *Syrta* inter *Edltp* at
Al«ppum el In *Ccelesyrta*, legl Jun. el Jill 4846

Color el habllus omnino *Cartkam* oacyacantha* MB. pro quo did babui
et qui prater charjulcroni genricum omaium acbenium nudorum dit-
feri indumcnlo lanato eaulis et ramorum, ramis abbrevialis, uapltulis.
brpvionbus couferlis, uivolucn squamis cxlonoribus oblongo-lanceo-
LIIS latis pTurmorviis nec \ix Innervus. *Onobroma jlaveseens* DC.
ulroqiic affDno pr»ler diaractures fractas differ! involucri pbylls ex-
(enonbu6 brevissimè splnosls interiores vix aequantibus. Nostra spe-
uios ob pappi sencm finterlorem aliis non breviorcm in sectione *Tham-
nacanlha* mlliinl

GABDUNCBLLLS KRIOIJI>P'IIAI.US BoiSji

C. caule smiplicL usque ad aplccm fulloao aagulato-stnatg monoce-
pbalo suptrnè pared lanato, follis glabnusculls rigldis nervosia nitldull*
laliidè virenlibus inferlonbus oblongls basl in petlolum altenuatis den-
ticularis auperioribus rigidioribus e basi sessili subcordalâ oblODgo-
lanccolalis acumlatis plonatifldo-spincjsis, capitulo magno, involucri
squamis extcrloribus lofernè baè arachnoideo-lanalis rigldis folils si-
milibus sed angusiionbus quinqucucrvlis a bast lallori angustè lan-
ccolatis margme tenuilcr splnosis attenuato-acerosis sublncurvis Do-
i'cs subxquanlibus, Inlenoribus scariosis paulb brevioribus oblODgis
lineanbusvc superne margine lanails apice cliiato-flmbriatis spialulâ c(-
llls paul6 longion \alidtorique terminalis, flosculis csruleb, pappo
plumoso.

Ilab in regione *Awaleettarum* ad mcridiom *Gaza*, legi flor. Apr
184C.

NanUi 6-1 i pulhcarib, folia inlenura cum iwliulu 21/2 puliitrs ioufta

8 lin laU, caulina-ttcsquipullicaria, lapilulum eo C avru/01 fr6 majuat
Ei afUnis sed distinctus involuero sordidè araneoso, squamis exteno-
nbus ngidionbus canaliculatis aceroso-acinmnatis sesquipollicaribus,
iiitmoribus albo-ciliatis nee in appendicem fuscam flimbnatam subdi-
latatls, pappi cum achemo proportfoiem IU specim meis jumonbus
obsrvare non potm.

COUBINIA BXINGIOIDES Boiss. in pi KOIBLIL l'ers bor 1846

C. foliis radicalibus aniplis ainbltu oblongo-lá'nceulalls puinalipar-
tills tlx ngidis parce arancoso-canescenitbug, segmenlis a parte supe-
nori folli deorsum decrescenlibus o\ati6 oblongisto jtrüm 2-31obis
nervbi majonbua in spinas longas secundanis in spinulas excurrentib-
bus vldo inxqualibus aliis magnis alus %-i pljt mlooribuB IntermubB
omnibus basi subconflueniibus, caulibus folia pauca bre\ia pipnatlm
spboaa linearla anlbesuos tempore jam evanida ferontibus teretibus
glabns alblidis nllidis bis yel ter umbellato-^rollferia ramla umbella''
rum dlvaricatis teretibus nudis, capitulis ad nodos umbellarum seBsilU
Inn BOlilanis termiualibusque 3-6 aggregatis omnibus cylindricls pau-
clfloris, Involuclrl glabernmi Bquamis pauciB a basi lanceotat& subulalis
acerosts supra concaviuscuhs sublus acute Inquetns laferloribus bro-
vlsBimis eastern recurro-potentibiu flores longfe superantibus, OOBUIW
purpureis, acemiB o^abs compressw ecoronalis, Bells pappi uoiseria-
Ubus achenio tnplo brevioribus

Bab. in argillosis coovalUum ad radices montis *Demmomd* propè
lor. Kolschy N° 633 Fl Aug

Folia radicalia pedalia a-3polbces lala, caules bipedales, capiiula
angusta 8-9 lin. longa 3 4/3-3 lata, squamae Bnperlores 10-44 lin. lon-
gs. Habitu *Centaweam calcitrāpam* vel *Eryngtt* species quaBdam re-
ferens, Insignls IDflorescentiā capitulisque angusbs tenulbus valdè
squajTOBis.

COUBINIA ALEPPILA BOISB

G. basi llgnosa mulUcaubs, caulibus pumllis ferè à basi divaricaUm
ramoslasmib ranilaque demùm glabratis tenulbus rigidis, foliis ngidis
duris cartllaglnels supri glabris reliculato-nervosis sublòs araneoao-
cancscenitibus radicalibus lanceolatis elongabs pinnatilobalis lobib un-
dulabs trlangulanbus fterüm tTosse dcntaUs aceroso-spmosig caulmis

Btullo nunoribus oblougo-laiitieolaUs ulriuque i-J deulalis basi bn> \iler deurrenlibus, supremis fcre sub capitulo sitis ct hue subxquantibus, uapitulis parvis ad ramulomni extremitatem sohtarus, In\olucro glabro breviler ovalo basi truacato, squamis paras urescentibus linearibus subttis obtus& cannatis in muminem acerosum breveoi recurvopatulum abeuutibus, flosculis purpurcis involucro subdupl6 longloribus, achemo sclulis brevjssnmis coronato, pappi setis unisenalibus caducissimis.

Hab in collibus andis inter *Edlip et Aleppum* sitjs, legi Jua 48M
Flaiila 6-10 pollicahs ramosissima ngida, folia radicalia 4-6 pollic longa pollcein lata infernè seDslm aUenuala, capitula magnitudims *C. Hohtnacken* et *C. brachyptern* qux nostrae speciei afflnes ab efl atattm fligiioscuaiur foliis radicalibus mult6 minoribus pmnatiparUtis, raniis abbrevialis crassiorfbi.B lanauis, squamarum acumino quoque recuno-palulo sed longion tcnaismio.

GOUSINIA 9QDABHOSA Boibs. in Kotschy pi. Pers bor. 1846.

C. pared araneosa subglalrcsceus virescens, caule ereclo elaiio superne snbdichotomi ramoso corymbosA g-Sccephalo, folus radicalibus. . . .caulims parvis oblongo-Uncanbus stnctis brevllcr deotatolobatis tenuiter flavido-spinulosis in alas eis fere squllatas dcntalo-lobatas splnosas secus totura caulcm decurrontibus ngidia, nums aogustlssimi et interrupts alatis sub capilulls nudis, capitulis medlocribiu multiflons, involucri subglobosi prater squamarum basin parcearancosam glabri virescentis squamis arete Imbricalis in appendicem arcuato-refluxam ovatam aculam *b* spinosam abeunlibus spinâ icnmnali lateralibus validion trip!6que loogion omnibus acerosissimis, Oasculis roseis involucro vix dupld Jongionbus, acbeniis. . . .

Hab. in valle *Schahnstonek* montis *Elbrus* Kotsch. N° S54.

Valde afflnis *C. calocephala*, I et Sp III tab 478, ab eâ mîni sat Uifferre videtur foliis subtus vlx canescenlibus nee lanato-tomentosis, caulinis in meo speciminc vix 4 4-1;S poll, lougis angustis breviler lobatia lobis Inlcgris *net* 3-4 pollicanbus bipionalilobatis, appendlco squamarum ovalo-triangulari nec triangulari-lanceolata, squamla majoribus, spiniB foliorura et squamarum lutescentibus nee fuscis.

COUSINIA HBBHOMS BOISS.

C. tola plus mlutusvc aniTicuso-ldnata ranescctfiia |e| cana, eollo aqua-

moso, foliis radicalibus conferiia lanceolalis pinnatisecus segmentis lobatis valdè undulato-pilcatls seeds paginam superiorem versls confertissimis in spinaB flavidas accrosissimas nunerosas abeuntibus, caule a basi duiotomè ramosissimo divaricato-subcorymboao pleioeeplialo, foliis caulinis e'basi ovalft rotundato-auriculalâ subdecurrentt in spioam longam recurvo-patalam abeuntibus Infernè sptnulosis, summis lanccolato-bnearibus subIntegiis capftulo approxtmatis, capitulis roediocribus, involucris breviter ovati squamis arctissimè imbricalis bast plus mlniis laoatis In appendicem glabram viridem lanceolaiam acerosam validam supra concavliisculam subtds subcarinatam patulam vel deflexam fntegerrimam capitull dlametro tequullongam vel longlorem abeuntibus, floaculis roseis involacro vlx dup!6 longioribus, achenis comprssls nigro^maculais ecoronatis, pappo fagadsslmo.

Hab. in tolâ regions inferiori *Bermonis* suprâ *Rasokeya* In slcctaalrais, ad radices *Lîbanl* In Ccdesyriâ Inter *ttnete* et *Dnr el Aehmar* Legl Jul 4616.

Folia radicalia sub anthesi Jam exsiccata *i t* poll, longa pollicem lata lobls sursbm dlrectls Talde complcalo-confertis, canlis *ifl-i iflfe* dalte polycephalus. Capitula illis *C. erispa* paulb majora, appendix sqnanurum lotermediarum basl sesquilioeam lata 7-8 lin. longa. Species pulchra propè *C. macrocephalam* et *Ltbanotwam* collocanda.

Plures *Cousintw* species In Jaub et Sp Illuslr. Or. vol 9 Illustrate, a me Ipso plures menses oclûs In Dlagn. N« 6 descrlpta fuerunt et sic quoad synonymlam resttuendae

C. colcttropiformui J. et Sp. tab 45ft — *C. minuta* Hoiss, loc. cit. p. 447.

C. apharocephala i. el Sp. tab. 461. — *C. chamctpeuce* Boiss. p. 410.

C. aniioptera J. et Sp. tab. 470. — *C. calolepis* Bolss. p. 446.

C. OHvUri J et Sp tab 47S non DC — *C. serratuloides* Bolss. p. 448.

C. ñwolucrata I. et Sp. tab 473. — *C. vnvolucrata* Bolss. p. 444.

C. actinocephalaJ et Sp. tab. 475. — *C. xt/phioUpis* Boiss. p. 4S4.

C. stlyboides J et Sp tab. 476. — *C. Kotschyi* Bofss. p. 490.

C. Sehultaanai. et Sp tab. 477. — *C. eymbolepw* BolM. p. 449.

C. hypoleuca Boiss. fn Kotsch. pi. Pen. bor. N" 567 accuratius observala ad *C. terratuloxdtsm* Boiss. ut varietas apinis squaraanim subelongiUs referenda est.

PTOSMOPWUS mēTRATUB Bolss

Pt pcrendlssempervireos, caulibus hornotims lercilbus clatis nntlis induratis parce ramosls ad apicem ramorum folia congcsla oblongo-spatbulata oblusa integcrnma in peliolum longc attenuala pneter margnem adpressè et angustè albo-lanatum demùm glabrescentem giaberrima ferentibus, fohorum lāsciruha vel icrmiDalibus caulcs ateriles coronantibus vel e centre edentibus ramum floralem annotinum caulem conlinoanlcm terelem stratum erectum sparslm fotiosum dicholomti el stridè corymboso-ramosum, folns raaicalibus mullb minonbua infenonbus oblougia petiolalis superioribus sessihbus, capilulis ad extremltateoi ramulorum floralium valdè Klrlatorum apico clavato-lncrassatorum inlàB inamum solltarHs, fobls floralibus 6-7 o\ato-rotundis obtusis Intrgernmis enervlls cucullatis erecto-patuhs capitulum involuurantibus involucre asquilonis, ravolucrI ovato-eonid apice subcoDstricti squamis glabns laevibus mlidis adpresBlsalmg imbiicalis coriaceis flavldis ab infenonbus triangulanbua vel tnangulari-lanceolatis acutiusculis mucronulo nigrescent! vix pcrspicuo adpreBBO fedlè rutili tenuloaliB ad intimas linearl-laDceolatas lincarosque appondiculo membranacco lnermi integro vix distincto terminatas regotariter elongatis, flosculis flavis omnibus bermaphroditis, receplaculi sellis copiosis rufescentibus achenla et pappum longè superaotibuB, acbenUs oblongo-hncanbus subcompressls lsvissimiB nltldis albidis pappo unisenali caducusimo sordidè albo-rufescenll els pauld longion sapentts, pappI setis ex circulo depresso umboem circumdanti ortia subunisenalibus vc) potids indistinctè 2-3 serialibus inoquullongbi scabndis

llab. in totā regione infenon raontls *Gum Syria* boreahs ad marginea sylvarum. Legl Junio 4846.

Planta B-6 pedalls babitu peculiar! stlrpem Cananensem yei Madrensem potiùs quàm Europasam vel Orientalem referens. Caules lodurati fere fruUcosi 3-4 pedales, folia ID fasdculos terminales subnwulatos dhposita cum petiolo 4-5 poll, looga I&-90 Un. lata subcoriacea, rami flonfen virgati h 1/t-S pedales folia multb mioora sparaa stricta 4-1 poJkclonga ferentes corymbosè 3-7 cepball, capitula ramulis panè foliosis insldeotla folns cucuMis viiidlbuB teoeris bracteata IDVOIDCII et squamarum formâ *Centauream alatum* vel *Mierolonohtm Salman-teum* rererentla. Achenii areola basllaru valdè lateralls, termnlalis umbone elevato donata Pappo umformi subumserlali cnductoslmno a

Centauna distinctissima et optimâ congniens generi *Protostomopappo* a me In Suppl. Voy. bot. Eap descnpto et quod *C semperrtrentem* L aliasque sperieB Canartenses includit.

J3GIALOPHILA ROISB <t Heldr

Capitulum ovatum multiflorum. Involucris atpiams imbricate ovate margins scarioao-membranacei Integra In apinam rectam aimpllcem abeuntes. Receptacuulum sellis densis deciduis obsitum. Flosculi rosae marginales neutri radiantes vel \ix radiantea, eaten hermaphroditi. Anthers baai non caudati spernè In appendicem obtusam products. Filamenta valdè papiHoaa, Acbenium adpreaè birsutum terelluaculum basi attenuatum areolâ baailari lateral! donatum paleolia brevis Balmis dentatulis acutis persistentibus marginae coronatum. Pappus albus b(-aeriahs achenio dnpl6 longior aetia omnibus basi in annulura¹ concretis et cum eo Tacillime deciduis exterioribus tenulibus plumosis Interioribus paoda paulo latioribus TIX acabridis brevioribus.—Plantae Orientalia armatorum maritimarum Incofae, caullibus subnullis, Tolla lyrata, laele *Centauna*.

Genoa a Centoim dicitur bujua species hucusquè adnumerata fuerunt egregiè distinctum fructu paleolla peralstentibus coronato, pappo in annulo basi concreto, deciduo, plumoso. Ob areolam basilarem lateralem Inter *Centaunearum* irribum militat et a *Jurinea* longiora distat.

Ætiolophila F. D. HILTA **Boiss**

JR. tota plia intricatis araneoate breviter et adpreaè chierasoensis, folia lanceolata in segmenta ovata oblongo-lanceolata lineariave obtusè Inaxpnlia aepè subtritoraa pinnatpartitU segmento terminali aspè longiora angustata, canibus breviterafmta vel anbnuiHa, inferiori glabri squamis Integra latè scartuals in apinam acroam albam Inferiorum brerem Intermediarum squamft longiorem abeundibus, hitimla io appendicem fuBeacentem Inennem aulaceram abeuntibus, flosolia neutris ndJaniibna, pappl brenter plmnoal satto Interioribus vix hiealoribus latioribaaque.

Cfntaureapwnilah. Amaen. Acad. Vent. Malm. lab. 9. Flor. Grac. tab. 948. — *C muoronota.* Forsk.

Hab. in *Mgypto wfenonl insula Sew* (Olivier ID DC. herb.). *Attocd*
ex Slblb

AGMLOPHILA GUTICA Boiss et Heldr.

JR. Iota breviter araneoso-canescens fohis loogè petiolalis oblongis acutiusculis minutè denticulatis vel ad hinc basin 3-4 lobulis mucronatis ovato-oblongis auriculiformibus auctis lyratis, Gaulibus nullis, Involucro glabrescens squamulis latis et integre scissis in partem albam squamulis quadruple brevioribus attenuatis intimis in appendicem albam augustam internodiis denticulatis abeuntibus, Oculis neutris vix radiatis, pappi setis anterioribus longè plumosis, intermixtis multo brevioribus.

Centawea wgalophda Bolas. et Heldr. In pi. Cret. exs. 4847.

Hab. in areaosis montanis Cretae ad portum *Stita* infra *Piskokepkalt* Eparchii Sifoa Fl. Apuli. (Heldr.)

Centawea Carduncella DC. etsi habilius precedentibus affinis pappi characteribus vera *Centawea* eat.

CHEILOLEPIS Bolss.

Capitulum ovajum multiflorum. Involucro squamis adpressae coriaceae productae appendicem partem longè palmatam involucri erecto-patulam interiorum membranaceam mucronatam. Receptaculum fimbriatum. Florea flavi radii neutri obovati ceteri herpiformes. Folia papulosa, antherae breviter caudate appendicibus acutis. Stigmata concreta. Achena compressa apice angustata marginata areola basilari lateraliter. Pappus sordide albus achenis multo longior pluriaerulis setis internodiis plumosis persistentibus ad internodios seorsim auctis. — Herba perennis alpestris orientales belae et involucris *Centaurea* e sect. *Mesocentron* vel *Calcitropis* omnino referentes.

Genoa a *Centaurea* distinctissimum pappi non scabri sed plumosifloro indistincte serie ab exterioribus ad internodios elongata, a *Phaeopappo* Bolas. cui quoque accedit pappi setis elongatis primo scabris deinceps hinc species sequentes spectant.

CHEJROLBPIB OBABIFOLIA Boiss.

C. basi suffrutescens pumila caepilosa plus minusvfraraneoso-cada, folds inferioribus petiolatis oblongis sinuato-denticulatis obtusis, superioribus laeolatn acutis, squamarum appendicibus reflexis rufescenllbus palmatis 5-7 Bpnlis spiaâ terminal! allis 9-3 pld longlori validiori.

Centaurea drabifolia Fl. Grac. tab. 940.

Hab. in *Olympe BUhyno*. (Sibt. Bom.)

CHBIBOLEPIS CAPPADOCICA Boiss

C. basi suffrutescens pumila cespitosa, foliis asperis iafimls oblongo-linearibus csteiis linear-elongatis idtegerimla acatis, squamanim appeodlcbos erecto-patulis mlinimlB 6-7 splnolis, splnlis tenulbns terminal! alla vlx duplb loDglori valldlorique.

Cmtaurea Cappa&onca DC. Prodr.

Hab. ID *Cappadocia ad Euphratem* (Audi. N° 3U7), ID monte *Ghslipel bauris* supra *Ermenek*. (Heldr.)

CBBIBOLBPIB LIBANOTICA Boiss.

C. basi suffrutescens pumila cespitosa foliis asperis aogustA linearibus plnnatlobatis acutis lobis remotis deDtiformibus Irangularibus aoutlB, sqiiamarumappendicibus patulis fusclis7-41 splnolis, splnA terminal! aHls daplb longion validionque.

Hab. In *Lubano* supra *Gedros* et cacumlobus *Hermonu*. (BOISS.)

Caulis 5-6 polHcares, folia S-S 4/S poll, longa 4 4;|-a lin. lata basi in petioium attenuate, capitula eis *C. drabifolia* paulb majora, splna bitermedla dr c 3 lin. longa. ifflnis *C. Cappadocwa* a qua dlffert foUia plDDtiUobaliB nee inlegerrimis appendiceque longtas splnoBa. Tres species precedentes habiin genus *Myopordon* referunt.

CHKUOLAPIB KOTBCHTI BOISS. et Heldr.

C. canllbos ascendenUbus elatis simpUcibus-vel superne panie nmoate, foKIB asperfi pallidfe virentibus tanceolaUs acutis iategns inferioribus ID petioium attenaatbjsuperiorUHM sessilibus, Bqinmanunap-

pendicibus inferioribus reflexis ceteris erectis omnibus pallide rufescentibus palmatis 7-9 spinosis spinis tenuibus terminali alia duplo longioribus.

Centaurea Capadoctaa var. *pi.* Anat. Heldr. 1046.

Hab. in *Tauro* (Kotschy N° 260), Lycaonia idler *Beychehr* et *Komah* et ad radices in *Karadagh* propè *Larenda*. (Heldr.)

Gaulis 4-5 pedales, folia inferiora cum petiolo 3-4 pollicaria 6-8 cm. lala *A. C. Cappadocica* folius Internis congruit differt cauibus procens, folius lalis et spinis squamarum duplo longioribus

CHIBIAOLBIS Pflaica Boiss

C. caulibus ascendens elatis simplicibus monophyllis, foliis palmatis vireo-ubris asperulis lanceolatis acutis inferioribus id petiolum attenuatis superioribus sessilibus, squamarum appendicibus pallide flavis erectis palmatis 7-44 spinosis, spinis terminalibus alius duplo longioribus validioribus

Phaenopappus cheirolophus Boiss. in *pi.* Kolsch. Pers. bor. 4846.

Hab. in monte *Demawnd* (Auctier N° 4836), in eodem Jugo propè *Jaskochy* N° 629.

Uabitu et foliis valde affinis praecedens a qua differt appendicibus palmaribus multo minoribus brevioribus spinosis.

Centaurea lanifolia DC. et *C. cheirolopka* Fenzl. habent praecedentibus affines habent pappum scabridum subpaleaccum *Centaurea* et ideò ab hoc genere non separanda sunt.

CHIBIAOLBIS CASSIA BOISS (Sect. *Jama*.)

C. perennis, caulibus lenibus virgatis fohosis angulatis asperis superioribus ramosis ramis rigidulis erecto-patulis foliolis monocephalis eorymbum oligocephalum lacum rormantibus, foliis viridibus sub leute aculeolato-asperulis inferioribus petiolatis lyrato-pinnae partibus lobo terminali oblongo obsolete deenticulato obtuso vel acutiusculo lateralibus oblongo-linearibus tripliciter minoribus Integris basi secus petiolum angustè decurrentibus, foliis caulinis intermediis sessilibus sub-palmatis 3-5 partitis lacimis linearibus lanceolatis terminalibus duplo majoribus, ramis ellipticis integris, capitulo parvis, involucri glabri globosi squamis adpressiusculis, appendicibus totum involucrium obtegentibus scarificatis pallide brunneis muticis declinato-fimbriatis fimbriatis JatHu-

dincm dldcl subsquantibus, Intimis cucuUaUs laceris, flosculs roseis eterioribus Drains Don radiantibus, acbeniis pappo albo eis triplb brevlon superabB

flab, in regione Inferiori sylvatica modlis Cunt'Syriaj borealh. Legi Jun. 1846.

CauleB sesquipedales; folia radlcalla cam peftolo 4 *ijl-%* poll, longa, capitula in oorymbo 4-6 rants longiusculs suffulla els *C. n%gra* mi-Dora, aquamanim cilia eis *C. niffradlmldfo* breviora. A *C. joced*, n*-*grescenti el* afBoibus floribus exterioribus non radbntibus, acbeniis papposls, a *C. n|gr&* foliis plooaUs, flonbus extenonbus¹ neutrb etc dblincia.

CENTAIIBBA LYCIA BOISS. (Sect. *Phalolepu.*)

G. basl suffrutescena tola Indumenta paanoso adpressiasimo cana, folia ad rbizomatib aplcem congestis petiolais inAmiB indivlsib. ovatu oblnausculib breriter denticulate cseteris pinnatipartiis Begmenlia latenllbiu S-6 ohlongo-lineanbas aubintegrls terminali S-3plO major! onto vet<'4ilongo parcè denticulato, caullbns floriferls Infra rosulaa nascentibus erectis canto Bupernè parcè ramosis, ramis monocepnaUa, follia canllala Inferloribus basl plnnatib lacinils laterallbus angualè Unearibus tennnali multolles majorl Hnearl-obloaga, follis auperioriboa hnearibus Indivlais, capita Is medlocnbus, involucrl glabri aquamis m appendicem eas occultantem centro pallidè fuiscescentem latissimè byalino-membraaaceam subretusam cucullatam obsoletè denticulato-laceram in mfimis selulà brevi duruscui terminatam in caetera muticam abeuntibus, flosculs roseis eterioribus neutns subradiantibus, pappo albo...

Hab propè *Elmaiu* Lycis comm. cl. Peslaloaa.

Pedalis vel longior, folia infima *t* poll, longa IS Ha. lata, sequentia ldngtis petiolata, segments lateralla 6-8 lln. longa, capitula magnlt. eornm *C. Cadmea* et *Aphroditea*. Affinis hole qns facilè distlngnlhir foills omnibus plnnatiparttie ladnhs parvis lfnearibus, appendibus Bqoamaram anguBtloribus integris in mncronnm inermem omnibua alte-malfo.

GBFTAUAU AMMOCTANUg BoISS. Sect. *Acrolophus*.

♁. afflinwparè araneoao-puberula aubvlseidagrlseo-vireos, cauHbui

angulaks tenuibua circuianter proslralls subdtahotomè ramosissimts, folds parvis radicalibus obovatis rategrts obsolete dentatis vel basi pinnate-sublyraus, caulms anguslfc linearibus pinnattlobatis lobis utnnquè 8-6 breuissimta dentiformibus, foliis siimms sublntegrals, capilulis parvis uiico e collo radlcis sapids subsessill cslerls ad ramorum apicem solltarlis oblongis, IDvolucr glabriuscidf squamis viridibus enerviisappendicc breuiter decorreoti squaioas snboccultanti centra fuscâ margine alboflmbriatâ flmbrifs diametrum squama aequanllbus apicp in apinam fiiscesceotAm cllia vlx longlorera valldloreraque abennti, flosculs roseis exterioribus neulris radiantibus, achenlo minimo vfrescentl glabnusclo, sellis pappis fliacescfnibus exterioribus achenlo aequilongis Internis paulb latioribus conniveotibus acbeoto tripld breuioribus

Hab. in arenosis *Arabux petrea* Paisestlnx coniermins ad meridiem *Gaza*, legi flonf Apnli 1846.

Canles saepè 4/2-4 pndem longi, folia radicalia crnn petlolo vii aequiponicemlongacaulina mlnora, nopicula eis *C. panicu*. Jatopanitifaa-jora, involucri squamae eteganter nlgra alboflmbrials. Species dfstnotisalma, ndlce annua et characteribus afBms *C. patula* DC qoSb dffert folHs Integris, capitulls ad ramorum apicem 2-3 sessillibus/ splnlff squamarum valldiortbus subpatalla.

GBNTAUABA LBPTOCBPHALA BOWS (Sect. *Acrolophus*.)

C mulUcaulls tola paroè et breuaimè araneoaa aspera pallldé TIrens, caullbus rigidls anpulis superoè ramoalsaimB effusè paniculato-corymbosls, foliis rigidls loferioribuB pinnalipartitis segmends rarcbldque angustisslniè linearibus laterahbus breuibus, follu camUob linearibus basi deotaUa Integralsve, capllulls termlnaHbus solilBiilfl minjmis, ioTolQeri cylindrici sqoamis sub lente puberulls In appeodlcem rubellam lanclolatam apiDosam squarroso-recurvambre^lter et pionatim clliato-spinulosam abeuntibus, flosculs purpurels clrc 43, neutris ferfc 6 DOH radianlibus cseterla bermaphrodltis, acheDiis compresss calvis.

Qab. In colhbus sterilibua Intillbanl et collium flnftunonim Gode-syns, legl flor. Julio.

E grege *C. virgata*, *consongwnea*, *calolepidi* et *sgvarroia* fert omnium capiiuus mlnonbus donata, aduabus prionbus appendlee spi-

nosfl, a posterioribus spins elongationis magisque recurvs cilils lateralibus squamarum dlamelro brevionbuB l'adlè dutlaguenda.

GINTAIIBRA DICHROA Boise, et Heldr. in pi. Anat. OXB. 4846. (SecC. *Acrolophus*.)

C. lafernè frutescens vestlgils caulium et peUolorum vetiutorum obalta deln mullicaulls <puhbus lenulbus vfr̄gatis rigidullB parcè folio-au alternaiim ramosis ramls rigidulls ercclo-palulis monocepballa, fo-UIB ad basio caulfum coogesliB adressè canescentibus plonailpartitis segmeotls inlegris acutlusculis subqulois raritis septenls racbldeque 11-nearibus caulloiB sinctis indlvlsis *angaatb* lloearibus, capitulis miDutis, lovolucris oblongi glabn Bqoamis ovalis pallidis adressissimls vix appendiculatis margine breviter flmbriatis mutlcis flmbrils albfdla diametro squamx brevioribus membraDâ marginal! vix decurreoti, corollis pallfdè ochrolencw non radiantibus, antberis vlolaceis, acbenlls pappo triplb brevlori superatis.

Bab. in saxous pinetorum ad *Tchtralx* In radldbus montf B *Taghtalu* Lycs. (Heldr.) Fl. Malo.

Seaquipedalls, folia Inferiors cum petiolo blpollicaria Begmentis 6-8 lln. longiB ^tUtls, captula magnitudiDls eis *C. ovina* sed angostlora. Afflnls bulc spedei e&tmlè dlffert caullbus vetuBtis froteacenlibus, follis radicalibus minds disaectis, caulmis IndLvtsiB etc. Fonnam setarum pappi ex acbenlo onico anoi pneteriti rite examlnare non potui.

GBNTAUBEA DUHJLOSA. BOIBB. (Sect. *Acrolophiu*.)

G. collo lanato mulUcauli, caullbus subnudls a basl ramoalaatmis strictls tenafbus rlgldia quadrangulls iofernd parcè et adressè caoesoenti-pubeniliB sopeniè glabria, ramls soblntricatis rlgldis monocepballfl, follis radicalbnfi....caoUnüi paudB minlmte plnnaUpardtiB radde Begmenlisque llinearl-subulatte laterallbus 9-4 brevissimls, follis Bupsrioribns BobulatB ramela abbretratib sqaamffiforfiibus, eapltnlis parrts, torolucris obloDgi squamis parcè pnberuUs sub 5 slriatls appen-^tee non decurrentt squamas saperlores snboccultatrtl paillttâ flmbriatt ftr apinulam reclam flmbrite albls duplb lontforwensstaremque abeun-U'termlnatls, flosculte rosels, achenlo nigro nltldo glabriuBcalo pappi, Bttta albto extarlolrlbus achenio-triplb brevioribus lntclrlolrlbus brevl-sfmls eonnlvntibus

•Dab. in siccis regions sylvaticis ad radices Libani inter *Amete* et *Dittir el Achmar* spur Legi Julio 4846.

Planta 4jJM pedalis, capitula magnum *C. arenaria*, habitus omnino *C. scoparia* Sieb. sed characteribus affinis *C. arenaria* et *panxeolata* a qua differt habitu et forma foliorum, capitulis ad extremitatem ramorum elongatorum aequalibus.

CBNTADHEA DAMASCENA BOISS

C. basi suffruticeos multicaulis, caulis subapicalibus brevissime puberula aggregata a basi ramosissima, ramis nodis tenuibus intraxillaribus, foliis radicalibus linearibus pinnatifidis lacinis paucis angustis linearibus brevissimis, caulibus et ramis abbreviatis squamiformibus, capitulis ad extremitatem ramorum aequalibus parvis oblongis, involucri squamula glabriunculis in appendicem centra ferebus margine late albo-membranaceam breviter denticulatam apice parce et breviter saepe fimbriatam spinulis tenuissimis appendicis longam vel brevem terminantibus abeunibus interioribus apice hyalinis integris, flosculis pallide roseis non radiantibus, pappo albo...

Bab. In collibus arida Syria ad *Doauicum* Aucas N° 3J08 et inter *Danueum* et *Antilibanum*. (Boiss.)

C. alba var. *spectabilis* DC. quoad plantam Synacam.

Dumus interneatus nodosa subsperma B-44 pollicaris, capitula illis *C. alba* fere dimidio minor ea *C. panxeolata* aequalia. A. *C. alba* et *C. spectabilis* diversissima capitulis parvis, involucri squamis dimidiis angustioribus, caulibus difformem ramosa Syria, foliis et loto habitu. Aequalia collocanda prope *C. denticulatam*. *C. dumulosam* et affines et appendicibus late membranaceis quidem aed apice bifimbriatis transitum Inter *Phaloleputem* et *Acrolophum* praebens.

CANTABRIA AUFOLIA Boiss. (Sect. *Cynaroidn.*)

C. perennis TWzomate tuberoso-increasato, collo fibroso, cauliculis virgato striato erecto elato inferne parce folioso crispule pubescenti supernè glabro parce breviter et remotè ramo 4-3 cephalo. M. s. radicalibus et caulibus infimis paucis pellole striato crispule pubescenti eia sublongo vel longior suffultia intense viridibus tenuiter cartiaginea reulato-nervosis utrinque lucidis papulis alba spanli»ml» crispis sub lente obaltis lactu aspernilis obsoletissime rennato-repa-

dfs oblongis vel ovatis cordato-bastatis aculiseulis rarissimis sub bast truncata 2 segmentis molitibus Unearibus auctis, auriculis basilaribus folio 3-4* pto brevibus foliorum radicum obtusis vix divergentibus, caninorum inferionum videtur dergentibus late triangularibus aentibus, folio caulino superiori solitario saepe deficiente oblongo lanceo-lanceo-acuminato In petiolo brevem attenuate, capitulum magma globosa, squama appendice scariosa rufo-olivacea late latior ovato-triangulata a basi fimbriato-pectinata apice in apicem subulatam rectam duribus squamarum inferiarum brachiorum superiorum appendice 1-3 plicis breviora abeunt terminatis, squamarum inferiarum appendice eis aequalibus oblonga vix fimbriata breviter et minus apiculata, flocculis intense purpureis radiatis uellulis, acenibus teretibus Us glabris, pappi aordide rufescentis acenibus sesquialongiora aetis venterum exteriorum ad interioribus ad interiores elongata, Indus seriei inferioribus paleacea acenibus triplicibus.

Hab. in ambrosia sylvaticis regionum inferionum montis *Guth* In *la* Inter *Laodiceam* et *Snadneh*, legi floriferam Jon. 4846.

Folia inferiora 6-8 poll., longa, 6-7 lata petiolo saepe ferè pedem longo suffluta, caulis 1-4 pedalis, capitula et *C. Scabrot* *B* majora, appendix squamarum inferiarum absque spinis 6-7 lin. longa lataque Species foliorum magnitudinis et formae Insignia prope *C. eardttMukm* Boiss. et affines collocanda.

CBNTAVUA fLpicATA Boiss (Sect. *Cynaroide**)

C. blennis vel perennis caule crassiusculo striato papillis criapibus sparsis inferius prorsertim hirsuto folioso Bimphodismo elato, folia viridibus nervosis papillula albidis sparse minutis asperulis radicebus eanibusque inferius longè petiolo usque lyratibus, segmento terminali maximo oblongo basi cuneato vel cordato obsolete denticulato, lateribus utrinque marginatis oblongis vel ovatis ramis basi segmenti terminalibus et inter se confluentibus, folia canaliculis intermediis oblongo-tanceolatis integris vel inferius lobulatis In petiolum brevem attenuata, anterioribus augustè unearum integerrimis basi sessilibus caulem In alas angustas tategras decurrentibus, capitulum pedunculato striato eis breviori folio lanceolato-subulato squamiformibus 4-9 oblongo sufflatis seeds caulis partem superiorem altius racemum spudtormem longum laxum formantibus, involucri glabri squamis apice subconstricto abeuntibus In appendicem nescienteram inferiorem e basi inferiorem ciliato-fimbri-

bnatam spinâ recta valuta ei atquelongâ terminatam, squamarum inli-
marum appendice parvâ brevissimè cillalâ spinosâque, flosculis purpu-
reis non radlantibus, achemis obloogis glabrâs mtidis albidis compres-
sis pappo eia sesquolongiori voloraceo termiaatis, sellis generum'ezte-
norum ab Infirmis ad Intenores sensim auctis, serie anterior achenio
triplo brevion paleis albidis conniventibus.

Hab. in pratis Syria litoralîs inter *Laoduseam* et *DjMet.* Legl Ju-
ni(U846

Planta *i-t* 1/2 podalis, folia inferiora 5-6 poll, longa ferè 3 **poll.**
lata, canlina ad basin pedunculorum 4 *ijt* poll. clre. longa 3-4 lin.
lata, capitula dimidiò minorâ els *C gigantea* Schultz in Kolsch. pi.
Kurd, qua? nosne specdel inflorescentiâ valdè adnâ differl mdnmento
araneoso, foliis indivtsis, squamanim appendice albâ lanceolatâ rno-
tiôs et crassitatis ciliatâ, floribus ochroleucis.

GENTADKEA ONOPOBDIFOLU Boiss (Sect. *Oynaroides*)

C. tola adpressè araneoso-canescens, caulis erectis alids fluperaè
Bubtyrsoideo-paniculatus ramisque nigridissimis, foliis lanceolato-11-
neanbus nigridissimâ duns suprâ Isviusculis subtùs elevato-nervosu
plnnatilobatis Inter lobos sinuato-undulatis spinoso-dentatis lobis Irri-
ngulari-ovatis margine et apice in splnas flavas breves duras abenti-
bus, radicaibus et inferioribus longissimis in petiolum brevem angus-
tatis, caulibus pins mints abbreviatis strictis in alas els aequilatas conti-
nuas lobato-spinosas abeuntibus, panicle ramis brevibus strictis mo-
nocephâs ssepius sessiliter et alternè a-3 cephalis, capitollis **fla-**
vido-spinosissimis, involucri squamis adpressissimis albo-tomentosis
appendice glaberrimâ flavâ lermatis, squamarum inferiorum appen-
dice reflexâ brevissimâ ovatâ subpalmatâ spinosâ spinis brevibus viz
iniquibus, Intermediarum In splnam eâ multo longiore erectam vel
arcuatam acerosissimam attenuate utrumquè basi 3-4 spinis tenuibus
aucta, mtimarum appendice cucullatâ subintegrâ aplce tenuiter brevi-
terque spinulosâ vel mucâ, flosculis luteis non radiantibus, acheniis
oblongis compressis mgncantibus areolâ bacillari valdè lateral!4 pappi
mgncantis achenio duplo longioris setis scabridis ab extlmlt Benstan
eloogâs, serlei rotimae paulo latioribus paleacets conniventibus achenio
triplo brevionibus.

Hab. marne multis *Calesyria'* it collum adiaceoUum, legl floe
Julli vix florere incipientom

caules plures 2-3 pedales rigidissimi valde reptiles, folia inferiora 12-48 poll longa superiora 4-8 poll, longa, panicula thyreoidea 8-10 poll longa, capitula UHs *C. colhnat* paulo maiora, appendix squamarum inferiorum cum spinis vix 8 lin. longa, superiorum spolia saepe pollicaris. Folia longissimis, caulibus alatis *Onopordon* referees, appendicibus valde idem squamarum ab omnibus aliis generis distinctissima. Forsan eum praecedentibus melius section! *Aerocentro* adnumeranda

. GENTAURIA Aimochia Boiss (Sect. *Euaerocentron*.)

G. caule subaerugulato parce et adpressissime araneoso-pulverule dolo elato auperne longiuscule ramoso pauciculato-corymboso, foliis glabris usculis radicibus numerosis caulibusque inferioribus peliolatis ambitu oblongo-lanceolatis vlyrato-pinnatifidis, aegmentis ovato-oblonga minute et obtuse denticulatis a superiori paulo majore ad infima minute basi saepe confluentibus, ramis inter segmenta lobis saepe aucta, petioli puberulis, foliis caulibus intermedii pauca segmentis linearibus subintegris, annis ad squamulas oblongas lineares reducit. Ua, capitulum magnis pedunculo longe suffaltia, involucri hemisphaerici squamis glabris ovatis margine auperne pectinato-ciliatis apice in appendice lanceolata ciliata recurvam patulam squamarum inferiorum breviorum ceterarum squamam longiorum abeuntibus, squamis intimis appendice rotundata fimbriata inferius velutui terminali, flosculis atropurpureis non radiantibus, acheniis compressis albo-velutinis pappo fusco eis paulo longe terminatis, setis scabridis ab exterioribus sensim elongatis, aenei minutae albis paleaceis conniventibus acbenis triplicibus brevioribus.

Hab. in rupestribus calcareis montium ad *Orontem* inter *Swuhek* et *Antiochom* sitoram et in eadem area *Antiochuffi*. Fl. Jaolo. (Bols8.)

folia radice 6 pollicina 4-6 lin. lata, segmentis lateralibus utrinque 1-6, caules 3-4 pedales, capitula magis. *C. oalaeophala*, spinis squamarum intermediarum saepe 8-9 lin. longis. Species elegans floribus atropurpureis, foliis ad *C. tabuttom*, involucri ad *C. Ohmannam* et affinea accedens.

GENTAURIA BOOFULOMI Bolss. et Heldr. in pi. Anat. exs. 48(6). (Sect. *Aerocentron*.)

C. rhizomate crasso cylindrico, collo lana bombycina densa vestito,

caule Bubangulalo-sriato brevissimè puberulo Mipernè dlcbolomè ramoso 3-5 cephalo, folli pallidè virentibus sub lente tenuissimè asperulo-puberulis lanceolatis pinnatifidis, segments oblongo-lanceolalis acutè acutè denticulatis basi saepius alteiraails terminali sepè paulo majori lateralibus vrsusbasln folli decrescentibus, rachide Inter aegmenta lobulis rapè auctà, folli caullis Superioribu* semudws parvis pinnatim 3-5 partitis, capitulis magnis ad ramorum apicem solitariis, involucro hemisphaetico laevè bombycinà aquamas fertocuttantè ilense obito, squamis ovatis in appendicem nupricantem reclam breviter triangularem ciliato-pecunatam apicè patuli tinal dills Iriplo longiori validiorique lermतालम abeuntibus, squamaram interiorum appendice rotundà mucosà breviter fimbriata, flosculis roseis DOD radianlibus, aciemis lompresis puberula pappo albo els subduplo longior superatis, sellis pappi vix scabridis ab exterioribus ad interiores sensim auctis, serlel intimè pinnatis latioribus basi connatis Inlennedlas subaequalibus.

Hab. in lissuris rupium verticalium prom. *Maya Pampbylic.* Fl. Apr. (Uoldr.)

Sesquipedalis, foila radially rosulata 6-10 poll, longa, flegmentis 40-43 Hn. longis a-6 latis utrinque* 6-7, capitula magnitudinis C. «tebuaa, spins squamaram 3 Un. circ. longis. Specie* pulcherrima In seel. *Aeroeentro* prope *C. Ohverianam* collocanda a *Centaime* caractere aerie inumè pappi DOD abbreviate paululam discedas sed hale tanea omnibus allis notla et etiam paleis serlel Intima basi connatis optime congrueos.

CmTADUA spiaosa Bolas. (Seel. *Aeroeentron.*)

C. tola tduaienlo araneoso tenui adpressissimo dnereo-oma, rhomate suffrutescoU multicaull, caullibus brevibus canfl ad aptocn tuquè densè fdlosis monocephalis, lolli teneris omni6 mifuds utrinque canesoentibus ambllu oblongo-lanceolaUs pinnatifidis *segmentis* inferiorum latioribus oblongis basi aogustatU obtusè obtusè pinnatifidatis superiorum angustioribus minoribus oblongo-uneuribus Integro vel denuculatis, capitulis magnis, Involucri parvissimè aneosi Tet gfcbreseentis squamis vresoentibus appendice patolà vel reflexà flwMà basi lanceolate eanallculatà 8-3 splnullis tenuibus utnoquè obsitâ in splnam longam acerosam validam squamâ «-3 plò longtoran atteqaat& lermnaiis, squamarum intimè sppendice membrDaceâ ovati ■■■■

licà lacerà, floaculis roseis, aënenlla pallidè virenlibua gbris pappo albo vel rubello eia paulft loogiori tenninatls, *setis* ab exterioribUB brevlorlbnB senslm auctia, send intime DOD latloribus connlventibus acbeoio dlraidib brevlorfbus.

Bab. In ruplbna verUcallbna calidla v'allwn drca *Catanam PhUippt* (*Bania**) GaUlase tills. Legi flor. Aprill 4846.

Cftota ex eodem rhbomale plum 6-10 poUkares, folia radlalia eault equllonga aegmeDtis 6-40 lio. loogia lobta ovatla, saperiornm segmenta et lob! aagustlora breviora, captula magn. els *C. ornate*. Pulcfan species folls et indameDlo *C. eirurariam*, captulls *C. eryngtoùUm* referena.

Gurr&nuA AIHRIHSU Boiss. (Sect. *Aoroemtron*.)

C. tola pills annalalls molllbns patnljs aecto canlea apania aecAa folb el peflolos densia dnerea, rblzomate indunto maltlcaall aplce lanalo, caullbus angulato-atrlaUB erectU rigldlB 4-> cepbalto, folia pedolatla plnnatiparttia aegmentia valdè liuequalibna ovatla oblongls vel ItQeari^anceolatiB obtaaia macronalBtls integNB terolnall seplda elongato, rtchldelater legmenta dentata, follb> aaperioribaa panda brevlbos segmenlla angnalta longè mncronails vel tadviiito llinearibm, ct-pU<Ut pednncolo rigldo nndo ela longiori suffuHla ob'longlB, unolncrl aqutinlB adprassè pubescenUbuB margne ilbo-membpaMccla breviter et latluaculé dlfatls In aplnam OaWdain baal plmiato-spinulosain patnlan vel recnrvam acerosam eta dupl6 longtorem attenuatlB, aquamls IntimlB aplce lalè byallDls muticls vlx lacerto, floacullB pallldè carneis eleganter annUaco-BtriaUfi non ndlanUbus, antberis intensè purpureis, achenio hlrtulo basl drca areolam longè pentelllato pappo albo da sequilongo lernlnato, aetlB ab ezterlonbna brevlorUnia aenabn doogaUa, aerld inUaas laUoribiu psleaeelB connlvenUbnt achenio dimkito brerto-

flab. ID ayhatteto ad radices Ubanl In CoDlesyrlà Inter *AmtU* et *XW⁸⁹* *tiAohmar*, legl fructlferam Jol. 4846.

Gaales 4ftH pethrlea, ftrila ea *C. eryngtoidit* refereotUjed Indu-BMDU) pUorum longornm lente amndatoram dnerea, ladola longlorea et anguBtlores, captula da *C. eryngioidu* vqnUonp aed anguaUora, cilia et iplna bravlom en 6-8 Hn. kmgn^ corolla palUdior, anthers purpurec nee flaveBcattea, acbenlam baal niultò longiua peoleUlatum

CBNTAU&BA CROCODYLIOIDES Bous (Sect *Acrocewtron.*)

C. annua vel bieonis, caule virgato elalo parcè pubendo aspero acutè angulato supernè ramoso, raimis stnclis elongatis nudis monocepñalis, foliis viridibus asperulis infenoribus lyraba lobo terminall obltago lategro vel denticulate lateralibus minoribus 4-6 oblongo-linearibus, foliis supenonbus pinnatiparlitis lacinifis omnibus anguste hnearibus, capitulis magna, involucri globosi glabri squamulis abeuutibus ID appendicem breviter decurrencem supernè nigro-fuscam margine regulariter albo-fimbrialam fimbriis appendicis diametrum squantibus apice spirt tenui creclà idfenorum abbreviate superiorum squamam superantl terminauum, flosculis roseis neulis valdè radlantibus, achemo compresso pllis flavidis detersillibus pubescenu, pappi setis exlernis tenuibus albis ab exlimis brevissimis ad intiiDas achonio subduplb longiorensenslm auctis, senei mums paleacex acbeoio dimidi6 brevloris palels ruAs truncatis denticulatis aretè conniventibus

Hab. in collibus Galifceaj ad plaDitiem *Eadrallton*. Legi flor. Haie 4846.

Seeqè 3-Kpedahs, omnibus notis habitu floribus et achenis' *C. oodfflio* quam quoque in Gallisft legi simillima nisi quod appendix squamarum membranà ad basin usquè longè pectinato-cillatft nee integerrim& marginata est et in spinam longiorcm ssp6 9-10linearem attenuatur. Hoc discrimèD nuhi nimis grave videtur ut ei bic planU aolum varietatem condam.

GBNTADDBA PEBTALOXZJG BOISB (Sect. *Croedyhum.*)

G. acaalla, riiizomate crassiusculo vertical!, foilia omnibus radlicibus roaulatis pilis longis sub lente annulate bispldis griseia ambtu linearl-oblonga pinnatiparlitis aegmentis mlnuUs obovaio-spathilalis obtusis mucronulatis basl attenuatis lotegriB vel obsoletè dentatfls, lftbnlis miaulis inter segmenta interjectis, capitulis inter folia sessilibus mediocribUB, involucri glabri squamfe pallidè flavis angustè albo-maivginatis cibatis eiliis versùs apicem squamae elongatis, splnik tenninall tenuisaimà flavà erecto-patulà squamaB equilongà vel brevlort, sqnamls intlmis appendlue ovatft cucullatà denticolato-lacerà tenninatla, floscnlla luteis, achenlo densè birsuto, pappo albllo achenlo longion.

Hab in raonte *Akdagh* Lyciae cl. Pestalozza.

Folia 3-3 4;3 poll longa 8-10 hn Liia, cap Hula |viv||b minora els G.

Hellenice cui ut et *C. aoieulan* nostra species affinis est sed Itae prae-ter indumentum diversa a nostra spinis longioribus validioribus basi plinnatis spinosis differunt.

CBNAUBBA IPAA BOISS. et Heldr. In pi. Cret. exs. 4847. (Sect. *Mesocentron*.)

C. biennis adpressè araneoso-canescens, foliis ferè omnibus rosulatis humi expansis ambitu lineari-spatulatis lyrato-plinnatis lobis lateralibus numerosis minutis auriculiformibus ovato-triangularibus acutiusculè 2-3 denbuculatis subrelorsis versus basin fohi decrescentibus terminali alio trilobato majore basi iruncato vel subcordato deltoideo saepius transversè lation, racemide inter segmenta minutè lobulata, foliis caulinis inferioribus minoribus lobis lateralibus a-6 deorfiformibus terminah oblongo mucronato, foliis superioribus hinc oblongis basi attenuatis vel linearibus mucronatis aequissimè et integrè decurrentibus, caulis plunbus e centra rosulis ascendentibus pumillis supernè ramosis, ramis elongatis ancipiti-subulatis mucronatis, capitulis mediocribus, involucri globosi demum glabrescentis squamis adpressis vmdibus margine non membranaceis in splanam acerosam patulam erectamve floras superantem squamam i-B p!6 longiorem non canaliculatam basi ustulatam duabusque spinulis astulatis brevibus utrinquè auctam supernè flavam abeuntibus, squamis minutis fere appendicem angustè membranaceam ustulatam spinulosam vel mulicam abeuntibus-, flosculis luteis non radlantibus, acheniis minimis albis marginalibus diidls exteris papposis, sellis tenuissimis albis senei extensoris acbenio abquilon- gis, inienoris acbenio sextuplo brevioribus

Bab. in saeculis regionibus sylvaticis montibus *Ida* et montium *SphamO' ticorum* alt. 3-5000'. (Heldreich.)

Folia inferiora 3-3 4S poll, longa, segmenta lateralia utrinquè 10-11 parva terminale 6-7 lin. latum i-5 longum, caules longiores senn- pedales, capitula magis. *C. solstitiatis* cui affinis est et a qua differit formis foliorum, caulibus numerosis pumulis etc. Spinis involucris longiores MO Uneares. *C. Sioula* nostris speciei quoque affinis differt caulis latè et sabundulatis, involucri pappo omnino et pallide luteis minus longè et validius spinosis, spinulis lateralibus numerosioribus.

C. proreM Sleber eat species propria quam in desertis Arabia; petrae quoque legi et qua ab affinis *C. pallescenti* et *Aegyptiaca*

cerUt differt, sed cl DC. sub hoc nomine partim describit specieiui Schimp. N° 349 foliis decurrentibus spinisque Involucri totâ longitudine spinulosis diversa et ad suam *C. Smaieam* spectantia.

CENTAUREA BREVICAULIS BOISB (Sect. *QUcUrapa* Cass)

C. annua vel biennis, caulis brevissimis prostratis flaccidis simplicibus vel parvè ramosis crispulè papillosis, foliis flaccidis asperulis virentibus linearibus pinnatifidis, rachide lato-lineari saepè Jobulata, segmentis angustè linearibus elongatis iterant pinnalobatis vel indivisis crispulè denticulatis teraunall saepè longiori, capitulis 4-1 seeds ramos breviter pedunculatis terminalibusque soltanis mediocribus, involucro homodi squamis stramineis brevissimis margine membranaceis in spatulam stamineam nitidam latam supernè planam infernè convexam teneram medullâ feream patulam floribus duplè longiorem basi utrinquè 3-5spiculis brevissimis superam abeuntibus, squamis minutis muticis apice aogustè membranaceis, flosculis luteis non radialis, achenis stramineis, papillis exterioribus albis tenuissimis achenio paulè longioribus, aerie interna; minutissimis vix perspiculis rufescentibus.

C. eoictrapa var. *brwütavks* DC. Prodr.

Hab. in Agypto (Sieb, Aucler N° 3U0), In *JEgypto media* ad ripas *Mi.* (Bolss.)

Caules 3-8 pollicares, folia inferiora J 4; J-3 poll, longa rachide ab apice ad basin ubi 11; I Hn. lata est dilatata, segmenta longiora varia 4-4 Hn. lata. Spedes infustata relata ad *C. eo/Uropam* a qua forma foliorum, floribus luteis, achenis papposis recedit et in sectione foliis flaccidis, spinis medullaribus inflatis minutè duris distinctissima.

CENTAUREA PAHPBTICA Bolss. et Heldr. In pi. Anat. e u. 4816. (Sect. *CaicUrapa*.)

C. biennis, caulis torellis conspersis striatis foliosis diculomè ramosis, foliis asperis parvè papillosis flaccidis ambitu oblongis pinnatifidis, rachide segmentis angustè linearibus donata minutè denticulata ad densatos et apicem spinulis aculeiformibus albis minutis crebrè obsitis, foliis summis oblongo-linearibus lobatis capitula bracteanibus eaque oquantibus, capitulis in dihomilibus depressis subsessilibus terminalibusque solitaris medlocris,

involucn glabri squamis adpressifusculis coriaccis virentibus Inferionibus apice truncatis subpalmatis et brevissimè 5-7 spinulosis spinis erectis, intermedlis pappis In spinam vadam duram lutescentem patulam lanceolatam supra canaliculatam fuscis sublongiorem fimbriae spinulosae abeuntibus, supremis appendice membranacea rufescentibus, achenis ovatis compressis mimis omnibus nudis.

Hab. ad campos et viae Pamphyllae ad fluvium *Cestrwn* Julio (Heldreich.)

Petalis vel sesquipedalis, foliorum segmentis circ. lineam lata, capsula inaequali. eorum *C. calotrapa*; spines intermediae? 7-8 lin. tantum longae
A *C. calotrapa* foliis crebrius spinulosis, squamis intermedlis soils in spinam productis etc. egregie differt *G. Alexandrina* quoque a *D. nis* habet folia aliter dissecta, squamas omnes spinosas, spinas crassissimas late canaliculatas inferae spinulosas, etc

CBNTADBEA ABANBOSA BOISS. (Sect. *Crotalaria*.)

G. tota papulis crispis araeosa grisea, caulibus angularibus prostratis rarisissimis, foliis radicalibus bipinnatis partitionibus primariis rachideque linearibus elongatis terminibus linearibus longiori ramulis oblongis, parvum segmentis minimis ovato-oblongis, folia caulis oblongo-lanceolatis latiusculis irregulariter lobatis deorsumque dentibus mucronatis, capitulis breviter pedunculatis foliis supremis ea subaequantibus bracteatis, Involucro ad spinarum basin araneoso-lanato squamis arete imbricatis virescentibus dimidiatis integerrimis spinis recta tenui etaequilongae vel breviter terminatis, intermedlis in spinam vadam patulam flavam duram basi latam canaliculatam spinulisque 3-4 utrinque auctam fuscis asquilongam vel longiorem abeuntibus margine non membranaceis, squamis intimis appendice membranacea denticulata cucullata pallida lenioatis internodiis, fuscis lutis non radiantibus, achenis minutis, pappi setis extensoribus inermis albis achenio subaequilongis, intimis rufescentibus inter se remoliusculis brevissimis.

Var. [^]. *tenuifolia*. — Linnis foliorum angustiores spinaeque capsularum basi paulo minus dilatatae caeterum omnia spedei.

Hab. species in arenosis praesertim maritimis Palaestinae, circa *Gaza*, ad radices septentrionales *Carmeh* sub caenobio. Varietas ad meridiem urbis *Gaza* In regione *AmaleoUarum* (Bolss.)

Species a *C. calctrapa* et *C. calctrapoides* auct. recentiorum distinctissima floribus flavis, capitulis araneoso-lanatis, spicis crassioribus 9-10 nudi. longis basi 4-4 in labis. Foras hinc ex verbis • *calyces* *ban lanuginosi* • spectat *C. calctrapoides* L. Amzn. Acad. quoad pi. (Palmstam non auctorum) species caeterum e mixtione plantarum diversarum orta idem valde dubia et ob folia • *tridactyla serrata* • dicta in nostra plants aegre agnoscenda.

CENTADHEA HEHMONIS Boiss (Sect. *Calctrapa*.)

Z. tola breviter papillosa, caulis teretibus acutis, striatis rectis a basi deorsum ramosissimis, foliis praeter pilos annulato-crispos aspens ambitu oblongo-lanceolatis pinnatispartitis, segmentis linearibus a media parte rachidis utrinque decrescentibus iterum pinnatispartitis lobatis denticulatisve dentibus in aculeolos calcareos albos abeuntibus, folds caulis superioribus linearibus lanceolatis denticulatis, supremis ad basin capitulorum reflexis eis squamis longis, capitulis numerosis secas ramos sparsis subsessilibus terminalibusque, involucris glaberrimis squamis integris angustissimis et integra membranaceo-marginatis inflatis in spinam brevem raritatis spinulis obsitam abeuntibus, intermediis in spinam flavam acerosam partem superne canaliculatam flosculis multo longiorem basi 1-4 spinulis obsitam abeuntibus, intimis appendice ovali membranacea integri terminatis, flosculis flavo-roseis non radiantibus, achenis oblongis compressis, pappi exterioris setis albidis tenuibus ab extimis brevissimis ad interiores achenio breviores sensim auctis, seriei intimis triangularibus lanceolatis densis brevissimis.

Hab. circa *Raseheya* in Antilibano et in siccis regionibus inferioribus fluitant. Legit Julio 4 846.

Bamosi *Mima i-Mji* pedalis, flosculis radicalibus cum petiolo 4-5 pollicibus sesquipollicem lata lanugine 14-9-5 lin. latis, capitola magna. *C. calctrapa*, spicis 4-5 nudi. longis basi linearibus late. Species a *C. eotrapouk* Auct. Fl. Gall. folds multo magis dissecto lobis calcareo-aculeolatis, squamis involucri evidenter quamvis anguste membranaceis, colore flosculorum, pappo exteriori acenium non aquantibus distincta. *C. kyaloltpu* squamis late hyalino-membranaceis Jonglus distat.



DIAGNOSES

PLAMARDM QR1INTALIII NOVARDH.

HAAISIIS - TYPIS MABCI DLCLoux ET CONS ,
VIA iCOLE-DE-M^DECINK , 80

DIAGNOSES

PIMARH OMENTUM NOVAR1

N° ii.

AUCTOHE

R. BOISSIER,

Soc PHTB. GBHBV. SODALI.

PARISIIS.

TYPE MABCI DCCLOUX ET **CONS.**

vii ~~1849-1850~~, 18

1849.

DIAGNOSES

PLANTARUM OHIEWTAUUM NOVARUM.

COMPOSITE.

CORYMBIFLORAE

BELLIDIFLORAE BOWEN, et Hemsl. in pi. Gret. exs. 4847.

B. perenioides, radice fibrillis cylindricis tenuibus longis numero bisconstantibus, foliis uncinatis parvis et adpressis binotatis linearibus apathulatis elongatis obtusis utriusque venosae apicem 1-1 denticulatis minutissimis ascendentibus acutis obscuris, scapulis folia 9-3 pedibus superantibus hirtulis, involucris pbyllis nigris ellipticis obtusis basi paeatis et adpressis albo-hirtis, ligulis palmaribus rosatis involucro sesquialongioribus, achenio compresso obovato obtusissimo margine crasso distincto.

Hab. In monte *Cavoutst* provinciae *Stita* Cretae alt. 6000'. Fl. April. (Heldr.)

Folia majora 9-12 poll., longa inferne longe attenuata auperne 4-6 UD. lata, capitula paulo minora eadem *B. permute* quae differt foliis subtrinerviis obtusis crenatis obovato vel oblongo-spatulatis, indumento et papillis crassioribus constant. *B. sylvestris* longioris distans capitulis majoribus, involucris phyllis acutiusculis.

ELMIBBON ELBUBBHSI Boiafl. In pi. Kotsch. Pen. bor. 4846.

E. Celsii nanum, radice fibrillis longis constantibus, foliis pinnatis inargineis glabris utrinque glabris vix distinctis oblongo vel linearibus spatulatis

thulatis internis ID petiolum attenualis, caulibus hirsutis raonocephalis apilulo vix longioribus. capitulis e folis non exsertis, involucri pbyllis linearibus dorso palule papillan-birtis basi vinctibus apice Bcanous purpurascens acurainatis, folibus fmmefe omnibus ligulatis palidè roseis subulatis disco paulò lougionbiis.

Flab In scbistosis ad lacum alpis *Hasartsohal* in pane occidentali montis *Elbrus* Koiseb N° 488 Fl Jul

Planla vix polhcans, capitula paulò mluora eis *E. untfloret* a quo prater capitula c ispspite non exserta differl involucre breuiier hirlo nee lanato, hgnulis discum paulò tantàm excedentibus.

EVAX AKATOLICA BOISS. et Heldr. In pi Anat. exs. 4846.

E acaulis vel e basi glomeruli centralis ramosa snbumbellata ramis prostratis, folis adpressè albo-lanatis oblongis acuis glomerulos duplè superantibus, capitulis in glomerulos plamutculos deosslsmè et lDdisinclè congestis, involucri pbyllis oblongis subcarinato-cymbiformibus acutiusculis pneler apicem angustè viresceulem albo-merabracels internè nudis supernè omninè lan& crispfl albà obsitis apice mucrone aeluloso brovi glabro terminalis, achenlls cylmdncis sub lente tenulsslmè hlrtulo-scabndls.

Hab. in seccis montanis Anatolia, monle *Gkelipel* vallibi^oftsou Isaurise, montibus ad onentem jugi *Ghetdagh* siUs alt. 4300' (Heldr.), £*• *bano*. LabIU. ex berb. Welb, circà *Diarbekxr* Kotschy N° 489. •

Ab *E. asteruetfloro etpygmao* fàcilè diguoscltur pbyllis involucri Don omnlb vel saltern supernè glabris nee attenuato-acumlnatiB sed prater setulam terminalem glabram ad apicem usquè densè lanatis magis cymbiformi-DlcaUs. Icon *Fit. esngua* Fl. Grac. differt a nostrt plantft folus floralibus oblusis glomerulo >ix longioribus el *E. extgua* DC. et Goes, e Sicilia qua) ex cl auctoribus species Sibtorpbna Ipsa est ab *E. AnatoheA* distlncitsslma est pbyllis sensùn alteimallB bul lanatis superoè nndls et forsan ab *E. pygmad* capftuHs basi magu lanatis DOB BSUB differt.

EVAX PALASTINA BOISS.

E. lota lanft adpressi gnsea sub glomerulo central! BubsettiU proliferè ramou man prostrate iterùm prolUeria, foHls llinearibus obtusis glomeruloB duplè et amplihis.superantibus, capitulw in glomenik*

spbaencoa densè congestis ted later ae diatiDctls aploe e fenà proml-
DUMB , f nvolucn pbyllis oblongts cannato-cymbiformibus dorao vM-
dibus margine albo-membranaceis extus tolâ longUudine adpressè bir-
sulis omnibus in mucronem setaeum glabrum abeunlibus intims bre-
vissimè mucronalis, achenhs oblongis Bob lente mlnntiBsimè pube-
rulia.

Ilab. circâ *Hterosolymam* ubi legi April! 1846 ineuDte.

Diaraetro 8-4 pollicaris, folia floralia 6-8 Ho. longa, affinia spedri
prxcedenti a quâ differt ramositate majon, folds longloribus, glome-
ruin converts nee plants, capitulis ob squamas intenores paulb Ion-
giores dlslocUs, involucri pbyllis toto dorso nlgro-viridibus longltis
selaceo-mucronabB.

EVAX EHIOSPHJUA Boiss. et Heldr. in pi. Anat. exs. 4846.

E. lota land grised adpreasA obsita a basl ramoslsslma, rainis bre-
^Issimis, glomendis numerosls globosis deosls b caespltem qontlguls,
foliis oblongis obtusia glomernlo globoso subbrevioribus, capitulis in-
ter se In glomemlo lodlstincliB densè albo-lanatiB, mvdLucn phyllis
oblongto 8obconv«xiB prater apicem vreseentem omninò albo-mem-
branaceis basi nudis snpernè densè et longè albolanatis brevher acu-
minatis acmllne glabro e lanft non ezserto, ochenifs miainls oblongis.
glabris.

Hab in aridls plantiei *Adalta* in Pamphylia. (Heldr.)

Afflns *E. PalaatmcB* Bed ab eo el *E. AnatohoA* exlmie dlstincla caule
a basi nee proliferè*et sub glomemlo centrall ramoso, foliis brevissi-
mls, glomerulls densis contiguis, involucri phyllis non cymbiformibus
non aplce setaceis sed acumlnatls acumine e lanA non exserto.

EVAX CONTEACTA BOISS.

E.acaulls, glomemlo unico radicali magno, foliis adpressissunècaois
glomerulnm Involucrantfbua longèque auperantibus basi in petudum
longè alternatls sopernè obovato-spatūlaUs mucronulatls post antbe-
sln bast induratis circâ glomeindum contracts, capiUiUs densè conges-
i|8 subindlstinctis, Involucri pbyllis omniD6 membranacels Iulescenti-
bns ovato-oblonglB planlasclnlis ti mucronem setacem longluscalm
acamlnads supernè extòs laxlsslme buiath, acbenns compressis ovato-
trUngoJanbus pralnoso^seabridls.

Ilab. in *AratnA petreA* ad flues Palestiue (Bouss.), ad foutes pelroli propè *Dalecht Persia australis* Kotschy N° 968

Folia in petiolum angustum flores superaniam attenuate cum eo MS lineas longa superuè 2 1;2-3IID. Iata, glomerulus magmtudinlsu. *astensci/Tora* cui nostra species habitu af&ms est et a quâ distinguitur formâ foliorum post anthesin basi contractorum, IDvolucn phyllis angustè sctaceo-acumlnatis

GEHUANA SGIIMPEHI BOISS

C perennis tola partibus jumonbus senceo-cana a basi induratâ ramosa, caulibus brevibus procumbentibus erectisve flexuosis fohosis duris sub capitulis terminalibus semel vel pluries proliferè ramosis ramw dlvacatls, folns omnibus molhbus mtogna vel vlx repandis oblongo-spalhulatis obtusis brevissimè mucronulatiB in petiolum inferiorum vix basi dilatalum caeterorum mioutè aurlculato-amplexicaulem anguslatis, capitulis globosis subsessilibus minutis, bracteis Toliaceis oblongo >el linean-spathulatis erecto-patuhs capitulo sequilongis, involucn adpre&se birti phyllis archsumè imbncatis obloagis aogusU&-simemembranaceis, flosculis marginalibus tndentatis paucis, palels hnearibus obtusis concavo-plicatis supernè hirtis, pappi paleis lanceolatis acutis lacens acbemo adpresse birto sequilongis.

Uab. in *ArahtA petred* Schimper N° 749 sub *Buphtolmo graveolenti*

Planta dumos subrotundos ngidos dlametro 6-9 polllcares formaos, folia infenora cum peliolo 9-10 hn. longa apice 2^3 lata, capUula plso paul6 majors. Ab *Astensco graveolenti* prater Oosculos marginales non ligulatos egregiè dignoscitur lodumento magis cano, foliis nunquam pinnallfldls, capitulis dimidi6 minonbus

ClinYBOPITALHUH MONTANUM BoiSS

G. perenne multicanle basi snffrnlescens lotum adpressè pubescens collo parçè lanatum, caulibus tenmbus angulato-striatus fohosis erectls supernè parçè et alternatlm raraosis, ramis monocephalis nudis angulalo-striatu superoè subincrassatis, foliis lanceolatis utrâquè attenuatis acuminatis breviter petiolatis rigldulis nervosls Integernmis strlctis, braciew i-slioearibus Insequalibus capHulo aepè longtorttniB, in-vfilucri adpresse hirluh phyllis anguste lincari-laocpolatis acuminalls,

paleissetaceis pHCatnlls acutis.floscalis marginalibm brevionbntn tn-
dentatis, anfhens basi caudà lacerà audit, acheniis subtetragoms pappo
albo piloso eis trlplò brovion superatis

Hab. in *SynA* circà *Antab* Aucher N° 3SS8

Etsi flores margnales tndentati sint bsc planta ob antheras basi
caudatas *Chrysophthalmo* nee *Ceruanas* adnumeranda est et Juntà *Ch*
sternutatonum Schultz collocanda

CUBYSOPUTALMUM DICBOTOWW Boiss. et Held'r in pi. Anatol. 4846.

Cb. perenne pills basi subln crassatis papillaribus brevlbus adprossis
albis pubescens subviscidum pallidè virens, collo incrassato lanato
sqoamoso, caule unico tereti erecto flexuoso a basi alternè ramoso su-
peraè dlcbotomè el divaricatlm ramoso ramis nudis monocephalls apice
clavato-incrassatis maolbus multlstnatis, foliis mferionbus et turio-
num radicalium sessilium longè petiolatis, caetens BubsesslUbus, omni-
bus obloagis vel oblongo-bnceolatts obtuslusculfs iotegerrlmis, flora-
llbus 3-5oblongis valdè inaequalibus capitula bracteanllbus eaque sa-
piüssuperantibus, involucri patuld vel retrorsbm albo-Betulosl pbylls
muldseriallbiib Inferloribus paulò brevioribus subsquarroso-pateDtibus
liDeari-subspathulatis cexterls setaceis mucronatls, paleis setaceis mu-
croatls, flosculs omnibus qulnqaedentalls,acbenlls tereti-subcylin-
drids stnatis subln curvis birtulls, antberis lacero-caudatis, pappo ad
pilos brevisslmos patulos vix perspicuos reducto.

Hab. in saxosis Tauri Pampnyhcl futer *Maria* et *Adalta* alt. 1000-
4 600' (Heldr.). Floret medlo Julio.

Pedalis, folia tunonum cum petiolo i-3 pollicarla 4 Hn. circ. lata,
floralia capltulis sopè dupld longiora, capitula illls *Ceruona pratensu*
duplb majora ramo clavalo 4 *iflhi* polllcarl suffulta Ab alls generis
speciebus indumento, pedunculis incrassatu, canle supernè dichotomo,
pappo brevissimo disllDCtissima.

Ob ut videtur antiquiorem cl. Steetz *Pterochatam*, In Preiss. plant.
Australasia, genus meum *Pteroochatte* in Diagn. VI propositum In *Pia-*
tyohtBtsm mutandum et ejus species sic Domloands.

Pteroehcete glititiosa — *Pltdyehate ylutmosa*.

*Pterooch*teAuehen*. — *PlaityohiQBto Auehen*.

PUroahaU mucrontfolxa *PtatyehuU nwsrontfolia*.

*Ptwoehtrtt glaucescm** — *Platychate glaucescent*

Inulam muittvaulem. Bolss Diagu N° 4 ob anllquiorem /. *multt-caulem* F. et M muta in *Inulam Anatohcom* Bolss.

PULICABIA ELATA Bows in Kotsch. pi. Pers. bor. 1846

P perenois, caulibus basi denudatis ascendeoibus dein erectis elatis foliosis supernè mmosispancuialo-corymbosis, foliis paliidè virentibus utrinquè adpressè et brevissimè subvelolidis pills basi tuberculato-incrassatis inferioribus ob Jongo-lmeanbus spatibualis In petiolum bre\cm attenuatis Inlermedlis late linean-spalhulatis infernè subangustatis basi innuffe cordato-auriculatis obtusis, rameis crebns llineanbus obtiuiuscuhs raucronulalis minute etaculuncufe aunculatis, pedunculis nudisB capitulo 2-6 pl6 longioribus, involucri squarolis villosis linean-subuhtis adpressis, ligulis denbro reflexis angustis Unearibus involucro dupl6 longioribus, achenis parce et adpressis birtulls, pappo exlenon brevissirao coromformi dentato interioris setis 40.

Hab. in locis humidis mootis *Elbrus* pVop6 *Berwend* Kotsch N° 44 *•

Bipedalis, folia mferiora bipollicaria supernfc 4-5 IID. lata, ramealla 5-7 hn. longa 4-4 4 ;4 lin. lala, capitula magmtudinis *Pul. uhgmosa*. Huic et *P. KoUchyx* Schullz affinis sed distinctissima foliis ramulorum numerosis anguste lineanbas minute aunculatis nee oblongo-amplexicaulibus, pappo paucisetis *P. desertorum* longius diffen ligulis brevissimis, *P. Arainca* radiie annua, caulibus a basiramosissimis, pedunculis tenulssimis, etc.

PHANALON GBJECTIH BOISS. et Heldr.

Ph. perenne dumosum caulibus basi suffrutescentibus decumbenibus supernè ramosis ramis erectis strlctis dense foliosis canis foliis fade superior! Jumbo subfloccosis deln.glabris tfridtbns subtòs 43DIS obiongo-lanceolatis acutis margine undoiato-sinualis ID petiolam basi dilalatum breviter auriculato-decurrentem attenuatis, gupremis. angustè lmeanibus integris, pedunculis floccosis demùm gbbrescentibus, involucri campanulas glabri pbyllis regulariter Imbricatis adpressissimis non hyalino-marginatis ab Inflmis triangularibus ianceobtis acutuscuis aplice fuscescentibus ad Intermedias linearl-lanceobtas-obtusas et superiores angustis lineares acutas floris exeedrates ~~seculis~~ elongalis

PA. intermedium DC. quoad locos ex Oriente et Reut. fit Marg. Fl. Zaynlnh. non Lagasca.

Hab. in rupeslnbus regionis calidsB totius Grzctee ad *Patrot*, *Nauj)/ia* (Boiss.), *ktUck id Aeropolim* (Sprue), *Messenlâad Pylos* (Heldr.) *Cntd* (Sieb sub *Con. eexatxli*), *Zacyntho* (Marg.)

Var. *oxyphylla*. — Foliola involucris Inferiors acutiflora, superiora acntlssfma.

Hab. *Algeria* (Herb. Fauch6).

Hsc species quam ipsi et auctores plures cum *Ph. saaattlt* et *rupesln* confusimusab els sequentibus nobis egregie dffert. A priori dislingDUnrfollis latioribus oblongo-lanceolatis nee snbltaearibus, involucris phyllis non squarrosopatentibus nee margine hyallnlis undulatisque. *PA. rupestn* e Syria, Palaestlnft, Persia australi totaque regione Medlterraneâ occidental! oriudum sed quod bucusque nee e Creta nee e Gracia vidi, nostne specie! follorum formâ et undulatione Involucris pbyllis non squarrosis propios arcedlt sed differt phyllis conspicue latlonibus infimis ovatis lotermedils oblongo-elllpcis omnibus pnter intlmas oblusissimis apice subscandosis subcucullatis. *Conyxa saxatxlis* Fl. GraBC. lab. 861 quoad locum nostram speciem refer! sed formâ f involucris squamarum pohs *Ph. rupestre* refer! et West dubia esl.

Conyza intermedia Lag. — *PA. Lagasca Cam.* e descripUone et etiam e specimine Murclco ab Ipso Lagasca mîni olhn dato est *PA. sotcottit* Ipslslmum

ANTBBHIS PEHSEPOHTASA BOISS. (Sect. *Chrymnthemis*.)

A. aonua pluricaulis, caulibus ascendentibus abbrevialis panè ramobls adpressè puberullis, (bhls sub lente parcè et adpressè hirtullis virentibusl ambltu llinearibus plnoattsectis segmentis brevissimis in'lobuios paucos ovalo-oblongos obtusos confertos plnnallsectls, capf tails peduncalatis tenninalibus; Involucris glaberrimis phyllis omninb etlatè scariosls pallids ovatis erosulis cucullalls, ligullis flavis breviter ovala disco brevioribus, flosculis tubulosls basi hirsutis, receptacull convnûpaleisUneari-BetaceisacullB, achenlis...

A. sooriosa Boiss. in pi. Kotsch. Pen. Auslr. non DC.

Hab. in plantie propè niinas *Persepdû* Kotschy N« 140.

Ab afflnl *A. soaruud* cul primùm conjunxeram egregie dffert fofio-mm Jobb DOD elongatls linear-^setaceU, hguUt brevUsimis, palela longioribaa anguBfloribus non angustè lanceolatis nee carlnato-plicalls.

A. hyalwa DC. differ! Involucn phylls pubescentibus, corollâ basi glabrâ, etc

ANTHEMIS CORNUCOPIA BOISS. (Sect *Euanthemu*)

A annua a basi raraosa, caullbus ascendentibus sub simpllicibus glabns, fohis parcè hirtulis a basi tenmssimè bipinnalitectis laciniis setaceis inacronulo termatis supremis pinnatisectis brevissimis, capitulis solitarus, involucri parcè blrb phyllis oblongo-linearibus prseter nervum medium subcannantem virentem pallidis appendice ovato-triangulari scariosâ fused seals margtne angustè decurreuti termna-UB, receptaculo subgloboao toto paleaceo, paleis lanceolatis carinalis mucronem sabpungentemabeuntibus integris achenis longioribus dorso viridibus csteram scariosis, ligulis albis oblongis disco subbrevioribus demiim reflexis, floram hermaphroditorum tubo basi Intra coronam acheni inflato ovato-pyriformi spongioso indurato birto purpureo, achenis a basi angustiori obsolete tuberculatis sensim dilatatis obconicis obsolete angulatis In coronam crassam dimidiatam corticosam sublobatam eis squilongam abeuntibus, extenonibus angustioribus subcylindricis basi magis tuberculatis.

Hab. in plantie *Esdnalon Galilaeae* (Boiss.)

flabitu *Marutam fuscata* refert sed lacinas foliorum tenuiores, ligulis breviores, receptaculum *Anthemidis*, Species insignis achenis cornucopioides matuns cum coronis *ij%* lln. circumligis, character tubi corollinè tasi spongioso-incrassa U In *A. scariosa* et pluribus aliis speciebus occurrit

A. Pamphyltica Boiss. et Heldr. In pi. Anat. e u. ad *A. paeticocotulam* Boiss. Diagn VI reducenda est

ANTHEMIS RASCIBTANA Boiss. (Sect. *Ewmthemis*.)

A annua adpressè birta gnsea, caule pumilo infernè folioso ramosoque ramis arcuato-ascendentibus, foliis ambitu oblongis petiolatis bipinnatisectis lobulis brevibus tenuissimis confertis, capitulis pedunculo gracili longo fructifero non clavato suffultis, involucri phyllis globriusculis oblongis latè et pallidè scanosis sublaceris, ligulla albis ovato-oblongis disco brevioribus albis reflexis, receptaculi bemUpb»-rici paleis oblongo-lanceolatis obtusis vel truncatis denticulatis nerro

in arlſtam brevem exſerto, achenlls omnibus abls lenulter cylindrical
Ixvlbiu olnoletè ſtriatls nudis

Hab. In ADlilfbano inter *Baaoheya* et *Damasoum* Maio. (Boiss.)

Planta circ 4 pollicarla, peduDenll parte nudâ sesqupollicem loogi,
capltula eis *A. arventis* minors; bulc afflnis Bed disttoellBsIma staturt
mlnon, palearum formâ, ligulis abbrevlatis, achenlls conformibua ex-
ternw marglne non tumldls, etc

ANTHKHB CBAB8IPB8 BOIBS. (Sect *Euanthemis*)

A. annia adpresBUBlmè ñirta grlsea a basi divaricaUm ratnosBsima,
folilB smbitu ovato-rotundls bipinoattsectiB partltlonibus dlvergenlibus
loballs mioutls brevibus, capltulis pedunculo longo nudo demñm cla-
vato-IDcr&Bsato suffiiltls, involucri phyllls adpresBIBsmls adressè blr-
sutls oratis latè Bcanoso-marglnaUB dentato-laceris, llgulto abls ob-
longis disco squllongis, receptacull hemlsphaerici paleis angintè lan*-
ceolatls carinatis in mncronem rigidum atlenuatis lntegerrimls, achen-
nils tetragonto Ixvlbus estrlatis latere interiorl coronâ brertwlmâ dl-
midlata marglnlfrml exteiioram fuscâ crasfiiaBcalâ lobatâ bHerioram
alblâ acntâ aaperatls.

Hab. circâ *Baaoheya* et In *AntUibano* cam praecedentl. (Boiss.)

Bab. et magnttudo capltulorum *A. anttuis* var. moniMata sed ma-
giB divartcata; ab eâ distinctlasma involucri phyllls latiñs scariosis, re-
eceptaculo non comco, acbeniis non profundè Bulcatis coronâ dlmlatâ
nee annolo tumldo cinctis, corollâ basi non inenssatâ, etc. Variat 3-4
poDic. pedallsque et ejus forms pumilxab *A. Raicheyanâ* cul pedun-
culls elongaUs et habltñ Bimiles aunt dtstlñgunntur pedunculls Incras-
satls, iorolucri pbyllis blrtls, palearum et achenlorum formâ, lobls fo-
llorum ma&B divarlcatis

ANTHEMIS AMMOPBILA BOIBB etHebjr. ID pi. Anat. exs. 4846. (Sect.
Euanthemw.)

A. annua a basi pluricaulls, caullbus pumllls procumbentibus errec-
ti«(ue sobBimpHcUmB rabellls glabriusculis, follis petlolatb mlnutis
adpreasè hrtle grisels plnnattsectls segmentls mlnmlB In lobuloa I-B
confertos oblongos acntluaculos Iterum plnnafls, pedunculig glabrls
frucUferlfrclarato-lQcraBBaUB, lovolucri phyllls adressè hlrtls superne
latè albo-BcarloBIB oblongis obtuslNmls snberoaB, receptacull conicl

paleis Qblongls canaaUs acotta nervo carinall vlrldl exccplo byalfnis * flosculls paul6 brevioribus, llguhs albis oblongis disco longlorlrbos, acheolis minutis quadrangulls hasi atlenuatis lawlbus aplce truncatdB obsolete el acutè marginalia omnibus conformlbus.

Hab. in arenosls Pampbylia ad Illtora mans prop* oalium OUT. *Melas* infrà *Monargat* Fl April (lleldr)

Planta 3-4 pollicaris, folia cum petiolo 5-7 Un. looga a lata ea *A. w-cundiramece* referenda sed segmenta lateralla breviora, capitula magna diametro poillcaiaa Species putehetla ex afflntale *A. aeoundxramea* qua differt foliis glabns, ligulis abbrevlatis, achemis breviter coronatis et *A. peregrma* L. — *tommtoia* d'Urv Induoento cano, lignlls mlnoribus el acbenlia coronâ auncuhefonna donatis distincUD.

ANTHEHIS CABSIA BOISS. (Sect. *Euanthtmu.*)

A. perenDls basi suffrutescrns csspltosa lota serlceo-cana. folln sects partem infenorom caihum turionesque sterlles congestls longè petiolalls ambitu oblongis pinnalissetls 3-4 jugis rachide segmentisque linearibus hisce profundè / 3 fldis laciouls llinearibus acutlusculls, caullbns elongatis simplicisBimls prxter basin foliosam Dudis raonocepballis, capitulis magnis, involucri phylls adpressissimis lanceolatis acutis pallldis sparsim et bre\iter pneserilm ad margines albolanatis, recep-laculi bemispbsrici paleis oblongis conca^o-subcarinatls obtuais eroso-subdentatis ncrvo medlo In mucrouem rlgidum flosculos sqnantem producto, llgulls albis Hneanbns disco vlx brevioribus, acbenlls albis Is-vibus quadrangulis coronâ byalini tenerrlmâ brevi truncatâ Buberôsâ dimidlatâ latere Intenon coronatis.

Hab. In regione superiorl *Cass'%*. Floret Junto. (Boiss.)

Folia cum petiolo iripolltcaria segmentis 6-10 lin. loogis rachide la-cidilsque sesquilineam circ. latis, caules pedales longforesque, capitula' magnUudims *Uucantheml vulgans*. Species pulcherrima ab omnibus *A. moniana*, vanetalibus dlatincta fohornm ladnlls mult6 latioribus, pedunculis longissimis, capitulis dupl6 majonbus diametro sesquipol-lcaribus. *A. absinthfolia*. babel indumentum magis serlceum, folia am-bitu ovata bipinnalissetfa laclnUs mmlt6 brevioribus paid6que angustloribus, capitula tertii parte mlnora muU6 brevius et temihs peduncbia.

Arnnuis ANATOLICA Boiss. (Sect. *Ewmthemû.*)

*A. perennl** basi suhlndurata cespitosa, ctullbus piuribw ~~tenulbus~~

ngidulis ascendenbbuB internè ramosbvet shapHdbua, follsadpressè cinerels turionam sterihum petiolatls ambitu ovatls biplnnatsectis la-
dolis angustissimè oblongo-boearUmg obtusto, follis caulins pancis
subsessilibus vel seasillibus a basi BñsimpUçiter pianatlsecllB, capituUa
longè peduDculabB. involucris phyllis adpressiasimls breviter et pared
hints margine ru(escentibus lanceolate acutis lntèrionbus apice ob-
tuBioribus magis scarioais, receptacull conict paleis kraceolatls cari-
natis apice eroso-subdentabs ID nucronem flosculos aquanlem atlo-
nuabs, llgulls albls oblongls dJacum subjequaolibus, achenlls albla-qua-
drangDliB obsolete stnatis extenonbus praserthm ad slrias minutè \u-
bercQlatls coronà brevlsshñà Integrà dlmidiaia acult laterè intenon
•uperatls.

Var. /a *disootdea*. — Sspios minds cinerca vel rireacens lobi fohorum paulò magls divarcatl, llgulls nulls

Hab. In montosis et Bubmontoris sleds AnatoUse, *Cadmi* radices ad orientem nrbs *Denuleh* et Inter *Dmitleh* et *Geyra*, In parte auperiori *Metogxs* suprà *Traltes*. Leg! Jun. 484S.

Habitu afflnis nonnullis fonnls mlnoribus *A. montana* quàm eam conflisi sed dlstlncta captulis lopgìns pedunculatis, receptaculo conlco, acbenlls brenoribus raar^lnalibus luberculatis. Yarietas in calidionbuscrescens acbeniis tubercuUUs ab omnibus formis *A. Chrysocephala* dignoscitur. *A. BeuUnana* noatn speaei babitn afBnl adhenlls laelibus coroni eis xqulloogà snperabs exlmlè dlffert.

ANTHXMS RIODENSIS Boiss. (Sect. *Ewmthtmu.*)

A. baBi suffruticosa ad partes juniores adpressè birta cinerea, ramis tenulbuB lnfernè densiusculè foliosis m pedunculum nudutn monocephalum abeuntibnB, fohis a basi irinnallsectts rachide 'segmentlsque pands plaQiusculisliQeari-flubotatiB mncronulatia hrferiorrñns indMsls Kuperlonbofi ternlnalique poulo longioribus longlaseolè 2-3 fldls, càpltnlta parvls diseoidcls.iihrolucris phyllis triangalarlbaB laoccdfettefque aenfls palHdlB margine foseescentUns adpreteissimis, paletBlliearlbiB carlnitlB apice In mucronem HOBQUIOB cquantem abruptè attenuate, **achenlla.....**

Rab. In maniâ *Rhodti* Aucher N« 3263.

AfflnB babita et captlnlorum magoitudine *A. jwtinato* et **Smyrtae** ab eis dutlncta caulibus BoffrutieoBii, segau»tis foUorum tenutaslmis quidera sed paudorlbu utriouitwUmi M9' «««* 8 9-3 tineas longis.

ANTHEMIS UELOPODA BUIBS (Sect. *Cola*.)

A. annua parcè et minutè puberula vel glahrescenB vlridis, eaule crassiuscolo ferè a baa! divarication ramoso, ramia dictaotomls, folls ambitu ovatls bipinnalissectls rachide iotegrâ, parttiombuB bnearibus mtegnis dentatis vel etiam lobatls dentibus lobisque dlvancatis brevtsimè mncronatls, capitnlis magnis pedunculo valdè clavato-incrassato Intbs manl suffultls laxè corymboBls, Involucn pbyllis palhdls aretè lmbncalis ab inflmis tngulanbus acutis ad intima lanceolala dliatula apice breviter scariosa obtusiorula elongalis, liguhs albls disco longionbns, receptacull bemispbxrlcl paleis oblongis carinatls abrupt* in mucronem rlgldum eis equllonguin flosculos squantem contractls, achenhs tetragono-compreaBu anapiiibus exalalis utnnquè obsoletè 4-1 nervits coronâ brevisshnâ arguta mtegrâ terminatls

A *altunma* Boiss. in Pinard pi. Anat. exs non L.

llab. in cultis plamliei *Smyrnennt* (Boiss.) circâ *Gtyra* Ganae. (Pinard.)

Facie similis A. *alttssimos* sed a basi et divancatim ramosa, segmenla et lobi follorum magis divaricate brevtesimè et snbbsolètè mucronala, pedonculi crassiores Inanes, acbenia minora angustiora mamfestè coronata ultrâque fade prater nervnm carinalem ferè lsvla vel obsoletè 4-S striata nee argutè 40 striata. A. *Cota* pedunculls non incrassatifi, paleis Benslm attenuatis, flosculis brevloribus, acbenlis utnnquè S striatis et A. *mutnaaa* formâ fohorum, capilulis dimidib brevionbus, peduncuhs non incrassatis, acbemis subalatls longiùs differunt.

AMITHMIB PBBTALOZZA BOISB. (Sect. *Cota*)

A. annua lota adpressè birta grisea a basi multicaulis, caullbus tenuibus pumiliB simplicibus vel parcè ramosis, folls parvls plnoatisectiB segmenUs nunimis ovatls in lobulos confertos mucronulatos oblongos pinnatlsectis, pedunculia tenaibus apice Bublnrassatis, capitulis parvis, Involucri pbylls birtis adpreBsissimla scanosis pallidls inflmls acutis supenoribus oblongis obtusis, receptaculi conicl paleis oblongis carinatis obtusls mucrone brevi flosculos aBquantl terminatls, acbenils subancipiU-compressis utrinquè obsoletè 5 strutis coronâ brevtistinâ exiov^ denkculato-flmbrialA terminatis.

bab. prop* *Elmalu* Lycue, legit et comm cl. D^r Peslalosa, in parle inferior! raonlis *Toktalu* propè *Smyrnam*. (Boiss.)

Gauli'S 4-5 polhuares, capilula magnit. lormarum. mlirorum *A. ar-*
venus a quâ acbenlorum formâ, paleis obtusis mucronatis staUm dig-
noBcitur AIDnior *A. Austriaoce* qua: diffen segmentis fohorum linearl-
oblongts eumiè pectinatis, paleis lanceolatis acutis, acbeoin coronl
integerrimâ superalis

ANAGYCLUB NIGELLBFOLIIB BOIBS

A. annuls sparsun et longè birautiis, caule tenui erecto folloso
simpllcl moocepbalo rel medium versùs I-J ramis monocepballs aucto,
folus Inferonbus petiolo basi pectinatim lacmato suffultis plnatt-
sectls laciniis racbldeque lenuisslmè Uneari-setaceiB profundè 8-3
partttis rapenonbus sesBilibus lacioiis indivisls omnibus mucronatis,
peduoculo adpressi blrto longlusculo nudo fructifero seDslm mcras-
sato, capitubs parvis, involucn adpressi birtl pallidi pbyllis adpressb
iofenoribus triangularibus acutis mterioribuB obloDgls obtusis, llgulis
minimta albis ovato-obloDgis disco multb broviortbiu, floscnlls disci
seqiialiter quinqaedentatis, paleis latè oblongis obtusis plants brevis-
almè mucronatis, acbeniis plano-compressis obcordati*, aUs byalinis
In lobos rotundatos abeuotibus semlnl aiqullatis.

Hab. in collibus AntUl bani inferioriscircft iTowAeya. Fl. Maio. (Boiss.)

Caules semipedales vel panlb longiores, folia mferlora cum petiolo
poUicaria, pedunculus blpollicaris fructifer aplice sesquilineam dlame-
tro latuB, capitola els *A. tiavatt* ferè dimidiò mlnora, liguls paucae
vu I lineas longs, acheniuni S IID. drc. longum latumque. Species
caullbus erectis pumfus simpliciusculis, fohorum laciniis tenuissinus
elongalis, capltulls minutis, ligulis abbreviatis etc. dlstlncUssima.

LEUCOCTCLUS BOIBB.

CapHohm multflorum heterogamum. Flores radii llgulatl oniseria-
lesfemind, florea disci tubolosl hermaptarodlU quinquedentatl exa-
latt bast in duo labla breviter orota ceUuloso-corticoBt acbenll aplci
utrinquè applicata productl. Receptaculum convexnm paleis oblongo-
lineanbus concavliisculis obtuBls dentlcutato-lacerto mutids floscplos
non squantibus. Involucrum latè campanulatum pluriseriale pbyllis
persistentibus Imbnatis membranaceis. Achenla plano-compmsa cu-

— u —

neato-relutt aU Integrà utnnque apice ID lobmn bretissũuum obtu-
 aumabeunil margnata (Immatura) epapposa. Antbene bad obtuse;
 ecaudats appendiculatae incliux. Styli rami tirdnnati exappendiculaii.
 — Uerba perenms Orientalis alpina folifs *Adulltanm Santolmeantm*
 donata, capitulo amplo *Leucanthemt*. Genus affDne *Anth»m%di* et *Ana-*
cyclo, a priori achenns compressis obcordato-alatls discedens, a poa-
 tenori distinctum corollis disci Don bialatu acbeuilsque epapposls,
 jb utroque prsterea corolla tubo basl in duo labla ylana apongiosa
 cortioosa producto

LEUCOCTCLDS FOBHOSDS- BOISS.

L. formosus lotus villo rufaceotl adpreBSiusculo lanatns, caullbus
 erectlg denslustulè foliosis allis sterdibus allis apice Dudis monoceph-
 lis, axillls fohorum fasciculos \el ramulos foliosos edentibos, follis
 lineanbus pmaatiseclis segmentis minimis confertissimè imbricatis
 transversis ovalis con>oluto-coocavis acutis crebrè mucroaulato-deii-
 ticularis, pedunculo apice incrassato, ligulis albls latè oUoogo-spatlnK
 latu trilobis disco loogioribus, mvolucn pbyllis pallidis obloo^ls nl
 oblongo-lmearibus angustè byallao-marginaus obtusis adpressè blrtu.

Anaoyolut formosus Fend, in Kotsch. pi Taur. exs.

Hal), in alplbus *Taun CUun*. Kotsch. N° 298.

Caules stenles semipedales, fructifen a-10 pollicarea, folia polii-
 cana lineam clrc. tanlùm lata, capitulum nagn. ejus *Leuoanthm**
montant, ligulae 8-9 lin. longae apice lin 3 et amplitu lalaj

AHTHBOLEPIS Boiss.

Capitulum multiflorum heterogamum floribus radii llgulatis Qavn
 disci tubulosis bermaphrodlhs quinquedeutatlis compresso-bialatis.
 Involucram latè campanubuum multiseriale pbyllis imbricatis ad *m-*
dbun subcoriaceis margiue bitè scarioso-hjalinw eecdB faciem eite-
 norem receptaculi areolâ transverse ovatâ basilarl aruculabs patlwfi-
 que peracta decidms Heceptaculum obconicum extus basibus biYoluori
 phyllonini areolatum supernè plaDO-concavuin Uneis bravibus eJevatu
 Hnean-obloDgiB coaceutricis ad acbeniorum basin sUu examtaia-
 Pale» oblongo-lineares carmabe vvesceoles «ar«ine et apice ~~late~~

hyaline obtains denticulatse post Involucrl pLylla tandem declduae. An-
thera ecaudata appeodieulata Inchluss Styll raml non appendiculatl
apice barbulali. Acbeoia (immature) oblongo-bnearla plana angusiè
abb apice paulb latlori truncata epapposa. Herba perennis Orientails
fade *Anthemdis*, folls *Achilleorum Santolin\$arum* donata Genus
Anthmxd el *AehMta* affine utroque genert ab aactoribus priòs as-
sociatum a pnorl acbenfls manifestò alatis subretusis, a posteriori ca-
ptulia magma sohtariis et habftn, ab ampobus receptaculo plino^on-
cavo involucrique phyllis Inslgnlter Jam antè paleas basl arteulatà se-
cedentibus dislinctniB

AHTBBOIAPIS HEHBBANACRA fioiss

A. perennls tola cano-tomeDtoaa basl suffrutescens, cauibus slm-
pJicibus raonocephalis vel supernè parcè ramosls, foliorum linearium
pinnatlKctorum segments mlnmls confertlm Imbricats tranBbreis
3-4 partitls partitionibus oralls crebrè denticulatls denticulls mucro-
natis, liwolucrl pbylls inflmu ovato-rotundla interiorfbus oblongit
annribna obtuBls latè albo-byallnls nltidls doreo adpreasuscolè hrtis,
hgolls brartter oblonalB loteis disco panlb brerloribm.

Anthemis membronacea Labill. Dec. 3 tab. 9. — *Ackillea mtmbra-
naoea* DC. Prod.

Bab. In *Ltbano* (Lab.), in collibus ad meridiem *Damasoi* (Botos),
in *Metopotamid* Inter *Alep* et *Or fa* Kotsch N> 6 (forma minus in-
cana;.

A. *vnbnoata* Gels. lab. 54 e specimne Imperrecto berb. DC. ñujus
generis quoque ease videtur sed certè Bpcciel pncedentis non con-
specflica, folia snnt enim forms dlverss.

ACHILLEA OXIDOMIA Boiss in Kotsch. pi. Pera. bor. 4846. (Sect.
Pilpendulina.)

A. «aalUms bah procmnbentibus nudls dein ascendeotibus folioais
effectfl fleiuosIB elatis striatIB glabriucnlls simpllcdnB vel ex axUHS
ioferioriboa nmulòsis, foUb sesslllbnls llinearibus ptnnatsecUs racide
ptanfriaUuseultsegmeDtis remotiuscuHB mlnlnls dentlformibus trian-
gahrt-obloDgts bl vel trtlobl lobls in nmronem abeuntibus, fottis
samrnls acufè et peefinaflm ptnnadfldb, corymbo terminal! denso com-
posho sid)globoso ramlsdrelnnato-recarvta, pedleefllaliivolncnim non

capitulis cylindricis paucifloris, involucri laxè lanati physalis oblongis præter lineam mediam crescentem albo-membranaceis apice pallide rufescentibus imbruto-laceris, ligulis flavae 2-3 involucri multò brevioribus transverse latioribus brevissimè subtrilobis, paleis valde lanatis flores non aequantibus

Hab. in latere orientali faucibus *Muroh Mahal* ad radices montis 7-6 ri «Kolsch N° 489.

Caules tenues pedem et acrius longi, folia 9-41 lin. longa 1 un. circ. lata, segmentis utrinque 8-40 corymbis diametro circ. pollicaris, capitula inflata *A. multiflora* fert. acrius longa sed triplicè tenuiora pauciflora Species distinctissima propè *A. ageratwn* et *oeronoptofoiam* collocanda.

A. ambigua Boiss in Kolsch. pi Pers. bor. M' 346 e monte *Demandwend*. a formis *A. multiflora* non satis differt et hinc adnumeranda.

ACHILLEA TAYGETEA Boiss. et Heldr. (Sect. *Filipendulina*.)

A. lota deorsum et brevissimè albo-tomentosa basi suffruticosa caules fertiles* fasciculosque steriles foliorum edens, caulis ascendentes simplicissimis superioribus nudis corymbum parvum compositum deastissimum ferentibus, folia ambitu linearibus pinnatis segmentis oblongis basi attenuatis in hernias oblongas obtusas sive lobas pinnatispartitis, foliis radicalibus petiolatis supremis sessilibus abbreviatis segmentis deorsum, capitulis multilobis ovatis valde congestis pedunculatis brevioribus suffulcis, involucri physalis sordide et breviter albo-lanatis pallidis ovatis oblongisve obtusis, flosculis marginalibus 4-6 fecundis semilugulatis limbo immixtis caeteris vix amplius longioribus transverse 4-6 lobulato, acheniis oblongo-hemisphaericis basi angustatis compressis angustiusculis albo-marginatis, paleis oblongis concavis glabris obtusiusculis apice sublaceris.

A. jEgyptiaca Fi. Graca tab. 891 non L.

Hab. in regione excelsiori Taygeti. (Sibt., Heldr.)

Folia radicalia enim petiolo S-S *iff* poll, longa, 5 lin. lata, caetera breviora et angustiora, caules < 1-4 pedales tenues, corymbi magnitudinis Inter 4 et 5 lineas diametro variantes polycephali, capitula magalt. eorum *A. millefolii*. Pulchra species a qua *A. Tournefortii* — *A. JEgyptiaca* L. Tournef. Voy pag. 87 egregie differt præter stattonem laevissimis, segmentis foliorum subrotundo-ovatis, corymbo ampliore folia inferiora elongata vix superant, capitula

loribus, hinc majoribus ovalibus etc. *A. clypeolata* Sibth. affinis quoque differ! paleis villosis, hinc concavis, etc

ACHILLAEA TALAGONICA Boiss. In pi. Kotsch. Pecs bor. 1816. (Sect. *SantalinouietB.*)

A. caulibus tenuibus erectis simplicissimis subangulatis foliis adpressissimè hinc albidis apice corymbum parvum polycephaluro densum compositum ferentibus, foliis sparsis angustissimè linearibus glabrescentibus pinnatisectis segmentis transversis acutatis ovato-rotundis J-3 partibus macronulato-denticulatis confertissime imbricatis eximè distinctis, pedunculis tenibus capitulo æquilongis, capitulis parvis, involucri hemisphaerici brevissimè hinc phyllis oblongis obtusis margine amplicè acariosa, paleis uncinatis carinato-pinnatis tayallina superæ hirsutis obtusiusculis, ligulis pinnatis minimis flavis transvenè lobibus subreniformibus f-3lobis.

Hab. in argillosis propè *Gattade* vallis *Talagon* montis *Elbrus* Kotschy N» 619.

Folia ferè pollicaria lineam dimidiam tantam lata, capitula magnitudinis *A. tenifolia*. Species propter foliorum segmenta angustissimè et densissimè distincta propè *A. mictrolobam* collocanda quæ distinctissima est foliis fasciculatis, caulibus terotibus, lignis pallidè ochrolepis.

ACHILLAEA LITAEOMICA Bolss. et Heldr in pi Anat exs. 1846 (Sect. *Santalinoueta*;))

A. caulibus angulato-angulatis rigidis foliosis erectis adpressè canescentibus simplicibus vel inferè ramosis, corymbo terminali densissimo compacto polycephalo ramis angulatis, foliis sparsis virescentibus linearibus teretibus pinnatisectis segmentis transversis bxiuculè imbricatis tripartitis lobis ciliatis marginibus valde spinuloso-mucronatis, pedunculis crassis capitulo brevioribus, capitulis ovatis nudiusculis, involucri parte et adpresse hinc phylla ab infimis ovatis ad ultima oblonga sensim auctis anguste membranaceis, paleis oblongis carinatis acuminatis glabris, lignis minimis ovate transversè sublobibus trilobis.

Hab. propè *Soulman hatn* ad radices montis *Karadagh* in ande plamtiel *Isawfa*.

Pedalis, folia ferè pollicaria ùneas 4-4 4;4 lata, corynbi dlametro 4-4 \fl polhcares, capitula illis *A. teretifolue* dupl6 majora. Convenit cum specie precedent! caulibus angulalis folhsque sparsis sed dffert foUorum latiorom segmenlls Don aretè imbricatfs, pedunculis cnusis abbrevfatis etc. *A. conferta* DC. magw afltato differ! canle cano, capitulla subsessihbus, iovolucn pbyllis etiam Inferioribus oblongis, folib angushonbus arctlùs imbncatis *A. altncauits* C. A. H. ab hâc et a praecedente foliorum lobis distinctis remotiusculis statlm digooadtr.

ACHILLBA SULPHUHEA Boiss. et Heldr.

A. basi suffrutesceus multicaulis, caulibus lere libus elalis simplicibus foliosis adpressè cams aiillis foliorum fasciculiferis, foliis angustè hDearl-teretInsculis adpressè canesceDtibiis pbmatfsectis segmeotis minutissimis trausversis densè et diatichè Imbricatls ovalo-rotundis coDcavis trilobis minuhssimè deDticulatis, corymbis ternunalibus compositis pohcephalis densiusculis ramis eloBgatis, pedunculis capitulo 1-3 pl6 loDgionibus, çapitubs mediocnbus ovato-rotundis, involucn densè et brevissimè tomentello-canescents pbyllis adpressisslmis vlx membranaceis Inflmis ovatis caeteris oblongis, paleis oblongis carinatis obtusis apice ciliatls, Ugulis sulphureis remformibus retusls disco sequilongis.

A. Aleppicam pi. Anat. Heldr. eis. non DC.

Hab. in *Cappadocia ad EuphTatem* (Auch. N° 3294), In herbldis sleccis *Town Isaunoi* Inter *Ermtm^k* et *Tourtchalar* (Heldr.), ad radices *Antilibani* inter *Damascus* et *Zebdanu* (Bolss)

Caules pedem et ampJds longi, folia sspè sesquipollicem longallne© 3]4 lata, capitula mafnit. eorum *A. vertmculata* sed pbyllis doris arc-tiùs congestis. Species ex cilatione erroneâ plants Auçnenanae in DC Predr. a nobls primùm adnumeratâ *A. Alepptca* DC. — *triUngulata* Schultz in Kotsch. pi. Kurd, qua capifulis tenuissimis- omnio6 diversa. Accedit ad *A. Domaamam* DC. qua ab eft ladle dignoscUur foliis muU6 brevioribus defleis flexuosls segmentis longionbus₁ capltuhs intensè aureis, paleis glabernmis superaè onuiintt hyalinis.

AHMANTHUS. Bolss. et Heldr.

Capitulum multiflorum heterogamum Hgulis neutris vel ouUls, flos-culis bermapbroditls tubulosis qulnquedentatls non compressis eis

peripherim 4-1 serialrims purpurels catena lulns. iavohienm lmbii-
catum latè campanulalum squamis margine angustè scariosis. Becep»
laculum bemispaericum nudum punctatuin Anthers appendiculata
erostrats. Styli rami breves aplce dliatulf. Achenia omnia conformla
tereUa obsoletè striata pappo coroniforml byaliDo brevl flmbriato-la-
cero superata. — Herbs Cretenaes annus pumils multicaules fade
Cotula vel Anthemidia.

Genus acheoiis et habitu *Anthemidw* donatum ab eâ receptaculo
nudo dlversum, a *Pyrethro* llgulis dim adsunt neutrils, achenlb DOD
regulaiiiter costabs, a *Cotula* corolbe tubo ealcarato, acbeaiis nee sti-
pitats nee caMs distinctum.

AHMANTHUS MAHITIMUB BOISB. et Haldr.

A. annuus, caulibns e collo numeroals procumbentibus tenulbus
brevibus robellis giabriusculfl ramosissimls, folds adpressè eanescen-
tibus minlmis, radicalibns et Inferloribus ovatis oblongtove longè pe-
tiolatis ad medium usquè 3-7 lobatis lobls mlnutis ovatis obtusissimls,
Intermediis sessilibus, superioribus seeds ramos oblongo-spathulatis
ntegerrimls, capltuhs ad apicem ramorum fillformium supernè nu-
dorum soUtariis dlscoldels, Involucris adpressè hirti pbyllls adpressis
oblongo-linearlbw obtusls vndibus an^nstè albo-membranaceis,
acbenus pappo denticulato-laceco eis triplb breviorl latere exterior!
abbreviate superatfs pelluddè glanduloso-luberculatts margioalibus
sublncurvis.

Aam. agratifohus Boiss. et Heldr. in pi Cret. exs. 4847.

Hab. in arenosis mantlmis promontori *Sidero* Grets Malo. (Heldr.)

Caules 5-6 pollicares, folia inferiors 9-3 lin. longa petiolo 3-ilin.
longo suffulta, superiora Indlvisa, capitula magnlt. eorum *Lyontutia*
abrotanifoltce, pedunculo tenui 4-S pollican suffulta. Nomen speefficum
nmtavlmus post Inspectionem Flora Graces quise nos docuit *Jnlhemt-*
dem agratifoliam plantam diversisaunam pereonem veramque *Anthe-*
midem ease.

Amunnnis nucAuus Boiss. et Heldr. In pi. Cret. exs. 4847.

A. annuus, oaulbns e collo namerosis filiformibus procumbenibus
ereottsve smplicibus monoceptuUs rarlus parè ramosis, foliis parè
et adpressè hirtocanescentibus nrinatu radicalibns oblongis plnnati-

partitis petiolis segmentis B-7 oblongis basi attenuatis 2-3 partita lobis oblongis acutiusculis, foliis ratermediis subsessilibus pinnatisectis segmentis linearibus acutis indivisis, summis paucis linearibus integris, pedunculis nodis sub capitulo subincrassatis, capitulo ligulato, involucri adpressè hinc phyllis adpressis oblongo-linearibus obtusis laticulè membranaceis, ligulis 5-7 ex sicco albidis breviter ovatis obsolete lobis disco brevioribus, achenis parvis glandulosis pappo subdivisato eis tripliciter breviter suffultis.

Hab. in saxosis inter frutices propè promontorium *Stdero* Grætae. (Heldr.)

A. specie precedenti distinctissimus foliis pinnatisectis absque petiolo B-6 hinc longis acutè lobatis, caulis subsimplicibus tenuioribus, involucris phyllis magis scariosis, etc. Flosculi marginales ligulis COD-lingui in hinc specie quoque purpurascens sum sed ad centrum capituli cunctis sensim et gradatim in flavum vergens

CUABLEMELUM Visfan Fl Dalm. II, pag 84

Gastrostylum et *Tnpleurospermum* Schullz Tanac. — *Matruana* sp. DC

Genus meo sensu valde naturale, achemo latere exterior! convexo ecostato intenoribus bisulco tripliciter sulcato costis omnibus e pappi substantia formatis lateralibus margioantibus distinctum, inter *Matricartam* et *Pyrethrum* collocandum. Prior differt receptaculo cavo rotundo, achenis unilateraliter quinquecostato, posterius distinguitur achenis teredibus costis sequalibus sequidistantibus. Nomen Banbianum *Chamamula* propter affinitatem cum *Chamomilla* & *isBimum* feldssum meo sensu a cl. Visiani huic generi reserbatum fuit; sectio enim *Anthemidis* a cl. DC. eodem nomine designata minime naturalis et nullo modo servanda. Species *Chamameti* hucusque mihi note sequentes sunt.

Pwennta.

GHAMJEMBLUK BLONGATUI Boiss. — *Pyrethrum elmgatum* F. et H

GBAMAHLDH GAUCASIGUM BOISS — *Pyrethrum Cauoatietum* W.

GUAHAMBLDH VMBIGUM Boiss — *Pffrethrum ambiffuum* Ledeb.

lo bâc specie el in precedenti achenia interna compressione sæpè medio dorso subcarinata esse videntur.

CUAMAMBLDII ORBADBS* Bolss. — *Matncana anodes* Boisa. Diagnos. VI. Hanc speciem in Libano anno 4B46 fructiferam legi, ejus achenia nigricantia summo convexa epunctata ventre alba tncosulata costis crassis latitudine sulcos saperantibus, coronâ achenio quadruplè brevior lobatâ.

Var. JS. canescens. — Major, pedalis et ultra, folia adpressè hirta grisea, involucri bylla magis fusca.

Hab. In rupibus Anklbam ad *Souk Wadx Barrada* Hah fine fructif. (Boiss.)

Annua vel Bienrui

CHAMÆMELUM PBACOX VIS. IOC. cit. — *Pyrethron proeoco* MB. — *Matnqana prtBcox* DC. — *Matriana modesta* Boiss. In pi. Kotsch. Pen. bor. 18i6 — Hanc speciem quoad glandulas selaceas foliorum piis minus elongatas et glandulas binas apices acbenii piis mintuve notatas variabilem e *Tanma*, *Asia mmon*, *Persii*, *Syria* ad *Aleppum* jam vidl.

GHAJLEUKLUH THIGHOPHYLLUM Boiss — *Chrysanthemum tnohophyllwn* Bolss. Diagn. IV et *Matriana trichophyUa* Boiss. Dlagu. VI. — *Oyrethron tritshophyllum* Grls. splcll.

GBAUIIBLIH UNGLADUOUM Vis. Fl. Dalm. tab. 81. — Babitu et acbenii formâ specie! precedenti simile tamen distinctum videtur ob acnulum summo tranvenè glanduloso-ragosum dictum nec Invisissimum; port glandilares apicales bioi insuper In unum quoque conjuncti, sed bsc nota variabilis est.

CHAUUEIBLDM DIACIFOaiD Vis. Ioc. cit. — *Chrysanthemum disciforme* F. et M. — *Matncaria dtoeiformu* DC. In bâc specie nunquam Jignas etiam mmlmas mni videre eontigit; vanat papposa et prorsus epapposa. (*Matnooria corymbifera* DC.)

CHAMÆMELUM INODOBCM Vis. Ioc. cit. — *Chrysanthemum xnodomm* L.

CBAUIIBLUH MAEITMDM Bolss. — *Matncarta mantma* L.

CHAMAMBUM cAU-aum Bolss et Heldr

Cb. bienne glabrum, caule elato folioso valdè striato superae ampti^v et laxè corymboso, foliis ambitu oblongis sessilibus tripinnatis laciniis subdivergentibus linearibus setaceis in apice callum album mucronatum abeuntibus, capitulis pedunculo nudo tenui suffultis, involucri glabri phyllis inferioribus triangularibus lanceolatis in margine angustè fusciscentibus apice scariosis lacens, interioribus oblongis, ligulis albis oblongo-linearibus disco squilobis, flosculorum dentibus non glandulosis, achenis minimis nigris transverse rugoso-tuberculatis dorso convexis apice biporoso-glandulosis ventre tricostatis costis albis tessellatis apice truncatis, areola terminali quadrangula achenio squilati pappo albo integro brevissimo margine circumdato.

Hab. ad rivulos in montibus inter *Beychehr* et *Konxah*. (Heldr.)

Planta 8-3 pedalis habitu foliisque *Ck. tinchophyllo* similis, sed hoc differt capitulis paulo majoribus, involucri phyllis omnibus obtusioribus et praesertim dentibus flosculorum apice aurantiaco-glandulosis, achenis majoribus siccis costis latis crassis, areola terminali nuda.

CHAMAMBUM DCIPIBNS BOISS.

Cb. annuum glabrum, caulibus erectis striatis supernè ramosis corymbosis, foliis tripinnatis sessilibus laciniis longis setaceis callosis mucronatis, involucri glabri phyllis oblongis pallidis albomarginatis, Ungulis nudis, capitulis parvis, flosculorum dentibus glandulatis notatis, achenis minimis transverse rugoso-tuberculatis dorso convexis apice biporoso-glandulosis ventre tricostatis costis albidis elevatis, areola terminali quadrangula achenio squilata, coronam margine circumdato brevissimè subpatula quadrangula.

Hab. In humidis prov. *Aderbidjan* (Sowlet), In orientalis Asia rarinoris (Sibth.)

Pyrethrum dectpens F. et H. Ind. Sem. 4835, pag. 49. — *Cotula aurea* Sibth. Fl. Grec. tab. 879 non L. et probabiliter quoque ex Lmdley *Cot. complanata* Sibth. tab. 879.

Achenis parvis *Ch. caltoso* afflue differt capitulis discoloris vli pisi magnitudinis, flosculorum dentibus glandulosis, achenorum cottis elevatis

GHAILBHELUM MicnoEPHALim Bolss

Gb. annum? glabrum, caule elato striato paniculato-ramoso ramis apice densiusculè corymbous, follis sessilibus bipinnatisectis laciniis aetacels longissimis apice breviter callosis acotis, capitulis parvis globosis discoidels, involacri glabri phyllis oblongo-linearibus obtusiusculis præter lineam mediam fascenlem albidam-membranaceis, flosculorum dentibus gladiatim punctatis, achenis minimis abbreviatis donec transvenit et pellucidè rugulosis ventre tricostatis costis crassis corticosis albis, areolâ terminali quadrangula achenio squilatâ, coronâ brevi subquadrilobâ.

Hab. in Assyria inter *Merdm* et *Asuaner* Kotschy, N° 357.

Capitula parva minima, a *Ch. deapienti* cui magis affine exlimè distinctum capitulis minimis, acheni abbreviatis costis crassis corticosis lateralibus sulco contiguo aequalitatis, coronâ terminali longioribus.

GHAMJIDIBLII ADHKOLATUII BoISS.

Gb. annuum glabrusculam basi multicaule, caulibus primis majoribus tantum foliosis simplicibus vel basi ramosis, pedunculis longis nudis filiformibus subscapiformibus, foliorum linearium pinnatisectorum segmentis brevibus unearibus integrè dentatis vel pinnatisectis, capitulis discoideis, involacri glabri phyllis ovato-oblongis pallidè virentibus latè albo-scariosis, receptaculo ovato, flosculorum dentibus glandulosis, acheniis biconcavis donec conveit apice bipunctatis ventre tricostatis costis albis crassis corticosis intermediâ latiori, pappo dimidato auriculiformi hyalino oblongo achenio xqulongo vel longiori.

Bab. In arenosis *Arabia ptina* ad limites *Pabestint* et In declivibus Inter *Jerusalem* et *Jmoho*. (Bous.)

Planta habitu *Cotula*, 4-7 pollicarum, capitula diametro 4-6 lin. lata. Hæc *Pyrethrum dwcotdeum* Ledeb. referens quod ex achenis (tanen inunaturis) veram *Pyrethrum* mihi esse videtur et a nostrâ plantâ prætereâ differt foliorum villosorum segmentibus paucis, pappo campanulato lacero.

PTBBTHEUM CifgmM Bolss. (Sect. *Leueogloua*.)

P. pereone, radice cylindricâ subproDorsâ longè et densè fibrosâ,

caule angulato-strigato parce luto elato remote folioso supernè laxissimè ramoso ramis longissimis subnudis monocephalis corymbosis, foliis hirtellis ambitu oblongis pinnatisectis segmentis subquibus oblongia iterum pinnatisectis laciniis oblongo-linearibus acatis iotegens vel bipartitis, foliis radicalibus petiolatis caulinis sessilibus summi* ad ramorum ortura abbreviate segmentis pallidis, involucri phyllis arete imbricatis adpressè hirtulis dorso elevato subcannatis apice scariosis oblongis obtusis, ligulis oblongis alba disco xquilateralibus, achenis pappo tubuloso apice lobato-lacero els paulidm breviori terminatis ralerloribus subincums.

Hab. in regione sylvatica in ferion *Ctuni* ubi legi Jun. 1846.

Planta 8-4 pedalia, folia inferiora 3-3 pollices longa 1 4;8 lata segmentis 6-10 linearibus longis, capitula magna *Pyr. Achmea* DC a quo et a *P. corymboso* differt pedunculis 6-40 pollices longis, involucri phyllis elevato-dorsivis, pappo aconium subsquantif Dec multo breviori

PYRACANTHUS FIUPBNDULINDH Boiss (Sect. *Gymnocneme*)

P. totum pube adpressà crispulà patet obscurè viridè, radice surculo steriles non edenti, caulibus simplicibus angulatis strictis foliosis, corymbo terminali composito densiusculo, foliis subsessilibus ambitu longè oblongis pinnatisectis segmentis linearibus rachide vix latioribus pinnatis lobatisve lobis breviter hinc aculis ascendenti-bus inter se remotiusculis, capitulis sphaericis pedunculo Bubquilodgobufultis, involucri hirti phyllis ovatis pallidis adpressis intus apice densissime membranaceis, ligulis trilobis flosculis obovatis bipartitis.

Hab. in Mesopotamià inter *Suerek* et *Diarbehr* Kotschy N° 164.

Planta pedalis hirta *Achmea* flavo-ochrea omnino referenda, folia 4-11/Spol, longa 5-6 lin. lata, capitula magna *P. Cadmea* BOISS. quod differt hirtulis stenilibus, segmentis foliorum multo regularitate densiusculis pectinatis Junloram tomento later se adpressis etc. ID diagnof *Pyr. Cadmei* Diagn IV pag. 10 pro *P. niveo* lege *P. densa* (error calami).

PYRACANTHUS STRIAODM Bolss. (Sect. *Gymnocneme*.)

P. perenne totum densè et adpressè tomentosum griseo-flavescentibus basi procumbens caules floriferos aliosque stenos foliosos breviores

edens, foliis pevolatis oblongis regulariter et per atim plinnabsecus segmentis linearibus obtusè lobulato-creatis obtusis junioribus margine sublus revolobis adultis plants, foliis superioribus paucis sessilibus summis simpliciter pedunculatis, corymbo terminali simpliciter, pedunculis distinctis nudis capitulo subsessile plerumque plurica longioribus, involucri adpressè rufescenti-tomentelli phyllis oblongo-linearibus adpressissimis aplee vis scanosis, ligulis flavis obsolete tridentatis patulis disco parvis longioribus.

Hab. In Syria boreali prope Antab Aucher N° 3478.

Affine facie, magnitudine capitulorum, longitudine terminalium *P. dtnso* quod a nostra plantis distinguitur segmentis foliorum multo minutis et confertis lobulatis semper revolutis in foliis junioribus admodum contiguis at folium indivisum simulent, caule minori, involucri phyllis latioribus brevioribus, pedunculis foliosis nee nudis.

PYBRHBDK FLAVOVIBBNS BOIBB. in Kotsch. pi. Pers bor. 4846. (Sect. *Gymnodinea*.)

P. basi suffrutescens surculos breves caulesque floriferos acutè bulbato-striato glabrescens parvis foliis simplicibus edeas, foliis inferioribus petiolatis pedatis segmentis remotis orato-oblongis sessilibus cuneatis in lobulos oblongos acutos profunde indisis, foliorum caulis seorsum segmentis angustè linearibus dentatis, omnibus adpressè puberulis grisels, corymbo terminali densiusculo composito, pedunculis angulatis squamulis paucis linearibus setaceis obtusis capitula ovata multicaulis, involucri glabresculi vel parvis hirtulis flavo-virescentibus phyllis oblongis subcarioatis aplee scanosis imbricatolaceribus, Ligulis flavo-virescentibus ovatis tridentatis diametro disci rufescentibus dimidiis brevioribus.

Hab. in solo argillioso ad catarrhactas *Ser Ah Schir* montis *Elbrus* prope *Pasgala* Kotschy. No 307.

„ Folia cum petiolo triplicaria segmentis utriusque 6-7 ferè 1/3 linearibus longis, caulis pediculis vel pedibus longioribus, corymbus *Aemula*. Species In summo sectione formam foliorum et ligulis pallidis distinctissima.

PTBBTHHOII SZOWITSI Bolss. in Kotsch. pi. Pen. austr. (Sect. *Gymnodinea*.)

P. basi suffrutescens multicaule, caulibus glabrescentibus angulatis

foliosis rectis simplicibus vel parvis et corymbosis ramosis, foliis palmatis vel renatis sub lente hirsutis inferius petiolatis ceteris sessilibus bipinnatisectis lacinis minutissimis oblongo-nervatis lobulatis lobulisque obtusis confertis, rachide lobulata, corymbis compositis densiusculis, pedunculo nudo vel aquamula linear! obsoletum capitulum oblongum sublongum, involucri glabriusculi pbyllis adpressis linearibus lanceolatis rufescentibus margine apice angustè scarioso ciliatulis, floribus femineis marginalibus paucis inpartitis discum vix excedentibus.

P. myriophyllum j9 *subwrescens* DC. Prodr.

Hab. in prov. *Karabagh* et *Aderbtdjan* (Sowlet) prope pagum *Deregun* prov. *Schiraz* et in faucibus montis *Kuh Darna* (Kots. N^o 585 et 538.)

A. *P. myriophyllo* propter indumentum parcios pedicellè differt capitulis majoribus attenuatis, involucri pbyllis angustioribus rufescentibus margine ligulisque tripartitis nec trilobis.

P. TRETUHDH DUDERANDII Boiss (Sect. *Gymnoclmes*.)

P. basilei fulvohirtescens totum breviter et crispulè cinerascens, foliis trinerviis radicalibus petiolatis sessilibus minoribus omnibus ambitu oblongis supra decompositis lateribus lobisque tenuibus confertis, caulibus erectis superne parvis ramosis in corymbum compositum densiusculum abeuntibus, pedunculis tomentosis capitula globosa paulò superstitibus, involucri pbyllis ovatis obtusissimis apice nigricantibus anguste albo-marginatis dense ciliatis, floribus femineis unguiculatis paucis in partibus disco subbrevioribus.

Hab. in solo argilloso facies *Dudero* montis *Elbrus* Kotsch. N^o 466

Pyr. chMophyllwn Boiss. in Kotsch. pi. Pen bor. non F. et M.

Species a me infansè relata ad *P. oxalophyllum* cui **foliis** affinis est sed quod longè differt lobulis minus tenuibus, involucri pbyllis minus obtusis et praesertim ligulis aureis disco longioribus. Nostra species nabit et floribus femineis flsis quidem sed vix ligulatis affinis est *Tanacetum millefolium* F. et M. et *T. canesoenti* DC. quae ambo id *Pyr. Arum* confjungenda crunt.

TANACETUM FLABELLIFOLIUM Boiss. et Heldr.

T. pcrenne totum adpressissimum tomentosum griseo-flavum basi

suffrutescens multicaule densè foliosum, foliis inferioribus oblongo-cuneatis subspathulatis obtusis Internè In petiolum eis asquiloogunr attenuate supernè utrinquè 4-5 crenis obtasis obsitis, caullnis Benslm dimlnulis'oblongo-linearibus apice paucidentatis Bummis Unearibus integris, caulibus erectis foliosis Bimpllssimis apice corymbosis, corymbo composito denso poljcephalo, capitulis parvis glohoals pedicello BIB squLlOQgo MiffulUs, Involucrt nifo-tomentosi pbyllis oblongo-linearibus obtusis cucullatis adpressis, flosculis else 45 omnibus hermaphroditstubulis.

Achillea flabellifolia BOIBB. et Heldr. ID pi. Anal. e u. tSCT.

Bab. In fissuris rupium *Tauri Isaunet* inter valles *Ermek* et *Towtchalar* alt. 4000' (Heldr.) Julio ineunte nondum floriferum.

Gsspltosum, caules pedales, foliorum Inferiorum limbia 4S-45-lineas longuB 6-8 latus petiolo ei seqailongo suffultus, corymbis diametro sesquipoUcariB, capitula evoluta eis *AahUlece mtllefohi* YIX majora esse videntur. Species puhra quam ex primà Inspectione Bpedmloum nondum floriferorum *AohUlea* adnumeraveramuB Bed que ob receptaculum prorsus epaleaceum et (lores omnes tubulosos *Tanaeeto* adnumeranda est

ABTEHISIA HBLANOLBPIS BOIBS. in Kotsch. pi. Pen. bw. 4W6. (Sect. *Abamthum*.)

A. perennis densè cespitosa nana tota adpressè argyrea splendens, follis ambita subrotundis multipartitis lacialis tenuibus breribus con-fertissimis obLusiusculis radicalibus petiolahs cauhnis BiibsesBilibus basi dilatatis sunpliciter pinnatis, caulibus brevissimis simplidibus, capitulis globulis BubsesslibuB ad apicem caulium confertis breviter et aubuoUaterallter spncatiB infimiB s&pe remotiusculis, involucri pircè lanati pbyllis ovatis margine membranacea nigris, flosculis apice purpureis pilosis, receptaculo longè villoso.

- Hab. in alpibus *Htuortoohal* In parte occidentali montis *Elbrus* propè beam alt. 40000¹ Koladt. N» i86.

Affinla *A. latiolws* Brass, et *A. alpww* MB. — *la*^{TM**} W. a quoua differt follorum ladinis tenuibus illas *A. mutelian* referentibus, capitulis minoribus in splcamdensam I;M pollicarem coDgestis, phyllis Involucrl nigro-marginatis, flosculis purpureis apice minus hirsutis.

UELICUBYHUH PSYCHROPHILDM BOISB. in pi KoUcta. Pers bor 4846
(Sect *Staehadma*.)

B totum adpressè araneosum griseum basi suffrutescens, caulibus diffusis nudis apice foliosis cespitosis, foliis caespitis ramisque angustè oblongo-spatulatis oblongis vel acutiusculis in petiolum basi angustatis, ramis brevibus decumbentibus apice 3-4 capitula majuscula sessilia globosa ferentibus, involucris paucis vel subnullis vel pubescentibus glabris ovatis oblongisque obtusiusculis subundulatis diacum squantibus, flosculis omnibus hermaphroditis.

Hab. In monte *Elomout* seu *Elbrus* Aucher N° 478ft, Kotschy N- 463, in monte *Totschai* prope *Teheran* N° 638.

Suffruticulus cespitosus foliis speciminum majorum vix pollicem longis, eorumque locis excelsioribus oriundis multo minoribus, rami floriferi 2-3 pollicares saepe multo breviores monocephali, capitula magnitudine *H. Anatolici* in cespitibus sessilia. Valde affinis *H. oal-Itchryao* DC. a quo differit ramis brevibus decumbentibus, foliis lobatis minoribus. An tamen hujus forma e loco eicelso orta?

H. Kotschyana Bolss Diagn. VI. ab *H. Armeni* DC formis mihi non sat distinctum esse videtur et huic igitur conjungendum. F. *oligocephalum* DC. et probabilissimè quoque e fragmento herb. DC. *H. BeUmgertanum* ab *H. Armeni* specifice quoque non differunt Specimina Kotschy. Pen. bor N° 738 et SS4 ad ff. *Armeni* formam canam pertinent

HIUCHBTDUH AUCHEM BOISB (Sect *Staehadina*.)

H. totum densè et adpressè araneoso-anatum cano-griseum, foliis radicibus densè caespitosis caulisque inferioribus oblongo-spatulatis obtusis muticis in petiolum longum attenuatis, caulibus superioribus hinc acutiusculis strictis, taule elato simpliciter, corymbis terminali denso composito polycephalo, capitulis majusculis breviter pedunculatis lobatis globosis, involucris paucis glabris oblongis apice concaviusculis obtusiusculis rotundatis breviter persistentibus iatis discum asquantibus, floribus omnibus hermaphroditis.

Hab. in *Period* Aucher N- 4789, *Cappodocia ad Euphratem* Aucher N- 3445, *Mewpotom AKolschy* N° 365.

Species naturalis involucris paucis imbricatis apiceque cucullatis.

torum *H. arenano* cui cl. DC. spemina dlala coiOunxeral afflols Bed ab eo eeriè disbncta indumento denaiorl, fohis radicaUbus latiorlbn oblusorlbufi, capitulu duplò majoribus, pbylhs involucri apice squaroso-palenlibuB.

HBLICHTSDH TABDENTO Boiss. (Seel. *Stahadina*.)

H. basi suffliticoBum prostratum, caullbus virgalis slmplldbus densè foliosis elatls at et folia glandulis crebris subBesBllibus aspersis caeterum glabrls virldlbua, foliis oblongo vd hnearl-spatbulatis Infernè ID petiolum angustatis tunonum paucis sublanatis csteris vindibus, corymbo parvo polycephalo simp]ici. captidis brenter pedunculatis minutis oblongls cltnois. Involucri phylhs glabns obloogis exbnèimbricatls apice obtusis cucullatls erecto-patulls mtimis dlscum squaDtlbus, floribas onuibus bennapbroditls.

Bab. in *Cmuan* reglone non indicaia d. Tardeat.

Pedale, caules densiuscute et Btriciè foliosi, folia ferè pollicem IODga loferiora supeniè 3 lin. circ. longa caetera angustissima, capitola Ulls *B. arenarn* mlnora et prsesertim magis atteouala qua notà, caullbns suffDrotescDtUnis, glanduloaitate et glabrifle, involuori pbyllta dimidld mlnpribas ab eo egregiè dltlogultur. *H. gkmdulosum* Ledeb. mlbl descriptione tantum notom ob folia mucronata et pbylla involucri plaoa erecta adpressa mea paula ease oequit.

HIUGHETSUH 6LOBIFEBDH BoiSfl. (Sect. *StOtohadina*.)

H. totum adpressè araneoso-canum, foliis radicalibu deaaè caapi-tOBb ndnutlB obloDgo-apatbulatis caullnls ioferioribus lineari-Bpatbulatis caiteriBque hnearibns acutls, canllbua stmpUclBsimls, capUulls sobrotndls BubseBsllbUB in glomerulum denBum globosam teradnalem coDgeBllB, involucri pallldè dtrlni glabri pbylUs ovato-oMonglB erectiufcolls cucullatls obtasisflimls flosculos superantIDUB.

Hab. In prov. *Adertndjan* Aucber, No 4783 et 4780.

Caulls 7-8 pollcariB, folia els *H. arenarH* mlnon et anguBtiora. Capltola ferè 46 In glomerum denBamavellañaTixiiaJoreaicongestaquft dlspostioDe bac species ab omnibus orientellbus dlffert pnter *H. tatanatum* DC. quod habet folia mnld latiora, indumentntn densus, glomerplos termDales ampliores deplaoatos subtùB follts supremia longè

bracteatos et *H. graveolens* quod differt quoque foliis in lobis, involucris phyllis acutiusculis adpressis vix concavatis rubellis.

HEMCHHYSUM LKDOOCBPUALUH BOISS. (Sect. *Stachadina*?)

in totum adpressè araneoso-canum, caulibus elatis simplicibus foliosis, foliis strictis inferius linearis-spathulatis. obtusis ceteris linearibus acutiusculis, corymbis terminalibus compositis polycephalo densiusculis, capitulis minutis pedunculo eis subsquiflongo suffultis ovatis, involucri griseo-albidis phyllis minutis oblongo-ellipticis basi adpressè imbricatis tomentellis apice glabris hyalinis margine undulatis patentibus reflexis intimis erectis disco squiflongis, flosculis omnibus benedictis, pappi sessis scabris apice stricatis.

Hab. in monte Ghend Perels australis Aucher, N^o 4786.

Pedale et longius, indumentum *Gnaphalium luteoalbum*, capitula *W** *H. arenant* paulo minor involucri phyllis inferius arcuatis imbricatis multibus aegustionibus. Species ut et sequens involucri albis nec luteis in sectione paulo anomala

HEMCHHYSUM LKDOOCBPUALUH BOISS. et Heldr. in pi. Anat. e u. 4846. (Sect. *Stachadina*?)

H. basi suffrutescens caespitoso-multicaule tolo indumento araneoso adpresso canum, caulibus elatis tenuibus erectis simplicibus, foliis radicalibus linearis-spathulatis acutiusculis inferius attenuatis caulibus angustè linearibus strictiusculis, corymbis terminalibus polycephalo composito subgloboso, capitulis breviter pedunculatis ovatis divisis, involucri phyllis niveis absque nitore imbricatis basi excepta glaberrimis ab inferius brevissimis ad intima sensim elongatis ovatis oblongisve obtusis apice aepè flosculis adpressis erectis imbricatis concavis, flosculis omnibus benedictis, pappi sessis vix scabridis.

Hab. ad rupea apricas *Taun Pamphylicae* inter *Mariae* *Adaluxail*. arc. 3000'. Fl. Julio. (Heldr.)

Caulibus pedales longioresque, folia inferiora besquipollicem longa a linearibus. circ. supernè lata, caulibus media pollicaria aequantiam lata, capitula eis *H. ormont* vix minor aequalibus longiora. Species capitulis niveis conglobatis involucri phyllis adpressis quidem bene concavatis opaeis insignis et elegantibus.

In pi. Anat. Heldr. exs. 4846 loco *B. rupestris* var. e rupibus prope

Alaya lege *B. conglobatum* forma maritima latifolia. Hoc *B. conglobatum* cm Gn. *Susulum* Spr., *Gn. scandens* Sleber et *B. eaapitotum* DC ex parte assodaada sunt et quod in Voy. fiot. Esp. sub nomine *B. decumbentw* yar. *onmtalts* minds benè désignavl, in Oriente a Siciliat ad Anatoliam occidentalem frequentissimum eat et Ibl *B. Oaohadis* locum tenet.

Helxchrysi sp ex feuce *Bag%o* ftowiMfi Gretas In pi. Cret. Huldr. 48^7 eat *B. Panormitanum* Unco ex comparatione specindna authenticd a cl. Heldreich facta.

DOBONICCH cACALifFouow Bolss. et Heldr. in pi. Anal. exs. 4846.

D. radice cylindrica brevi truncate subhorizontali, collo glabro, foliis tenens vinctibus utnquè sparsim et minutissimè puberulis longissimè petiolatis reniformibus transversè latioribus sinu breviter latissimo cordatis circumdrcà crenato^dentatis dentibus aculis sinibus rotundatis, petiolo basi subdilatato eo foliorum caulis inferiorum basi denticulato minutè auriculato, folio supremo sæpè ovato amplexicaulis sessili nilnuto, caule elato angulato-striato supernè strictè et laxè paniculato 3-9 cephala, capitula parvis, inflorescentia densè et breviter bracteatis phyllis oblongo-bracteatis acuminatis disco non longioribus, Ungulis disco S 4; S plb longioribus.

Hab. In umbrosis rupium septentrionalium montis *Gheidagk* Isanriæ alt. circ. 6000'. (Heldr.)

Folia 9-S 4; S poll, longa 3-4 lata radice petiolo 6-8 poll, longo filiformi, caulibus panca præter supremum quoque longè petiolata, capitula eius omnium specierum generis paulò minora In paniculam contractam disposita. Species formâ foliorum distinctissima characteribus et habitu præter *D. macrophyllum* Fisch. et *reticulatum* Botss. collocanda.

SDOCIO volCANICIA Boiss. In Kotsch. pi. Pen. bor. 1846. (Sect. *Obajaoidei*.)

S. perennisP glaberrimus cespitosus subcaulis, radice cylindrica tenui teretibus, folia minimè carnosula diviso-oblonga oblongo-linearibus profunde lobatis vel pinnatis lobatis lobis obtusis, infimis petiolis elongatis affinis saporibus In peninsula brevem saban-goatatis omnibus ob caules subnudos in conspectum congesta, pedan-

calia braceolata c foliis vix exsertis capitulo aequifloribus, ca-
culis pbylha minimis squamiformibus triangularibus acutis spicatis
sectis basin involucri sparsis, involucri glabri viridis pbyllis oblongo-
linearibus plants basi elevatim binerviis angustè membranacea apice
attenuata acutiusculis spicatis, ligulis Davis oblonga densam revo-
luta radium valde superantibus, acbenis longis tenuiter cylindricis
substriatis glabris apice In collum subattenuatis, pappo niveo caduco
acbenio longioribus

Hab. in solo vulcanico regionis succine montis *Demawend* Kotschy,
N° 667 et in alpinis *Elamou* Aucher N° 4747

Vix polycaris, folia inferiora 3-4 lin. longa 9 lata, capitula paulo
minoribus *S. vernalis* et *Nebrodenis* quibus affinis est et a quibus dif-
ferunt glaberrime, caule subnullo, foliorum minimum formam, acbenis
glabris elongatis

SUBGENUS IACEBUS BOISB. (Sect. *Obcgaoidn.*)

S. annuus proseter papillas albas sparsissimas glaber, caulis ber-
baceis striatis decumbentibus ramosissimis, ramis tenuibus erectis, ca-
pitulis terminalibus pedunculis longis tenuibus nudis suffultis laxè co-
rymbosis, foliis flaccidis bipartitis margine subaequaliter revoluto ra-
chide latè planè inferè In pediculis basi minutè auriculatum aequè
angustatè laciniis utrinquè 3-4 irregularibus linearibus integris vel
trifidis, foliis summis tripartite vel integris, capitulis parvis, calveoli
squamis panda minutissimis linearibus setaceis ad basin involucri aparsis,
involucri pbyllis angustè linearibus elevatim binerviis angustè mem-
branaceis acutis, ligulla revoluta flosculosa superantibus, acbenis te-
nuibus cylindricis bipartitis glabris, pappo albo fugacibus acbenio
squilloso.

Hab. In alpinis *Demawend* Aucher N° 1749

Folia ferè pollicaria, rachis supernè sesquilineam lata, laminae 3-4 lin.
longa a superioribus ad inferiores abbreviate, capitula magnitudinis
S. coronopifolia cui magis affinis sed bene dignoscitur foliis basi
latè auriculatè laciniatis tenè dissectis, pbyllis apice spicatis. *S.*
nitida GAM eisdem differt notis.

Xanthium Anatolicum Boiss et Heldr. In pi. Anatol. etc. est
X. antjuorum Wallr. Species affinis *X. rtrumario* et ab eo non videtur
aut diadecta aculea fructibus densioribus eum ad apicem usque obte-
gentibus

CICMOBAGEJE

L&HPSANA PISIOJCA. Boiss. at Heldr.

L. aonua vel biarns secus parlem infenorem caullum el foha tafē~ nora pills loogls crispis tenuibqa subvfsddls blsplda superqē gjafcer~ rima, caule erecto supernē longē et dichotomy raaoso effusē, pancu~ lato-corymboso, foliis tyratīs segmentis lateralibus utnDquē 8*3 basi alteouatis ovalis acute repaodo-deatliculatis termlnali duplb ma^on e basi truncatā vel subcordatā tngulari-ovato acuto, racblde inter segmenta lobulis auctā, foliis caullnis Buperionbus anguslfe Uoearibua acoUs iutegerrimls sumoīs setacefsbrevibus, peduncidls teoulbus rl~ gtdnJis capllulo obcooico 3-8 pl6 longioribus, involucrl brerlter caly~ colatl phylUs lætfe vireDtfhus glaberrlmn eUlplico-lneaTlbua obtnals, flosculs radH luteis involucro dupl6 longloribua.

L. intermedia var. fn pi. Heldr. Anaf. 4846.

Bab. In oaxosls tater fratices faucia *Tsiimbouckhan* inter *Adalta* et *Sparta*. fHeldr.)

Hac species quam prlmdm cum *L. intermedtd* MB comblnaTeraiiuis ab et notfe sequentibus sat dlflerre Tidetor. *L. intermedia* quie aete~ rum perennia ease videtur habet infernē indumentum parcum bTeytosi~ mumique, ramos caullnos ferē ad extremltatem usquē foliosos nee nu~ dos, follorum segmeata laterālla utrlnquē aolitaria nee bina vel terna triangular! vel ovalo-acumtaala, segnientom superius s poll, et ampUas Tdngum latumque Dec at in aostrā specie pollicare

LAKPSANA CASSIA Boltt.

L. annua vel biennls inernē densē glanduloso-pflosa supernē gla~ berrlma, caate ensto elato sapentdlvBikBto^faiBMIBBimff effluri pa~ ntetthto-corymboso, foliis piuDatiparUUs segmentls tateralUms utrln~ quē 3-4ovatlfst repando-deatatis Ipasl aJteinalb tenDlmli tBh rub majorl ovalo-triangulari vel pWong*> foliis canUnto wperloribttts a n~ gnstē Uoeartbvft inicgerrhnjs vimms setteais, pedunolto tenulbn~ cjlptnfo obcoDlco-ovato W ^ ^ g i o r i b u s , motaerl brsviter cdyou~ laU phylHs glabdrimis HveittDtdMi»«Uplleorllimribis obtisisy floo~ colta ndii Inteis taivolnero aesqaHongtoribus.-

flab, in umbrosis rupeslibul regionis Inferioris montis *Cam%* et AnUllbanl suprâ *Zebdani*. Legt Maio 4846.

Afflali pracedenti a quâ differt indumento glanduloso partis Inferioris plants, folhs vix lyratis pinnatipartatu segmentis copiosioribus, caule multo ramosiori polycephalo pedunculis brevioribus, Involucro phyllis hvescentibus radio breviori *L. intermedia* characteribus in Diagnosi pracedenti dalls longius differt. *L. adenaphora* denique tota ad apicem usque glandulosa est, habet praeterea folia lyrata, paniciam contractilissimam, pnylla ad medium setosa etc

LAMPSANA HAMOSISSIMA Bolss

L. blei inis, inferni pared pills albis sparalis patulis flexuosis obsita Bupernit glaberrima, caule ferri a basi dichotomy ramosissimo efflutissimè pariculato, foliis radicalibus lyratis lobis lateralibus trinque 3-lobis longis subretrorsis acutis repando-dentatis terminali 5-3p16 longiori oblongo vel e basi truncato-subcordata inangulati aculo, foliis cauliculis paucis linearibus acutis ramis brevissimis setaceis, pedunculis gracillimis capitulo obconico 6-8 pl6 longioribus, involucri basi brevissimè calyculati phyllis viridi-sublivescensibus glabris vel inferni puberulo-glandulosis apicem emittentibus aculeis, flosculis radii involucri subduplo longioribus.

Hab io *Ltbano* suprâ Cedros, In tapidosis regionis Inferioris *Hermionis* snprâ Rascheya.

Specie! praecedenti valde affinis sat tamen differre videtur caule a basi ramoso non glanduloso, capitula paulo minoribus, Involucro phyllis apice merabranacco-atenuatis. — Species terna hic descripta forsan Inter se irimilis affinis sed donec specimina Intermedia cas format unius apeeles polymorphas esse docuerit eas seorsim proponere debul.

KALPYNIA u a o u a Boiaa. In Kotscht. pi. Pers bor. 4846.

K. annua caulibus brevissimis sub anthesi stipulatis nallibus, foliis glandulosis glaberrimis linearibus brevibus iniegirrhinis, capitulis ad coham et seorsim TAMOS sessilibus minutis, Involucro phyllis adpraxis linearibus elliptico-linearibus albo-marginatis, «onenUa striatis dono aculeis paucis bimatibus obsidibus prelerata gubris In capitulis divento distantibus aHis elongatis semicirculariter infundis aptoe BubampHads vix bifidis, affn

erasstoribus brovtonbin antè revobito-subebvinaalia aptae tongiBdmfc et divancatlm bipartite*

Dab. la aridis provincie *dsrbidjan* (Aucher N* 4875), In argillosB salsiB propè *Teheran* (Kotschy N" 60).

Plantola nana cujua specimtaa pianos acaulh bablta *Plantoginm Cretuxm* referunt. Folia 8-40 ltn. longa baBl llineam lata, capitula UIU *E. Imeans* minora. A *Kalp. tiruari* enimfe dlaUncta folfla multt> brfrvloribus pro longitudiflè tatiortbus, capitulfi aeaslibuff Dec longè pedunculaba, acbenlla dlmorpbls prater aculeos donalei non scabridls.

ROBEBTIA TBIIOIFLOSA BoiBS

B. folliB omnibus radicahtiw oblongo-hoearibus sub lente panè selosis vndibUB rancIDato-plDoatilobatIB lobo termIpali majori, scapls tenaUsimis folia m duplo Buperantlbuu superaè squamulta panda «b-sltis, capituliB parvls pauclooris, iovolqcri pbylbB plaids albo-puberoln nlgricantibus albomargtnaba infernè longd at parcè crinltls ab eitorioribus ad intJma elongath paucii, HgDlia eoncoloribus, receptacull palals membraoacfiib ihieari-flCDnunatis adrania soperantibus, acbeniia tranBTereà rugosIB breviter altenualo-rostmtU, pappi plumosl sellls basi vli dlatatls.

Bab. ID fnsulà *CretA* ubi legl cl. Pcot Banlln.

Plants blpoUlarIB, folia els A. *taraaxtooidtt* mlobs profnndè dlvlv vix BesquipoUlarla, ecapi els bujus duplo teuuiorea, capitubi mmora; ab eà Insuper differt ptaylils inequUongto nee sqaUongis exadèqae unlserialibus, acbemls aploe brevltter attenuatu. Hsc planta babet fadem *DBlodsnt* sed boc subgenus ab eà diffen receptaeulo subnodo, açnenUB longè nwiratls, pappi sellls pauas bad paleaceo-dUatatls, pjur rauha dedduls.

HAGIOSEBJS BolM.

·Capitulo multiflorum. Inioluerum ~~biseriale squamis exterioribus~~ Uoearlbuu patulfi interioribuB iucurviscoDTOluto-cymbUormibus acbenia radii foTeotibus aplce longè acumlnatis tondem. dedduls. Aceplacolum nudum. AdMola^rattuaciili tmurersè rngosa ~~exteriora, valde~~ incunra pappo brnlSBbno coronllbuni flmbrtttulo'augmenta bilerioiv

rectwscula pibs 10)0*0 t>w*ter hi rostrum atltiuwia pappo oniaeriaji e paleis 5 persistentibus loogè aKenuato-subalatts seabris plumoslsque COBSTABII Bftumls longtestinls decidon. — Heriba orientates anniiaj facie *Ptcndu* annuas referentes.

floe fefius terufc e grege SpOwiuB vel Jfatewta> affline ab eia egregiè dUTert pappo BOD ajmnlalta deddoo multisfipfaliqne sed perslstenti 5 paleaceo JoDgA plumoso planis dedduis, involucln phyUU ~~deciduls~~ a *ThrvteiA* et *KalbfunA* pappo uolseruli etc UmgIQs dtttat. ~~*Delodarium* CasB.~~ acbeous muncaUs, setis pappi basi in palean 4dabH Us plaml deciduls affloe differt receptaculo subpaleaceo, formâ et naturâ pbyllorum involucln, acbeolls conformibus.

HAGIOSEBIS OALIUBA. BOISB

H. cauleeracto basl rubello Jam Wiferafe dkhotomè niooslsliDO ramlaque setts brerlbiu basi Incrassalls spareis asperls esterdm gbbriis, folds margloe et utrinquè ad nervos parcè et brevfter setulosls oblon-Ce-tanceolatte subintegris inlèriorlbua basi attenuatla «opertoribus obloDgIB sestIHbuBbaBl amphnkanlibos rotondato-wriciilatls, pedunca-Ui captufo sjurlea loDgloribus dearikn flstuloso-BublmeniBsaUa si* ca^ pltiilo squamulls 1-2 Ifnearl-setaceis auctis, Involucii phyflls enteridri-bua lIDeari-subulatis patulte selslosls dlmidl6 brevloribin, els seriel ioCerforis doreo earlnaUs andiqne extfts sells acnlelfonnibus gioebl-dtatls albls strlgosis acumfne subulato ciliato parti cymUforinl eqol-longo terainatls, achenlls Interioribus aplice vix In eoOom attennatls.

Hab. (o herbids *Gaiiiaa*. (Boiss)

Habhus et magnltado captulorum *Piortdw Sprengenana*. Llube subtto rubells lovolucro BuMuplò longiores.

HAGIOBE^IS AHALECITANA Boiss

H. tola pillB albls lenuibus aplee sspè brevlter glochidiatis setnlosa, foUis radicallbas rosailis lanceolatls repando-dentatls, canllbus plurimls breribus a basi dlchotomè ramosls decumbentibus, folto caullnls a basi ompIaicauH auricubtà angustè lanoeolato-HnearUnK aoitts 4n-tegHs, peduncnlls captulo plurtea loflgtoribus sapernè sqaaDalto H-neari-setacels ptnribus obsrtte, lavetaorl pbyflis eiterlefUms angustè setacelB eetidosls -triple brevloribin, els seriel laieriB rotudato* earlnaUs gtocildteto-sewiow's iicumlne a basi tanoeotetâ snbutalD parte

cypbtformi iwul& bwvlon terminate, aefapniia intenonbas longtus-
cute attenaato-acabndls.

Ebb, in PalautlDA Arabia? conterndnâ ad meridiem nrbis *Gosa*.
(fioiss.)

A. precedent! dlaUnctisaima canbbus diffusta aUiaque notu In dia-
~~gnosi~~ fidIMDBWtJB-

Picais CAHPILOCARPA Boiss. et HeJdr. In pi, Anat. ex*. 48it.(SecL
EIJMOTM.)

P. bienDls tola infemfc loogibs supeni^ brevissimi et lenuller setu-
loso-glocbldiata asperula, caule erecto elato infernfc fohoso supenife
dichotomy ramosissimo, folils obloDgo-spalhulatts inflmis ball atte-
nuate pinnatilibatia lobis parrls obtusis, ralennedliB sessilibus bau
obscurt aunculatis repando-sbiuatlB sublntegriB, SUODIS linearibns
pedJioculls nqdlis vel 4-8 squamulls obsltis capltula multt suparantiisiiis,
involucn pbylhs gbucescentHlvescenlibiiB ad medinm pnbenilto feii-
oaceis ad nargioem Btenbranaceis Don setosis, eiterioribus trlangu-
bribiu Interiqriijufll linesrUnw acntto, JiguUa eoncolonbos invtrfacro
dupU> longloribuft, achenito brevibns angulatiB transveni ^aldi rugu-r
tails valdfit Incurvflf bad subattenualis supemd In rortrura eu diraidjft
brevliw vngustaUs, pappo jomnium COUJCODDI nlveo achenfo longion.

fiab. In collo suoao apneo prqui *Kourmalu* Pamphylise ad radices
IDODUS *Umax* Fl. Maio. (Held.)

Planta bipedaKs, flores Uus *P. fnaracwidts* majoreâ, acbenia cum
rostra 9 4/8 lin. Longa; ab eft et cteris speciebus generis distinctis-
sûiia acbepUs hrev*us et valdfe Incurvto.

PICRIB CTAKOCAEPA BOÏBS

P. annua tota setnlis albls brevibua apice glocbldJatis deoaüiacalè
mMBoejw aspen, folUs ndlcallbus oblongia lnai attwuatis plsnaU-
lobatb runotnaUs veJ alnuato-repandis brevibus, oasktaa scapifonnl-
but aaeandenUbUB puwilis aimpUcibns vel bifidls bleepballa folio cau^
Uno mo alierulrova anguste lneari donatla, padnoorie panè aqmmu-
loao, iivolucri phylllft^iteriorftas pauds lioarlbuffi interioribua Itaea-
ribua teimloatli ftrlnaeoo-pobanilh pnBtenaque dorao albo-aetoiii,
lignite eoncoloribua htvolncro duplA longlorUHis, acbenlls omDibns
uonfonnibuB cyaneo-glauceacentibua transverse valdj> rugoan la fas-

Irum tenue eu longius attenualis, omnium pappo plumoso achenio squiloogo

Hab. ID valle *Mokatteb* Arabis Petrese allisque deserti locis. (BbFss.) line quoque spectare videtur Aucher N° 3411 e *Persta austrau* ob flores nondum evolutos nblncerhim.

Folia pollicem aut amplius longa, caules 3-8 pollicares, capitula els *P pawHflorn* majora; species achenilla longè rostralis Insignia bāc notā ad *P longtostrem* Schultz tantum accedens qua foliis angustè linearibus, caulibus divanctim ramosissimis, pediculis aplice In-cra&atis, achenis rofescentibus etc. ducedit.

HILLDiA AaABICA BoiSH

M annua, foliis omnibus radicalibus roaulatia deos6 et breviter aetulosis gnseis linearibus pinuatipartilis segmentis brevibus angustè lineari-laoceolalib, scapis procumbentibus vel ascendentibus foliis t-3 p!6 loogioribus simplicibus vel bicephahs, involocn aquamls adpressè imbricaUs ab exlimis ail intimas Imeares senslm elongatte farIDOfo-po-berulia apice nigricantibus, Ilgulia eoeoloribus disco aesquilonglort-bufl, achenis rectu teDulssimè cyndritis sulcatla transTend tenulter niffulosis rostro setaceo aaheDiorum marginalium pnilò breviori centralium aequilongo terminatis, pappl rostro xqailoogl sells 10 bast paleaceo-dilalialis supeniè plumosis plunia deciduis.

Hab. ID *rabid pelrad* ad fines Palssbos cam *M. huptvld*, leg! vere 4846.

Habitus et folia *Picndis radicata* Leasing. A *M. htspidula* exUnfl differt foUis abbreviatis angustè linearibus, lobis brevionibus magis xquallibus, indumento griseo setuloso, involocn pbylUs regulands ImbricaUs, achenis abruptUAs et tenulis nee seo&lm in rostrum atteauatis, pappo aebpno breviori nee xquilODgo.

Pro *MilttnA Panted* Boiss In Dlagn VII p. 1 lege MiixmA BIBPIDPU Boiss. var. *tenuUoba*. Hano plaatam ex specimioibus In Arabiā petreā el JEgypto lecus agnoaco pro formā *Crepuiis kupuduia* Del. jEg. tab. IS flg. I. — *Oporintce htspidula* DC. qua? foliis plus minus lodsls ludit. Bsc species omnibus cbaracteribus et Inpnmis achenbj evidenter et longè in rostrum attenuate *MtUma* nee *Crtpidi* vel *Oporinia* adnumeranda est, Inter *MUUnm* geclones intermedia el eas oplun* conjungens.

LKHCTOIXM G&CCDH Bolss. et Heldr

L. perenne totum pills brerissimis aplice 3-5 furcatis canescens asperulum, rhizomate indurato basi medio ramoso cespitoso, foliis omnibus radicalibus lanceolatis pinnatifidis vel profunde pinnatifido-sabylatis segmentis triangularibus vel angustè linearilanceolatis acutis terminalibus majoribus acutis, caulibus scapiformibus folia pluries superantibus monocephala rariter dicescens prater squamulam linearem nudis sub capitulo demum clavato tetracarpis, Involucris squamis adpressis huc ab infimis brevioribus ad Interiores sensum auctis lineariacutis ad locum ficiem anteriorem pills minimis ramosis pulverulentis puberulis inferioribus prater lineam mediam pilis furcatis elongatis obsitis. Ligula sublimis pallida rubellis involucro sesquialtero brevioribus, achenis cylindricis superafere attenuatis erosistratis tuberculato-bebrifl pappo albo elongatis brevioribus saperath, pappi setis omnibus a basi plumosis exterioribus subbrevioribus

Hab. In montibus Gnetia, *Lycabes*, *Pentelico*. (Spiner. Bolss)

Var. *B. alpinum*. — thinnibus partibus montibus, indumentum, magis griseum minus abbreviatum, capitula minor et achenia paulo magis abbreviata.

Bab. In locis excelsioribus Taygeti loco *Choupata* dicto (Heldreich), *ID Graecia* loco Don notato. (Aucher N° 3334.)

Folia in forma vulgari 3-6 pollicaria profunde laciniata. Scapula 6-41 pollicares, capitula magnitudine eorum *L. aspen* Inter quod et *L. swartzii* medium est *A. l.* *saxatilis* differt pilis multo brevioribus 4-6 nec trifurcatis, scapulis saepe furcatis, capillis pierarumque vagonibus, involucris phyllis prater setas medianas pulverulentis nec glabris, Unguis magis elongata. *L. asperum* habita affinis distinctissimum est pilis elongatis «parsis, phyllis involucris margine elepnter pilis 8-7 foliis densissimis riliis et prater setas nonnullas seeds lineam mediam glabris. *L. bisovhllcefolium* DC. denique pro quo am. Spruner noster transtantam babaerat in herb. DC. observatum longe differt squamis in tohici longe acuminatis subrecamis, achenio in rostrum manifeste attenuato, et (saltem praeter Italicas typas special) probabiliter ad *L. sawatilis* formas spectat

LEONTODON LHANOTICOM Bolss.

. L. totum indumento denso adpresso pills brevibus densis aplice 3-4

furcalis conlaule tani'scens, rinzomate Indurato nudo caespitOBO, foliis omnibus radicalibus lanceolatis obtusis et irregulariter dentatis crispis In pettolum attenuate, scapis simplicibus $\frac{1}{2}$ inâ basi divaricatis furcatis supernè squamulis plumbeis lioeari-selaceis obatis an capitulo Babin crassatis, involucri pbyllis ab eterioribus subpauihsad inlima sensim emgna acute margtae densè et teouinhnè sub tente albo-ciliculis caepiUm ghbris giads, ligulis concoloribus' cofofe tubo squilofris, acheniis cylindricis soperâ subatteouatis mariim-lain pappo eb paulb brevion auferatis (aetls papirt oiODlw a basi plumosis exteifonbus paoid brevloribus.

Bab. ID *Lybano* supra CedroB. (Boiss.)

Planta semipedalis, folia 4-9 lloas longa \pm 5 lin. lata. A *L. BOTcattit* distlocum folis tantam dentatis, iodumeato magU caeseenU, involucn pbylliB prater cillola marginalia brevissimB glabris etc. *L. <upt-rum* differt dms phyllorum malb validionbus dec pruloaeformibus, pllosque lotius plants sparsos multb majores habet.

LBONTODON KOTSCHTI Bobs, ID Kotsch. pi. Pen. bor. 4846.

L. perenne caespitosum totum pilis brevissimis stellatis dense obturatum panosum canesceos, foliis omnibus radicalibus aogustè lanceolate in pettolum attenuatis remotè et acutè dentatis, caulibus scapiformibus simplicibus vel ramo auctis pardsstmè squamulosis sub capitulo incrassatis, involucri phyllis margineet seeds lineam mediam. brevisimè stellato-puberula exteifon glabris omnibus adpressis Imbriatis ab infima brevissimis ad intuna lanceolato-hnearla sensim auctis, ligulis concoloribus basi pttosis tubo squilongis, acheniis...

Hab. in monte *Dmatomd* alt. 6600'. Kotsch. N° 344.

Folia 3-5 poll, longa, 1-5 bn. lata, scapi 7-8 pol. Ucares. Hanc Bpedem quoad achenia ignotam dubitanter propono, *L. Ltbantioo* imprimis affinis ab eo differt scapis erectis, phyllis involucri regulariâ Imbricatis elongatis adpressis, foliis remotè dentatis. Ob phylla laduscula regulariter imbricata *L. atperimwm* caeteram diversissimum refert.

UONTODON oiTLWis Boiss. et Heldr.

L. totum pilis brevissimis stellatis (urcatis caespitoso asperulum, rinzomale indurato ramoso caespitoso, foliis lanceolatis elongatis In pettolum longum attenuatis remotè et acutè dentatis aetn omnibus

radicibus, caulis scapiformibus simplicibus vel ramosis superius bifurcatis foliis subsessilibus longioribus parvis setaceo-squamosis subtomentosis Inermis, involucri phyllis ab exterioribus partibus ad internodium auctis omnibus longe setaceo-acuminatis nuncquid pilis densis brevibus furcatis obtusis, ligulis concoloribus tubo longioribus, acheniis cylindricis superius subattenuatis aculeolatis pappo albo et subbreviter terminatis, papillis setis omnibus a basi plumosis exterioribus brevioribus.

L. bucute Uafonum in pi. Heldr. Anat. 4816 non. DC.

Hab. in rupestribus Pisidiae prope Tchelttchoht, Halo. (Heldr.)

Folia cum petiolo 8-9 poll., tonga 6-9 lin. lata, scapulae 41-44 pollicares, capitula magnitudinis eorum *L. atperi*. Affine *L. Græco* et *axpero* facile distinguitur foliis elongatis breviter et remote dentatis et imprimis involucri phyllis longe et tenuissime acuminatis.

Lesmonii DIVARICATA Boiss.

L. perenne lolum indumento densissimo pilis apice biterminatis constantibus canum pannosum asperum, caulibus flexuosis a basi 3-4 ramos edentibus ad dichotomiam foliosis, ramis divaricatis flexuosis monocephala parvis et brevissime squamosis subtomentosis subtomentosis Inermis et valde asperis, foliis lanceolatis inferioribus in petiolum attenuatis remotissimè et acutè 1-3 dentatis caulis integris, involucri phyllis pilis stellatis inordinatis appendicibus adpressis ab internodiis brevibus ad internodium lanceolato-linearibus sensim elongatis, ligulis concoloribus basi pilosis tubo subquolongis. acheniis apice subattenuatis muricatis pappo albo et sublongiori terminatis, setis pappi omnibus a basi plumosis.

Hab. in Tauro *Cedice* Eotschy, N° 384.

Cespitosum Paniculae subpedales, rami 1-5 poll. Inermis, folia inferiora semipinnata 5-6 lin. lata, capitulum magnitudinis eorum *L. atperi*. Species a precedentibus distincta indumento densiori pannoso, caulis ramosis ramis divaricatis, acheniis abbreviatis. — Species *Leontodontia* Weismannii characteribus forsitan nimis leviter distincta, sed a quo jure ac plurimum generis naturalissimi adnectende sunt donec saltem observationes ulteriori inter eas intermedia occurrere nos docuerint.

SCOMONBBA HDLITBCAPA Boiss. (Sect. *Svuoraown*.)

Sc. radice fusiformi verticillata, collo nudo, foliis omnibus radice

brevisimè interlexto-puberulis pulverulento-canescetibus angustè linearibus graminels flexuosis canaliculate Integerrimis inferioribus nodulis saepè margine crispulias apice subrevolutis, scapulis numerosis canescentibus monocephalis erectis folia paulatim superantinis, involucris puberulis phyllis paucis latis adpressis angustè albo-marginatis Infimis triangulari-ovatis ceteris lanceolate omnibus obtusiusculis, Huiusmodi purpureis stantibus involucre dimidiè brevioribus, acbenis basi dilatatis angulatis superni cylindricis sub lente parè scabridis, pappo sordido acbema subsessili.

Dab. in collibus circa *Rasoheyp*, Antillani Maio. (Boiss.)

Folia 6-8 poll, longa 1/2 lin. lata, scapi 8-9 pollicares, capitulum minor et braviora illis & *rosea* cui affinis est et quae differt radicalis collo filamentoso, foliis glabris plants elongatis nec obsolete serratis, Involucris phyllis attenuatis/acuminatis/achenis striatis.

Var. *ja. compacta*. - * Folia abbreviate patula 4-2 poll longa in capitulum compactum aggregate Inferioribus Bispè oblonga Hinc. Scapi 4-5 pollic

Hab in cultis excelsis Libani in via Inter *Beyrou* et *Damascum*.

Habitus diversis sed characteres capitulorum et acbeolorum omnino speciet.

SCOBI NEFI CALICULATA Boiss. ID Kostch. pi. Pen. bor. 4846. (Sect. *Eusoorsonera*.)

Sc. indice fulvum, collo petiolis vetuatis deorsum squamoso, (bills brevissimis ramosis sub lente bructis vix radialis et cau- libus inferioribus angustè hinc lanceolatis irregulariter Indis longè acuminatis lacinatis triangulari-lanceolatis acutis, foliis aulinis later- medtis et sommis paucis hinc parè dentikulatis JMSI rotundatis, caulibus ascendentibus teretibus glabris tolè longundis ranis remotè brevibus auctis *i-i* cephalis, capitulis pedunculo eis brevioribus sufful- tis, involucris ovalibus glabris phyllis inferioribus ceteris dimidiè brevioribus lutescentibus ovalibus vel oblongis obtusis interioribus virescentibus oblongo-elliptida angustè albomarginatis, Uguis luteis extis ru- bellis involucro sesquolongioribus, achenis..

Bab. in monte *Demawend* alt. 8000'. Kotschy N* 341 A.

Folia majora 5 poll, longa 6-9 lin. lata, caulespedales. Yame affinis *Sc. tneua* DC qua latè differt foliis caulibus majoribus basi am-

plwicaullbus, involucri pbylUs inferior!bus noo subaquilongto ealyeu-
lamque fonnantibus sed in intenora seoalm eloogalls.

SCOBZONBBA LIBANOT.CA BolSS. (Sect. *EuiOOTZOMM.*)

Sc. tota Indumento floccoso adpresso aordldo demtim deteraili lanata, coflo valdè squamosD, follis Inferioribns amplis oblongls vel oblongo-lanceolatis acutls minutè crispulo-denttculatls In peiiolum brevem attenuatts, caullnte uiperloribus e basl aroplexicauli obtongo-lanceolaUB acumlnatls infernè ulnnquè 3-3 argute denUculatis, caulibus elatisfoliosls teretibus supenid ramosis 2-3 cepbalu, capitulls magnis longà pedunculatts, lovolucris obloogl superni subaagiutali pbyllls glabris glauceBcentibus labs ab idflnūs ovalo-triangulanbuB ad Intuna laoceolata obtuslssima seoslm auclls, ligulls iovolucro sesquullongloribus flavb basi atroparpurels, adienlis...

Hab. In CDIUB derelictis LUmil soperioria In via inter *Damuoum* el *Beyrout*. Legl flor. Mail floe.

Folia radcalia cum petiolo basl late dllataio 6-9 poll, longa M *Kfl* poll. lata, canles 4-4 $\frac{1}{2}$ pedales, capitnla vix minora eis *Sc. Etspamea* cul el &. *cnspatula* affinis est et a quibus dlstinguitur foUonun formâ, pbyllls regulariter imbricatfai et ab Infflate ad suprema sensim auctiB, ligulls basi atrorubris etc.

SGOBZONBBA HADioosA Bolss. In Kotsch. pi. Pers. bor. 4846. (Sect. *Gdana?*)

Se. rblromate craaaodenslssimfe caspUoso, follis omnibus radlcslibus coDferUsslmis brevissimè puberulls canescentibus angyUssbnè llinearibus fleiDosis pleribusque integerrimis paucls plnnatlobatls lobis HnearlbDB brevtslmU, scapls gradlibus folia aequanllbua vel èduptt longloribus, napltolis parvls, Involucris obconlel pbyllls tenulter pnberuUs trlangulâi-lanceolatfai ab Inferloribus ad superiores elongatto anguatâ membranaflelsacutlusculs, ligulls subttia rabellifl, pappl (Junlorla) setla aplice glabellls.

Hab. in glareoals alplum, *Batartschal* in paite occidentah montia *Elbrus* alt 40000' (Kotschy).

Folia 4-4 $\frac{4}{1}$ poll, longa canattculata llineam aut vli ampliôa lata, capltuia fillh So. *pygmeo* fere minora. SpecU» tanllun flonfera nota, a *Podospermo mmo* cul folUs nonnullis pinoallobls accedlt dlsincU

rhizomate crasse cespitoso folus capitulisque mult6 miDonbus. Pappo immaturo quidem sed qui supernè seaber videtur inter *Gelamu* propè *Sc. pygmaeam* et *ng% d < m* diversissimas jnilitare videtur. Forsao *Po-doaptrmt* spec., sed hoc genus minimi naUirate est et In posterum rursta *Soorztemera* conjungendum.

SCOHZONEBA HACKHELIANA Boiss. (Sect. *Gtlana*.)

Sc rhizomate lgnoso csespltosè compacto, foliis adpressiBBimè to-meosis canu brevibus llineanbus obtusls rigidulls subcanalliculaUs margioeque subimdalatis glabris, scapls folus paulb longioribus monocephahs, capitulis parrts, involucln tomentelll canescentls pbyllis paucls erecto-patulis ab loflmis tnanguIaribuB ad Intenora lanceolata elongate omnibus acuminatis, flonbus paucis, llgulls subtùs rubris involucrum pauld superantibus, acbenlls...

Hab. in editissimis jugis *Mackmel* Libaol. (Boiss.)

Folia 9-42 lin. longa 4 \%--% lin. lata. Scapi 6-48 lin longl, capitula **illis** *Sc. pygmea* minora minùsque flonbunda, buic afflnis sed sat differre videtur iDdumeoto adpressè tomentoso nee birtulo, foliis abbreviaUs ngidioribus, involucln phyllispaucioribus acutioribus. & *ngtda* afflnis quoque a nostrà dlffert collo valdè squamoBO, foliis erectis nee expansls angustionbus mult6 longionbus supentfque attenuatis margine non undulatis Forsan *Sc. tommtosa* / *hneans* DC. Prod, a *Sc. tommtosa* L descriptione diversissima ad *So. MaaktMlumam* spectat.

SCOHCNBBBA gNBBA Bolss. in Kotsch. pi. Pen bor 4846. (Sect. *Gelasta*.)

S. tota tomeuto tenuissùno densissfmo clnerea, caulibus elatls tere-tibus Btriatls fohosis supernè remotiusculè camosis ramto strietls monocephalis anguste et elongaiim racemosls, foliis integerrlmlB parallelè 5-6 nervils inferlonbus linearibus vel oblongo-lanceolato superioribus basl rotundatâ acuminatis summls angustè linearibus, Involucric squamiB adpressè erecto-patulis serlceis omnibus subsquUongls angustè hoean-lanceolatls acuminatts, ligulls concoloribus Invdlucro paulb longioribus, achenns Junioribus glabris, pappi setls basi taitòm plumosis.

Hab. in declmbus grannosis ad radices montis *Dmummd* prope pagum Ask Kolschy N" 374

- Pulchra species caule sesquipedali longè et racemosè 3-4 cephalo, folia inferiora 3-4 poll, tonga 4-6 HD. laia, rami cauh adpressi subbipollicares, involucrum 6-9 lineas longum. Affinis *Se. Ancgntana* a qua differt indumento hirtulo, foliis ovatis vel oblongis, floribus breviter pedunculatis, etc.

TRAGOPOGON KOTBOBTI Bolss.

Tr. glabrum multicaule caulis floribus cylindricis virgatis foliolis simplicibus erectis elatis, foliis inferioribus angustè linearibus graminibus plicatis subquinenerviis longis, intermediis a basi elliptico-oblongis longissimè acuminatis summis linearibus acuminiatis, caule sub capitulis subincrassato, involucris pbyllis 8 glabris lanceolatis acutis flores extiores subsquandibus, achenis marginalibus albis obsolete squamoso-tuberculatis supernè sensim et modicè attenuatis, parte attenuata semel ipso breviori, pappo sordido achenio breviori.

Hab. In grammosis ad radices montis *Demawend* propè *Ask* et in alpinis occidentibus montis *Elbrus* N° 37S et 7S3.

Planta 4-1 4/5 pedalis, folia inferiora semipedalia 4-4 4/1 HD. lata, caulina 3-4 lineas lata abruptiusculè et longissimè acuminata, capitula magnitudine *T. brevirostris*, achenia 8-9 HD. tantum loqua quo characteribus specie affine sed distinctum caulibus simplicibus, achenio apice tantum angustato nec rostro manifesto donato

TRAGOPOGON AGANTHOGON Boiss

Tr. glabrum, radicis collo vaginato, caulibus terribus erectis simplicibus vel supernè parè ramosis foliosis, foliis angustissimè linearibus plicatis gramineis longè attenuato - subulatis quinqueerviis, supremis brevibus a basi oblongè subulatis, capitulis pedunculatis foliosis suffultis, involucris demum glabris pbyllis circ. 4 lanceolatis subulatis per anthesin erecto-patulis corollam brevioribus fructifera adpressis, acheniis acutè heptagonis ad angulos achenis ascendentes obsitis ad bases submuricatis in rostrum elongatis breviter attenuatis, pappo sordido achenio breviori.

Hab. In monte *Totthal* propè *Teheran* Kotseby N° 69S. Hoc etiam probabiliter spectat specimen florifera sub N° 81 ei boribus graminosis ad *Teheran*.

Habitu foliisque angustis simile IV. *Koehyi* sed folia caulina basi

vu dilatata, involucri plunfolium et acbeuia validiora acutè angulata aculeataque nee teretia lsviuscula.

TRAGOPOGON OLYMPICUM Bolss.

Tr. glabrum basi simplex vel pluniceps, collo membranulis petalorum vetustorum stipato, rhizomale tenui verticali elongate, canaliculis pumilis infernè densiusculè fohosis, foliis inflexis linearibus caeteris a basi latioribus longè attenuate rectis vel incurvis magne sspè cuspis omnibus plunnervibus costis mediâ labor! albidâ, capitulis mediocribus flonfi'ris stellatis patentibus, involucri pbyllis 8 infernè albotomentellis deorsum glabrescentibus lanceolatis subulato-acuminatis ligulis luteis concoloribus paulo brevioribus, acbeniis brevibus teretibus striatis acutè squamelloso-raucatis his rostratis brevibus sensim attenuatis ad pappi basin lomentellis, pappo rufescenti achenio subaquantis.

Habitat in pascuis siccis montium Anatolix, *Olympe Bithynica* (Boiss.), monte *Daoras* Pisidiae et *Anemas* Lycaoniae alt. 6000' (Heldr.). Probab quoquè hinc spectant Specimina florifera e monte *Toltschal* Persiae borealis Kotschy N° 591. a. b. et c.

Gaulibus 3-4 raribus 6-7 pollicares, folia 14;*-9 poll, longa Intermedia infernè 3-5 lin. lata, capitula magnit. Tr. *ptuill*, achenia 6-7 lin. longa Afflorescentia praecedenti sed diversa caule pumillo, foliis brevioribus, acnervis non acutè angulatis. Habitafine quoque Tr. *puaillo* MB. mihl quoad fructus ligoio sed hoc certè differt radice lobulata oblongum in femore attenuatâ nee tenuiter cylindrica, foliis angustibus et multo longius linearibus capitulum aequantibus.

TRAGOPOGON f. AUSTRIACUS Boiss.

Tr. pumillura, rhizomate tenui verticali, collo panis vaginato pluricelluloso foliis omnibus a basi linearibus plurinerviis patulo-revolutis pithacis margine undulatis et sub lente tenuissimè deatculato-scabrida apice attenuatis radice acheniis confertis, canaliculis paucis abbreviatis, caulibus monocephalis folia vix superantibus apice non densis, involucri pbyllis 8-40 lanceolatis acuminatis ligulas concolores flavas Donoquibus, acheniis acutangulis ad angulos breviter squamoso-duratis in rostrum eis subbrevibus abruptè attenuatis, pappo sordidatissimo nchenio multo longo

Hab. In *Patattm*A loco non notato. (fiolas.)

Planta 9-5 pollicaria, folia majora 3 poll, longa 3 lln. laia raid* revolata, capitula magnlt. TV. (*Hymnid* etpumptff, achenium drc. 6Hn. longum. AIBDB 2V. Ofympum quod statlm dlgnosdtur folls e basil a-
tlori altenuatis, acbenlls non anRuiatin et TV. *acanthocsrpo* quod dl-
fert cauhbns elatforibns ramosla, follla Integerrimto, acbenlls ad angu-
loa loDgftiscnle aculeatb ID rostrum crassus brevlua aenalm nec abrupte
attenuate.

TRAGOPOFOPF NEVOLOSDIF BolSS.

Tr. pardadaii floocosum tandem glabrascens giaocum, rhhomate
teoul elongato subrepentl nudo, caule hamlll Inferne densft folloso
simpllci vel ramulo aucto sab capltalo pauinihm Incensaato, folls om-
nibus a baal Hnearibus plicatls flexuoals margine Integenimo criapnlla
rlgldlusculls eleraLlm multiDervlis nervla albtlds aplce setaceo-attenua-
tls aaipè clrcinnalls, Involucrl pbyDls 40 margine subunduhlla lan-
ceolatw acuminatls lipnlas concolores flaw subsqnantibus, acbefriis
aubaugulatla striatls obsoletè squamoso-mniicaHs aplce scnslm In
rostrum els brevlus aitenauatis, pappo sordldo achenium aquanli.

Hab. ID Libano circa *Edm.* Leg! Julio 4816.

Planta 6-9 pollicaria, folia Inferior* 3-4 poll, longff, 1-3 lln. hta, lo-
volucrl frucUferi phylla sesqupolHcem longa, achenlum cum roatro
9 lln. longum. A *Tr. Palattino* bellè dlatnguitur folls margine late-
gris eviderentalbo-nervosis.acheDlis longioribus ohsoletlùs aculralte
ID rostrum brevlus et crassus sensim atteouatls.

TBAGOPOCON CfIBxiavuAGini Bolss.

Tr. glaucesceDS pnmlum, rhhomate tenni cylndrlco, coDo plurld-
plti vaglnls petiolorum Btlpato, folUs densè rosulatis e basl laUori plo-
riuervi longfe et tenolter Uuari-subulaUB canallcidafu recurvla marg-
glDe parcè bnaio-blrtnUs Integerrlmls, caulibus scaptformttMis folia
vlx superantibus aplce flstuloso-sublncrassatls Infernè folio nno alte-
rore obsltis, iDTolncri pbylls 5 loDglsslmis longè lanewùlo-subulatls,
achenlls leretibus striatls acutè aquamelloao-muricatls In rostrum da
paulo loDglòs atteaata, pappo sordldo achento brevlorl.

Hab. In Incullis *Crieiyria* uW legl fruct. Aug. 4846.

Caules 3-4 poll., Involucrum 48-10 lln. longum, acbealum 6 lln. ros-

trun 7 lin circ. longum sub pappo iterum breviter clavato-incrasatum
Species foliis radicalibus a basi 2 1/8-3 lin. tantum latA tenuissime II-
nean-subulatis insignia fohatione *Stipam tortilem* refrens. involucro
pntapbyllo affine 2V. *cronfoho* quod differ! collo lanato, foliis basi
non dilatatis, acbemis rrasioribus brevionibus ID rostrum eis dlmidiò
brantis attenuates etc

TAK&XACUH PSYCHBOPMILUH Boiss in Kotsch. pi. Pers bor. 1816.
(Sect *Breviroatna*)

T. glaberrimum, rhizomate verticali brevi, rollo membraois fuscis
veslilo, foliis omnibus radicalibus patulis angustè Hneari-lanceolatis
lafeniè attenuatis integra vel parè et obsoletissimè deoticulatis, pe-
dancuis folio brevionibus, capitulis parvis, involucro hvescentibus pfallis
omnibus adpressis glaberrimis inferioribus dimidiò brevioribus omni-
bus breviter membranaceo-mucronatis, lignite brevibus concoloribus,
acbemis lxxiusculis supernè subaitenuatis pappo niveo eis aqu^{iA}ngo
ternunatis.

Hab. propè lacum in alpidibus *Hasartschal* partibus occidentaliB montibus
Elbrus Julio. (Heldr)

Habitus, folia angusta Integra et capitula parva *T. alpini* et *palustris**
quos fonois *T. jfliemalu* adnumeranda sed ab eis distinctissimum acbe-
niis attenuatis nee rostratis Accedit ad *T. Btihynticum* DC. quod differt
foliis magis dentatis brevioribus, capitulis dimidiò brevioribus, scapibus
lanatis, pappo brevioribus.

CHONDMLLA AGAKTHOWPIB Boiss. in Kotsch. pi. Pers. n. 4846.

C. rhizomate duro tortuoso pluricaulis caulis elalis tenulter striatis
basi spiralem setoso-aculeolatis caeterum glaberrimis glaucescentibus
parce foliosis a medio ramis aaima rarus strictis vlgatis lengfe-
simibus, foliis glabris glaucescentibus linearibus subbranchnato-pinnatifidis,
lacinis triangularibus caeterum imegerrimis, caulibus linearibus,
ramis linearibus capitulis parvis subsessilibus ad partem
superiorum ramorum solitariis vel J-3 in fasciculos dispositis, calycibus
minutis squamis triangularibus acuminatis, involucris phyllis lanceolatis
angustè albomarginatis sub lente parce pulverulento-tomentosis
seeds nervum medium setis aculeiformibus flavescens sparsis
obtusis, rostro acbeoim striatura superòè muricatum subcognantibus.

Hab. ad radices montis *Demawend* Kotschy N° 609

Gaulis elati tripedales, folia intermedia $\frac{1}{2}$ - $\frac{4}{3}$ poll, longissima. lala. Habitus et capitulorum magnitudo *Ch. juncea** quae differt foliis glabris, involucri phyllis aculeato-setosis nec glabris

LACTUCA BASSICAFOLIA Bolss. In Kotschy pi. Pen. bor. 4846 (Sect *Scanola*.)

L. glaberrima glaucescens perennis, caule ascendente elato tereti tenuiter striato supernè palule ramosissimo ramis apice dichotomis, foliis subcoriaceis argute denticulatis radicalibus caulinisque infimis indivisis ovato-oblongis in petiolum brevem attenuatis vel sublyratis segmentis lateralibus 9-4 parvis terminali ovalo, caulinis ovatis parvis aunculaformibus seculibus ovatis basi cordato-amplexicaulis anriculis rotundatis, capitulis ovalibus brevissimè pedunculatis seorsim ramulorum extremalem 3-5 laxè dispositis, pedunculis ramisque breviter glandulosis, involucri phyllis glabris pallidis ab inferioribus triangulano-lanceolatis ad intima lanceolata sensim auctis, flosculis hitescensibus exteriorebilibus bivalvium non superantibus, achenio iuxta tevi compresso oblongo-lineariter utrinque sub 5 striato, rostro tenuissimo acutissimo multo breviori, pappo niveo achenio paulo longiori

Hab. in schistosis montis *Elbnu* prope *Derwend* Kottch. N° i « , in Persia Auct. N° 486.

Gaulis infernè pennifolius anserifolius crassior bipedalis, folia laeviora f-3 poll longa 4-4 4/3 lala, capitula inter ea *L. sylvestris* et *L. perennis* magna media ovata, achenium in 4 4/3, rostrum lineis 4; Alongum Species distinctissima prope *L. polycladam* collocanda

LACTUCA CAULOIDES Dolss. (Sect *Scanola*.)

L. blanda, caulibus glaberrimis albis tenuiter striatis supernè nudostriniis ramis dichotomis ramulisque elongatis striatis petiolum gateniem lazam formantibus, folia pallide virentibus margine denticulato-spinulosis subtus ad nervum medium acutatis ceterum glabris infimis basi attenuatis late linearibus indivisis vel pinnatifido-racematis, superioribus a basi latissimè rotundato-auriculato-amplexicaulis ovato-oblongis acuminate-attenuatis plus minus lobatis, capitulis subsessilibus pedunculatis oblongis parvis, involucri pallide livecentis glabri phyllis ab infimis triangulatis ad superiora lanceolata sensim

auctis, flosculis Davis involucre duplò longioribus, acheniis dentura atrorubris eUiptico-linearibus utrinquè attenuatis compressis multistrutis apice subscabundis rostro eis aequilongo vel subbreviorl terminatis, pappo caducissimo.

Hab. In alpe *Kuh Delu* Persia; australis Kotschy N° 506 et 506 a et in monte *Totsohal* Persia borealis Kotschy N° 556.

Planta 2-3 pedalis folus et habitu *L. scanolam* omninò referens que eximiè differt ligulis involucri supra superanibus, achenis minoribus minus compressis scissuram nec 8-? Aji lineas longis rostro eis longiorl nec breviorl terminatis, pappo non caduco

ZOLLIKOPFIA TVNULOBA BoISS

Z. annua glabra glaucescens, caulibus a basi dichotomè divaricatis ramosis, folia radicalibus elongatis linearibus pennatis linearibus denticulatis lacinis longis linearisectis integris albo-macronulalis, caulibus superioribus triangularibus aculis dentatis basi articulatis auriculis minutis obtusis denticulatis flosculis, capitulis longiusculis pedunculatis laxè corymbosis, involucri glabri phyllis pallid* liventibus adpressis imbricatis ovatis albo-acuminatis interioribus lanceolatis, ligulis subtus discoloribus, achenis linearibus subquadrangulis tenuissimis multistriatis exterioribus minutissimè puberulis interioribus glabris fissilibus, pappo achenium besquanti.

Hab. *Maratna petrea* Palastina contermina (Bolss.) In Syria Utterah propè Tyr (Pestalozza).

Species a *Z. mveronata* Boiss. earundem regionum onandit distinctissima caulibus a basi dichotomè ramosis nec a medio paniculatis, foliorum divisionibus primariis longis tenuibus integris nec iterum pennatis, ligulis subtus discoloribus, achenis quoque magis striata evidetur. *Z. ahondnlotdes* noslis habitu magis affinis differt rhizomate perenni indurato, phyllis inferioribus obtusis, achenis 4 striatis, etc.

CYMOSEBIS Bolss.

Capitulum multiflorum. Involucrium basi breviter calyculatum phyllis subanthesi plantis emittit post anthesin dorso valdè incrassato inflatis

induratis spongiosis extbs carinato-convexis tolàs cymbifonnibus. Becepiaculura nudum. Acbeaia disslmfla disci calva compressa latè blalato-subtnquetra fade exteriori sensim prominent! cannata interior! convexa subcymbiformla Involucrl phyllis aretè iDcumbentia. Achenia radii cylindrica striata a basl subcalloso-incrassatt cavfl ad apicem usquè seoslm subatteouata papposa. Pappus pilosus albus mollis tenuisslmia mulhsenalfs aebenio brevior persiatens. — Herba annoa Palss-Una facie *Phacasu* sed omnibus partibus major.

Genus a *OnpOe*, *Endoptera* geaenbus afDnibus acnemls exterioribus calvis compresso-blalatl exlùs tnquetns mlAs conveus nee ut In *Crqnde* confonnibus cylindnew nee ut in *Endopttra* intus unlalatis nee ut lo *Ptmrothee* intus 3-5 alatis receptaculoqae omniab oudo dls-UDeUssimum.

GTHBOBBEU PAuranNA Boiss.

C. annua brevisumè papillari-birtula, caule erecto tereli folioso so* peraè ramoso corymboso-paniculato, folus Ixtè virldibus teoerls inferioribus In poiolum attenuatis rancinahs lycalis segmenlls lateraliibus parna ovatl trlaogularibusve terminali maximo ovato obtuso basl subcordato grössè et acutè lobato-dentato, foliis fntermedlls roneinato-lycalls medio angustatis basl-dilatato-amplexlcaulibus, superioribus e basl latè et rotundatlm cordato-ampleucauli ovatis vel oblongo-lanceolata acumlatis, ramels e bast hnean setaceis, capitulls peduoculis longw erectis nudis suffultis, calyculi squamls 6-6 ovatis acutis albomarginatB adpressla Involucro quadrupl6 bro\lonbuB, involucrl pbylls subbiseriallbus aqullongiB sub antbesi lineanbus glabrft pallidis aplice obluais dUatulis fructiferis dorso valdè spongioso-incrassatl albis, Ugulis intensè flans concolonbus involucro sesquullongloribus.

Hab. \u umbrosis Palxstinx, in *Qrnnelo*, monte *Ithabun*, prov[^]. *Samaria*. Legi Apr. et Maio.

Planla M *ijt* pedalls, folia Inferiora cum petlolo 7-8 poll, longa, segmeotum terminale 3-3 4;S poll, longum 3 et ampllàs Jalum, segmenta lateralla utrinquè 2-3 a supenoribus 6-8 lin. longla obtuais ovato-oblongls ad Inferiors trfaogularia acuta dlmlnuta, capitula Ulu *Or*. Wennw paulò mtaora, involucram fructlf. 6-7 lla. longum. Achenia radii 4 lia. circ. longa al» ulrinque semlnl compresso squllatis, dtoci 3 4/1 lin. longa angustlwiraiLpappo % Un. longo superala.

PSAMMOSKRIS Boiss et Heut.

Capitulum multiflorum Intolucrum uniseriali basi squarais paucis calyculatum phyllis immutatis Receptaculum nudum foveolatum. Actaeola exalata subcompressa subobovata rostro setaceo albo eis quadruplo longiori terminata Pappus multiserialis pilosus albus apud subincrassato rosae insertus deciduus — Herbae arabicae et Arabicae arenicolae

tenens a *Barckausia* non distinctum achennis brevibus subcompressis nec teretibus cylindricis, abruptè in rostrum longissimum album nec ex acbeoii subsiliis ortum attenuatis

PSAMMOSKRIS Boiss et Heut

Perennialis sub lente parce et brevissimè hirsuta, foliis rosulatis lanceolato-linearibus acutis pinnatifidis dentatisve lobis triangularibus argutis margine parèe denticatis, caulibus multis ascendentibus scapiformibus foliis vix longioribus simplicibus vel a medio ramosis 1-3 cephalis foliis 4-2 linearibus vel linearibus setaceis obsitis, capitulis mollioribus subcylindricis pedunculis sens brevibus pediculis obsitis vel glabris, calyculo involucri quadruplo brevioris, Involucri livescens phyllis connatis anguste nigrescentibus raris hinc lanceolatis obtusiusculis dorso serie simplicibus aculeolato-setulosis, ligulis extus rubellis Involucri paulo longioribus

Barckhausia senecioides Spr — *Oreopogon senecioides* Delile Mg. tab. «, fig 2

Hab. in arenosis Aegypti circa *Kahram* (Del.) In palmetis ad *Saekara* (BOISS)

PSAMMOSKRIS ARABICA Boiss et Heut

Perennialis sub lente brevissimè setuloso-hirsuta, foliis rosulatis oblongis argutè denticatis pinnatifidis partibus segmentibus parvis ovatis saepe parèe denticulatis, caulibus pluribus ascendentibus a medio subdichotomè et breviter ramosis 3-7 cephalis foliis 2-4 pediculis longioribus, Folio caulino inferiori saepe pinnatifido reiiquis mollioribus settedis, pedunculis glabris hirsutis, capitulis medio longioribus, calyculo involucri

tnplò breilori, involucri pbyllis connitenlfbus lineari-lanceolalis ob-
tDslusculls brevislraè getulis albis nignsque bfrtellfs, ligulls lutetr
concolonbus in\oluura paulb superantibus.

Uab. in arenosis *Arabia petrea* Palestinam verstis. Legi Apr 1846

Folia |-\| *ifl* poll, longa, caules 3-4 pollicares, capitula illis Sp
pnecedentis majora, involucri pbylla 5 hn. drc. longa. A pncedenti
distincta folns abbrevialis, caullbus ramoslonbus aplce glandulos,
icvolucro deosiusculè hlrto. Habitus *Lagoanidu Nemauseruis*.

GBBPIS Curie* Boiss (Seel. *BareJduuma*.)

Cr. annua breviter birtula, folns omnibus radicalibus obovatis obso-
letè denticulatis vel pionatifidis, cauibus numerosis setaceo-filiformi-
bus ascendentibus simpliibus \el parce ramosis glabns, capituis mi-
nimis longiuscule pedunculatis, luvolucn sqoamls acceBEoms 3-4 bre-
visslmis setaceis, phyllis glabns vel dorso setulosis fructifens patulis
Bubinduralis canahculatis doreo obtusè carlnatls, achenlls oblongo-lan-
ceolatis stnatis apice in rostrum eis duplo brevius attenuatls, pappo
valdè deciduo acbenlo breviori.

Hab. ID *Ortti* undè retulit cl. Prof. Haulm.

Barekavsta Cretioa Boiss in Baubn pi. Cret. exs.

Plaiitula S-3 pollicans, capitula eis *B cernua* ferè minora, Involucri
pbylla vix ultrà 8 ho, longa. A *B. eernud* achenlls rostratis, a *B. leo* t-
todontoide Bcñb, folns non elongalis, cauibus brevisslmis achenlls
dunidl6 brevioribus distincta *B. Suffrenuma* rostro acbenium aequanti,
B. belltdifolta caullbus crassforibus capituis plus duplo majoribus dlf-
feruot. Species ex duobus speciminibus tantum nola ulterfids investi-
ganda.

CBXPIB SIKBBAI Boiss. (Sect. *Evenpu* DC.)

Gr perennis, radicle prsemorss fibrils c^llndrlds tenulbus elongalls,
coUo laoà rufescenti vestito, caule parcè pilosulo glabrove superae
laxè corymboBO-paniculato, foliis tenens l<tè vireotibDB sub lento se-
ebB coatam deusiös in utrâque paginà parcè setutoals radlcabhuB m-
ferloribusque petlolatls interruptè lyralo-pinnnatlpartiUs lobls latera-
IUM Dumerosis a superloribus ovatls angulatla subretroreis ad inflmoB
trlangabireB senglm dlmlnulls terminal 1 major! bad truncato vel sub-
«ordato-ovatoacutlusculo obsolete dentato, folio caullno ad ramum in-

fenorem silo snblyrato basi amplexicaull *extern* Hnearibus integris-brevibus, ramis pedunculisque gkuiduloso-«pnescenMbua, calycull squamis adpressls Inangulari-lanreofatis involucre quadruplo brevioribus, involucri puberuli phjllis lineanbus uniserialfbus acutls angustè albo-marginalia', hguhs intensè flavis concoloribus involucre duplō foogioribus, acbemis angulalis suJHBoerviis apice subauenuatte, pappo Diveo deciduo acbenn longitudinis

Crepts interrupta Sieb pi. Cret. exs. DC. Prodr. aon Sibth. Flora Grara

Hab in rupestribus *Attica*, *Argoldis*, *Lacontâe* (Bofss. Sprun.), *Creta* (Sieb. Helder), *Zacynthx* (Margot.), msuhe *Cos* (d'Urv.).

Species pulcra toto OEIO diversissima a verft *Or. interrupta* Sibth. tab. 308 qua* *Barckhaunam Zaoynthtam* DC. sistit.

CBBPIS HIEBOSOLYUTANA BOISS. ^*'t. *Euerepts.*)

Cr. perenius, radieis pramorsae fibns longis tenuibus eyllndiida collo glabro, caule imâ basi setuloso csterbm glabro supernè laxè cor rymboso-pamculato, foliia tenens latè virentibus ad rachidem subttis parcè setilosis Cateitm glabna radfcalibns petiolatis lyrato-pinnaU-partills raubide alafll Integra segmenlis lateralibus numerosis ovatorotuo-dis subidtegnis obtusis a superioribus ad infima dimiaulis terminal! a basi subcordaia ovalo-oblongo obtuso subrepano, fohis caulims infenonbus 4-2 lyratis basi dUataft araplexcaulibua totuadaio-aunculaiis, pamels linearibus abbrevlatls, peduocnlis glabris Td sub lente crlspulè et minutissfanè puberulls, calycull squamis lanceolatis acumlnalis laxiusculls mvolucro Inpl6 brevioribus, involucrl subfarinoso-puberull pbylls laoceolatis aogustè albo-margfoaUs aciitis, hgulls concolonbuB Involucro duplb longioribus, acbenllB sublncurvis angulatis subf 1 nemis supernè subaltenuatls, pappo nlveo dtō deciduo acbemis longiorl.

Hab. in rupestribus col ium circa *B\«T9*olymam* sitorum v. gr. in roplbus ad meridiem valhs *Htnnom*. Legi April.

Pedalls vel sesquipedalis, folia radcalla 3-4 poll, tonga segmeBta lateralia 4-6 diametro 3-4 lln lata, termnale polhcem circ. longom, panacula et capitula *C. Subni* cui babitu et characteribus valdè aCQals est et a quâ differt radieis collo noo Unato, follorum segmentis omnibus obtusis ferè integris rotundatia, calycuJi sqoaniis IODgloribui

acuminatis laxioribus inaequalibus, involucre et pedunculo pappi et
farinoso nec glanduloso-pubescentibus.

GBEPIS HoNGisau Boiss. et Heldr. (Sect. *Eucrefia*.)

Cr. perennis, radice perennans fibris tenuibus cylindricis collo
glabro, caulibus primis subaphyllis glabrescentibus inferne bifurcis vel
a basi pluribus et dichotome ramosis folia simplicia bipinnatifida, fo-
lulis teneris laevibus sub lente parvis setulosis runcinato-pinnatifida
subjunctis petiolatis segmentis lateralibus nervosis a superioribus
oblongo angulatis recurvis ad infima triangularia diminutis ter-
minall tantum simplicia majora a basi truncato-subcordata breviter ovato
obtusis integris, foliis caulibus squamiformibus, pedunculis longis pappi
squamosis superne minutissimis et crispule puberulis, calycidi squa-
mis breviter lanceolatis acutis involucre triplici brevioribus, involucris
minute glanduloso-puberulis pappi uncinatis acutiusculis, ligulis in-
tense luteis «concoloribus» involucre duplici longioribus, acenulis sub-
incurvis sub 4-6 bracteis utrinque subtenuatis pappo calice deciduo
brevioribus.

Oreopanax affine var. minor pi. Gret Heldr. 4847

Hab. In quercetis montis Ha supra Foma alt. 3000-4000'. (Heldr.)
Folia 1-4 poll., longa segmento terminali 5-7 lin. longo ceteris mino-
ribus, caules cum pedunculis 4-6 pollicares, capitula nuda. eonim
Oreopanax affine est et a qua caulibus pluribus a basi bifurcis sa-
piens ramis pleiocephalis inferne glabris nec setulosis, foliorum lobo
terminali alio vix majore, radice collo glabro, calycibus squamis acu-
tis, etc., sat differre videtur. Hancerronee primum retuleramus
ad speciem sequentem diversissimam -caule «brevi ramoso, foliorum
segmentis acutis, involucris triplici phyllis dentatis dorso induratis.

GBMB *Besleria* Bolss. (Sect. *fucrispfe*.)

Cr. perennans, radice perennans fibris lenibus cylindricis collo gla-
bro, aubus erectis inferne glanduloso-bracteis ceteris glandulosis
pappi supra basin dichotomae et stricte ramosae laxae corymbosae panicu-
latae, folia ferè omnibus radicalibus plus minus presertim ad costas
pubescentibus glandulosis petiolatis rudiculis inato-pinnatifidis lyratis seg-
mentis «brevibus vel triangularibus acutissimis integris terminali
basi truncate triangulari alio 1-3 poll. majori, folio cauliculis

truncato-linearibus integris, pediculis elongatis glabris nudis, capitulis hemisphaericis, calycibus squamis triangularibus lanceolatis acutis albomarginatis involucri quadruplo brevioribus, involucri glaberrimis angustè linearibus floriferis Inescentibus angustè albomarginatis fructiferis dorso ad tertiam vel dimidiam partem usque nervum medium elevatum rotundato-cannatum spongiosè incrassatis, ligulis laevibus concoloribus involucro sesquialongioribus, acerbis cylindricis reclis sublobatis supernè vix attenuatis pappo multo demum deciduo et paulo longiori coronatis

Hab. in montibus dumosis Anatolise, *Smyrna* In montibus supra *Sidar* (Boiss), in fauce *Tsimboukkan* Pamphyliæ (Heldr.), in Antilibano circa *Bascheya* (Boiss).

Folia 3-5 pollic. longa 6-8 lin. lata folia opposita fere quodammodo reflexa, caulis 4-14/3 pedales. capitula rariore Or *Steben* In et duabus precedentibus affinis sed distinctissima foliis indumento viscidulo obsitis, segmentis omnibus acutis demum denatis, caulibus subnullis vel rariore hinc, pappus non ut in eis fructiferis immutatus sed nervum medium ut in *Pha-oasio* et *Cymbosende* spongioso-incrassatis

Var. *β*. — Pedunculi supernè involucrique pubescenti-viscida. 4

Hab. in regione media Hermontis supra *Bascheya* et *Gebel Baruek* Libani. Legi Aug

CBEPIA SIBTHOBPIANA Boiss. et Heldr (Sect *Euerepis*)

Cr. caespitose nudo indurato ramoso caespitose, fere omnibus radicalibus breviter puberulis obtusiusculis raris acutis oblongo-lanceolatis dentatis vel runcinato-pinnatifidis segmentis triangularibus acutis retrorsis lemina paulo majori triangulari acuto, caulibus nanis puberulis stantibus rigidis crassiusculis fere paulo superantibus supernè Alternantibus 2-4 cephalis ad pedunculorum insertionem inflexuosis, pedunculis fere horizontalibus crassis capitulo subbrevioribus basi fere lineari-fetaceo suffultis, calycibus squamis adpressiusculis linearibus involucro albo tomentello triplo brevioribus, pappus tafiuaculæ elliptico-linearibus obtusiusculis seeds lineam mediam nigrescentibus margine albo-membranaceis, ligulis subtus rubellis, acerbis sub *M* sphericis cylindricis reclis basi et apice obsolete attenuatis pappo multo et squallido superantibus

Or. dnoanoata Var. *cantteeru* pi. Crct. exs 4847 — *Hitraomm fatidwn* Fl. grac. tab. 799 DOD Willd.

Hub. In aaxosis montium Spbacioticorum Trots In moote *Stravopodia* (Heldr) alt. 6000' (Sibth)

Planta 3-5 polluc, folia 1-4 poll. circ. longa inflma minus profiindē dentata, canles snperaē ad pedimcuos alternoa exlmle angulato-flexuofill, peduaculi craBsl 3-4 Hn. longl, capitals magnlt. eorum Or. 2V*-*caensis* Primnm retuleramuB ad nostram *Or divaneatam* qua aocnratlt» comparata dtffert follis longlonbus prorundlfu et acntffis pinnatls pnesertim caullbna dirarlcato-ramoslsslmia, peduaculis 4-1 polUcea loogis, iDvolucris phyllis aogustloribus pared puberulis aplice masiB attenuatis. *Htw. fatidum* WHld.—*Orepa fctens* Fralieh in DC Prodr. of, planta Annena direrslssima

CBKPIB MACAOPUS Boias. et Heldr. (Sect *Euorepts.*)

G rinzomate crassiusculo nudo, collo BqnamoBo, follis radicalibus ad costam partisslmfe Wreutls petiolatia rundnato-pionatiparttlls acumlnabs segmentis omnibus retrorais lanceolatis acutis integris vel denticulafis, canHbus poberulis Bimpliclbua rel ad medium aemel vel bis bifurds 4-4 cepbalis, fbliis ad dicbotomias angus& linearibQB Integris, pedunculis longis rectls squamulla Beiacets panels obsitla, captulla nedlocribuB, calycull squamis lieari-lanceolatis numerosis Insequallibus adpressiB, involucris phyDis dense farf noso-tomentosls lanceoiato-Itnearibus acutiusculis, ligulis flavis concoioribua involucro sesquillon- gloribus, acbenils sublsstriatis cyUndncis recUs apice vix attenuatls pappo nlveo eto longion superatls.

Or. divaneata var *longipe* pi. Heldr. Anat. ex*. 4816.

Hab. In collibaş aridis Lyeaonlse ad occidentem urbis *Kontah Beyehesr* versus (Heldr.)

Planta 8-9 poll, lpnga, folia blpolHcaria, pednneull 3-4 poll, longl, captula panl6 majora els *Or. diwrioata* et pracedentls a qnibUB d— lint follorum segmentls longioribus, peduoculU longlaatmls, Involucro Tildē arinaceo-tomentoso, calycull squamls mimerosloribuB

CaRPis ATHOA Bolas. (Sect. *Euorepis*)

C. per<mnfl, rblzomate caespitoso, collo valdē Bqnamoso, follis radialibus hneeohhtsacutla In peilolum aetulosnm longē et angntē atle-

nuatis caulis glabris lucidis laetè irregulariter et remote
dentatis dentibus brevibus Inangularibus acutis, caule tenui erecto
folia multò superantibus Bupernè d'holomé 8-4 cephalo pedunculis longis
rectis parvis Hæan-squaraulosis, foliis caulibus I-J longè et angustè
linearibus integris, capitulis medio-lateralibus, involucri brevissimè far-
noso-tomentelli squamis accessoribus paucis triplicibus brevioribus lineari-
lanceolatis phyllis nigrescentibus linearibus obtusiusculis angustè albo-
marginatis, hinc palidè flavis concoloribus involucri sesquiangulo-
nibus, achenis subangulatis distichis utrinque vix perspicuè atte-
nuatis pappo niveo pauciseto eis paulò longiori terminalibus exterioribus
subincurvis.

Dab. In rubris montibus *Atkonu* (Aucher N° 3877, Friw.)

Folia cum petiolo ferè (ripollaria 1-6 lin. lata, caules MMS poffic,
capitula magnè *LeorU* hostility Species distinctissima ex affinitate
Or. croctifolus Boiss. et fieldr. quæ differt foliis angustissimis integris,
achenis linearibus apice valdè attenuatis, etc

CRKPIS HAOLINI BOISS. (Sect. *Euorepis*)

Gr. peronals tota sellis Bparksalmis glandallferia parvè obrita, rami-
zomate incrassato duro cespitoso, foliis omnibus radicalibus vix
oblongis in petiolum attenuatis parvè et remotè repando-denticulatis,
Bcapis monocephalis folia paulò superantibus squamis paucis setaceis
obtusis, capitulis mediocribus, squamis accessoribus paucis lineariseta-
celis adpressis involucri dimidiò brevioribus involucri phyllis angustè
linearibus acutis præter pubem sparsam brevissimam farioaceam setu-
lis glandulosis paucis obtusis, ligulis flavis concoloribus involucri viz
Besquillongloribus, achenis..., pappo niveo.

Hab. in *Creta* nunc retulit et mihi comm. cl. Dr. Baillon.

Planula mihi ex unico specimen nota specimen parva *Senola lam-
gata* quodanimodò referens, folia pollicem aut paulò arapliis longa 1-5
lin. lata acutiuscula acutè breviter et parvè dentate, scapi radicea bi-
polaris, capitula magnè. *Or. divanctæ* cul accedit sed a quâ distinctis-
sima.

CBEPIS ELBUTBENSIS BOISS. in Kotsch. pi. Pen. bor. 1846. (Sect.
Heteraouht.)

Gr. rhuomate (Uniformi nudo, foliis rotatis conteris pills albis

brevibus densè biris abbreviatis petiolalis lyrato-plumbeis segmentis subretroscis oblongis triangularibusve parvis iterum sèpè argutè pinnatifidis integral e-terminali majori oblongo argutè et remote denticulato obtusulo breviter mucronato, canalicibus glabris folijs 2-3 plb Buperantibus semel vel bis divaricatis bifurcatis pinnatis squamulam inter deam ad dichotomiam sitam nudis, capitulis mediocribus pedunculato longo supernè nigro-glanduloso suffultis, calycibus squamis ovato-oblongis acutiusculis involucri brevioribus, phyllis liviscentibus præter pubem brevissimam farinaceam seeds lioeam mediam glanduloso-setulosis, liguibus flavis concoloribus involucri sesquilogloribus, achenis rectis circumscissis 1S-15 striatis obsolete attenuatis pappo meo caduco eis breviter superatis.

Hab. in loco *Char Gerdene* dicto propè pagum *Asadbar* in parte occidentali montis *Elbrus* Kotschy. N° 471, Aucher N° 4865. Hinc quoque spectare videtur Kotschy N° 676 e monte *Totechal* (forma major).

Folia rosulata pollicem vel sesquipollicem longa, caules 3-4 pollicares, capitula magn. Or. *Bxthynum*, involucri phylla 4 un. longa. Ex affinitate Or. *heterotricha* et *Btkynica*.

GMVIB BOBETIODES Bolss. (Sect. *Rieronou* Us.)

Cr. rhizomate cespitoso petiolis vetustis valde squamoso, Mils sub lente parcellis puberulis omnino glabris omnibus radicalibus oxipilosis linearibus interruptis plunatis racemose angustifoliate segmentis triangularibus vel linearibus oblongis acutis sæpè subretroscis valde runcuatis terminali oblongo acuto, caulibus numerosis scapiformibus monocephalis folia duplo superantibus squamulis unilaterave setaceis obsitis, capitulis minutis, squamis accessoris paucis angustè linearibus lanceolatis adpressis involucri brevioribus, involucri phylla parca et brevislime farinosa-puberula hinc hinc linearibus acutis, liguilla flavis subtis rubellis involucri sesquilogloribus, achenis subaogulatis multistriatis recis utrinque vix manifestè attenuatis pappo sordido eis aequilongo superatis.

Hab. in regione superiori *Hermans* supra *Bascheya* ubi gregariè creant alt. 8000-9000'. Legit flor. Julii 4846.

Folia caespitosa obovata vel ovata poll, longa ladnulis tenulibus 4 i; 9-S un. longis, scapi vel pollicares, capitula magnit. eorum *Robertice iaraacou* ut cujus. habitum oronice refert. Species pulchella.

HIKBAGIUU PEUSICLM Bolts. III Kotsch. pi. L'ers. bor. 4H46. (Sect. *Pttoselloidea*)

H. pallidè virons, rhizomale p̄remorso, caulibua Internè mlnobsslmè stellato-puberulis longlusculè el pareè setosis dein glabns apice densè et breviter stellato-puberulls corymbosis polycephahs, folds radcallbus oblongis integerrimis in petiolum breviler attenuatis utnquè aetls longis adpressinsculis e tuberenlo orbs obaihs caertam glabris, cauliniB 9-3 parvis linearibus remoba, corjmbo fastigiato, Involum phyllis DU gricantibus pube rufescenli duplci alteri stellatfl brevissimd alterft se- lulis clongatis constaDti obsilis.

Hab in fauce *Dudera* monbs *Elbrus* Kotsch. N° 488.

Plants habitu et obaractenbus *H. cymoso* et *echundt* valdè afQnis. Pnus dlflert folfls mioiis dense et longè setosis, capitolis mlnonbus, torynibo congesto Postcrlus liabet caulem densè follatum, IHTOIU- rrum albo-tomcDtosum etc.

CAMPANLLACEJ:.

TBACHKLIDU TUBULOSUM fioiss

Tr. caudlculis suffrutescenlibua brevibus fragillimis flhformibus sul- eoais caolea erectos pumilos csspitosoa simplices acutè angulato-sul- catos pareè scabridulos densè foliosos edenbbus, foliis oblongls ellip- tidsve basl in petiolum attanuatis acubusculis subiotegris vel supernè utrlnquè 8-5 denticulis mucronatis ascendentibus obsilis margine in- super ciUis ascendentibus valdè scabns subtùs ad nervos elevates abli- dos parcissimè setulosis ceterOm glabns lucidis pallidè vlrentibus subcartilagineis pellucidls, Ooribus in corymbum uunbelliformein mul- tiflorum folus supremis lovolucratum eisque subajquilongum conden- satis, pedicellis setaceis flon seqailongis, bracteolla nunutlstimis aeta- ceis pedicello mullo ties brevioribus, calycis glabn mbo bémisp̄nsrlco apice truncate latiniis a basi setaceis tubo snbdup(6 longloribus corollâ dimidlâ subbrevioribuB, corollâ (e sicco albidâ P vel carneâ °) glabrt la- iioscDlè Uibulosâ brevi lobis brevisalmis ovabs erecmucnUs, filamentls a 'basi tenulssimu, antbens lineanbus Oavis flamento dlmidf6 brevio- ribus, stylo glabro corollâ duplb longion apice in <igma> brevtaslBiè

puberulum brevissimè trifidum sensim incrassato, capsulâ triloculari
valvis 3 basilanibus dehiscenti

Hab. in partibus rupium verticalium calidiorum Syriae littoralis ad
Ostium fluvii *Nahr el Kelb* propè *Beyrout* ubi detexit et amc.
Dr. Peslizza et ubi post eum abundè Bed. flor. fruct. orbatum Julio
1848 legi. Planta verosimiliter serotina fine autumnali florens

Caules 3-5 pollicares, folia 9-18 lin. longa 3-folata, corymbis ses-
sile terminalibus foliis supremis vix longiores, corolla circ. 3-4; 2 UD.
longa limbo lata. Species insignis a reliquis generis habitu et corol-
lis brevibus latè distans sed characteribus et fructu optimè con-
gruens

MICHAUXIA TUYHOIDEA Boiss et Heldr.¹ ID pi. Anat. exs 4846.

M. perennis vel bleonis⁰ tota brevissimè tomentella canescenti, foliis
ferè omnibus radicalibus rosulatis oblongis vel oblongo-lanceolatis in
petiolum latum brevem attenuatis saepius sublyratis lobulis lateralibus
utroque 4-5 minimis ancilliformibus lanceolatis acutis, terminali
maximo acuto irregulariter et parè profunde lobato margine acutè
lacero-denticulato, caule crasso simplicissimo erecto ferè a basi foliis
subsessilibus inferè laxiusculis dein approximatis onusto thyrsoidè
spicato, bracteis infimis latè linearibus vel limbo spatulatis dentu-
latis ciliatis angustè uncinatis deflexis acutis calyci aequilongis, flo-
ribus octoangulis, calycis densè et brevissimè tomentelli asperum lacinus
8 lanceolatis acutissimis tubo hemisphaerico valde costato sesquialongio-
rum, appendicibus reoaxis triangulari-lanceolatis strigosis parvis
acutis tubum calycinum dimidium equantibus, corollâ tomentellâ cam-
panulato-tubulosâ ad tertiam partem usque in lacinas triangulari-lan-
ceolatas obtusas fissa, stylo exserto crasso asperato, stigmatibus 8 11-
nearibus revolutis.

Hab. in partibus rupium Tauri baurici in via inter *Karaman* et *Er-
monek* ad descensum vallis *Bjoksou* alt. 3000' fl. Junto. (Heldr.)

Folia radicalia cum petiolo 3-6 pollicaria 4-1 poll., lata, spica e collo
radicis orta cylindrica pedalis et longior diametro aequipollicaris a
basi sceptris densissima, flores circ. pollicem longi. Species inflores-
centia cateris *Mushawits* distinctissima eis tamen characteribus calycis
et stylis aetè conjuncta, transita Inter eas et *Campanulas* e sect.
Medio optimum pnebens.

CAMPANULA PESTALOZZA Boiss. (Sect. *Medium*.)

C annua palulè hispida singulosa, caulibus tenuibus erectis pumdis supcrnè dichotomè ramosis, foliis oblongo-hnearibus Integna adpressiusculè setulosis infrans obtnsis basi attenuatis superioribus oblongis a basi latfori acutiusculis, flonbus in dichotomlls et ad ramulorum apicem laiè corymbosis parvis pedicello tenui patulè hispldo calyd aequilongo vel breviorl suffultis, calyre ferè ad basin usquè In lacinias lanceolatas acutas erecto-palulas margine prxserlim cillato-strigosas partito, appendicibus inangulanbns aculiusculis ultrà basin tubi productlt laciuiis plbs tnplu brevionbus, corolla lacinias calycfs vlx excedenll campanulatft ad angulos cxtOs uiliatulà caelerdm glabrA, sligmatlbas terms.

Hab. in *Caramania* ubi legit amic D^r Pestalozza.

Habitus ommnb *C drabfolvs* a quā calyce appendiculato long6 ~~cl~~ fert, collocandajuxU € *dichotomam* qua* differt Oonbus dupld majonbus, corollft calyce duplo longion, cal>clnis lacinus acutisslmis appendicibus etongatis acutis.

CAMPANULA UIEBOSOLYHITANA BOISS (Sect. *Medium*.)

C annua tola patule valdè strigosa caulibus erectis subdicnolomè ramosis pumilis acutè angulalis, foliis sessilibus oblongis integns, floribus ad ramorum apicem 3-iapprounaaUs corymbosis pedicello calyce multft breriori suffultis, bracteis e basi laborl rolundatà oblongis acutis, calyce valdè strigoso ad baun ferè usquè in lacinias lanceolatas acutas erectas partito, appendicibus ovatls oblusis pauld ultrà tubi basin productls lacinus tnpld brevionbus, corolift tubuloso-obconlcA calyce dupl6 longion extus sub lente pTXsertim ad nervos birtuU ad tertiam pariem usquè in lobos ovatos acutiusculoa divisâ, abgaiattbus terms, capsuld nutanti.

Hab. ad pedem rapium pronè *Hterotolymam* juxtâ speluncas *Rtgwn* et *Judteum* dictas et in *Samanâ* propè *Naplotue*. Legl Maio ineuote.

Planta semipedalls, flores drc. 9-U lin longi violacel aogustt. Valdè afflns *C. stngota* Buss, in efdem regionc vulgatlsims qua dtfert minùs dease strigosa, Qoribus pedicello calyce asepius longlorl goffiiltis, lacimts calydnis etiam floris e basi oblongâ plùs mluñe longè *par* l bulatls, appendlbus lacimis dimidife taotum brevioribus, coroll*i»lyce inplb longion parte supenon magis dilautik obcooièt glaberrimft.

CAMPANULA CAMPTOCLADA Bolss. (Sect. *Medium*.)

C. aonua tola pllis patulls albis scabndulis hirsuta, caule a baai dichotomy et divaricatlm ramoslssimo ramisque flexuosis, follis tofraiis ovato-spathulatis in petiolum breiem attenuatis cstens sessllibus o^ato-oblongis aculiuscuhs basi et apice angustatis, floribus ad ramulorum apicem subtends, pedicellis blspldia reclis Oori sequiloDgls post antbesin valdè recurvis, bracieis opposltis llinearibus ad medium pedicelh florum lateralium sitis, calycfs brevltter canescentis ad basin ferè usquè partili lacinlis a basi ovato-obiongà allennialis acutis, appendidibus ovatis obtusis pau!6 infrà calycini tubl basin productis lacinus plus dlmid!6 brerioribus, corollâ; exius valdfè hispldulâ tubuloso-canpanulatâ ad terliam partetn in lacimas oblongas divisâ cal>ce plfts duplò longiorl, sbgmatibus terms brevissimis, capsulâ nutanb pyriformi appendicibus. subDflatia tectâ.

Hab. in flssuris rupium caldarum in vallibus Antlliiiani circâ *Banuu* saxis aretè incumbent et secùs ea ramos suos curvans. Legi Apr. fine.

Planta tenera ramoslssima asperula, folia majora 4S-151m. longa 7-9lata, (lores illia *C. stngosa* mullM) minores circ. 9 Un. loogi. Ex afDnlitate pncedenbs et *C. atngoaa* egregiè differt caule divaricate ramosissimo, lodumeDto mollfusculo brevforl, follis brevioribus latioribusque, corolls angusts tubo tenulori Hanc In pi. Plnard. *C. bico-iorem* primùm nomnaveram sed tubus albldus taotòm in corollis Jam emarcidis occurrere vldetur

CAMPANULA STBLLAHIS Bolss. (Sect. *Medium*.)

G. amraa (ota piHs patulis albls brevibus strigulosa virens, canle angulato a bul'ramosiBsimo supornè dicbotomocorymboBo-paniculato, Tollis ovato vel oblongo-spatbidatIB inferioribus in petiolum brarent attenaatls obtuslssimis superioribus oblongo-lnearibuB ntrinque atlemnatis oblusluscubs, flonbus pedicello calyce'subbrezion postantbesin recorvo suffultis, calyds ferè ad basin usquè qulnquepartitl lacimis oblongo-lanceolath obtusis margine strlgoso-clllatls aeterum glabris fldriferte erecto-patons fructiferu eKpanste steliatim rotatla trlnefvda¹ aecreth, appendicibus oblongo-linearibus cflalls obtusis infrà basin tub! productis taohills calyds tripl6 brevloribus, coroUâ ceratè campanulatt glabrt nRrà tertiam partnn lobatlcalyce duplb longiorl, fttg-

matibus teroīs, capsulft nutantl brevtelmlā obcomet lacloīs calycioīs
borizontahter stellalis coronatfl.

Eab m lapidosīs dumosīs montis *Cornell* paulb suprā conventum
Legifruclif Main 1846

Planta ferē pedahs, folia infenora sesquipollcem longa 6-61lineas
lata, corolla brevis cam *Speoulana* referens 6-7 lin. longa, calycis
fructifcn stellati diametnim 40-43 IID latum. Species ex afQmtate pra-
cedenlnim ab eis disiiocata corollā abbreviate, ralyce fractiferosleUatim
patently H&c notā valde accedit ad *C seutellatam* Gnseb qua calyce
exappendiculato stallm dignoscitur.

CAMPANULA SULPIIUBEA BOISS (Sect. *Medium*.)

G. annua pumila tota pills sparsis caulis patulis fohorum adpressius-
cuhs strigidosa virescens, caule a basl patulē ramoso aeipiUs erecto,
ramis elongatis simpliobus dicholomisve apice 2-3 flons, foliis caulidls
sessilibus Imeanbus obtusis, rameis brevionbuB a basl BDbhbon ro-
tundatffacutlusculis, flonbus pedicclo calyci subaequilongo fructifero
recurvo suffiulhs, calycis profande quinquepartiti laciniis lanceolatis
acutiusculis ad nervum medium marginesque lutescenti-strlgosU CBE-
terflm glabris, appeDdicibus ovatis obtusis valde stngosis ultrā tubl
basin Don productis laciniis triplb brevfonbus, corolla glaberrimS cam-
panulaia intense lutr-d calyce plus duplb longiori ad tertlam partem
nsque lobatft, sliigmatibus tnbus, capsula nutanti breviter obconleft.

Hab in areoft mobil parā colUum hUorahum Syria drc& *Gdsa*
(Doiss Aucher N" 1856), circi *Beyrmtt* (Boiss. Pestalozza).

Planta 4-6pollicans a bast ramosisslma 3-1S flora caullbus efectis
vel ascendentibus, folia caulina 8-42 lineas looga S lata, florea magni
ferē pollcenr longi. Afflnis *C. stngosa* a qua* appendlcibas abbreviatis
laciniisque ralycinis apice non subulatis discedit et Insaper ab el et
afBmbus colore corolUe distinctissima^

CAMPANULA LEirrosinum Boiss et Heldr. in pi. Anat eis. 4846.
(Sect *Medwm*)

C. perennis rhizomate caules IraglUmos fliformes csspitosos paroē
ramosos ascendeDtes molbter albo-lanatos fobosos edentl, follli idfe-
norlbuā peliolo latusculo els squall suffultis soperioribus aobseMtU-
bus omnibus teneris adpressfusculē et molUter canescentibus onto-

rotondis basi truncate utrinque 3-6 lobatis lobis triangulobis acutiusculis, floribus in racemos terminales 3-e flores laxiuscule et sub-UDlateraliter dispositis pedicello calycis aequilongo vel longior bracteolato jam sub anthesi patulo-incurvo suffultis, bracteis ad basin pedicelli ovatis acutis dentatis, bracteolis pedicellatis brevissimè linearibus, calyce densè et breviter albo-tomentello ultra medium In laciniis triangulari-oblongis acutiusculis partito, appendicibus breviter ovatis obtusis ultra basin non productis laciniis dimidiatis squantibus, corollam tomentellam lacteam tubulosam apice trifidam in limbum partim ampliatam brevissimè quinquelobam calyce triplo longiori stigmatibus trilobis.

Hab. ad raper umbrosas in valle *Speluncarum* dicti inter *Karaman* et *Ermenek* Isauriae alt. 3000'. (Heldr.)

Caules 3-5 pollicares, folia majora 6-8 lin. lata, flores 7-8 lin. longi tubo lineam circ. lato limbo 3 lineas lato. Ex affinitate *C. incanescens*, *O. Uoien* et *Candida* ab eis forma foetorum, corollam longè infundibuliformi distincta.

CAHPANDIA MACROBOTRYA Boiss. et Heldr. In pi. Anal. 4846. (Sect. Medium.)

G. annua vel biennis, caule erecto crassiusculo albostriatissimo folioso supernè dichotomo corymbosè 3-6 flora, foliis linearilanceolatis sessilibus strictis obtusiusculis viridibus adpressiusculè strigosis, ramis erecto-patulis unifloris foliis paucis minoribus acutioribus obtusis, floribus magnis, calyce viridi ad nervos et presertim margines parè setoso ultra medium In lacinis latis lanceolatis longè acuminato-antennatis partito, appendicibus ovatis latis cucullatis obtusis ultra tubum basin subproductis calycis lacinis parvis duplo brevioribus, corollam e sicco albam vel flavidam glabrè calyce vix sesquialongiori breviter campanulatam patulè In lobos breves batos ovato-triangularia breviter attenuatos acutiusculos, stylo crasso e corolla longè exserto In stigma crasso trilobis clavatum demum trifidum abeunt.

Hab. In glareosis ad littora lacus *Egirdir* Pisidiae et in saiosis ad *Ermenek* Isauriae. (Heldr.) Fl. Julio Ineunte

Ganulus rectus crassus circ. pedicellis apice in 8-6 ramis erecto-patulis 1-3 pollicibus longis divisa, corolla forma eam *C. persicifolia* referens sed major diametro sesquialongior sesquialongior longa, stylus cum stigmate sesquialongior ft amplius longus. Species stigmate crasso

nondam expan&co 6-7 Hn longo 2 lato Insignia prop* C. medium collo-
canda

CAMPANULA. BdEROTBicnA Bolss. in p] Kotsch Pers. bor 4846.
(Sect. *Medium*)

C blennis vel perenols, caule crasso elato simplici rubello vlx m-
gulato setulis brevisimts retrorsum adpressis sparsissidiis aspero,
foliis setulis miQlmis spams prasertra ID paginf inferlori et ad nervos
aspens ovatis cordatis, radicalibus longiaslm* petiolatia obtosiusculis
profundfe nraltlobatis lobls triangulanbus-ovalis obtusiusculis obtnsd
deniatls, caolinia petiolo eis brevion suffiltiB acute dentato-serratis
aUenuato-acumtaalis, floiibus pedfcello tubo calycis squillongo fructi-
fero recurvo snffultis Tacemim panciflorum tennmalem tollosum laxum
subsecndum formantibus, foliis floraHbus liDcari-lanceolatis acutls
infernt sermlatis flores xquanlibns, calycis lacimls lanceolatis acutls
ad nervum et margines regulariter ppctinato-stngosls caeterum glabris,
appendicibus lafc o\atis obtusiusculis tubi basin non excedentibus strl-
goso-clllatis lacluiis dimidio brevioribus, corolla caruleS parcè stri-
gosft calycem partim encedentl tubuloso-campaoulald, stfeioaiibus ter-
ms, capsula nutantl.

Hab In bortis umbrosis propè *Derbend* Kotsch N" BOS.

Plaota 8-3 pedalls, folia Inferlon petiolo 6-10 pollicarl suffullaf-3
polite longa S-S 4;S lin. laia, caulioa senslm dlminuta, flores pollicem
et paulò amplius longi AfHnls habtu et cbaracteribus *C. Grosteki*
qua eximè differ! foliis obtusè dentalis, floribus Inferloribus terottls
neè solitarils, calyce corolla triplò brevioris laclnlls multò mlnoiibus
appendicibus parvls, etc.

CAMPANULA ODONTOUIPALA Boiss (Sect. *Euodorh*)

C. perenniSyCaulibus erectis glabris slmpllcibus subangulatis rubellts
basi denudalis deln follosls flexaosls, foHis petiolo eis brevlori suffluKts
oblongts aplce plus minus attenuato-acamlnatls basi rotundatis vel sub-
cordatis inferioribus obtusè supenonbus acutlusculè denlkmlls tene-
ris vlridibus margine cliiatuKs caeterum glabris, floribus ad foUorum
axillas blnls vel solitarih pedfcello recurvo basi bnclolato calyd
asquillongo sufflnltis, calycis lacinls angustè llnearl-lanceolalls paiplls
vel reflpils amHs par^ nfRro-dcnliculatis albo-dllatls nptprum gla-

bns lubo glabro hemispluerico duplò loogioribus, corolla campanulatâ calyce tripld loogiori breviter lobatâ ad margioeB loborum anneoso-lobatâ c&terâm glabrâ, capsulâ nulantî ovato-rotundâ.

Hab. ID sylvis excelsionibus *Ghilant* Aucher N° 4907.

Planta e meo specimioe vlx pedalis, folia mferlora 9 ifi poll. lonp. I 4/Slata, habitus et magnitudo florum *C. trachelw.* Planta flonbuB paucis ei aidlls foliorum auperiorum vre dlniutorum Ibtignift, a *C. traohelto* Insuper diverelssima calycis tubo glabro, lacions 31ta. drc. loogiB 4;S lalis glaDduloso-denticulatis, magis affinis *C. maenmtha* T. et M. que caule erecto non flexuoso, flonbus ereclo-patulti. sepalls iDtigris lanceolalo-trlaugularibus erectis loDgè diEert.

CAMPANULA ATTICA fioiss. et Heldr. (Sect. *Eucodon*.)

C. annua lota pilis patulis blspidula, caulibus elongatiB tenens decumbenbbua vel diffkisis divancato-ramosislms, foliis Inflms obloDgo-spatbulatis basi attenuatis obtusls subintegns cauliois oblongls denbcalabs denUcalis asceadenlibus, florallbus ovalis profundè tri&dis lobls laoceolalis aculia laterahbus divergeutibiu brevionbus aDgusboribus, floribus ad dtehotomas sills termiDalibusque pedicello tandem recunro calyce brevlori suffultis laxè cymosis, calycis bispidi ladolls lanceolalis aculls tubo breviter obconlco 4-5 pl6 longioribus In frictu stellaUm patentibus, corollâ esruleâ campanulatâ glabrâ oalyce duplò longlori lobioOvalis, capsulâ nutantl turbioatâ brevissimâ.

C. drahfoixa Sprun. Boiss. et Heldr. pi. exs. — Slbth. quoad locum AUcam nee Icon, et descript

Hab. In sifids *Attica* et *Argoldw* (Sprun. fioiss.), Jfasenio (Heldr.)

HIBC species a *C drabifohd* ¥I. Græc tab. %i S quam ID *Samo* Slbth. lodteat et quam c *Rkodo* (Aucher N° 1386) babeo, egregiè dlffertcau-bbus lODgioribus magis dlffusu, foliis latioribus floralibus profuDdè et acutè tnüdl Dec angustè boeari-lanceolatis integris vel utrioque denticulo auctlSj corollâ 8 nee 4 tineas loogâ, capsulâ autantl nee , erects calycta ladolis stellatis nee erectis supcratâ. *C. Rhode-msk.* DC. e desclplione foliis florallbus lntegrh floribusque terminallbus dictis 'alieua est.

CAMPAHDLA DBUCATDLA Boiss. (Sect. *Euoodon*.)

C. annua tola |>revuer el paMife blspldulo-stntffulosa canescens,

caulis (emittere) bifloribus nanis tenens a basi flexuoso-ramosis, foliis ovatis obtusis basi attenuate integris vel obsolete serratis denticulatis, floralibus minimis acutis ellipticis, floribus pedicello capillari tandem recurvo calyce breviter suffultis dichotomis bus vel terminalibus solitariis, calycis palulis bispidulis lacinis laevibus acutis tubo quadruplo longioribus, corolla descendente tubulosa extus birsuta calycem partim superanti, capsula nutanti.

Dab. ID *CanA* ad *Moglah* (Aucher N° 4838) in *LyoA* (Pestalona).

Plantula 3-4 pollicaris, caules tenuissimis deorsum curvati distanter foliosi, folia majora 5-6 lin. longa, flores laxè dispositi ferè 4 lin. longi. Inter. *C. erum* et *Attcam* media a prioribus qua differ! caule erecto minimè leui, calycis lacinis brevibus lacinibus, corollam non. *C. Attca* caeteris neglectis omnibus partibus triplo vel quadruplo major est. *C. drobifolia* differt calycis lacinis linearibus, corollam calyce duplo longior, capsulam erectam etc

CAMPANULA PODOCAAPA Bolss (Sect *Eueodon*.)

C. annua tota breviter et parvè hirsuta aspera, caulibus filiformibus pumilis erectis dichotomè ramosis, foliis minutis sessilibus oblongis obtusis subdenticulatis, floralibus lineari-setaceis acutis, floribus parvis in dichotomiis sessilibus terminalibusque breviter pedicellatis laxissimè corymbosis, calycis adpressè singulosis lacinis angustè linearibus laevibus acutis rectis tubo quadruplo longioribus, corollam exclusam ad nervos setulosam calyce subduplo longiori angustè tubulosam in umbellam minutam rectam vix. ampliata, capsulam rectam a vertice compressam discolam basi in stipitem brevem abruptè attenuatam valvulis tribus ad stipitem basin sitis debili.

Hab. in *Pamphylid* ubi legit et mihi comm. amic. Pestalozza.

Plantula 4-florea pollicaris ramosa ramis rigidulis, folia 3-4 lin. longa, flores 4 lin. longi, capsulae stipes lines 3/4 longus. Affinis *C. Jovey* et *C. drobifolia* an eis praeter flores laxè corymbosum caractere eximio capsulae stipitatis facilè distinguenda

CAMPANULA TRICUPOD*. BOISS. (Sect *Eueodon*.)

G. nana perennis compressa rosulata, caulibus extraradicalibus tenuissimè filiformibus simplicibus decumbentibus foliis robustis pa-

tulè birtulte sspe Dumeaulssimis Intrivatls, follis parvis adpressè tomentello-daerascenlibusrosulatis ovato-spaihulalis in petiolum brevem attenuatls caulinis superioribus ovato-orbiculatiB brevissimè petiolulatis omnibus iutegerrlmis, flonbus paucis axillanbus pedicellis setaceis atrictlusculis vel flexuoso-lncurrls els pluries longloribus Baffultis racemoB terminaleB subsecundos pedlcellonun longitudlne Dffiquall subcorymbosos formantibus, flonbus parvis, calycia griseo-tomentelli ladolls lanceolatisacutis tubo brevsslmo obconlco subduplb longloribus, corollà violaceft campanulas extòs blrtacalyce s 4;1 plft longlori loblB brevltter triangalaribuB obtuBiusculis, capsulà ovato-pyri-formi recta valviB trlbus imà basi sitis debiscenti.

Hab. ad saxa umbrosa circà fontem suprà pagum *Eden* Ubanl Bitam.

Legl flor Julio. E flssuriB ruplum naBctur caulesque saxo aretè applicati suDt. Plaota elegaos *Jirasecktam tmellam* quodammodò referenB. Caules tenuissimi 3-4 poll, loogi, folia rosularum 4-6 Un. longa caullna media diametro S hn. lata sumoia minora, pedlccin caplUares S-8 lto. longi bracteois setaceis medibm veretb ssepè iDBtructl. Propè *C. eymbaianam* et *C. htmllimam* collocanda

CAMPANULA MITBIFOUA BOIBS. et Heldr. ID pi. Anat. eis. 4846. (Sect. *Euoodon*)

C. perennls pulvlnari-caesplooa tola patuiè et brevissiniè puberala cinerascens asperula, rbizomate Indurato, caullbus numerosisslmis caplllaribus brevibus densè folloals rectis, follis rainlmis sessilibua ovatls vel ovato-oblongis obtusls IDtegerrlmis flrrais subcarlilaglDeis, floribus 3-B tenninalibus pedicellis setaceis ad medium bracteolatls cafyce longioribus Buffultis e follis supremis brevltter exsertls, bracteolls setaceis, calycls densè blrtnlt ladnlis setacels rectis tubo subglo-boso sesquillODgloribuB, corollà eittis blrsutà calycls lachnilB trlplò longlorl tubuloso-campaDulatà tubo aplce vlx ampllato lobis bretlbus obtusls recls.

Hab. In flssurls ruplum verticalium Inter *Ermenek* et *Tourtchar* alt. 3500' (Heldr.). Flor. Julio lneunle.

Caules *-* pollicares densisslmè congesti, folia majora 3ln. longa i-*/l lata mlnora 1 1;2 Hn. viz longa, floras 4-B Hn. longi. Species pulfcheUa dlstlDCtissima propè *C. tncnopodam* et *C. hvmxllimam* colloquanda.

CAHPAMJLA LOUBILA BOISB. in Kotsch, jil Pen bor. 1646. (Seel. *Euoodon*)

C. perennis nana dense caespitosa tota densè et adpressisimè detens, foliis rosulatis linearibus palmaratis infernè attenuatis obtusis integerrimis, caulibus extrarosularibus filiformibus brevibus decumbentibus foliosis apice dichotome paucifloris, foliis caulinis minoribus strictis infernè spatulato vel linearibus lanceolatis, ocreis pedicellis capellanibus flexuosis incurvis eis sequentibus vel longioribus minutè bracteatis suffultis, calycis canescentibus lanceolatis apice setaceis tubo breviter obconico vix longioribus, corollam parvam birtulam lobuloso-campiculatam laciniis calicis duplo longioribus breviter lobatam, capsulam globosam obovatoam valvulis basillanibus deliiscedis.

Hab. in rupibus vallis *Laura* montis *Elbrus* Kotsch N° 535. (Deldr.)

Folia rosularum 6-7 lin. longa 4-8 lata, caulium mollia, caules teneri 2-3 pollicares, flores 4-5 lin. longi. Affinis *C. Damtuema* Lab. qua: differt in odore minus cano, foliis acutiusculis crenatis, floribus subduplo majoribus, laciniis calycinis oblongis tubo duplo longioribus. A *C. tnehopoda* quoque non longe distat.

GMIPANULA EDCLASTA BOISB. (Sect. *Euoodon*)

G. perennis tola densè et brevissimè velutino-canescens, rhizomale ramosissimè caespitosa, caubus numerosis fragillibus filiformibus pumilis simplicibus erectis rigidis, foliis carnosulis omnibus sessilibus caules dispositis minoribus oblongis obtusis margine plus minusve denticulato-crispulis infernè in petiolum attenuatis superionibus sessilibus et basi rotundata latiori acutiusculis, floribus terminalibus ramis soctanis saepius sessilibus 3-4 capitulato-fasciculatis, bracteis lanceolatis calycis basin cingentibus eo brevioribus, calycis breviter obconico velut laciniis lanceolatis acutis roctis tubo obconico subduplo longioribus, corollam albam extus bravissimè velutina calycinis laciniis subtriplo longiori tubuloso-campiculatam lobis brevibus triangulanibus acutiusculis.

Hab. in fissuris rupium calidarum colubum *Salehuh* propè *Dama*-cum*. Legl. Maio. 4846.

Caudes a*-pollicares rigidi flagellati et rhuomate mioso orti spicitem compactam sspè aoluni bmuotea, folia integerrima 3-lineata. longa in fl. tota, flores 9-10 lin. longi. Species foliis carnosulis

libus rigidis, floribus capitato-fasciculatis Insignia habitu *C. Ottoien* vel *C. candtdam* referens sed exappeodlcalata et melids prope *C. Daman** *cenam* qua caulibus foliisque teneris, floribus laxis etc. tamen vâldê diatat collocanda

CAMPANULA COMPACTA BOISB et Heldr In pi. Anat. exa, 4846. (Sect *Eucodon*)

- *C. pereDiiis* lota **pills** papillosis brevisslmis deosls relrorsùm foclinatls obsita canescens compactê cxspitosa, folns rosulatls angustê obovato vel Uoeari-spathulalis oblusls vet acutiusculis parcê et obsoletê subrepano-deniiculatis margine subincrassato albido subundalato, cauibus numerosis extrarosulanbus foliosls slmplicibus brevibus unifloris, foliis caulinis strlclis linearibns acutls, caljcis lacinlis laoceolatls obluslusculis tubo brevisslmê obcooico sapê bombjcioo-lanato raribns glabrescenti dupl6 longionbas, corollâ glabrâ calycinis laclDih subdupl6 longiorl ferê ad basin usquê In lacunas erecto-palulas oblongo-hneares acutiusculas parlltâ, capsulâ recta obovatâ valris subaplice sills dehiscenti

Hab In regione superior! montls *Davroa dagh Plsldise* alt. 6500-«000'. Fl. Mail fine (Heldr)

Cespites saepê 4-5 pollices lati, folia rosularum 7-8 **lin.** longa aplice 1 *ij%* lio lata, caules rigiduli 4-3 pollicarea foliis 2-3 **lin.** longis, flores 6-6 lineas longi, stylus exsertus, stigma tnflidum. Species iDsignis prop* *C. Stdvenx* collocanda, corolla partitâ transitum ad *Phyteumata Podantha* optimum prsbens.

Podantha KOTSCHTI Boias. (Sect. *Podanthum*.)

- Ph. cãiile sloipllei virgato erecto inferaê folioso toto pills deflexis albls lomenello supernê glabro, foliis tnflmls brevisslmê petlolatls oblongls acotis IntermedUs sesslllbus oblongls superioribus e basl cordatâ triangularl-OTatlB acumlDatis senslm in bracteas decrescentibus omnibus utrlnquê breviter setulosis argutê pectinato-serratls dentibus ascendentMocurvls, floribus mlnutls In fasciculos sessiles densos in cauHs parte superlorl remollusculos terminalesque coDfluentes dlspositls, bractefl trlângularl-acuminatls Inferloribus bast dentate floras aequantibns auerioribus lanceolatls integris brevlorlbns, calyda glaberrlm!

lactaiis angustè Umceolatis acutis tubo globoso duplb longioribin, eorollâ cseruleâ glabrâ lacintis calydnis triplò longiori.

Hab. ID monte *Tauro* Kotsch. N° 338 sub *P. amplexicault*.

Var p oWuwcrenum. — Omnia speciei Bed folia ut ID *Ph. SfttAorpumo* obtusè crenata.

Hab. ID valle *Tatagon* montis *Elbrus* Kotschy N° 713

Pedale, folia infenora IS lin. circ longa 6-71ala, flores 4-6 lineas long! splcam bipollicarem Internè Interruptam formantes. Longè distinctum a *Ph. amplexicauli* W. quod e deacriptione est glaberrinram, habet folia dupilcato-serrata, flores peduoculatos, corollata magnit. ejus *Ph. spicati*. *Ph. amplexicaulie* Fl GREC. tab. SI 9 (a planA Willd. probabiliter divereumjloogfedltfert calycto lacloila setacete reflexis, corollis semipollicaribus *Ph. KoUchyi* proximo accedit ad *Ph. Stbthorptanum* Boem el Schult Boiss Diagn. IV. quod ab eo discedit follis loogiùs petiolatis oblusis superloribus lanceolato-hnearibus, floribus *i-i* In spicam longam laxissimam digestis, calyce corollifque puberullis.

PHYTEDNA ASPEBUM BOISS. (Sect. *Podanthwn.*)

Ph. totum setulis sparala adpressis pellucidis e tuberculo ortis asperum pallidè virens, radice verticali cylindrica crassâ squamosâ caulea plures erectos elatos virgales simplicissimos inferoè deorsusculè fohosos edenti, foliis radicalibus paucissimis oblongo-lanceolatis acutijsculis in petiolum eis longiorem attenuatis, caulibus sessilibus lanceolato-linearibus utriusque attenuatis acutis strictis (superioribus obsolete et minutè denticulatis superioribus sensim decrecentibus angustissimè hnearibus, floribus solitariis vel biis sessilibus splcam teouem vrgatam laxissimam tennalem formantibus bracteâ linear! suffultis, calydis densè et brevissimè pubescentibus laciniis lineari-lanceolatis rectis tubo vix xqallongis, corollâ hirlâ calycinis lacris triplb longior.

Hab. in nipesibus montis *Gam* Kurdistante Kotsch. pi. Alep. Kurd. N° 377 sub *Ph. ngxdo* var. *soabro*.

Gaules bipodales, folia cauhoa inferiora sesquipollicana 3lin. lata, spica 6-9 poll, longa tenuissima, flores 4 lin. arc. long!. *Ph. ngidum* Yf e descriptione omninò differ! caule glabro, foliis glabriscolis, pedunculis subramosis trifloris. Nostra species habitu et inflorescentiâ *Ph. limofolio* Auct. (nee Fl Gneca quod *Ph. repandum* Sm. diversitatem sistit) proplòs accedit, sed hoc facile dignoscitur ffolita ferè omnibus radicalibus rppando-denticulatis glabris puberulisve sed nan-

quam scabris, calicis lacinis tubo longioribus corollam dimidiam superantibus, etc

PHYTEUMA CAPPADOCICUM ROWS. (Sect. *Podanthum* J)

Ph totum pubescentissimum tomentellum tanescens, caule crassiusculo subaulcato rufescente folioso a parte media alternè vel subdichotomè ramosa ramis strictis vix elongatis ramulosis, foliis oblongo-lanceolatis margine undulatis tenuissimè et acutè eroso-denticulatis longè attenuato-acuminatis inferioribus In petiolum longum longè attenuate, superioribus sessilibus superioribus abbreviate, floribus 2-4 nris in fasciculos breviter pedunculatos sessilesve sectis ramos et ramulos distantes paniculatis, bracteis linearisetaceis brevibus rectis, calycis glaberrimi lacinis anguste linearibus tubo oblongo-hinc valde sulcato paulo longioribus, corollis glaberrime lacinis calyce vix sesquialongioribus

Hab In monte *Akdagh* Cappadociae Aucher N° 4883

Sesquipedale, folia inferiora 3 poll, longa petiolo eis aequilongis suffulta 7-8 lin. lata, rami paniculae aemipediales vel longiores, flores circ 5 lin Idngi. Afilne *Ph. ctchorifoma* quod differ! foliis obtusis, bracteis floralibus ovatis acuminatis, calycis tubo brevi densè albolanato etc. *Ph. lobdundes* cuius hinc planta In herb Caodolleano cum dubio refertur e descriptione longè differt foliis linearilanceolatis bispidiis denbculis elongatis.

Campanula wrgata Lab. Dec. S tab 6 — *Ph. nrgatum* W. est *Phyteumatu* specia vera ex affinitate *Ph. Cappadocet* et *pulchellam* quam la calcareis calidis Libani circa *Eden* frequenter legi, sed *Camp, wrgata* DC. Prodr. et herb, est planta diversissima ad formam atne lam micrantham in regione mediterraneâ frequentem *C. ropuncuh* spectans.

PHYTEUMA STYLIDIOIDES BOISB (Sect. *Podanthum*)

Ph. foliis omnibus radicalibus rosulatis brevibus oblongo-spathulatis sessilibus basi attenuatis apice rotundatis undulatis integris margine albo inirassato denticulis utrinquè parè sub lente setulis retrorsis albis obtusis pallidè virentibus, caulis scapiformis lenibus erectis simplicibus glaberrimis praeter -a foliola ad basem alia minima angustifoliarum nris, floribus paucis solitaria pedicello calyce breviter erecto-

II)

patulo suffullis seeds scapi partem superlorem laxissimè spicalls Inter se remotis basi iribractealis, bracteis linearibus inaequalibus pedicello brevioribus, calicis tubo oblongo minutè tuberculato lacimis linearilanceolatis rectis tubo paulit longlonbiiR, corollâ glabrâ deDtibas calicis plûs dupiõ longion

Hab in *Caramania* ubi legit cl. D' Pestalozza.

Folia vix pollicem longa supernè 3 \ft lin laia, scapi semipedales, spica tripollicans B-0 flora, floras 8)\u long! Propè *Ph. repandum* collocandum, Inslgne folns sessihbus oblusls margine Incrassalo d-nctls, flonbus solitarlis dIstantibus

IIIIYTEUHA PBSTALOKZJB Boiff (Sect *Podanthum*.)

Ph ctespitosam, folls omnibus ad collum congeslls angustè UDearilanceolalis apive attenualis basi In pellolum. plaouut loogè aoguatahs acutis Inlegernmis margine vald6 undulatis ulnnquè densè el adpressissimè pubcrulis ciinescnlibus, caallbus pluribus scapiformibus infernè follolo uno alterove linearil-setaceo Instructis puberulis tenulbus virgatis simplicibus, floribus soltarlls distantibus mflmfs pediceUatls supenorlbos subsessillbus spicam tenuem longam laxam terminalera formantibus basi Inaequaliter et brevissimè tnbracteatis mlnlmis, calyds glabii laeiniis lineari-lanceolatis tubo obloago aequilongis, corollâ glabri calyclnis lamnils trlplò longiori

Hab. in *Lycia* ubi legit cl. et amic Pestalozza.

Folia cum petiolo %-i 1;9 poll longa S-S 4;2 **lin.** lata, caales pedales, spies semipedales, flores 3 lin longi. Fade affline formis qolbusdam angustifolfs *Ph. hmonifolii* quse tamen a nostrâ specie floribus J-9 aggregads sessilibus semper dlgnosuntur. Spedei prtecedenti proximom a quâ tamen foliorum formâ flonbusque majoribus differ!. Longltudo pedicellorum In bâc specie mirè varlal a t-S ad fl-8 lineas

PHYTBUKA GHAGILK Boiss et Heldr In pi Anat. exs. 4846. (Sect. *Podanthum*.)

Ph. glaberrirauni radice v^icall cteapltcs denslusculos edenti, folls ad collum congests angustA Hnean-lanceolatlB vel Unearibus plûs miDUS elongatis la petiolum longè ailenuatis acutlusculis integris vel obsoletls<tmè erosb-denliculatis, caullbus scaplformibuH erectte virgath

lenulbus fere a basi jam parce ramoais ad bifurcation's Inferiores folio angustè linearl sessili Instinctis, ramis tenuibus erecto-palulis, flonbus sobtariis pedicello In infimis eis mult6 longior ID supremis eis brevion erecto-patulo suffultia racemos terminates subpyramldatos laxos formaoiibus, bracteis sc̄taceiB pedicello brevionibus, calycis glabri lacnliB lanceolate acutia tubo longfc obconlco equullongis vel brevioribus, corollà glabrâ calyce dupld loogiori lacious latiusculis

Hab. In cacumfolbus moous *Ghetdagh* Taun Isaunci alt. 7000' (Heldr.J Julio)

Stalura multàm vanare videtur, specimloa alia 3-4 pollices longa alia pedalla, folia cum petiolo i-3 pollicaria i h|l-% Im.lata, racemi 3-5 pollicares pauciflorL, pedicelli inferiores 8-9 lin. longi, flores 4-fi IID. longi. Species pulcfaella afGnis pracedentibus bims a quibus differt glabniie, caulibus ramosis, foliorum formâ, proxlma quoque PA. *lan~ceolato* W. quod ex Icone Desf. Goroll. el ex descriptione tantùm novi et differt follis oblougo-lanceolatB acutè et grossè serratis, pedioellis calyce brevioribus, ladnils corollae angustius HnoanbuB reflexia.

PBYUUMA LINIFOLIUM BOISS. et Qeldr. in pi. Anat. exs. | 846. (Sect *Podanthum*.)

Pb glaberrimum, caudiculis albicantibus cylindricis brevibus fraguimis caules simplices filiformes ascendentes pumillos infernè foliosos edeotibus, follis angustè Hneari-lanceolalis linearibusve tenens ucutlusculis subinlegrts vel obsoletissime denticulatis inferioribus basi attenuatis caelens sessilibus, floribus seeds caulw parlem superiorcm ~~soltariis~~ pedicello pruinoso puberulo calyci xquilongo suffultu racemum gracilera laxum formantibus, bracteis ad basin pedicelli Mnean-setaceis, bracteolis ad medium pedicellum muimms squainiformibus sspius evandis, calycis glabri tubo campanulato lacnliis selacels patulis tubo brevionibus, corolla cserulescentis partitlonibus setacels tubo calycis subdupl6 longioribus, capsulâ ovatâ pons sgb apice stils dehiscenti.

Hab. in flssuris rupium *Tawt Pamphyln* infra *Maria* alt. circ. 4000'. (Heldr.J Floret Julio Inennte.)

Gaules semipedales, folia |-i poilicana 4-4 4;J lin. lala. Habitus omoluò *Camp. Waldstemuma* et afDnlum. Species coroilse lacnliis Uoearf-setaceis insigDis tubo laliusculo campanulato calycis Iraniuluni a sect. *Podantho ad Campanulam* optimum prxbuns

PHYTKUMA LKJUM Boiss. (Sect *Podanthum*)

Ph. caudiculis filiformibus brevibus cespites minus edentibus, foliis omnibus subradicalibus minutis oblongis obtusiusculis in petiolum setaceum eis longiorem attenuatis integris margine crispulis supernè glabris infernè sub lente parè hirtulis, caulibus scapiformibus glabris ascendentibus tenuissimè filiformibus pumilis simplicibus 4-9 foliis minimis setaceis obsitis, floribus 3-4 secus caulum extremitatem laxè racemosis solitanis pedicellis setaceis calyci aequilongis suffultis, bracteis setaceis, calyce tenuissimè pruinoso-tuberculati laciniis lineari-angustis erectis tubo campanulato brevioribus, corollae glabrae calyce subtriplo longioris partitionibus linearibus in tubum infernè subinvenitibus

Ilab In monte *Bereket dagh* Lycia f Pestalozza.)

Folia 2-3 lin. longa, scapula cum racemo 3-1 pollicaris, floras 4 Hn longi, species veusta facie *Wahlenbergii* propè praecedentem ob formam tubi calycini collocaada

NOTA LoroUa PbtftmaliMi e ueUone *Podantho a* okiwrvtionibiu a me faolii Dunquam etum junior lobi apice connati habet ut in *eru *Pbtft&vma* ipuubui, In floroeentiaque iuuuper *Podantho* at *Pkytamatu* omnia abunulu *Podantho* preterea babilu, floriu diapontionu, caprala et charactenbui omnibui *ti rapuiutUo* et aOiaibiii umiUimnm eat corollaque quioqUe partita laDtum differi Mil hue diaeriawn nan latis grate nam vane *Catnmpulw* ipMiet babeut corollam ad medium inquina ad 3/4 lobatam. *C rotundifolia* et alia formal muutoaai ID quibaa corolla ad baam rinqna ID 5 laeuuaa fitH ett tapè eihibeal et tramita* lanumeci Inter corollu lobatas et parties ID boo agnune ocaurrant Uibl igitur aptiu el afflmtall nalurab magii eoforme iidetur *Pvionlhvm* ut aubieboiiein *Eueoioitiu* gener *Campanula* eoDjuogere ot ue lynnoujiu duponere

Ftont funnlaix

CAWAtau. u w m w u i L — *Ph tmonfohim* aet DC Prodr noo Slbth. — Pâ. *itrwla* Sum — Ph eoUtMW Gun — *PA laumfithum* A DC mihi taatrn vaneU* aogiu-tilblia hujui apiecei polymgrplui videtur

CiMFurvu HIOIDA Bow mm Stock — *Pk rtgxivm* >V

CAMFVIDU uapuiDiraLU Boua — *Ph lebOutdu* W

CAMPANULA FosTiiiBUNi Boia*. — *Pk. fawfokliMi* W.

CAMPANULA pvuHILLA Bom. uon Saliib — *PA fmlcluUim* F et V.

CIMPAHDU U P U M Bom — P* *npandim* 8m — *PA fuMm/bltim*. Fl GrM. non aUBtorum

CAMFANIU Siui Bom — *Ph Stmi* A DC

CAMPANULA uLiiiroui Boiii — *Pk catutMiu* W.U. — *Ph Molu%feliam* ReiKr

GA»AILLA MAMCHALIIMI BOIH — PA *campaMuiotht U B*
CAVAHDLA SIBTBUIHA Bobs. — PA *SxbthoTpuutum H. et Beh*
CAWAIULA AIPLRIICAUH BOIH. son llich — PA *mpbncauli W*
CAIFAJIDU FIRM BOIH — Pk *itwAm • DC*
CAXPAHUA CICHORITOWI Bonn — Pfc *nihon/omw Bom*
CAMPANLA CIUCIA BoiM _ PA *KoUtkft BOIM*
CAirifDLA i v i u BOIH non BOD — PA *Mpmm Don*
GAUAMULA CA»ADOCICA Bolu — Pk *Cappaioneum Boiu*
CAUAKILA TIRCATA Lnbill — Ph *mrgatum W*

Floret totUaru

CAIFAVULA RTLIDIOIDCS BOIU — PA *ttyltdundu BOIH*
CAHPAHULA PIRTAUHU BOIH — PA *Pttotoza Boiu*
CAMPANULA ORACILU BOIU et Heldr non alior — PA *graeite BOIH et Heldr*
CAVPAHLLA ITBXOPBILLA BOIH et Heldr — PA *hmfoltvm Boiu. et Heldr*
CIHPAHUA LIGIA Bout — PA *Lynn* BOIH.*
Hue mbiectioiu C Pfrnea A DC et C midfuaulu Bolu jun •> auctonbui C u -
nmui&t aduumeranilai omm jure coDjungenda luot

OLEAGE^

FRAXINVS SYBIACA BOIBS

FT. arborea ramis cortice glaucescenti vestitis, gemmis mgru gla-
bresceniibus viscidulis, folhs petiolo longo supernè canallulato suf-
fiiltis 4-2 jugls foliohs glabris palldè virentibus subconacels oblongis
parte snperiori acutè et ascendenti-serratis longè acuminatis laterali-
bus spssUlbus basi breviter cuaeatis \el rotuodatis impan majorl lon-
glus acumlnato basi loogè ID petlolum attenuato, racenus strictis seeds
ramos strbstè et longiusculè racemosls, flonbus diandris, stigmatè bi-
fido, Bamaris glabriusculls elliptids basi et aplce attenuatls breviter
acumlnatls stylo persistent! mucrooatls.

Hab. in rivum cjreà *Aleppum*. Legi Jul. 1846 fructlferam. Kotsch.
pi. Alep -Kurd. N° 98 florlf.

Arbor ferè 30 pedalis, folia petiolo 9-3 pollcari suffulta, follolum
supenus 9-3 poll, longum polUcem latum. Samane 49-Miin. longae
4-a latie. Species a *Fr. ewoelsion* et *oatyphylit foWla* paucijugis coria-
ceis samarlsqae abbrevlails lalloribus distlncta. *Fr parvxfolta Uan.*
lenttamfolta Drs. qua: Aleppi quoque indicator el quain ex solâ de-

scriplione novè longè differre videtur foliolis 6-6 jugis multinonbus ovatis vel ovato-rotundis, samarâ angustâ subcylindricâ 30-30 lloas longâ 3 lineas latâ.

FB&XINUS PEHSICA BOISS. in Kotach pi. Pers austr. 4845*

Fr. fruticosa humilis ramosissima cortice glaucesceat vestita, gemmis nigris immutis glabris, folus conaccis glaberrimis glaucescentibus breviter petiolalis induratis vel 1-2-jugis foveola minutis ovalis inlegris vel supernè vix denticulatis basi cuneato-attenuatis apice abruptè et breviter acuminatis impan majon petiolato, samaris .

Dab. ID solo Bchistaceo montis *Kuh Datno* Persia; austrahs Kotach N^o 646

Folia cum petiolo 2-3 pollicana, foliola supenora 40-U lin longa 6-8 lata cactera minora. Species forsân nimlâ audacâ hie proposita nam flores nt el fructus desunt, forsân fructu noto ad *Fr parvifolvm* Lam referenda enl

Fr rostrata in Kotsch. pi. Pers bor. N^o 189 e monie *Elbrus* specimenibus Auchenanis in Prodr Cand. ad *Fr. rostratam* relatis equidem simillima est sed ambo a specie Gussonu in Jc. pi. rar. tab 63 delincafi diversissimac sunl et ad *Fr oxyphyUam* MB. nt forma foliis 2-3 jugis referenda¹

PBIMULAGEE.

CYCLAMEN CILIUUH BOISS et lledr

C foliis hysteranthiis., pedunculis supernè calycque glanduloso-hirtulis, calycibus ad 3?i parvè lacinis angulè lanceolatis acutis, corollae parvæ roseae tubo ovalo ad faucem non constricto fauce violaceâ obtusè pentagonè angulis rotundatis, biclinis corollinis ellipticis basi longè et angulè attenuatis aculis mucronatis, antheris subsessilibus consplatis fauci xquilongia, stylo subulato brevissimè exserto.

flab, in fssuris ropium umbroBaram feucis *GUiek Boghaa* [*Pyla Cxluna*] in Cilicia (HeWr.) Flores prodennt sept, line, flores adbudm ignoti.

Species distinctissima flonbus parvis vix uignalludinis eorum *C. Cm*,

cal)cla laclnise els omnium specierum mlhi ootarum angusltorai.
C. hederafoltum et *C. Graeum* Link sols species autumnales hjsle-
ranthlae longê diffeninl corolla fauce acutê angulatft

GENTIANK£.

GBNTIANA OELIDA MB. var. prostrala.—Caules e collo 3-5 recurvo-
patentes proslrati 3-4 pollcares, (lores follaque eis speclei minors.

Ihb inRlpimBiDontiBr<XseAa/i«rop^TeAeranKotsch N'636et576.

ASCLEPIADEA

VINCETOXICUV PISIDICUH Boiss. et Heldr. In pi Anat exs. **4846.**

V radice e fibns longis cyhndricis albldis constant}, caulibus bu-
millibus simplicibus biforiam cnspo-puberulis ceteram glabris, fo-
llis breviter petiolatiB iDfeioribus e basi rotundatfl vel subcordatft
ovalls acutiB superioribus basi subcuneatis angustê elllptico-lanceo-
latis omnibns utrinquê ad nervos et marginem brevissimê puberulls
cffiterum glabna, umbellis ad axillas saperfores sessllibus paudfloris
foliis dimidd brevionbus, pedlcellis pubescentibus, calyds vii pubes-
centls corollâ tnpl6 brevions lacinnis angustê lanceolatis acutis, co-
rona luteo-fuscescentls ultrâ 3f4 quinquepartits laclmis oblongis obtu-
sils obsoletê albido-marglnahs mills glabris, coronae stamines patuls
peotagonaB gymnostegio paul6 longions lobis vel potitus angulis ferê
ob&oletls triangularibus, slgmate depresso, folliculis...

Hab. In montibus topbaceis arenosls Pisdise suprâ *Bouldour* (Heldr.^
Fl. Maio.

Caules 6-8 pollcares, folia 1 **1;3-J** ifl poll, longa 6-14 Un. laia,
pedlcelli 3-4 lin. longi, flores minores eis *C. Vmctoxin*. Ab eo ut et
a *V. nivali* B. et Heldr. cui habltu accedit alls neglectis siatlm dlgnos-
citur umbellis florum sessillbos, floribus fuscescentibus, coronis lobis
ferê obsoletls.

VINGITOXICOH FUNEBBB Boiss. et Kots. in Kotsch pi. Pers. bor. 4 846.

V. caulibus elatis terelibus blferlâm hiruilw, follia subsessilibus a

basil subcordati ovato-subrotundis breviter acuminates sublus ad nervos vix hirtulis caterum glaberrimis supernè sublucidis, floribus in racemos densifloros capitatos pedunculatos axillares foliis breviores racemum terminalem rotulam laxum formantes dispositis, pedicella flore brevioribus, bracteis minimis lanceolato-linearibus acutis, calycis glabri corollam triplo brevioris laciniata triangularibus acutis, corollas alroviolaceae ultra medium quinquepartita: laciniis triangulano-lanceolatis obtusis luteis glaberrimis, coronam stamineam atromolaceam gynostegium vix xquantali apice brevissimè quinquepartitam denibus breviter triangularibus obtusis, subgmate depresso, folliculis patulis brevibus glabris longè attenuato-rostratis.

Hab in fauce Nasserou et propè Germ ab in monte Demamend Kotsch. N° 359

Bipedale et ultra, folia infera Sa 4)9 poll, longa, flores magnit inter eos *V mgn* et *V specios* intermedii Species caeteris neglectis a generis speciebus nigrofloris corollae laciniis inter glaberrimis distinctissima *V medwm* H. Br — *fwcatum* Link floribus laxè racemosis, corolla? fuscescentis nee atris lacinis elongatis, calycis laciniis lineari-lanceolatis, floribus disjunctis pedicellis longius distat.

GOMPUOCAHPDS SINAIOS BOISS.

G caulibus frutescentibus elatis virgatis teretibus puberulis glaucescentibus foliosis, foliis breviter petiolatis brevissimè nunquam puberulo-canescentibus oblongo-lanceolatis vel linearibus acutis vel mucronulatis carnosulis margine saepe subrevolutis, pedunculis ex axillis superioribus folio dimidio brevioribus umbellam B-6 florum ferentibus, calycis incani corollam triplo brevioris laciniis ovatis obtusis, corollis lutescentibus lacinis reflexis extus puberulis nunquam attenuatis acutiusculis, coronae stamineae foliolis truncatis ad utrumque angulum Internam in denticulum acutum abeuntes, folliculis erectis oblongis in rostrum attenuatis rubrosetosis Inter setas farinoso-tomentosis.

Hab in lapidosis vallum jugi *Sinattet* (Boiss., Boiss., Aucher, M° 4544, Schimper, N° 379) In deserto *Egyptico-Arabico*. (Hussoa.)

Plants 4 4;2-S pedalis, folia 4 4;S-S poll. longa latitudine a latitudine S 1;S ad semipollicem variantia crassa cartilaginea, flores magnit eorum *G. fruticos* qui egregie differt virescentiam et glabrescentiam totius plantae, foliis linearibus acutis, corollis lobis glabris margine dilatatis, coronae stamineae foliolis angulo interiori bidentatis dente altero

longior exlorsum recurvo, folliculis inter setas glabrescens. *G. setomts* B. Br. e descriptione foliis glaberrimis, pedunculis glabris corollae stamines phyllis in demum obtusum productis diversifloris e&i.

CONVOLVULACEJE

CONVOLVULUS SCHIMPBAL **Boiss.**

C. perennis suffruticosus totus pilis patulis rufescentibus molliter hispidus, caulibus erectis ramosis ramis internodiis foliosis, foliis oblongis obtusis In petiolum attenuatis valde nervoso-rugosis margine undulato-crispatis subtus prorsum ferrugineo-pilosissimis, floribus in capitula 3-4 flora axillaria pedunculata foliis breviora congestis, bracteis separatis subaequilongis angustis lanceolato-linearibus dense bispidis, corollam angustam pilis calycem vix superantibus.

Hab. In *ArafnA feltm.* (Schimper sub *C. salyctefolio.*)

Folia cum petiolo ferè sesquipollicem longa in lin. lata valde rugosa undulataque, flores eius *C. secundi* dimidio minores. Species pulchra ex affinitate *C. secundi* et *gonocladi* Boiss. *C. salyctefolius* Sieb. veras ex specimine autentico ad *C. secundum* spectat nee ad *C. lanatum* qui ipse a *C. serieo* Harm, multum omnino diversus videtur.

CONVOLVULUS COHUTATUS BOISS.

C. basi suffrutescens multicaulis totus indumento adpressissimo viridi-flavo brevi obsitus, caulibus erectis rigidis crassiusculis simplicibus vel parce ramosis, foliis radice ovato-spathulatis obtusissimis In petiolum eis longioram attenuatis caulibus sesquibus oblongis utraque attenuatis acutiusculis, floribus ad caulis apicem dense capitatis folio floralis utroque calycis abaequalibus, sepalis lanceolatis apice valde attenuato-acuminatis dense etiam rufo-viridibus, corollam exteri valde rufescenti-hispida calycem duplo longior.

Hab. in Mesopotamia ad *Moisoul* Aucher N° 1U 4.

Hac planta in Prodromo Gandolleano ad *C. lanuginosum* a conestom relate ab hac specie Europaeo-occidentali certè differt indumento breviissimo adpresso, praesertim caulibus crassiusculis rigidioribus 7-40 pollicaribus foliorumque forma que in *C. tenuino* semper floeraria sunt. Corolla in hac specie saltem 42-44 lin. longa

CONVOLVULUS SCUIBAZIANVB Boiss

C basi suffrutescens multicaulis totus pilis adpressissimis sericeo-flavescens, caulibus erectis tenuibus virgatis distinctè ramosis remotiusculè foliosis, foliis linearibus sessilibus basi subattenuatis acutiusculis elongatis, floribus terminalibus longiusculè pedunculatis densè capitatis bracteis sepalisque similibus subsqualibus brevibus linearilanceolatis subpatulè rufescentibus hispidis, corollâ flavidâ adpressè hirtâ calyce subtriplicè longiori.

Hab. in *Parstd aualralt* Aucler N° 4945, in monte *Sabst Butohom* propè *Schiraz* alt 4800' Kolschy N° 379

Gaules 4/3-4 pedales, folia inferiora sesquipollicaria [^] 4/5 lin. lata, calyx 3 lin. tantum longus, corollâ 4-12 lin. longa. A *C. saasat* var. linearis ei in *spadice* quocumque dixeram certè diversus corollâ elongatâ, bracteis non foliaceis. Decalyces superanlibus.

CONVOLVULUS MODICATUS BOISS.

G. perennis totus adpressissime sericeus, radice caules plures pamillos ascendentes parçè ramosos herbaceos edentes, foliis angustè lanceolatis utrinquè subattenuatis acutis inferius in pedicellum brevem abeuntibus catena sessilibus, floribus in capitula densa pauciflora terminata breviusculè pedunculata folio ea ^x quadruplè plerumquè suffruticulis dispositis, bracteis sepalisque densè pilulè et longè rufescentibus hispidis angustissimè lanceolato-linearibus acuminato-attenuatis, corollâ flavidâ exteriùs adpressè hirsuta calyce duplè longiori.

Hab. in prov. *Aderfndjan* Peris borealis Aucler N° 4047.

Gaules 6-6 pollicares, folia inferiora sesquipollicaria 5 lin. lata, corollâ 8-9 lin. longa. A precedenti distinctus caulibus humilibus a basi herbaceis, corollâ abbreviatâ, calyce majore. Habitu prope accedit ad *C. saxatilem* Yabl. qui præter caules inferius suffruticulosos differt bracteis calyces superanlibus capitula fulcrantibus

CONVOLVULUS LIBANOTICUS Boiss

C rhizomate crassissimo lignoso tortuoso supernè ramis caespitem humi adpressissimum densum edenti, foliis radicalibus oblongo-linearibus obtusis vel acutiusculis basi breviter attenuatis pilis adpressis ~~gracilis~~ canescentibus, caulibus adpressè hirtis tenuibus folio uno alte-

rove linear! acuto Instructls brevibua decumbenllbua simpllicibus vel ramulo uno alterove Instructfs apice 3-B flores laxfusculê approximatoa ferentibus aliquandò subnullis unifloris, pedicellis calyd sequelongis, bracteis linearibus p^evicellum squantibus superantibusve, sepalis sub lente breriter et adpressê hirtis rubellis ovatis aubaequallbuB obtnsis corollâ extûs carneâ birtulâ intCis albft calyce quadrupl6 longiorl.

Hab in excelsis siccis *Ltbam* suprâ Cedros (Bolss AucherN" 1399).

Folia radicalia 4-6 lin. longa lineam lata, caules longiores 1-3 poUI-cares, sepaia vix % lin. longa Species ex afflaltate *C compacti* ab eo distiDcthsima follis mints angusUs indumento gnseo nee senceo obltis, sepalls glabrescentibus obtusis subaequalibua nee inaequalibus longê acuminatis etc.

CONVOLVOLOS STBIGULOSUS BoisS

G. acaulia rbizomale crasso ligooso csspites densos compactos edentl, follis densissimê exspitosis lioean-oblongis linearibnsque Infernê attenuatis obtusis plicatis utnnquê pilis mudls rigldls erecto-patulls densissimê Btngulosis, flonbus in cxspite sesaillbuB solilarils sepalls dense et adpressê pubescenbbus minulissiiQis ovabs aequahbus muticis, corollA extûs valdê bireuiâ calyce sextupl6 longlorl.

Hab. in Anatoliâ circâ *Angora* et *Tokat* Aucher N° 4939.

Folia 6-6 lin. longa apice lineam lata, calyx vix ultrâ lineam longus Species bablta *C. cpmpacti* omninò donata sed diversa lndnmento striguloBO nee adpressê argyreo-senceo, sepalis multò minonbus ovatis muticis.

CONVOLVCLCS CBONDHILLOIDES BOISS.

C. caulibus basi BnffruUcosia glabrescentibus vindibus ereclis elatis Bubapbyllis stnetê ramosissimis ramisque apbyUis tenuissimê tirgatis scopanis laxisstanê paulculaUs paudflons, folhs pauds InferioribnB aoguBtê llinearibus basi attenuatis acutiuscuhs Bubtus adpressê et parcê birds csteris llinean-subulatis ad ortum ramorum oriundis ramo adpressis ramulls adpreasê et parcisslmê setulosis flffformtibus rigidulis patentibus apice 4-a flores minatos pedicello brevisslmo sub anthesi nutanli posteâ erecto suffultos ferentibus, bracteis ovatlB miDutiasimfs Bquaimefonnibus, sepalis albo-membranacels scarlosls pills nifls adpreBsê hirtis ovato-rotundis obtuslusculls, corollâ albâ eittis ad angulos sericeâ patulft calyce tnpl6 longlori.

Flab. in Persiâ austrah Aucher N° 494*, in monte *Elbrut* propè *Derbend* Persia boreali Kotsch N° LH

Gaules bipedales ramosi intricati, folia inferior* pollicam superoè 1-14; S hn. lata, sepala hincâ unft vix longiora Jatiioraque. corolla diametro fi-6 lin. lata. Species pulcbella affinis *C dorgenio* qui differt caulibus junioribus crassis hispidis, folus obtusis niullò latioribus, ramulis regulariter dichotomy cum flore subsessili in dichotomic, floribus dupl6 majonbus roseis, sepalis mucronulatis.

CONVOLVULUS PEDUNCULATUS DOISS

C. perennis caulibus volubilibus elongatis flexuosis palulè rufescenti-lomenosis folhs tomcnto denso flavido adpressissimo sericeo-velutinis inferioribus pedunculo brevè suffultiis superioribus subsessilibus omnibus oblongis aculis angustò cordatis subbustatis obsolete stoiè repandis, aunculis non divergenibus triangularibus brevibus acutiusculis subbilobis, pedunculis folio sexiuplo longioribus laxè 1-3 floris ad pedicellorum orlum bracteis oppositis Imean-selaceis pedicello brevioribus instructis, pedicellis rufo-hirsutis caljci aequilongis, sepalis rufescenli-birsutis albidis Imean-lanceolatis apice tngidant-acuminatis virescentibus, corolla ocbroleuca extus. ad angulos parce et adpresse birtfl cal>ce tnpl6 loagion

flab, in *Mesopotamia* inter *Orfa* et *Siere* Kotsch. K« B8.

Folia infcnora 4 4/2-S pollicana peduncuh coninmnes Bemipedales, sepala sex hneas longa. Affinis *C hirtuto* Stev a quo indumento, auriculis foliorum non divergentibus, foliis acutioribus diffierl. *C. atropurpurea* Poir. c descriptione foliis facie subpUosls margine cillatis alienusesl eta *C. hirtuto* Stev non differre vldetur.

CONVOLVULUS f ALXSTINUS fioiss

C. perennis caulibus volubilibus filiformibus elongatis procumbentibus ramosis adpressè pubescentibus, folus utrinquè tonento adpressissimo ad uervos venuloso nilentf canescentibus cordato-oblongis obtusè crenato-lobatis inferioribus loogè pedunculatis obtusis auperioribus brevissimè pedicellatis aplice attenuatis aculis, auriculte OUK mum non divergentibus obtusis lobulatis, peduaculis axilloribus 4*4 floris folia axilliana vix supmntibus ad bifurcationes bvacteoUs seta-

eels obsitis, pedicellis tomento&ls calyce longloribus, sepalis sunmembranacels ovato-subrotuDdis obtaslssimis mutlcis adpressè hirtfs, corollà cUnnà ad angulos senceft calyce quadruple longion

Hab. in cultis *Palmtyna* ubi legi loco non notato

Caules prostrall 9-4 pedales, foba inferiors petiolo blpollcan suffulta omnia pana, majora pollcem longa basl 9 lln. late, calyx 3 lip. longus. A *C. galatico* cul ladumento aflnis est differt eo minds denBO, roliis minis rugosis, sepalis non o\atia acumlatis. *C. staehydtfottiu* foliis glabnusciliis sepalis glabns mucronulatis differt

9. dtterstfohus — Folia inferlora subpalmaLm dissecta laciniu utnqu6 s-31anceolato-linearibus Intermediâ multb longion, folia superiora long* lineana acumlata integerrima aunculis S lineari-selacelB bastata

Hab. ad *Bolu* fiitbynlx (Pestalozza)

Indumentum et sepala omninb speciei, al tamen observationes ulteriores formam foliorum constanlem esse docent in novam speciem, *C. Btthynicam* dicendam engatur.

CONVOLVULUS CCELSSTBIACUS Bolss.

C. annuus multcaulls totus viridis minutè parce et adpresse pilosulusculus, caullbus volubilibus fillformibus procumbentibus angaloau, follbj Inferioribus petiolo els longion suffullis latè cordatis ovato-subrotundls obtuslssimis vix repandls intermediis obtusè quinquelobis tobo terminah elongato supenonbus brevissimè petiolatls digitacm 5 partitls laciniis oblongo-hnearibus aculls Intermediâ longion summls ssepè hneari-hastatiBacuminatls, floribus solilanis axillanbus pedunculo recto folium superantl Buffultn Infrâ medium 8 bracteohs selaceu suffiulto, parte suprâ bracteolas slta (pedicello) post anthesln senslm a basi ad apicem incrassatfl recurvâ, sepalls patulè hulls obovatls obtusisshiils longè mucronatis, corollâ roseà ad angulos apice pllosulft calyce trlpl6 longiori.

Hab. In cultis Coelesyria Inter *ffasbeya* et *fttucheya* et colul e seminlbnis relatis.

~~AlBn~~ *C. Fatmenst* Kunze qui differt folUs obloogls omnibus utrinquoA rotundaUm 4-6 lobla, pedunculls abbrevialls, sepallB mutlds T corollâ calyce vix dup!6 longlort. Corolla nostra speclcl 7 lneas drdter * longa el diametro tola eat.

GUSCDTA SCHIBAZIANA BoitS

**G. cauhbus capillaceis floribus capitato-glomeratte glomerulis medlo-
enbus sessdibus, flore singulo sessili, caljce ajl 3/4 usquè in lacunas
ovatas obtusas parlito, corollâ albâ arceolatâ calyce vix longion lobis
oblusiusculis, btamimbus faucem attlagentibus antheris flavis oblongta,
squamis ovatis obtusis denjculalis corollâ tnplb brevionbus, styllsa
basi divergentibus arcuatis obscure in stigma Incrassatis.**

**Ilab in collibus propè Scbiraz et Dalecblin *Echtnope*, *Pegano* etc.
parasitica Kotschy N° 418 et 318 sub *C minor* var.**

**Aflims *C. t/i/non* pro quâ pnôs babui diiTert corollâ albâ calycem
subaequant, calycls lobls obtusis, anthers flavis nee roseis, styhs a
bast nee apice divergtntibus**

CDSCDTA PALÆSTINA Boiss

**C. cauhbus capillaccis rubellis floribus capitato-glomeratis glome-
rulis mediocnbus sessilibus, flore singulo sessili, calyds carnosuli
lobis triangulan-oblulis dorso costato-mcrassalis, corollae calyce vix
longions lobis brevibus ovatis obtusis, anthers flavis in faucc subses-
silibus subrotundis, squamis minimis rotundatis denuculatis, stylis a
basi divergenubus vix apice in stigmata incrassatis.**

Hab. in Palaestinâ in *Poteno spxnoto* parasitica. (Boiss.)

**Capitula et flores eis pneitedentis et *C. mtnoru* ferè dimldlò mino-
res, calycis lacfniis eostato-inrrassatis etc. ab eis dlshncta.**

BORHAGINEE.

UBUOTBOPIUM GKANDIFLORUH Aucher. (Sect. *Cattmas*.)

**H. totum adpressè et mollter canescens, folls ovatis obtusis lon-
giusculè petiolails nervis subtùs parùm prominulis mtenslùs canls, ca-
ljcis birsuto-canl partitionibus lanceolato-linearibus, corolla hlruc
lubo calyce dupl6 longlorl suprâ partem antheriferam snbasllarem
constricto dem in limbum senslm dilatato, llrabi lacimls triangularibus
acutls in pnBfloratione revolntione marginum luearlbus rectis conni-
\enUbus, antheris ad basin corolla ferè Insertis, stylo subnullo, stig-
male e basi di&dformi glabriuscuia longè conico-subulato aplice pro-
tundè bifldo hirlulo, nuculis gtabris tuberculatis.**

Hab. in *Armenta* Aucher N^a 2376.

Corolla 4 lin. longa.—Sub hoc nomine hæc species et sequens confusus fuerunt quæ causâ diagnosis utriusque sic restituo.

HELIOTROPIDIUM CINNATUM Guss. Fl. Rumel. pag. 78 (Sect. *Cau-mos*.)

H. totum adpressè et molliter canescens, foliis ovatis acutiusculis breviter petiolatis nervis subtilibus valdè prominulis, calycis bursulo-lobi partito lobis oblongo-lanceolatis, corolla inserta tubo calyce vis longior jam ex apice partis antheriferæ in limbum ampliato, limbi partibus trifloribus marginibus margine convolutis in caudas setaceas antè et post anthesin intus circumscissas attenuatas, antheris ferè ad basin corollæ insertis, stylo subnullo, stigmate e basi disciformi glabrisculis elongato-cylindrico indiviso longè barbato, nucula tuberculata glabris.

Hab. in *Meiopotamia* propè *Mououl* Kotschy pi. Alepp. Kurd. N^o 636 sub *E. grandiflora*.

Corolla 4 lin. longa.

HELIOTROPIDIUM BOVBI Boiss. (Sect. *Catimat*.)

H. annuum totum pube molli densâ velutinum griseum, caulis ramis prostratis? foliis ovatis mucronulatis subsessilibus supernè lineatis subtus prominenti-nervis, stipulis abbreviatis, floribus sessilibus remotiusculis, calycis parvifloribus lanceolato-linearibus acutiusculis, corolla; pars tubulosa extima adpressè pubescentis intus glabrae tubo calyce subbreviori limbi minuti erecti lacinis triangulari-lanceolatis acuminatis margine supernè convolutis in pappo connatis mucrone recurvo terminalibus, stigmate subsessili e basi disciformi filiformi indiviso supernè pubescenti, nuculis ovalo-rotundis glabris tuberculatis.

Hab. in *Artina* *folci*. (Bové.)

Folia 1-5 lin. longa, (lores remotiusculis, corolla vix sesquialtera longa. Affine habetur et indumento 3. *rotundifolia* quod differt radice pereoni, floribus majoribus, nuculis pubescentibus lavibus, antheris muticis, vobis corollæ calycem subsuperan etc. — Jestivalio corolla inter sectiones *Catimas* et *Euhelwtropium* limbi ex varietate latitudinis et convolutionis lacinarum calycis ortu videtur; in uanis lain

el obtuse sunt tunc plans et tessivallooe quocunclales, si anguste el acute tunc margine convolute apice incurvs et xstivacione conniventes videntur, sed etiam ID eis si rectè species ex quâdatn irregularitate dispositionem quincunrialem potfûs quam valvarem dignosces.

UBLIOTBOPIUM DIBSITIFLORUU Boiss. (Sect. *Euhelwtroptum*.)

II annum tolum sub lente plhs rigldis brevissimis adpressiusculis albis e tuberculo ortls glandulis pellucidls Intermlxtis subdnerasceDs scabrum, caullbus teretibus-divaricabs ramosissums, follis parvis ovatis obtusls breviter petiolabs Bublds clavato-nervosis pallldloribus, spicis prlmùm scorpioldeis dein elongatis dissihflons, flonbos sessihbus parvis, calycis giandulosl adpressèque hirti quinquepartiti partibombus linean-lanceolatis obtusis, corolla albs tubo calyci squilongo exlûs adpressè pubescenti inlbs glabro, llmbi partitionibus ovato-rotundis oblusis prafloatione quincuncialibus, anlhens paulalûm sub medio tubo corollas inseriis mucrone brevissimo obtuso inflexo terminate, stylo patulè et densè barbato, stigmatè stjlo paululkm longlon e basi disciformi glabrâ conico-subulato supernè puberulo, noelbus ovatis laevlusculis glabns calyce superatis.

Hab. in Persiâ boreali propè *Sonak* in lapidosis mootis *Elbrus* Kotschy, No 583 A.

Caules pedales forsân diffosi, folia 4-6 lin longa, spins fructlfer? saepè semlpedales, flores paul6 minores eis *H. Eushwaldx* quod 4 noslrâ specie differt mdumento non glanduloso, follis majoribus, flonbus non dissitis, stylo brevissimo filabro

HELLOTROPIUV ALBPPICDM Boisa. (Sect. *EuheltotropMtn*.)

H. annum totum setis albis brevibus basi tuberculosis densè strigulosum cano-grifleum, caule erecto pnmllloa basi ramoso ramls strictiusculis, follis obloogis vel oblongo-linearibus acutiusculis utriouè attenualls breviter petiolatis facie superior! Thridioribna minus setosis inferiori saepè prominenter nervosis, spiels bravibufl lailflorte terminalibus inferoè bracteatis, calycis partiUombos triangulari-lanceolaUs acudnsculis, corolla parva ferè tubuloss extûs serkses Into glabne tubo calyce vix loogion limbo minimo sstivacione quincundall lobls subcrenato-dendculatis rotundatas, antheris paulb suprâ basin ooreHe insertis apice breviter mucrenatis, stylo nullo, stlgraaie e basi snbdl-

lataiâ cylindrico-aubulato aplice albo-penicillato csterum glabro nncalimlmis ovatis tubercflatis glabris calyce paal6 superatis

Hab In planitie data inter littora Syria? et urbem *Aieppum* sftâ ubi leglJun. 4846.

Manta 3-6 pollicans, folia pollicem et amplius longa 3-4 Ho lata, floras els *H. supvnx* vis majores. Species indumento, habitu sfriclo, spicis ham bracteaUs disinctissima

HELIOBOPim BBBVILIMBB Bolss (Sect. *Euheliotroptum*.)

H. perenne suffhitescens totum adpressè velutiDom canum, caulibus erectis subalmpchibus follosis, foUs oblongis obCufluscallfi In pe-tolum brevissimum attenuate paginâ gupenorl m Uneatis Inferon elevato-nervosis, spicis ternnalibus scorpioideis brevissimn densiflom, floribus sessilibus, calycis pardtionibus hneari-IaaceoUts oblusis exteroè dense albopilosis glandulosqae internè adpressè hlrtis, corolla dense et adpressissime hlrtae crasaiascul* tabo calyce paulo longion ima basi constncto lotus glabro, hmbi mimitssiml rubelli lobls ovato-rolundia sstlvallone quincundallbus, anthera sub medio tubo insertia apice TIX mucronatis, stylo breviter birto, stigmate stylo paulb longion e basi dlsafonni conico pubescent!, ovario glabro.

Hab. In Onente probablEter *Perna austrah* Aucher, N* 6006 A.

Caulis in meis specimljbus semipedales sJmphces erassluscul, folia 4-6 lineas longa 3 lata, sploe terminates semipollcares, corolla 1 lin. circ. longa species minutle Hmbi corollni notabllis dlspositlone spinæ *Helumthemum sesaiflorum* referens, babltu affQns *B. rotundifolw* quod differt formâ follorum, corolla? mult6 majons limbo amplô, stylo nullo, antherls aplculatis, etc

HsLtoraoPiDii nDOLAIIDH Vabi var *tuberculosum*. — Fruticosum, qaallbus rlgiduUs ramosissimls, totum pills albls brevibus e mbercolo albo ^rtis scaberrimuno. Folia para margine oonroluta Ternlculata. Spies flonim «aldd abbrerlata, nucute glabra plurumquè In fructum bipaiUuem geminatlm concrete.

. *B. tvbereuloium* Bolss. et Hoñen. in Kotach. pi. Pers.aastr.

Hab. in insulâ *Sorgo* Persia australis Kotsch. M° M, in PwtfA australi Aucher, N° 5002.

Nibli TOriabilloft *H. unduiato* cui speciès phires a varlta aDctorlbus proposlte conjungend« auct. Quoad habitum nunc dnmosum mtero-

phyllum obovatum foliis es nunc diffusum elongatum folia plus minusve dilatata margine undulatis, quoad Indumentum ejus pilis mollioribus rari e tuberculo orbi modo ceteri adpressi molliore vix Uiberculoai, froclis modo glabri modo plus minus pilosi. Nucule non minus variaot, in forma vulgaris iEgyptiacâ fructus quadripartitis eat ob margines elevatos nuclearum ad sutures quadricostatum, In speciminibus lananensibus nonnullis fructus quoque quadripartiti nuculis minores sunt magis tuberculale et margine non elevate unde fructus ad suluras quadrisulcatus, in albis speciminibus Ganariensis et In varietate *tuberculata* supernè descriptâ nucule binatim concrete flant quo forma in Prodromo Gandolleano Inter *Heliophyta* sub *E. erosi* nomine Vecenita fuk bujus generis cum *Hehetropto* nimirum affinitatem demonstrana, in plaalis Sennariensis et Assyriensis Aucher, N° *378, fructus denique quadripartitus est sed dorsum nuclearum gibbo inanis albidum auctum est. Omnes illa fructus variationes cum illa formarum et indumentis tal modo combinata sunt ut nequidem varietate facile delimitari possint. // *undulata* Jgitur ut synonyma adjungenda sunt *n. ramosissima* Sieb., *H. ertocarpum* Schimp. pi. Arab, non Del. *H. Persicum* Lam., *H. eroatm* Lehm. et probabiliter quoque *H. Uaroccanum* Lehm

Legi fine Januarii 1846 *H. Euzit* Lehm. in cultis superioribus supra *Esnt* copiosum, hujus radix constanter et evidenter annua est nec ul. Lebmann antumaverat perennis DJPC species ex floribus accuratiori Piamne ab *H. nittotigo* DC. et *H. obovata* Font, non differt. *H. Coromandelianum* Betz etsi valde affine forsân ab eo specificè differt sepalis angustioribus, stigmatibus longis conico apice inspidulo nec scabundo, antheris longioribus angustioribusque.

EcBinv MABiAinjM Bobs.

E. perenne totum molliter sericeo-villosum cano-griseo, canibus dense foliosis, foliis sessilibus oblongo-lanceolatis utrinque ad nervos tenues vix prominulos albo-nervatis superioribus ad basin panicula sensim angustatis, paniculae simpliciformi ovato-cylindricæ, bracteis calycibus vix squantibus, calycibus adpresso albo-tomentosi quolibet lacimis lanceolatis acutis, corollâ crucea vix irregulari sapere breviter ad nervos longius strigulosi, staminibus exsertis corollâ dupli longioribus, stylo stamina subsoperantia ad 3;4 longitudo birsuto apice longiuscule biOdo.

E. fcutuosum DC, Prod, quoad pi. Hlsp. non Jawj. — *E. oandioant* DC. cat. Hon. MootpP et herb, DOD L.

Babul ab anilciss. D^r Pablo Prolongo Malacensl qui legit specimen ualcum hujua speciel In faucibus moultis Sierra Jforena secùs vUm MatrieDsem in conBortio *Digitalis Mariana*.

Use species meo sensu ab *E. fattuoso* sat dffert foUorum indumento copiosiorl sericeo, paniculae densioris bracteis flores nunquam superantibus. floribus longè mlnoribus, calyds 9 lln laotòm longl In duineDto cano nee pills slngoso-luberculosis Intermixto, corollâ magls regulan. *E. ntrvotum* Maderense noslrs speciel simile dffprt indumento adpresslssimo asperulo, splcâ denalssiniâ, etc. Cùm specimen Imperfectum lantùm vlderim nesdo an in plantâ Hispanic! Ule troncuB Ugnosas occurrat In spedibus Canariensibas adeò manifestus. Spedmlna herb. DC. *E. cavdtcantu* ciquis patrla lgnola erat mea plantn **omniâ conveniunt.**

ECOIDM PATONIANUM Bolsa.

E. perenne caullbus densè follosls densùnlmè el breviter elnereo>cants, follis lanceolato-llearibus In petlolum breviter attenualis acutls dupbd indumento allero brevlssimo lenie persplcuo altero e pills tubereulatis eonslanll obsitfs adpressè breullls margins clUalls paginâ, Inferiorl pallidionbus, follis supremlsad panicule basin llinearibus brevisslmiB, omnlarn nervis prommulls, pauculâ ovalâ spicseforml-, laxiascuU splculls pedicellahs, calycls quinquepariill adpressè hirli pallldè vlrenlis ladnlis llinearibus crassiusculis obtusis ad nervos sparslm tuberculato-strlgosis, corollâ e sieeo carneâ calyce dup!6 longlori lolis rotundaUs vlx Inaqnallbus pared et adpressè birds, slamlnlbus corollâ dupl6 longioribus, stylo stamina superanll longè blfdo ultrâ 3/4 longitudlnls hlrsuto.

E. futuotum DC. Prodr. quoad notulam Don Jacq

Hab. In Hispaniâ propè *Aidtguela* (herb. Pavonj. Hie locus mlhigtgnos eat sed ex aduduls formâ et comparatlone ID provindâ J?o-*tnmadurd* probabUur situs.

Habitus *E. Viretcmiu* DC. Folia infenora ta meo spedmlne bipol-Ucaria tres lln<as lata, panicula 3-4 pollicaris, calyces l lln. corolla 9 Ifi Un. lenga. Medium Inter *E. Mananum* el *E. polytaulon* a priori dffVrt Indumento dupttel, panionlâ lniorl, calyds adpressè lilrtl vlranlla nee densè albo-tonentosi ladnlis obtusls, etc. *E. polyoanlon*

longius differt lodumenlo totius plants palulo striguloso, follis caulinis basi lationbus subauncubtis, pamculā, calyclbos valdè strigoso-ciliatis, etc

EuiHIM POLYIMTLON DOISS

E. perenoc vinde tolum pilis brevibus albidis e tuberculo albido ortis stngulosum • folus radicaibus magnis rosulatis lanceolato-lloea-nibus, caullbus numerosis»simplicissimis ascendentibus internè angulatis fohosis superue louge pjamldalo-apicatis, fo'iis cauhnis a ban lation subaunculaUlanceolato-linearibus acutissImis seqsim diminutis, spiculis brevibuB subscorpioideis breviter pedunculatia folio floral) lanceolate vel hnean ID infenoribus flores aequanti in supenoribus eto breviurl suffullis in spicaoi non interruptam longam tenuem basi vu laborem approximate, ulycis infra medium usque quinquepartiu IU-fernc glabnusculi lacimis lanceolalis acutis supernè ngidè ad nerose margmem stngoso-cihatis, corollae parvae tubo glabro calyci squilongo, bmbo intensè violaceo extus adpressè senceo tubo squilongo lacinus rotundaks subsquilonis, stamioibus glabns coroLft duplò longionbus subaequdongw, anlhcris violaceis aubrotundis, stylo stamina Buperanb apice bifido a basi infra medium birtulo, nuculis mlnimis tuberculatiB tuberculis aculis.

E. Luattantcum DC. Prodr. et herb non aliar.

Hab. in valle *Plcuena* ExtremadursB inter *Tomabawu* et *Cabztula* (berb. I'a^on.). Fl. Jun

Ex descriptiunculā scüedulaB PaironlaiUB caules numerosi conceutncè e radice ascendentes esse \identur sed an e centro rosule aut Infrā eam nascantur nescio. Mea specimina se&quipedalia aunt Infernè foliis 3-4 poll. longls 4-6Jin. latis densè obsita ID spicam (ennem 6-8 pollicarem abeuntia. Vlores e mininds generis, calyx vix 1 hn. longus corolla 3 \fl longa Affine *E. Mariano* et PavoDiano a quibus diflert Indumento stnguloso nee plüs minüsve senceo, panculā Jongisshnè spicxformi aliisque notis et cum els fonnans sectiunculam ab omnibus *Echw* Europeis corollā mlnntà subregulan dlsinctam. *E. Lunlanta-oum* quod in berb. Jussieu ollm vidi est species disinctisstma ex afflmtate *E. Italia* cujus descriptio nostne plants nlmme^convenlt BUD in est flores magni, stamina duo iliis mnll6 longiora, ffoH> moUuseole canescenlia etc esse dicuntur

ECHIUS BLBGAIB Lebm. var. *toeana* BOISB. et Heldr. — Totnm et densita¹ secus caules pube dopud allerâ brensissimA densft alteris e pilts albis eloogatis constaDti adpressissimè tinereum, foliis margine subiiDdulatis Doralibus abbreviate, calycis adpressè cani abbreviatl lacinils obtusioribus.

Bab. In arenosis mantimia Crete ad *Gydonum* cum formâ genuinâ. (Heldr)

Piimâ fronte base vaiietas dlveraiasma videtur a specie In quâ Indumentum valdè patulom et strlgosum adest, sed specimlna intermedia occurrunt in quibus pill partis supenons plants patah flunt Eodem loco cl. Heldreich legit formam alteram submonstrosam *E. elegantu* indnmento quoque adpresso dooalam in quâ folia angoblè linearia lineam tanldm lata sunt, calycis laclnue linean-aetacea corollam ferè squantes; bæc forma quoque et rapè in eodem spedmine ad formam vulgarem transit

ECHITTH ALOHBB&TDK Polr. DICt. VIII, p. 670.

E. bleone pallide vlrens foliis infenonbus lanceolatis vel lanceolato-linearibuB in petiolum longè attenuate obtusiusculls adpressè et tenulter aetosls Bèns subsquallbus tuberculatis, caule tereUnsculo simplidBBImo Botia longfe patuhs pube brevissimâ Intermlxtâ bispldo In spicam longlsBimam tenuem basi interruptam abeunti, follis caullnls floralibusque basi vn dilatatis longè acuminatiB hlsce spiculas subsessdes secundas brevissimas glomeniliformes longè superantibus bracteia anenste llineanbus inordinaUm setoso-strlgosis, calycis laclmw adpressè dense et equaliter albo-^eiosis, tubo corolla e calyce broiler exserta limbo vis longion titua ut et flamenta glaberrimo.

Hab. in *Palmittnd* (Bolas.) *SynA* Labilll Auchl

E. Elongatum I^m. ex spec, bort Parian in berb. DC.

Hujus Bpecièi dlagnosim dedi ob comparisonem cum sequenti Hispanlci a me pnóa cum eâ confusâ.

EGHIDM POMPONIDM BOISS. Yoy. flsp. in Tab. 41i.

E. bienne, cano-grûieum, foliis taferioribus ñnceolatis acutis basi hreTiteraUenuatIB adpressè et densè selosls, caule sulcato aimplici rarlte basi ramuhwo setla aparaia albidis pubeque breviori Intermutâ strlgoso in spicam longam inferne interruptam. craaiain jam ferè a basi

Ipsa abeudti, foliis caulibus floralibusque basi distantibus subeordatis hirsute spiculata scorpioldeas subelongatas non sequantibus, bracteis triangularibus acutis facie breviter puberulis margine regulariter cillato-pectinatis, calycis lacinae pube duplici altera brevi adpressa, altera sessile ad margines pectinatim ad nervos sparse dispositis constanti obsitis, corolla tubo e calyce breviter exserto limbo longiori Intils ad basin filamentorum hirsutis

E. glomeratum Boiss. Voy. Hisp. p. 494 Don Polr — *E. Lagascet* Boks. El. DOD KechL — *E. Bousun* Bend Nomencl. — *E. albicans* Schioll uon Lagasca.

Uib. influentia australi (Bolss.), Africa boreali ad *Timgidem* (Salm) et *Algerum* (Bp*i*)

SYVPHYTUH PALBSTINDM Bolss.

S. perenne, caulibus erectis ramosis angulatis petiolorum decumntia anguste alatis pube brevissima viscidula pilis patulis sparse mixta obsitis, foliis radicalibus petiolo alatis longioribus suffultis ovatis basi cordatis vel rotundatis obtusis, caulibus oblongis sessilibus subsessilibusve basi brevissimis attenuatis decurrentibus acutis floralibus ovatis cordatis, omnibus duplici pube altera minutissima viscidula altera e sessilibus Don tuberculosis ad nervos et margines sparse constanti obsitis viridibus mollioribus, calyce eadem duplici pube parte obsiti lobis triangularibus tubo quadruplo brevioribus, corolla tubo calyce sesquialongior, foribus lato-linearibus apice retuso-truncatis uninerviis pellucidis margine brevissimè cillatis antheras superantibus, calyce fructifero patulo deflexo breviter pedicellato oblongo-cylindrico fructu quadruplo longiori parce tuberoso-Jaloso-setoso, duobus elongatis rectis, areolis augustis elongatis minute tuberculatis.

Hab. ad margines maritimum et in cavis umbrosis circa *Hierosolimam* et propè *Rascheyam* in Anlibano, (Boiss.)

Facies S. *Orientalis* quod differt indumento copiosiori, caulibus non decurrenti-alatis, calyce corollae propere breviori, nervis multo brevioribus in parte obsolete areolatis. 5. *Anatolicum* distinguitur indumento-scabrido, caulibus Don alatis, calycis fructiferi quoque aucti obconici pedicello elongato laciniisque elongatis, nervis dimidiis nonbus areolis paucissimis.

Spedmlna Smyrntea *S. Taunci* et *Ilia S. a*f<rrimi* In Insula Co* In Prodr. Cand. pag. as et 30 dtata ad 8. jlfMtolfovm referenda suot

NONNEA REUTEBIANA BOISB. (Sect. *Orthocaryum*.)

N. annua pills inaequallbus basi luberculoslB mhratla asperaia visdula caulibns erectlusculs, folils sessllllos obsolete dentlcalatls Inferloribus dlfpfco-linearf boa obtusls basl roUDdaUs nipeioribus e basl latlorf eemlamplexicaull ovatta acutia, florallbua calyces pardm superanUbuB, racemia laxu bifldls, calycibus fraclifem breviter peduDCDlatte pateotibus inflatis breviter ovatis fert ad medium usquè Sfldfs deollbuB lanceolatIB acutis, corolla fer6 lubuloex tubo flavido calyce breviori limbo bre>lsBfmo atrovlolaceo erecto denies calyds partum sopraoli lobifl rotndatls, fornicibua subindistlDctls ad faucem drculam barbatum supra aotheras formantibus, nuculis reccla aplce subcarvatIB basf subaDgustalls utrinque angulalo-carloatla JaevlbuB albpunctnlatis parce puberulh.

Hab... >idl In herb. amlc. Heater ex hort. Geoev. colt, sub nomine *N. nigrioantis*.

N. ntrgicanti habltu et floribus equidem simlHa sed disdncta nuculIB non subgloboBiB rostratls annuloque tomido pilcato dnetis sed trlplo mtnoribus rectls ltoeam vel paulb amplins longls llineam dlmlldam latIB lltus *N. lamprocarpw* referentibiis sed punctulatis nunquam ntl-diB nee suprâ basin In coUom constrictis

MONNKA AUBICUIATA Bolss (Sect. *Orthooryum*.)

N. perennls, caule erecto sulcato folioso parte florall tantm ramuloso brerlter glanduloso-pubescenti papillis albis intermutls, folils utrlnqffi breviter et adpressè moUuscullB papiUls crassloribuB htfc indè intermlxtls radicalibus oblongo-ovatIB acutis in petlolum loogilBilmm attenuatls caulins oblongls vel oblongo-lanceolatis acntls BessUlbus paul6 suprâ basin utrinquè rotundalo-auriclatam sobaognstallB, florallbnB brerUer ovatis acutloriboB basl roUrodatis, floribus In panclblam lenninalem oontractum dlspostls, calyce adpressè velutino gumduleM ad tertiam partem acutè 5 lobo post antbesln Inflate nuUntl.copolke vlolacea; gltbra tubo calycl squllongo llmbi luño dupl6 bravlorto lobls rotundatta, Bquamls harbatu brevisslmls ovatis ad antbeam altlodlnem com els alternanHbiB, ttlgmate capitato, nod-

bus ovatis rectlaalbidls tovlbus latere Interior! cariuatis pillosls, margine basilan angusto laevissimo

Pulmonana officinalis «. p *mollu* Boiss, et Cbaub. Fl. Pelop. N° 315 non Wolf.

Hab. In sylvis circà templum Apollinn propè *Plugaleam* In Messenia. Floret Blaio.

Folia radicalia cum petiolo ferè pedalia, caulis pedalis et ultrà. Habitus et magntiido florura *N. pulla*. Species formà foliorum distinctly sima et radice perenni in seclione Inaignis.

NONIWA PHILISTAA BOIBS. (Sect. *Oryptanthera*.)

N. annua lota brevissimè pubescenti-viscida praetereaque setfs sparsis brevibus rigidis e tubereulo orlls ad canles et foliorum marginea copiosionbus aspera, cauibus procumbeniibus ramosls, folils sessilibus integris >el obsoletè rcpandis inferlonbus lanccolato-linearibus infernè altenuatls supcnonbus ovato-subrotundis brevissimè decurrantibus acutls florallbus calyces superautibus acuminatls, racemls abbrevialls denslusculis 2-3fldia, caljce subsessili fructffero erectopatentl bretlter ovato ad teriam partem usquè in lacinias tngulares aculas flsso, nuculls transversè ovatis depressls margine basUar) vlx mcrassato acutissimè plicato donalis areolatls sub lente exlmie punctulatis obsolelissimèque puberuhs, corollx pallldè aurantiacs tubo ealycem aeqüanti, limbo mediocn crecto-palulo, formcibus nullis manifestis, fiiuce suprà autheras circulo barbato dnclA

Hab. in Palaestlnà circà *Gam nbi* legi Apr. 4846.

Afflns *N. lutece* sed calyces magls abbreviatl lacimis multò brevioribus corolla? paulb minores nnculsque non rectae A *N. flavetcentv* cut magis afDnls eadem nucularum notà graviorl discedit, mellòs collocanda propè *JV'* *ntgncantem* qus differt colore florum, limbo corollino minuto, nuculls minùs depressls crebrius areolatU tuberculatig.

NONNXA VBLAMOCABPA Boiss. (Sect. *CrypUoUhwa*.)

N. anoua lota sellls albls tuberculatls insqualibus allls mlnlmals'iadpressls aliìB maioribus sparsls ad margnes foliorum et caules coplosloribus strigosa, caubus procumbeniibus ramosls, follis integrilalalferloribus oblongo-lanceolatis obtusis basl longè atteouatls caeteris «l-liplicis vel oblODgia basl lation subcordatu florallbus.calyces ~~superan-~~

fibus acuminatis, racemis laxiusculis simplicibus vel bifidis, calycibus fructiferis deflexis campanulatis infra partem inferiorem laciniis lanceolatis acutis fissis, corollae parvulae violaceae tubo calycem superanti, limbo imbricato erecto-patulo lobis rotundatis, fornicibus brevissimis circum barbatum ad faucem supra antheras fornicibus, miculis atna transverse oblongis duplo longioribus quam albis albo-puberalis areolatis rugis partim prominulis, margine bacillari pericalulo non incrassato.

Hab. circa *Htensolymam* nbl legi Apr. 1846

Accedit ad *N. mgneantem* sed haec differt tubo corollae atropurpureae calycem non superanti, nuculis subglobosis. *N. violacea* DC. colore corollae magis affinis e descriptione et Specimine culti herb. DC. differt limbo corollae amphoro, nuculis glabris subglobosis.

NONHBA EUPBBATICA Boiss. (Sect. *Oryptanthera*.)

N. pereons flavida tota pilis adpressis albis brevissimis vix densis allis longioribus e tuberculo ortis hirsuta, caulis humilibus foliosis, foliis oblongo-lanceolatis acutis radicalibus breviter in petiolum attenuatis caulibus semiamplexicaulis, panicula valde contracta, calyce obcordato ad tertiam partem lobis triangularibus aculis post anthesin deflexo inflato, corollae lobis tubo calycem aequantibus, limbo tubo vix brevioribus lobis ovatis, squamis supra antheras ad faucem sitis longissimè et crispè flavido-barbatis, nucibus junioribus puberulis.

Hab. In Armenia in praelis ad *Eupkratem* Aucher N° 4978 B

Planta caespitosa caulibus simplicibus, panicula ut in *N. ptillo* contracta. Huic speciei characteribus et corollae magnitudine affinis sed certè ab ea distincta staturâ humilior, colore flavido, corollae coloris, huius limbo tabi proportions longioris et praesertim squamis faucialibus triplo longioribus barbatis.

In Drag. pi. br. 7 pag. 35 dole quaedam de discrimine interim. *Perveion* et *N. puttam*. *N. Perstca* quam quoque in Persia boreali legit Kotschy abundè differt a *N. pulla* foliis hinc inferius glabris margine ciliatis, bracteis linearibus elongatis, corollae lobis miolibus, squamis brevissimè barbatis, nucibus subcristatis etc. sed planta Sotsch. Pen. Austr. N° 407 a me prius erroneè ad *N. pullam* relata est At *Ctupioa* Don radice aonuff, carpellis siccis etc. diversissima.

NONHBA •AcaosPEmia Bolss. et Heldr (Sect. *Oryptanthera*.)

N. perranfs, radio* cnsst vericaW, caule erecto a huius patule nmo-

sissimo ramoruru decurrentiis angulato-compresso pube brevi subviscidâ retrorsim adpressiis scniâ obsito, foliis radicalibus rosnlatis oblongo-lanceolatis utnquē altenuatis petiolatis, caullnis lanceolatis sessilibus basi semialexicaulibus raritis subdecurrentibus ooiDibus duplici pube alterâ brevissimft viscidulft alterâ e pilia albls nitidw tenuibus e tuberculo ortis retrorsim adpressis conslante valdē scabridft in paginA supcnon copiosion obsilis, pube viscidulâ fn parte supenorl plants prxvalenti, ramis dicbotomis, Ooribus In racemos elongates laxlusculos dispositis, bracteis lanceolatis calyces aequantibus, calyce densē et viscidē hirsuto ultrâ tertiam partem 5 Ado lobis lanceolatis acutis post anbesin valdē accreto inflate nutanti, corolla lutes tubo calyce paulb longiorl, limbi minuUssimi lobis rotundatis, squamis forniciformibus «uprâ antberas sltas ovatis magnis inter se contlguis longissimē barbatis e lâuce exsertis, nucibus senlglobosis lateraliter rostratis magnis glabns rugulosis latē annulatis annulo ad spincterem pllcatislmo

Dab in collibus andis propē *Egirdtr* Pisdla. (Heidr. Jun. 4845.)

Planta adpressē stngosa et supernē prziereâ viscidula, caulis 4-8 pollicans, folia radicalia cum petiolo 3-6 pollicana. Floras eis AT. *pulla* paulb minorcs. Nuculs S 4S bneas longs lataeque. Species distinctissima caule divaricaUm ramoso et Imprimis squamis floribus In fornices veras auctis et transitum ad *Anohwtu* prsbentibus. *N. decurrenti* appropinquanda quae caule elato simplfcf, foliis caulinis decurrentibus, nuculis pubescentibus etc. etc. dlffert.

ANCOUSA SPADNEBI BOISS (Sect. *Buglossum*)

k. annua, caulibus erectis fohosis parcē ramosis pills e tuberculo ortis patulis vel retrorsis aspens, foliis obiongo-lanceolatis repandis denticulatisque elsdem pilis brevibus tuberculis sparsis asperis, racemls pruribus subcorymbosis dicbotomis, pedicellis post aotbesin erecto-patulis fructu dupl6 longioribus, calycis quinquepartitl lobis adpressē hirsutis Imeanbus, corollas caroles tubo recto calyce sub-Besquullongiorl, fornicibus e lâuce eisertis obtusissimis ovatis margine vlx papillosis, stylo nuculis rugosis granulatis sesquilonion.

A. stylosa |9 major. DC. Prodr.

Hab. in *AttuA* (Spruner) *AnA* minor³ In Piâdid propē *Bouldopr.* (Beldralcb.)

VaWē atfinis *A. ilylosce* MB et cum guâdam dubilatione hie propo-

slita sed differre videtur indumento stngoaiori, follis latoribus, tubo coroffino styloque calyce sesqui Dec tnplb longlorilnis, foralcibus vlx marglne papillosis.

A. *Auoheri* DC. in monte *Quno* S)ris borealis quoque crescit et flores roseos nee ut cl. A. DC- e sicco putaverat flaws babel.

ANCBUBA THESSALA BOISS et Spr. (Sect *Buglossum*)

A. annua tota pihs e tuberculo ortls albis adpresBiusculis sparsis aspora, caule gracill erecto parcè ramoso, foliis lanceolatis obtusls vlrldibua ioflms in peilolum brevem attenuatis esetens sessilibus, racemiB termloallbus rectls dichotomls laxlfloris, pedunculis strictls, calyds adpressè strlgosi ad basin quioquepartiti laciniia aogustè linearibua corollidum tubum sequantibus ID fructu rectiusculs ouculaa dupl6 superantlbn, corolla) pallidè cxrulee Umbo tubo recto paufobrevfori, foraicibus e feuce exsertls obtuslsslmè ovatis margtoe brevisslmè papillosis, nucull rectis angualo-cyllndncis longiludinaliter rugosis prtDtereàque tuberculatis marglne baafuari Ix\l_t stylo calyce fructifero **breviori.**

Hab. inter segetes propè *Zntoun* Thesaalis. (Spruner. anno 1837.)

Species babltu et florum magnitudioe A, *stylotas* et A. ^ r a n m slmimma sed ab els dislncUsslma styli brevitae, calycis laclmls mullb aogustioribuB fructu dupld longioribus nee ei squilongls praeserUm nucalis rectis elongatis tenulonbus oec ut m speciebus praecedentibus globofto-locarvis.

ANCBUSA LIMBATA Bolss. et Heldr.

A. blennis, ctullbus bumlllbus rectta folloals pills albls longla patulis strlgosis blspldlssimls apice dlcoiomls corymbosls, follis radcallbns numerosls elongatis basl subattenuatls, caullnlb brevloribus, omnibus angnstè lioeari-lauceolatis linearibusque albo-strigosls pllis presertim loferlorum e tuberculo ortls, racemls terminaJlbusbrevUius paudflorls, caljce adpressè blspldo ad qnartam partem obtuslusculè qtnquelobo post anfhesln aucto campanulato patalo, corollis tubo rubello calyce sesquilloDgiori senslm ID Umbum atropurpureum integram vlx ore*nulatum angustum rectum subdllalato, antheris fornldbusque obiongts peDldllalls inter se subaquaUbus Hmbumque supe-

rantibus euertis, stylo calyci fructifero squUongo, nucultsjunioribus glabris Iambus globoso-Incurvis.

Hab rarissima in colle calcareo pinetis consito Pamphylla inter *Adalatihnuljt Khan*. (Heldr) Fl. Mart

Species distincta corollâ 3 lin longa senslm attenuate in limbnm \ji lineam tantim latum rectiusculum nee ut In allis spedebuB patu-Inm, vix manifesto crenulatum nee lobatum. Fornlces ut et anthers corollam superantes

ONOSMA BsnicBA Willd. MB — Hujus propter confiislonem cam specie sequent! diagnosin blc dabo

0. basl suffrutescens tola pilis simplicibus adpressis sericeo-clnerea gnseo-argentea, folils oblongo-Ianceolabs acutiussculs in petiolum bast attenuatis, caulibus simplicibus raremos 2-3 terminales brevisslmoB stnetos fcrectibus, cal)ce adpressisBimè setoso fructifero ban induratâ 5 cannato-gibbo ladnhs accretis basi angustalis lanceolatis acubs, corollâ calyce duplô longiorl, filamenti jam sub antherâ a corollâ hberi parte liherâ antheram subsequantl, nucibus laevisslmB

Hab In *ib&nA, Perstd Lorealx*

ONOSMA FLAVIDA BOISS (Sect. *Aponosma*)

0 basi suffrutescens, tola pilis simplicibus adpressis sericea et pra>sertlm ad folia cauhum stenlium flavida, folns radlcalibus oblongo-spatbulatls obtusw in petiolum attenuate, cauhnis subseasibus oblongo-lanceolalis acubs, caulibus simplicibus supernd a-3 racemos strictos breves ferentibus, calyce adpressissimè setoso fructifero basl induratâ acutè 5 carlnato-gibbo, lacinus accretis lanceolatis acutfs, còrollâ ca-Jyce terflâ parte longion, fliamenti etiam suprâ antherae basin cum corollâ concreti parte nberâ antherâ dinridiâ breviori, nuculls nltdls obsoletè tuberculatis utroque latere cannatls.

Hab. in *Syria* (Labill Boiss.J, *MesopotamxA* (Olivier et firug.).

Simile pracedenU sed notis datia di&tinctum.

Colsmannxa flava Lehm ex icone et desciiptione mihi species On<M-matis 0. sertcea afflois esse videtur, nueula quidem a cl. auctore basi perforata dieitur sed in icone imperforata et ut in *Onosmate* basi truncato exhlbetur. Corollas ut in *Colsmanmd* calyce breviores et eo ocnultatas in 0. *flavido* submonstroaê occurentes saepè vtll et calycels lorma omninb eadem

ONOSKA TAYGBTBA BOMS el Heldr. (Sect. *Aponosma*.)

On. biennlsP tota setis albis lenuissimis albidis rigldis patidjg e tuberculo glabro ortis stngosissima inter eas scabnda flavo-virens, caule a basl palulè ramosissimo, folila Iraeari-bnceolatis margnibus subtùs subrevolutiB nervo medioque elevato longius setosis, racemls stnctis axis bracteis lanceolatis acutis pedicello longionbas saffultis, ualyce palulè tuberculato-slngoslsslmo ad basin usquè 4 partilo toci-infis duabus in unam apice bifldam connatis, fructlfero aucto obconico laclnlls reclis costà medià lutescenb elevation percursiB fructa quadruplb longionbuB, corollà albidà pubescent! supernè incrassatà calycem vix superanti apice bretissimè 5 lobà, anlhens parte tertià superiori exsertis, filamentorum partè liberà infrà antberas vix products, nucibus oblongis rectls canpato-rostratis lente granulatis vix oitidis.

Hab. inter lapides in alveo exsiccato torreatis inter (a *Varoam* et *Hagto Panskeoy Taygeti*. (Heldr.J Fl Jul

Species Inter *Aponosmata* caule ramoso, Indumenta valdè patulo stiigoaque et antberis Bubexsertis distinctisaima. Corolla 6-7 tin., calyx fructlfer 9-10 lin. longl.

ONOBMA IBAUBICA Bolss. et Heldr (Sect. *Aponosma j*

0. basi Bufruticosum surculos sienles folkraos breves et caules ascendentes flexuosos ramosos setis sparsis adpressis pobe brevi intermlxtis obsitos emittena, folhs ovato vel oblongo-spathulatis in petlolum brevem atenuatis apice rotundatis summis sessilibus acutiusculis omnibus setis adpressissimls e tuberculo stellato ortls cfnereo-senceiB, neemlBad ramorum apicem abbreviato-Bcorpioideis dein pent anfbesin elongatis, calyce pllis simplidbus adpressis senceo ultrà medium et sopè propè basin usquè Irregularlter quadri vel tripartlto lacinlà unà vel binb aptee plos mintus profundè trUobia omoibus lanceolatts, true-tlfero taiferne angoslato basl truncatà angulato-glbbo, corollà pallid* ochroleucà longiusculè et adpressè birtà a basi angustlorl dilatato-clavaia lobto Sovatis latis subrevolutiB calycem panl6 snperanti, antheris apice exsertiB Olamentl parte liberà Infrà antbenrum basin non productà, nuculis lffiviftalmis rectlB nilldls longè rostratlB

Hab. 4n rupestribus apricia *Isauna* supra *Bounarbaoh** Inter *Karman* et *Ermenek* Jun. 4845. (Heldrelcb.)

Onosma senceum pi. tyeldr. Anat exs. non W.

Primo aspectu *O. smcea* adeo similis ut pro ea penitus habuerim led re accuratius inspecta diversissimas esse reperi *O. seneea* habet setas foliorum et tuberculis glaberrimis ornatas. corollas calyce subduplo longiores, filamenta infra antherarum basin libera, nubes tunc in-
<ur\as, etc

ONOSMA STIBIGOSISSIMA BOISS (Sect. *Euonosma*.)

On perennis rauticeps, radice collo indurato, tota sellis longis albis caulis paucis foliorum adpressis et tuberculo glabro ornatis strigosissimis inter Betas glaberrima, foliis oblongis et oblongo-lanceolatis obtusis in petiolum brevem attenuate, caulibus multo minoribus, caulibus rectis abbreviate racemum bipartitum capitato-confertum ferentibus, calyce sellis flavidis longis strigosissimo quinquepartito lacinis lanceolatis acutis, fructifero recto accreto campanulato laevibus apice eitis revolutis, corolla e suo violascente calyce sesquialtero lobis triangularibus acutis apice recurvis. antheris semlexsertis, nudibus globosis acutis minutis granuloso-tuberculatis.

Hab. in Pamphylia ubi legitur amicus Pestalozza quoniam mihi comuinit-
<avit.

Species affinis *O. rufuolenti* Lam. qua differt indumenta breviora densiora adpressiora et e tuberculis multo minoribus ornata, corolla; lobis brevioribus obtusatis, calyce fructifero cylindrico lacinis rectis, nucibus oblongis laevibus, caule fruticoso.

ONOSMA CASSIA Boiss. (Sect. *Euonosma*.)

O. perennis caudibus tenuibus nigris duris prostratis, caulibus ascendentibus fluperne 5-3 foliis simplicibus tuberculis deficientibus bipidis inter eos minute puberulis, foliis virentibus radicalibus oblongis In petiolum brevem attenuate, caulibus sessilibus oblongis omnibus obtusis abbreviatis sellis et tuberculo glabro ornatis sparse et patule strigosissimis inter eas minutissime papillose, racemis abbreviate scorpioides calydbusque patule et longe flavido-setosis, pedicellis erectis calyce fructifero aequilongis, lacinis unguiculatis lanceolatis acutis, corolla flavida superne ampliata calyce tertiam parte longiori lobis triangularibus breviter revolutis. antheris brevissimis appendiculato corolla brevioribus indusis, filamentis usque ad antheram basin eorum roallto, nucibus parvis ovalis acutis laevibus /liUdisllois.

Hab. la montous *Casm* in Syria boreall obi legl Juo. 4846.

Gaules pedales, folia 4-1 4;1 poll, long? 6-6 Ho. Iata. Corolla 7-8 lineas longa. Species indumenta deflexo caulla, racemis paucis scorpioideis habituque 0. *creodoxo* afflids Bed distincta antneria brevissime appendicolatis omninò Inclusis aliisque notls.

ONOSHA OBEODOVA BOIBS et Heldr. ID pi. Anat. 4846 (Sect. *Eunosma*.)

0. aide perennl? erecto elato supernè paniculato-ramoso plUs almplicibus albis teoulbus stngosls deflexis biapldo inter eos lente puberulo, folls Trentlbu laoceolaUs, radicalibu obtusis in petlolum attenuatta, caullnib abbreviate baal rolundatis acntis omnibus utrinquè sellis teoulbus e tuberculo glabro ortfs substrigosls, racemis ad ramorum extremltatem confertis capltato-scorploidels paniculam compoaltam formantibus calycibusque densè lanà patulà nlveà obsltka, calycnlis laciniis angustà bneaii-lanceolatis acutis, corolla albs demòm rubells aupernè ampliate calyce vlx quartà parte longiorla lobls triangidanbu acutis demtm reflexls, anlbens ultrà medium exaertta flamedto longloribua, nudbus brevibus.

Hab. in saxosta fauois *Taimbouklcon* Plsidie inter *Adaha* et *Iparta* ubi legit d. Heldreich Halo 4845.

Planla sesquipedalla. Corolla 7 lineas, antberarum para exserta 14;8 lineas longa; species inter eas antberis euertis donatas caule elato herbaceo inslgnis.

OHOBMA TBAGirraicBA Boiss. in pi. Kptsch. Pers. bor. 1846. (Sect. XttofUMfM.)

On. baal fruticosa, canllbna erectta foliosis parcè ramoaia pube brevialmft almpud sellis albis adpresais internuxlâ albleantibus, follta oblongls oblongo-lanceoûUsque basi attenuafu obtusiuaculU avpernè sulco medium vends percursis-subtûs elevalo-nervosla sellis brevibus adpreuls e tuberculo ortis asparto inter eaa puberuUa, raocenta terminabus paudflorla In antbesl coogestis deb> elongate, calyds floriferi aerioeo^hirautl qnlunquepartiU ladnlla equalibus longè llnoaribus acutb frucUfftri lacIDils metis ohlongo-lanceolaUi frinctn quâdrnplb longlorlbui, corollU vtolaacenUpus puberuUa tertià parte ealycem eicedenUbas lobii triangularlbu* demòm refleit* aptoe penldllatis, anlhe-

ns mucroue exsertis, Dlamenli parte liberfi anthers basin infernè noit excedenU, nuculls oblongis acuimnatis albis lxvibus.

Hal), in jugo *Gerdene KuUchik* propè *Teheran* Kotsehy loc. ciL N»399

Habitus 0. smceta quo statlm dignoscitur calyce regular! et *Onotnat% s daaytncht* indumento densissimo cano, foliis lafe ovatis petiolatis, calyubus basi villosostngosis corollisque longis diversi,

ONOSHA PACipODA BOIBS ID Kotscta. pi. Pers bor. 4846. (Sect. *Euonosma.*)

0. basi suffrutescens pallidè virens tota pilis spareis simplidibus brevibus adpressissimis oculo armato taatum perapiculis e tuberculo glabro ferè obsolete ortis obsita asperula, caulibus fleiuosis erectis toliosis ramosis, foliis oblongis ulmqui attenuatis acutis subrecurvis, racemiB terminalibus pjuciflons post aolhesin elongaus, calyce pared et adpress&fl senceo ad basin usque in lacinias anguslè lineares acutas fructu quadrapl6 longiores diviso, corollà exlds pubeaceoti e alcco palhdè carneo-rubelU tubulosâ calyce duplò loDgiori lobls ovatiB subrevolulis, antberis corollani Don excedenbbus, filamenb parte liberâ infrâ antberas non producta, pedicellis fructiferis elongatis erectis apice senslm in calycis basin incrassatis, nucibus oblongis nlhdis scrobiculalis.

Hab. In schlstosis faucis *Muroh Mahal* montis *Elbrus* Koto. N" 168.

Gaules pedales, corolla polhem longs, calyx fructifer 9-40 lin. longus. AfDnls florura magnitudine et calycis lacimis elongatis 0. *tmchytchat* sed distincta Indumento peculiar aparso adpresslssimo, folds vlx aeperls pedicellis fructiferis magis clavatis et lacimfs calydfi etlam in plantâ fructiferâ llineanbus nee basi angustatis oblongo-lanceolatis, nnculis obsoletè scrobiculatis nee laeribus.

ONOSKA BBACRIBOLBN Bolss. (Sect. *Ewmoma.*)

On. perennis basi soffbutescens multicauUs, canllibus erectis strictfs simplicissimns sparslm et adpressè pilosis, foliis oblongo-lanceolalls lofenonbus in petiolum attenualis obtusis supenoribus oblongis sessilibus omnibiis adpressè strigosls vireotibos pilis umplibus e tnberculo glabro vix perspicuo oriundis, racemo paudfloro bipirttto conferto captuliformi, calycis adpressè senceo-strigosl 5 partfl lacnii*

modeste squalidus, corollâ luteâ pubescente tubulosâ latè calycem quartâ, parte superantè obtusè et obsolete lobatâ, antheris corollam wbaquantibus parte liberâ filamenti quadruplè longioribus.

Bab. ad *Jharbtkxr* Kotschy pi. Assjr. N° 488.

Caules pedales approximate foliosè rigidull, folia abbreviata 6-4 S lineas longa, racemus terminalis in capitulum nucis magnitudinis conglobatus, corollâ 6 lineas longa Ex affinitate 0. *simpltoissima* qua differt corollâ calyce triplè longiori alisque notis.

ONOSMA. HALOPHILA Boiss et Heldr in pi. Anat. exs. 4846 (Sect *Buonosma.*)

0. perennis virescenti-canescens tota pilis simplicibus brevibus et tuberculo glabro ortis adpressissimis acato armato tantum facile distinguendis obsita asperula, radice verticali, caulibus pluribus ascendentibus foliose sub rosulâ radicalibus simplicibus, foliis radicalibus et inferioribus lanceolato-linearibus In pellolum longiaa-
Eadem attenuatis obtusis, caulis minoribus sessilibus linearibus acutis, racemo bifido post antheris longiusculo, caulis 5 partiti adpressi brevis laniatis unciali-lanceolatis acatis fructu quadruplè longioribus, corollas albidis pubescentibus calyce plè duplè longioris apice dilatata lobis breviter ovatis obtusis subreflexis, antheris coronam æquantibus filamentorum parti libera squallidius, nodis minimis nitidis latere luteris bisulcatis.

Hab. In planitie inferiori Lycæonis inter *Konxah* et montem *Karadagh* lods salis nyeme inndatis (Heldreich). Junio 4848.

Ciulea è-Spolicares, folia radicalia cum petiolo 3-8 ^jpollicaria tres lineas flosa, racemum fructiferum 3-pollicares, corolla 9 lineas longa, nactose densam taotum longis. Habitus 0 *rimplioissima* quæ differt eaulibus non infrascriptis rectis, foliis margine dilatatis indumento copiosior et minus adpresso vestitis, filamentis antheris multè longiori etc.

OKOMU VBUTIRA Bolss. (Sect. *Ewnoma*)

4>. perennis caspitosa humilis multicaulis tota pilis simplicibus modestis basi non tuberculatis Becos'caules patens albis longis ad folia et calyces adpressis flavidis hirsute, eradidita vestigibus foliorum vettitum Inensutis, eaulibus folia radicalia subduplo superantibus,

foliis plants non elento-nt rvoſis linearl-lanceolatis obluſis, cauſſnls abbreviatls erectls, flonbus denſe capltato-congeſtls, calycis fi partita lacioils anguſtè lineanbua villoſls obtuſls fructu tripl© longiorlbus, corolla; jiemùm eſrules glabra calyce ſubdupl6 lODgloris lobls ovatlſ obtuſls, filament! parte hberà antherls ſubſquilonrà, nuculis parvla nitldls ſublncurvlſ roſtratlſ.

Hab in *Olympto Bithyno* ubi legl Aug. 4842.

Caules 3-4 pollicares, folia radicalia bipolluaria M lln. lata, corolla 8-9 lln. longa Valdè afOms 0. *nanw* DC. qua? differt mdumento non molll velutino ſed ſtrigoſo e tubercubſ orto, foliis aügüſtorlbdſ HOD planls ſed oervo raedio ſubtòſ elevato percuſſſ. Hùe etlam foraan ſpeclat Aucher N° 4989 ex alplbuſ Ghflam.

ONOSHA OBJBCA BOISS. (Sect *Euonoma*.)

On. bienmſ? tota prater pubem breviffimam ſetls flavldls longls baſl obſcurè et glabrè tuberculatlſ lenuibuſ vlz ſtngolſ ſeeds folia inclmatls ſeeds caulem et ID parte ſupenon plantſ valdè patulſ biſpida, caule erecto medlocrl ſupernè ramoſo-paniculato, foliſ lanceolato-ilneanbuſ obtuſls lnfenoribuſ in petfoluro attenuatlſ ſupenoribuſ et floralibuſ e baſl rotundatà oblongo-lanceolabſ longè ciliatlſ, omnibuſ facie mferlon margine et nervo medio elevatlſ, racemls pauciflorls demùm eloogatlſ extremitate floriferà nutantibuſ, calycis quinquepartiti laclnhs lanceolato-linearibuſ obtuſluſculſ longè etſubpatulè cillatlſ fructu tnpl6 longlonbuſ, corollà pubeſcenli calyce dupl6 longlori anguſtè tubuloſà a parte dimidià paululùm lallorl ad baſln et aplcem ſubanguſtalà apice breviffiraè et trlangulanter Bloſt luteà demtm violaceà, antherls apice ſubexſerllſ baſl profundè biffldſ, filamentl parte Hberà ultrà antherarum baſln infernò vlx productſ, nuculfa ovato-incurvlſ ſupèrnè valdè carlnatIB dorſo ad carlna latus utrinquè gibboſls nitldls ſcrobiculato-perfoſſls.

Hab. in *GraaA*, mootibuſ inſulae *Syra*, in monte *Bymetto*, ublquè rara et ſolllariè creſcens. Fl. Halo.

Qiullſ In ſpeclminibuſ quſ poſſideo 6-8 pollicarlſ, folia radicalia S-3 pol ices longa 3-4 lineaa lata, racemi apice nutanteſ, corolla 6 11-ileas, calyceſ fructifen 8 Uneas longi. Species indumento loogo patolo rigldo ſed vlx tuberculato ſtrigoſoque, corollſ anguſtlſ apice anguſtatſ DOTabllſ, bàc corolte formà On. *tnvvtoria* quoque venicolorlſ apprqplnquenda, quſ a noſtril differt caule a baſl ramoſiffimo, indu-

neoto sjngoao, calyce fructifero multo minus amplo, nuculis ~~lavi-~~
bus, etc.

ONOTA DICHBOANTHA BOISB. in Kotsch. pi Pars. bor. 4846. (Sect.
Euonosma.)

0. bienms P mitticaullB tota setis albis patulis sim)licibus e tuberculo glabro ortis strigoso grisea later setas pubescens, caulibus erectis elatis supernè stridè paniculato-ramosis, foliis inferioribus angustè linearibus obtusis basi attenuatis nervo medio auctis prominent! donatla, floribus oblongo-lanceolatis acuminatis, calycis patuli bispidi ladniis angustè linearibus acuis, corolla subpuberulà albft deo caBruleBceDti calyce tertià parte longiori lobis Irlangulanbus demiira revolulis basi mttis corodulft glabrà auctd, antherarum apice subexserto, fUamenll parte libera anthera breviori, nuculis magms Iambus niUdis snbtrigODis subincarvis.

0. *strigosa* Stev. HSS. ex G. A. Meyer DOD H. B. K.

. Bab. in Iberià prppè *Baku* (Meyer!) Persià boreal! in monte *Dematimuf* propè *Ask*. Kotsch. N° 383.

PedallB vel BesquipedaHs, folia iofenora 3 poll, longa a-31in. lala, corolla polcem et amplias longa. Habitu et foliis adnls 0. *tetosa* Led. qua differt foliis Inter setas glabris vel taoUim asperis, caule ramisioris, corollà breviori non versicolori, calycis adpressiuscalè setosi ladnilB brevioribus, nuculis minoribus.

OHOVA ALEPPICA BOISS. (Sect. *Euonosma*)

0. blennia mulUcaulis, canltibus craasla rectis a baai ferè ramosisB setis albia ngldiB patulis e tuberculo glabro ortts Btrigosis inter Betas breviter puberulis, foliis lanceolatis vridibus adpresslâa et subUis ad marginea et nervum copiosios setosis inflolB elongatis, racemiB dembm elongatis apice florifero outantibus, calycis-basi praerttm longè et adpresaluBculâ albo-setosil lacioils lanceolate -UnearibuB BPUUUB¹ culls, corollis e elcco albidis glabris calyce quartâ parte longioribus brerisBlmè et obtuBtoalmè Slobta lmâ basi lntus drculariler dUaluûB, aDtherarum glabrarum apice Bubexserto, filamentorum parte liberfl tenul antheris subaiquilongA, nuculis rostrads magnis granalalo-tuber-
culata.

flab. In collibus weds draft *Akppum* (Kotschy N« 465 Aucler

N^o 1732) inter *Jerusalem* et *Jeneko* (Boiss.) in desertis idler *Pamaseum* *H Antxybanuyi* (Boiss.), in Persia australi si schedule Aucher 2297 Odes habenda

O. echwala DC. Prodr quoad pi Sj r non Desf — *O. echundes* Koischbyl exs.

Caulis pedales ramosissimi, folia inferiora 3-4 poll, longa 5-6 lin. lata corollae 8-9 lin longx. Olfra a me ipso et cl DC cum *O. eckundx* combinata sed distinctissima *O. echioides* L — *arenana* W. K. a nostro differ! caulibus subsimplicibus, indumento densiore flavido adpresso minus sngoso, corollis puberulis flavis longius exsertis Intis glabris, antheris puberulis, filamentis dilatatis, nucibus laticostis. •
O. tetasa Led niagis affinis differt quoque nucibus laevibus alisque uolis

ONOSMA BULBOTRICHUM DC — Quibus diagnosin lite dare utile pulavi quia specimina cl. DC descripta *sAtk'* manna erant.

O. bienmense tola setis simplicibus patulis albis e tuberculo glabro onundis bispidissima junior flavescens stngosa pube breviori idte[^]-mixta, caulibus erectis fere a basi pauciculato-ramosis, foliis lanceolato-linearibus lobis basi attenuatis obtusis superioribus sessilibus, racemis densis aldis elongatis, caulis albo-stngosissimi lacinus lanceolato-linearibus, corollae lutescenti puberula[^] supernè ampliata talyce lertia parte longior lobis *b* brevibus triangulatis subrevolutis paulo super basin intus margine coromiformi lobato birsuto aucta, antherarum apice exserto, filamentis parvis hinc antheram sub-•cquaati, QUICUIUS dorso utrinque gibbosis tuberculatis nudis.

Hab in Persia boreali Aucher K^o 8297 et 4993, prope *Schiraz* Koisch) N^o 380.

O. echinata DC Prodr quoad pi. Pers. nou Desf.

Affinis *O. Aupptca* sed magis sngosa, corolla major magis exserta extis puberula nee glabra noo tantum ut in ea basi ciliatula sed callo corona[?]formi dense barbata aucta. Planta Fonlanesii ex icoe cl de-•Bceptione omnino differt filamentorum formi, corollae supernè oianifestè ampliata libilique toto. Var. *flavescens* DC. Prodr. idelur tantum status junior planae? — Koisch Pers. bor. N^o 137 et Pen. diistr. S^o 476 a me prius ubi confusionem specierum precedentium ad *O. echinatum* et *O. bulbotneham* relata adnumeranda sunt omnibus notis *O. macrocarjue* Steud rui *O. concinno* DC quoque adjungenda
rst

ONOSMA IANTUOTBICHA Boiss. (Sect. *Euonotma*)

0. biceps tola setis patulis in pane supenor plants prorsum
valde flavidis e tuberculo ferè obsoleto glabro oriundis bispidissima
pube brevion nitermixti, caule erecto elato ferè a basi paniculato-ra-
raoso, folis inferioribus anguste hinc lanceolatis basi longissime at-
tenuatis superioribus sessilibus linearibus paulo latioribus omnibus
obtusiusculis pallide viridibus, ciliis patule flavidis bispidissimis
corollam subquadratis lacinis angustis linearibus, corollam pallide luteam
puberulam superne sex angulatis lobis brevibus ovato-triangularibus sub-
retortatis tubo paulo supra basin intus margine coromiformi lobato
longe barbato aucto, antherarum apice subexserto, filamentis pane li-
beris antheris brevibus, uuculis.

Hab in Antilibano prope *Zebdani* ubi legi Alaio A 818.

Planta 1-N; 2 pedalis, folia inferiora 6-7 poll longa 4-6 lin. tantum
lata Corolla basi barbata characteribusque affinis 0. *Aleppaea* et *bul-
batncha* sed ab utraque sat distincta videtur tuberculis ad selanum
basin subuullis, foliis inferioribus valde elongatis angustisque, calyce
flavido-bispidissimo, corolla calycem superantem

ONOSMA SPHLNERI BOISS. (Sect. *Euonosma*.)

0. tola setis brevibus sparsis adpressissimis e tuberculo stellato
piloso ortis cernens, rhizomide crasso verticillato apice fasciculum
foliorum radicalium caulesque 1-3 ferens, caule crasso elato superne
parce ramoso pilis sparsis asperulis, foliis lanceolatis superne sulco
inferne nervo medio prominente percursis radicalibus longis pedicel-
lolum longum albo-ciliatum attenuatis, caulinis sessilibus apice ma-
gis attenuatis, racemis demum valde elongatis strictis, calycis quin-
quepartiti setis densis adpressis sericei lacinis aequalibus lanceolatis
acutis, corolla a basi angustior ampliore adpresse pubescenti calyce
subtriplo longiori lobis 5 brevibus triangularibus filamentorum pube
liberis antheris inclusis subaequantibus, pedicellis fructiferis strictis in
calycem sensim incrassatis, nuculis magnis oblongis rectis rostratis
obscure granulatis nitidis.

Hab. ad radices montis *CUheron* Baiohis ubi legit am. Sprenter 4839
quod sub nomine 0. *seneei* communi dicitur

Palchra species indumento cinereo-sericeo 0. *seneei* testata sed ab
0 distincta caule elato herbaceo, foliis radicalibus cosulatis aim pe-

— no —

tiolo 5-6 polhces longis 4-6 Ifneas latia, caljcibus fructlferis basi atte-
nualis Dec gibbosfrlncrassatis Insuper stellato-pllosa est. Corolla al-
bidæ ferè pòlilcares

Ab 0 *stellulatx* formis egregiè distincta indumento adpression mul-
tbque brevion, caule hcrbaceo nee basi suffruteacenll, foliis nullò la-
ttonbus, HUCUIIB rectis ferè 3 Jineas longis tnplò majonbus.

ONOSMA OERULESCENS Boiss (Sect *Ewmosma*)

0 fruiescens basi ramosa lota setis brevibas e tuberculo parcè et
stellalim piloso ortis densis canum, rarois patulo et brewler scabns, ' ,
foliis parvis obovato-spaUiulatis basi ID petiolum broker attenuatis
obtusissimis, racemis bifldls densis terminalibus subcapituliformibus,
calycis longè et patulè albo-setosl pedicello eo pau!6 brevion suffUlti
lacinlis a basi anguslc lincanbus obtusis, corollà glabri tenul superoè
subampliatA calyce subdupl6 longion albâ dein csrulescenti lobis tri-
angularibus acutiusculis revolutis, tubo basi Intns coronulâ lobaiâ gla-
bri aucto, antberarum appendicibus subexsertis, filamentorum parte
hberâ anthers paul6 brevion, nuculis acutfc tngonis^ gnseis Uevibus
oitidis

Hab in Antilibano inter *Rascheya* et *Damascus* ubi legi Maio 1846.

Planla 8-iSpollicarls basi ramosa lignosa nuda, folia majora polll-
cem longa 3-4lin lata, corolla circ. 7 lin longa **Affinis** Indumento
et racemis conferlis 0 *hefobulbw* quæ est planta major babet folia
9-3 pit) mājora acutissima, lacnias cal^cmaa aculas corollamque pubea^
centem.

UNOSMA BASCUBTANA BOIBB. (Sect *Euonosma*)

0 basi fruiescenDB, caudlcibua prostralis nudia ramosls, cauUbus
pumllis angulatis basi densè foliosis setfs brevibus e tuberculo stellato
ortis scabridia, foliis pallidè virentibus -oblongo-laDceoiatis acuttas-
cuhs in petiolum longè attenualis margine revolutis superaè ad medium
Bulcatia subtusque Dervoso-prominulis adpressè setosiB setis e tuber-
culo slellatim piloso oriandis, racemis terminaUbus slmplicibus vel
bifldis confertiflons subcapltatls, flonbus nulantibus, calycis subses-
sihs adpresslssimè et virescentr hirsutl lacnils laDceolato-lieanbus
acutis, corolla pntis albl dem cacruleâ superaè subampllatâ brevliuimè
pruinosa calyce lortia parte longion basi coronulâ glabra auctâ, lobis

triangularibus brevibus apice revolutis, antherarum apice subeiserto, filamentorum parte libera anthera brevior, nuculis.

Hab. in Aotilibano inter *Rcucheya* et *2tofiu»etMii*LegK Haio*

Inflorescentia *0 ccentlescentt* accedit sed differ! pube multo adpressiori mrausque cana, tuberculis regularity et densitate stellate pdis, calycis adpressè Dec patulè et longè setosi lactniis lationibus acutis, corollà laliori et ampliori ferè 44 lin. longâ. AfQnis quoque fornis pumilis *0. stelltlatt* sub *0 brevifoht* et *0. montani* nomine notis sed diversa corollâ verBicolon proportione calycis brevior nee ut in en valde ampliata *0. congesta* DC. habitu floribusque exroleis proxima, exunie dlffert indumento densissimo pannoso, folis floribus basi dUa-tatis, ladmls calycis obtusissimis, etc

-ONOSMA SHTIS DOISS. et Ueldr. (Sect. *Euonosma.*)

0 rhizomate procumbeati suffrutescenti ex9pitoso caules abbrevi-
vatos foluiferos aliosque fertiles simpllices adpressè canos edentl, folis
lodumento paooso adpressissimo cioereo-cano pilorum stellatorum ob-
sitis vlx asperis, anguste oblongo-lanceolatis obtusis basi longè at-
tenuatis dllatis supernè canaliculatis facie mfenori revolutis cannato-
nervosis, superlonibus lineanibus acutis flavidis, racemla simplicibus
ereclis laxiusculis, calyce adpressè flavido hirsuto qumquepartito laei-
nulis Hnearibus acutis, fructifero elongato slncto basi globoso, laclaiis
fructu quadrupld loogionibus, corolla ochroleuca glabrusculft calyce
tertia parte loogion a basi angusuon amplialâ lobis trlangulanibus
acutis, anthers apice ewertis, nucibus ovatis acuiis ultidis lsvibus.

Hab. in pinetis apncis ad radices montis *Taktalu Lycis* suprâ por-
tum *Toherali* (Heldncb) Fl. Apnli.

Folia majora 9-40 lineas longa supernè i-3 lineas lata elegaoter
pilis stellatis densisslmis mirilmè setosis pannosa. Caules semipedales
teDues recti racerao 4-7 florum terminal!. Corolla calyxque fructifer
6 lineas longl. Species indumentl naturâ et corollâ mu^6 minor! ab
0, montant, atellulati et afflmbus &c]e distinguenda, naculls duplô'
niajoribus ovatis nee acutè trfquetris donata.

ONOSMA HELVETICA BOISS. (Sect. *Euonoma.*)

0. caullibus csspitosis erectis basi induratis foliosis sellis albis pa-
tulis e tuberculo piloso erUs stngosis simplicibus, foliia lanceolato-

linearibus obtusis margine subrevolutis selulis adpressis ad folia Inferiora et basin foliorum superiorum et tuberculo glabro orbundis, ad folia superiora et tuberculo stellatis piloso ortis aspens, racemo bifido terminali, calycis adpressè flauo-setosi lacinnis lanceolatis acutis, corollâ pallide r chroleud pubmilâ calyce subduplo longior lobis triangularibus brevibus, filamentis latis parte libera antbera squilongis, nucibus kmusculis.

O. echtoxdes var *Helvetica* DC Prodr in notft.

Hab in vallibus alpium Sabaudix propè *Modane* in provinciâ *Maurienne*, in *Valesia* inferiori

Species cum quâdam dubitatione hic proposita, inter *O. echtoxdem*, et *O. stellulata* media et eas naturâ indumentî conjungens, ulterius observanda, a priori pilis partis superioris foliorum stellatis, filamentibus parte libera brevioribus, a posteriori pilis basilanibus tuberculo glabro insidentibus, corollâ duplo nec triplo longiori apice minus ampliato-clavata, calycis lacinnis magis elongatis discedens.

O. stellulata meo sensu statua, corollâ plus minus puberula, foliis plus minus angustis et alde et ab eâ specificè distinguere nequeo *O. montanam* Sibth, *O. erectam* Fl Grsec, *O. Tauricam* Pall F *O. brevifoliam* DC, *O. angustifoliam* Lehm. quæ omnes huic probabiliter conjungendæ

ONOSMA PALLIOA BOISS (Sect *Euonosma*.)

O. caudicibus ascendentibus et prostratis exspitosis-mulbcaulibus, caulibus erectis foliosis simplicibus albidis caesiisve tenuibus rigidis setis patulis albis et tuberculis valdè stngosis, foliis parvis angustè lanceolato-spatulatis in petiolum attenuatis supremis basi rotundatis omnibus margine subrevolutis nervo medio subtus pronuntiat utriusque setis et tuberculo stellatis piloso ortis patulè setoso-strigosis, racemo terminali bifido demum valdè elongate divaricato, calyce patulo flavido-setosissimi laciniis angustè lanceolatis acutis, calyce fructifero vix aucto, corollâ albâ pubescenti tubo angustatâ supernè valdè dilatato-ventricosâ calyce plus duplo longior lobis triangularibus brevibus acutis, filamentis parte libera antheris apice subexserto acutè bifidis breviori, nucibus parvis inquetris nitidis brevibus.

Qub in totâ Anatoliâ occidentali, circâ *Smyrnam*, supra *Demetk* (Boiss), ad radices montis *Karadagh* Lycaonte (Heldr), propè Byzantium (Noë), in *Bocobit* propè *Livkham* (Sprun).

Caules simplices 8-1*pollicares, racemi fructiferi 4-5 polli, longi, folia majora pollicaria supernè 3-3 lin. lata, corolla 8-9 lin. longa diametro limbi eo baseos triplob majon. Hinc species *O. sulltrata* ejusque formis valdè affinis a me ipso cum est bucusquè confusa fuit sed ab eà sat differe videitur indumento ranori strigoao patulo nee adpressissimo, follis abbreviatis, corollà abruptus davalà albavel pallidè ochroleiAa nee flavft. Ambse species lamen ID Iods naturalibus ulterlùs comparand^ . *O. nguta* DC. Prodr. est nostra species ipsisslma sed *O. rxgida* Ledeb ex Taurift differt oorollis calycem tertià parte tantum superantibus et sistere videitur plantain autumnno lectam in quà canles anomalè tantum ob ramos elongates apice flonferos rigidl sunt. — *O. Jrmma* DC. etsi afflms a nostrà specie differt indumenta flavido, racemls in capltulum congestis, calycls valdè plumosi lacioiis corollam parum ampliata snt bacquantibus

O acabernma Boiss. et Heldr. in pi. Anal. 4846 est ipsisslma *O. Aurhuiana* DC. Prodr qnam quoque ad *O palltdam* ut formam proce-norem scaberrimam refero

PODONOSMA Boisa

Calyx quinque partitus segmentis llinean-lanceolatis. Corolla regularis tubulosa fauce nuda basi circulariter Inlds barbulata.ap|ce ID S IODOB lanceolatos acutos antè anthesln vaivatlm connventes per,antbesln reflexos divisa. FUamenta usquè ad medlam partem corolla ess id-nata superuè libera. Antberae In appendicem membranaceam linearem apice emarginatam longè exsertam els xquilongam abeuntes basl bre-Ylter sagittate inter se libers Ovaiium quadrupartitum. Stylus glaber exsertus stlgmate indistincto submarginato termiaatus Nucule quatuor areolà planà substipitatà suprâ torum Insert® valdè Iocurvae apice horboDtaliter flexo oblongs acute tott superflicie ebinutatae. Herbs Orientalls e flssuris ruphim et muroium erumpens perennis tota vil-loso-bisplda fraglliina.

Genus antberls longè appendiculatls *Onosma* refereus sed ab est discedens els ban nunquam connatis et presertbn nuculis non rectls ovoideo-trlgonis sed a basl substipitata valdè curvatls taortiontaUbus omnlb *Mkanna*. Babltus et modus crescendl *Atktumarum* sed corollà? Infus nude el antherarum formà ab els longlus discedens

PODONOSMA SYBUCA BOISS

P. folis ovato-lanceolatis lanceolatisve acutis inferioribus in peltum brevem alternatis superioribus sessilibus semiamplexicaulis subconatis, racemis terminalibus laevibus bracteatis, capitulis post anthesin elongatis, corollis exsertis glabris, antherarum appendicibus albis longe exsertis.

OnomaSynacalsOfiW. Déc. 3 tab. 45

Habit in Syria omni calidior et montana, in rupibus et maribus Hierosolymis cum *Urosyris aureo* et *Panetan Judaea* frequentissima, Cilicia (Kotschy), Assyria (Aucher), Persia australi inter *Buehr* et *Schiraz* Kotschy.

MOLTZIA ANATOLICA BOISS

M. bast suffrutescens caespitosa. Caulis tolos adpressissimè densascentibus cinereis, ciliis humilibus dense fohosis canescentibus apice paniculatis, foliis inferioribus et radicalibus obovatis obtusis in peltum attenuatis superioribus sessilibus lanceolatis linearibusque acutis, corolla caruleae calyce tubo tenui in limbum subulato ampullatum eo dimidio breviorè intus parè strobilum ampliato lobis ovatis, filamentis breviter exsertis, antheris violaceis, racemis fructifera elongatis adpressè strobilosis, bracteis linearibus calycis laciniis elongatis squamulosis, nuculis sphaericis granulosis.

Habit in collibus Canis propè *Jent^ji* (Bolss. Pinard), in Syria propè *Antutsum* Auch. N° 2&03.

Simillima *M. caifblea* quae sat differre videtur limbo corollae tubo aequilongero, lobis longioribus oblongis, nucibus profunde scrobiculatis. *M. putictoto* Lehm. ex icone et descriptione. longè differat indumento strobiloso, corollam calyce vix longior. *M. Lbanolwa* Zuccar. **mbd** *Moltzia* habet et est *Solenanthe* species.

MUNBYA Boiss.

Arnica Sect J« DC. Prodr.

Calyx quinquepartitus laciniis lanceolatis -hoaribus acutis. **Corolla** infundibuliformis tubo tenui elongato intus nudo, limbi partibus lobis

roLimdatls. Stylus apfce in Bligma bllabiatum aut dicepbalum flsaus. Anthers oblongs vel oblongo-lineares subseasles indues. NucuUe recta ovate basi truncate Imperforate. — Herbs perennes Orientates alpns flonbuB magnis, capitulis aggregate, a e|. Alph. DC. cum *Arnebyu* ob stigma bipartitum combnats sed me judice ab els genencè diversa radice perenni, babilu toto, roflorescentiâ. Stigma insuper ID *Arnebaa* vens bis bifidum esl et subquadnpartitum, calyxque fructifer basi campanolato-iocrassaLus et gibbus quaj- omma a ooslro genere abhorreot. *Munbya* a *Lithospermo* cui magis afUnts sat tameu distat fauce corolls pronto nudâ, Biigmate bipartitp Nuculae msuper in ommlbus specJebus quas Iructifcras Mdi valdfe scrobiculalae sunl facie interior! cannabe nee ut in *Lithospemis* perennibus ovoides lsves. Dlcavi cl el am. Munby Flor. Algenensis auclon.

I *Oyanantha*.

MUNBYA PBBBNNIS Bolfis.

M. bispida, inter setas adpressulusculas pubcrula, folus omnibus linean-lanceolatis radlcallbus elongatis, spiels terminallbus subglobosis, calycls laciniis bracteisque corollam subsquatftibus, nuculls...

Arnebaperennts A. DC. — *Stenosolenwm permne* Schrenk.

Hab. In monlibus *Alatau* Soagarlx Ghlensis.

HUNBTA CYANOCHROA BoiSS.

M. stngoso-afIpernma, folils radlcaJibuB lanceolato-lmeaibus CBH linls oblongis basi rotundatis, spicis ternunallbus conglobato-panculatis, corollsb tubo breviter exserlo, numlis subcristato-tuberculatis acutis.

Lithospermum cyanoohroum Boiss. Dlagn. — *Arnelna tingens* A. DC.

Hab. in montibus Perii. (Auch. Kotsch.)

in descnplione meâ per errorem fiiux corolkB plicalula dicta full quus onninò lsvte, dele quoque in DC. Prodr verba * nuces laeves, < error e tpechnine immataro ortus.

II *Chrysaniha*

MIINBTA DBNBIKLORA BoiSB

M adpressissime setosa, folus inferloribus oblongo-linearibus supenonbus lanceolalis acutis, spicis versâs apicem caulis axillaribus in paniculam densissimam confertis, calycis laclnlis llineanbus ngidê et patulê pilosis, coroUs tubo calyce plus duplfc longiorf, DUCUIIS aplice lompressis granulalis

Arnebtâ denstflora Ledeb. Fl. Ross II, p 440.

Hab in *Armenta* ad fines Turwcas. (Nordmana)

MÏJNBYA CEPUALOTBS BOISS

M densê fulvescenti-lomentosa, folns lineari-lanceolatis acutiB adpressissime pannosis, caule buniih folioso, spicis in paniculam conglobaiam aggregate, calycis basi albo-vUlosissiml lacinfis adpressiuscolê elfulvfc villosis coTolhnum tubum subsquantibus

Arnebtâ cephalotes DC Prodr

Hab. in monte *Akdagh* Gappadocis (Aucher)

Caulis 4-6 pollicans, calyx tubusque corollious poUlcem loogl, Hmbus diametro Rubpollicaris

MVNBTA COMGLOBATA BoiSS

M rhlzomate cacspitosa fohorum vestigiis deoaisBbni veaUlo, foliu adpresBissimfê setls fiilvescentibus sericeis aagustt lineari-lanceolatIB caubuis margme patnli cillatis attenuato-acuminalis, caule bumili folioso, capitulo terminali densissimo eubgloboso, calycis fulvescenUs patuld bispldi lacinns inaequilatis tubum corollinum dlmidium sqaantibus.

Hab in monte *Berekti dagh*. Ljcfis (Pestalozza.)

Caulis 4 pollices longus, folia radicaliablpollicaria S bneas lata, caullna pollicaria a basi S lineas latâ valdê attennato-acuminata. Calyx 6-7 HD. longus. Corolla tubus 44-12 lin. longus limbus diametro 7-8 lin. b-lus. Similis *U. cephalott* differt mdumento setosiori ID parte snperlori plantr patulo, calycis et corollse proportione divertš, folUs canllDis multo magis angustatis.

Arnebia eehundes DC. m̄ni ex specimine equidem incomplete stigma indlvlsim babere videtur et cum insuper inflorescentiam laxam nec corymbosam babeal eam donee meliùs nota sit cum cl. F. et M. *LUho-tpermo adnumero*.

ARNEBIA TINCTOBIA Forak Fl. *Eg* p. 63

A. tola adpressè et densè sfngoso-cinerascens, folila oblongo-lanceolatis obtusis basi attenuatis, racemis secundis densis terminalibus bracteatis bracteis linearibus calyces corollasque pauld Buperantibus, calyds laciniis linearibus adpresslusculè et densè setosis cinerascensibus plants fructifera indistinctè tnnerviis, corolla cserulescenti calycis lacinias vix superanti glabernmâ, limbi a tubo yix distincti erecti lob&s rotundatis, nuculis mtidis laeviuscuhs.

Ltthospermum Unctonum Yabl. Symb. S tab. 38! — LftA *arnebia* DeldeFl. ifigypt. et Lehm. Asp. N^a 231.

flab, in desertis JSgyptet Arabia petrea.

Corolla treslineas longa, calyx fructifer quinque lineas longus

ARNEBIA FLAVRSCENS Boiss.

•A. tola setis flavescensibus stngoaa, folus oblongo-lanceolatis obtusiB basi attenuatis, racemis densis secundis terminalibus bracteatis, bracteis hoearibus calyces non sequantibus, calycis basi palalè et longè Oaro-setosi lacmis linearibus ad nervos et margines prsertlm adpressè setosis fructiferis uinerviis et reticulato-nerrulosis, corollâ loteft calycis lacinias superanti apice densè hispidulâ, limbi erecto-patuli lobis ovato-oblongis, nuculis scrobiculatis tuberculatis.

Arnebia tmctona DC. Prodr. el herb, ex parte. — *A. hneanfolta* DC.

Hab. in deserbs ðgypti (HuBson), *Arabia parea* (Schlmp. Botss.)

Corolla sex lineas longa, calyx fructifer ferè pollicem longus. Species prior hlc desenpta est cerbssimè *A. tnetona* Forsk. et Yahlii ex lcone et descrptione in quâ corolla nolacea et nucula laves dieuntur. Descriptiones ambarum speclerum in Prodr. Cand. desenptarum ad *A. fianuonOem* spectant. Nomen *A. hneartfolxa* omnin6 Impropriom-ponendum. — *A. eornuta* F. et M. abundat cum pncedentibus in desprtlis Arabis petres specimlnibus Ibencis siroillinui.

ALKAXNA BHACTKOSA BOISS. in Kotsch pi. Pers. Dor. 1*46

A lota sellis flavids brevibus basi regulariter tuberculatis aspera et ad bractearum foliorumque margines seloso-ciliata inter selas subleate asperula, rhizomale crasso, foliis radicalibus lanceolatis acutis basi longè attenuatis cauli subaequilongis, racemosis ferè radicalibus rigidis dichotomis distichis laxis, bracteis amplis elliptico-lanceolatis acutiusculis calyces multoties superantibus, calyce strigoso-hirsuto fructifero accroto nutanti lacinus lanceolato-lanceolatis acutis, corolla; auiantibus tubo calyce sesquialongior hinc ampli patet lobis ovatis, nervulis magis a dorso subcompressis valdè incurvis acutè rostratis tuberculatis, areolâ umbilicalem basilarem sessilem concavè.

Hab in faucibus *Dudera* montis Elurus Kotschy N* 269.

Folia radicalia cum petiolo 3-5 pollicaria 6-9 lin. lala, caules cum racemis 1-6 pollicares, bractes pollicem et sesquipollicem longas 4-5 lin. hirsutas, flores magnitudinis *A. Orientalis*, nucula 2 lin. longa. Species inter flavifloras racemosis subradicalibus, bracteis amplis, aucta magna tuberculata distinctissima

ALKANNA GALILSA BOISS

A. flavido-virens lota praeter indumentum brevissimum veluti dum setis rigidis albis e tuberculo ortis sparsis in parte superioribus plantae et ad margines foliorum copiosis stngosa, caulis procumbentibus elongatis mferè deauctis, foliis obtusis inferioribus oblongo-lanceolatis, floralibus oblongis ovatisve basi cordato-subauriculatis flores superantibus, racemosis demum valdè elongatis foliosis laxis, calycis adpressiusculè et praesertim mferè albo-stngosi laciniis lanceolato-linearibus tubo corollino brevioribus, corolla flavo-aurantiaca fimbriata pliciformibus minutissimis glabris, calyce fructifero deflexo laciniis erecto-patentibus, nuculis magna, profundè reticulato-insculptis valdè cunatis areolâ umbilicali ad curvaturam extremitatem rostro oppositam sitâ.

Hab in agris derelictis in descensu ad urbem Zuenadam. Legi Maio.

Affinis characteribus. florum magnitudine etc. *A. Orientalis** quâ differt indumento stngoso nunquam viscido, foliis inferioribus non undulatis, floralibus brevioribus latioribusque, racemosis prostratis ssp. pediculis lanissimis, calycibus fructiferis lacinis non coddiventibus, butulis plus duplò majoribus illas *A. megacarpa* aequantibus. ~~Affinis~~

quoque *A. Kotschyana* quae differt foliis floralibus oblongo-linearibus non auriculatis multo minoribus, villo tomentoso molliori, limbo corollae immixto, nuculis prorsus reticulatis (tuberculatis *A. Inrtutis*-MM DC. affinis quoque est.

ALEANITA BOBTPELLATA Bolss.

A. tota densissima velutino-cana setis nonnullis basi tuberculis adpressissimis intermixtis, caulibus pumilis, foliis radicalibus oblongo-lanceolatis acutiusculis In petiolum attenuate, caulifinis bracteisque in-nari-lanceolatis, taljicis senceo-hirsuti ladnus linean-lanceolatis acutis, corollae flavae tubo calyce subduplice longior, limbo parvi lobis rotundis, nucibus parvis eximie et minute tuberculatis angulo ferè recto incurvis in rostrum valde attenuatis acutis, areolae umbilicari basilari in collum conditicia oblonga anlice acutiflora rostellata.

Hab. in *Tauro* Aucher herb. meum sub N° 8278 bis

Folia radicalia cum petiolo 4-5; Spolbcarfa 4-6 lin. lata, caules 3-1 pollicares Indumentum et caljces fructiferae minuti *A. incanescens* et *macrophylla* sed ab eis eumè distincta colore florum, DUCUIS eodem modo tuberculatis sed angulo recto nee semicirculariter incurvatis apice multo magis attenuato-rostellatis, areolae forma et situ omnino diversis.

ALKANIFA VISCIDULA BOISS

A. tota tunc brevi viscidulo secus caules et calyces subpaucis non tuberculato mollis grisea, foliis oblongo-lanceolatis acutiusculis radicalibus in petiolum attenuatis, floralibus ovalo-oblongis calyces paulo eupentibus, caulibus ascendentibus medio-lobis, calyce breviter pedunculato patule albo-hirsuto viscidulo lacinis e basi latiori Uocean-Betaceis, corollae lutes tubo calycem parum superans limbo parvo, nuculis parvis albidis valde incurvis scrobiculatis tuberculis elevatis basi confluentibus dense obsitis areolae umbilicari basilari substipitata.

Hab. In montibus *Akdagh* Tauri Aucher N° J414.

Species florum minutie et limbo corollae forma *A. rostellata* affinis ab est et omnibus aliis distincta Indumento molli brevi viscidulo, Inter species reticulato-rugosas et specie* tuberculatas Intermedia prioribus potius adnumeranda et post *A. Pinardi* collocanda.

A. filaginoidea A. DC. minus tantum videtur forma parva corollae; limbo paulo minor! *A. Pinardi* raese.

ALBANNA MACROSIPHON Bolss et Held p. In pi. Anat 4 846

A tota setis albis patulis basi tuberculosis stngosa inter setas pubescens villosa, caulis procumbentibus supernè ascendens ramosus, folia radicalibus oblongis vel oblongo-lanceolatis basi attenuatis, caulibus basi rotundatis ellipticis omnibus obtusis, racemosis bipartitis post autbesm elongatis, bracteis latè linearibus obtusis calyces equanibus, calycis strigosus quinquepartitus lacini erecto-patulis lanceolatis obtusis, corolla; purpurascens tubo calyce plus duplò longiori limbo brevissimo a tubo vix distincto lobis erectis ovalibus, antheris sub medio tubo insertis, placcis faucis vix perspicuis glabris, nuculis profundè reticulato-scrobiculatis valdè incurvis curvature ramis inter se equalibus subparallelis areola stipitata basilari

Hab in rupestribus submontosis ad *Alaya Pamphyllae* (Heldr.) Fl. April

Indumentum et facies *A. stngosa* a qua differt corolla; limbo brevi rectiusculo, nuculis valdè incurvis areolà basilari donata *A. tubulosa* corolla? formi quoque affinis differt indumento molli, corollà lutescenti, nucule minus curvatis ramis curvature insquialibus basilari breviori, areolà brevissimè stipitata

ALBANNA MACRODYLLA BOISS et Heldr. in pi Anat 4846

A. caulis ascendentibus foliis fragillimis supernè ramosis retrorsum cillato-villosis Inter setas viscido-puberulis, foliis denticulatis acutiusculis teneris inferioribus magnis oblongis Tel oblongo-lanceolatis infernè longè attenuate brevissimè velutinis virentibus setis sparsis basi tuberculatis albis utrumquè et ad margines plus minus obaistis, caulibus superioribus bracteisque ovato-oblongis basi cordatis ut et tota pars superior plants molliter argyris ciliatis, calycis laciniis Uneari-lanceolatis acutis, corollis azures tubo calyce subduplò longioribus ad faucem 5palcato 5 purpureo-vittato, calyce fructifero molli nutanti, nuculà parvâ verruculis basi distinctis concoloribus, areolà basilari convexâ ferè usquè ad curvatura apicem extensâ.

Hab in munit Pamphyliæ, ad *Adaha* (Pestalozza), in muris amphitheatris *Perge* (Heldr.) Fl. Harte.

Caules 4-5 pedales, folia inferiora 3-4 poll. longa, corolla 6 lin longa, nucule hinc dimidiata vel plus amplius longa, corolla 6 lin longa, nucule hinc dimidiata vel

paulb amplf As longis latxque Affinis charajcleribns et nuculis *A. income* ab est differt indumento multo miuus pannoso setis Intermixto, caule et folioruID margine sctosis, follis mult6 majonbus, caulims basi valdè cordatis.

Hvoaona IDJSABOISS etHeldr ID pi. Cret. exs *Hil*

If. anDua pumlla tofernè subpatentlm aupernè adpressiusculè pilosa, caule basl ramoso, follis radicalibus obovato-spatulatlB baBl Lre- viter attenuatiB, cauhnls paucis elUptico-Uneanbin, racemis ebractea- tils fhietifens reclis laxia,* calycis adpressè pilosi laciolis lanceolatis obtualuaculla erecto-patulis, pedicellis sub anthesi erectis calycem xquantlbns fructlfens clavato-incraBsatis calyce sesquolongionbus erecto-patuhs vel subrecurvis, corollae caeruleae minioe tubo calyce paulb longiorl limbo exiguo, nuculis mtidis mgris ovatis subcom- pressisacutis.

Hab. ID saxosis regionls alpnlms moDtlms *Ida* alt 5000-6000' (Heldr.), ID monte *Lazzaro* jugi *Lasstx* rands (Heldr). Fl.BIai.

Planta 3-4 pollicarts, raceml fructiferi blpolltcareB, folia inferiora 6-9 ha loDga 3-4 lata Pedicelli fructiferi 3 ho. longi. Flores magDit. *M. colhna*. Affinis *M. pustilla* et *lutoralt* ab eis differt pedunculo calycem squanti vel superaoti fructifero patulo, Enflorescentiã laiori, corollft esruleã E descriptione *M. tncrassata* GUSB. ID multls convent sed hsec a oosirà differt racemU brerlsBimis pollicanbus, pedicellis frocliferls erectiB, lobls ualycinis dembm coamventibus, corollã calycem Don superanti.

MTOSOTIS CBBTICA BOIBS et Heldr.

M. aonua pumlla adpressiibculè pilosa, caule baai ramoso, folila radicalibus minuois ovato-rolundis subsessilibuB, cauliois obloDgo-ellp- ticto, racemls brevibus basl bracteatfs fructiferiB laxis flexuosis, calycis adpreBBissimè pilosi laciniis lauceolabs acutts erecto-patulls, pedicellis erectlspOBt anthesin HOD mcrassatls calyce paul6 longiorlbns, corollia mmmmls alblldls rarUu margine pallidè caerulescentibos calyce non loo- giorlbuB, DUCUMB ovatis oilidlssimis.

Hab. cum pncedenti. (Heldr.)

Habitu prsBcedenti speciel pimUima cum eã sub eodem oumero con- fusa missaque tamen distncta videtur racemls fructiferis ad 1-8 pedi-

cellos mflmos bractealiB ad pedicilorum lnactiODcm flexuosis ucc reolis, pedicello fructifero nunquam clavato *mints* patulo, corollâ albidd nec intend csruleâ calycem non superanti. A. *M.pusill*& cul corollte albls racemlsqoe basi bracteatis com cmt differt racemls laxis et pauciflons flexnosls, pediceilo calycem snperantl vel squanti nec brevisaimo, calyds laciniis longionbus.

HTOSOTIS CADHBA fiolss.

M. annua gracilis pumila adpressiusculê pilosa, caulibuB simplicibus vel suprâ basin semel \el bis dichotomy, foliis radicalibus obovatis obtusis ba&i breviter attenuate, cauhnis paucis ellplico-lanceolatis acutis, racemis demùm elongalis laxis snbincurvlis nodis racbide vix flexuosâ, pedicellis flonferis tenuibus calycem squantibus fructifera incurvo-patulis clavatis in calycem racrassatts eo longioribus, calycls adpressè pilosi laciniis lanceolatis acuminatis DOQ conniventibus, corollue tubo brevi calycem vix superantl, limbo amplo patent! azureo fauce lutescenti, stylo brevissimo, nuculis ovatis mtldis acutis.

Hab in jugo moufis *Cadtni* Asis minons suprâ pagum *Khonas* slto. Legi Jun. 4842.

Semipedalis gracills virens, raceml fruclifen tripolllcares, pedicelli fructifen *I hn.* longl, corolla est *M catsptto&a* feró major. Ab eâ ul et a *M. palustn* differt radtce sensu stneto annuâ, pedicellis incrassatis, laciniis calyas longioribus et magis attenualis. *M. Idea* habitu pedicell-Usque incrassalis valdè affinis differt tamen corolla? magoaB limbo non oinuto erecto-patulo sed magno roiato

MVOSOTIS ABTSSINICA BOISS. et Beut.

M. annua lota patulê hlspida, caulibus erecus ramosls, foliis oblongis elliptlcisque basi angustatis obtusis superioribus acutiusculis, racemlB vix acorpioideis basi braceallB fructifens elongatis, pedicellis fructiferis erecto-patulis calyce brevioribus, calyce ad medium udquè quiuquefldo fructifero aperto toto patulê piloso pilis baseos uncinatis, laciniis lanceolatis acutis, corollaealbidas tubo calycem paulò Bupennti limbo erecto-patulo, nuculis ovatis conipressis nltidis nigris.

M. ktspida var. *bracteata* Schimp. pi. exs.

Uab. in Abyssiniâ i ireâ *Demerki* et in monte *Scholoda* propè *Adoam* Schimp N»1U6el4889

Species a *M. hispida* diversissima caule plerumque elatiori ramosiori, racemis bracteatis, pedicellis calyce brevioribus non horizontalibus, calycis minus dense et apice etiam patule pilosis laciniis acutioribus, corolla alba nee intense caerulea. A. if. *versicolor* et *stricta* a calyce fructifero aperto statim dignoscitur.

MITOSOTIS HISPIDA var. *grandiflora* Boiss. et Heldr. in pi. Cret. 4 847. — Corolla? limbus major calycem manifeste superans.

Hab. in ohvetis et agris Cretae propè *Oydontam* (Heldr. J. Fl. Mart. A. specie differre lanium videtur corolla limbo major et cum eam rarijuntur specimenibus Intermediis a cl. Schultz in Fl. d. Fr. et d'Allemagne. N° 59 editis. Tamen ullenas observanda.

ERITRICHIMUM PERSICUM Boiss. in pi. Pers. bor. Kotsch. 1846. (Sect. *Euentnehm.*)

E. totum breviter et crispule velutnum digneum, collo vestigulis perliolorum veterum dense superato, **folla** radicalibus numerosis obovatis obtusis retusisve in petiolum longe attenuatis, caulibus anguste linearilanceolatis, caulibus superioribus ascendentibusve folia radicalia subtripliciter superantibus, racemis 4-3 sub anthesi scorpioideocapitatis, floribus subsessilibus, calyce adpressè birsuto quinquepartito lacinis ellipticis obtusis, corolla hypocrateriformi calycem pariter superanti e limbo albo-flavida ad loborum extremitatem circumlanter caerulea, lobis 6-atis, foricibus oblongis rotundatis glabris, stylo ovario breviori, nuculis...

Hab. ad nives deliquescentes in alpinis *Hasartschal* jugi *Elbrus* Persia borealis alt. 44000'. Kotschy, N° 500,

Caules 8-3 pollicares procumbentes, folia radicalia pollicaria 3-4 lineas apice lata, flores eis *ET. nani* minorcs. Habitus nonnullarum formarum *Myos. alpestris* sed indumentum diversum et ab hoc genere corollae aestivatione distincte quinquevalvi a *HeDura*. Fructu ignoto inter *Eritrionium* et *Ecinospermum* dubium est sed potius priori ob habitum et statum alpinum adnumerandum

ECINOSPERMUM ISPAHAKIUM Boiss

E. totum tenuibus elongatis adpressis e tuberculo ortis digneum rascens obscure virens, caule elato superne ramoso ramis erectis, foliis

Idoceolaus obtusiusculus btinctis, taljcis Jdpressè ciliali lobis cJJipUco-
tinearibus obtusis fractu squilongis, corolla csruieft calycepauld lon-
giori, pedicello fructifero recto fractu subbreuion, nuculanim disco
oblongo-convexo ecannato luberculato margine biserialiter aculealo
aculeis omnibus tenuibus gloctaidiatis bag] distinctis Dec inter se con-
fluentibus, senei exteooris utrinquè 6-6 subdimidiò ltreuoribua.

Bab in Persia *ad Ispahan* Aucher, N° 5018.

Ribilus et Oorum magnitudo *E. lappvla* a quo ut et ab *E. barbata*
facillimè dignosutur aculeis basi disianlibns nee basi valdè dilataU
»inter se connexis *E ngulum* quod *E. barbato* taldè a]One est ab *E. h-*
pahanico differ! pedicellis fruclus lougiunbus, aculeis disci crassi bre
MSSIIUIS tubercuhforimbus

£ CAKIENSIS BOISS Diagn 4 pag 40 a me pniis cum *E. patulo* com-
paratum it a cl DC in Prodr inter *Echtnosperma* unlsenalia recen-
situm accuratiùs et ex specimmibus nuraerosis a cl Heldreich col-
lectis comparatum collocandum est prope *E barbato* a quo vlx ac ne
|a differt disco nucularum distinctiOs seriis carinam longitudinalem
aduleato. Forsan hujus mere ^anetas.

~~E. FNORF~~ MDH SESSILIFLONCU Boiss (Sect *SdeTocarywn.*)

E. unuum punulum basi ramosum totum setis adpressissiuus cine-
reo-canum, folns lineanbus obtusis, racemissubradicalibusbracleatis
fructifens valdè elongalis laxls, flonbus sessillbus minimis, calycis
quioquepartiti lacinus elliplico-lineanbus, rorolld cxruleft caljroem
paul6 superanli, fructu seeds rachid^m sessili pyramldato calycem eu-
peranti ouculis tuberculatis ad aplicein usquè stjlo connatis sed mar-
gine inter se libens constanti, disco elongato-tnaogulan tubereubto
longitudinaliter cannatocrassiusculè albomarginato margine aculeis
breuissimis cornels gloctidiatis uniseruUibus coronato.

fiab. In Persiâ *Ispahan* Aucher, N° S047.

Plantula 3-S pollicaris cauUbus ferè a basi floriferis, racemta frucli-
feris ssepè 4-5 pollicaribus, floras e miniuns generis, frucliis pyra-
midem quadrangularem basi truncato-iiicrassatam formfl sufl referees
1 ft lin. longus. Species dfstinctissima inter *Eckmoapermum* et *Hete-*
rocaryum quasi media propter nuculas ad apicem usquè adhsrentes
sed cum *E Smaico* et *E Vahlumo* pel ids priori generi adnumenada
nani tiucula¹ martini; hberr sutil ner ul in *flelerocanfo* sUli ~~angulis~~

accretis inter se marginibus arele concrete. ID specimine fructifero hujus speciei quod observavi nucula superior omnium fructuum racemal (an semper³) margine lato calathiformi membranaceo Dec ut In tribus aliis crasso conaceo cingitur affinitatem arctam *EchmoBprrmt* cum *Pectocaryo* et *Omphalode* demonstras.

E. specimenibus ex Pisidiâ a d. Heldreich acceptis nihil fructu plurimum spederum *Beteroaryi* vanabilius et nucule ejusdem speciminis vel inter se similes sunt vel diverse *H. SzwoStanum* DC cum *H. minimum* absque dubio conjungendum est et *H. pachypodum* eis similimum et margine neuralam dilatato tantum distinctum probabiter ejusdem speciei tantam vanetas est. F *Tigridum* bonam Speciem sunt.

CTNOGLOSSUM Spinozici Boiss et Heldr

C. totum molliter hirsutum cinerascens, rhizomate crassulculo prostrato caules plures pumilos foliosos rectos edenti, foliis inferioribus oblongo-lanceolatis ID petiolum attenuatis costis sessilibus vel semiamplexicaulis oblongo-linearibus omnibus obtusis facie superior! densius hirsutis, racemis terminalibus ebracteatis pandfloria brevibus ramis flexuosis, pedicellis fructiferis reclis fructus longitudinalis, calycis adpressi lobis rotundatis, corollae atroviolaceae lobis rotundatis, Tomentibus obtusissimis papillosis faucem claudentibus, nuculis calyce multo longioribus convexo-depressis nullo margine cinctis aculeis rufescentibus glochidiatis dense obsitis.

Uab. rarè in summo vertice *Stravopodia* montium Sphacelicorum alt. 7000'.

Mania 3-4 pollkaris, folia 6-4 S Hn. longa 1-3 lata, racemi fraxenaeaeque 4-7 Don, fructus magnitudinis ejus *C. officinalis* sed minime marginato-incrasatus, flores eis hujus speciei minores. Species pulchella *Omphalodi myosotidis* in eodem Jugo oriundo habitu similis ab eo characteribus carpologicis statim dignoscenda

SOLENTANUS Parnassia DC. Hujus speciei e specimenibus «alde tanperfectu bucosque tantum descriptae diagnosco dabo ad comparationem cum specie sequenti.

S. totus plus minusve pilis adpressiusculis crispulis pubescens, caule elato folioso sukato longè et laxè thyrsoideo-paniculato, foliis radicalibus et inferioribus longè petiolaribus ovato-oblongis basi cordatis rotundato-auriculatis obtusis, caulibus semiamplexicaulibus oblongo-

lanceolatis, somms abbreviatis ovatis, racemls ebracleatis sub anthesf Bcorpioidete deln elongatia laris, catyds adpressè pubescenlls 5 partitl lacfofis oblongis obtusis basi subaogustatis, corolla csruleft calyce tertlâ parte longiori sinubus loblaque rotundatis, fornclclbus albidis subrotundis dliatts sub media tub! parte sitis, fflameDtis albldiB corollft dupl6 ferè longioribua, anthers parvis ovabsflavts, pediceilo fraetlfero domâin subrecurvo, nukulâ depressâ estbs planâ aculels glochldiatis basi dilalatis triangularibus mfermfi inter ae io crlctam subconnatis margioalA, disco lisdem aculels sparals et tubercolis parvia conclcs aculis numerosiB echinatâ.

S. nmicifohus Doiss ID Kolsch. pi Pers. bor.

Ilab. ID monlosis totius Pereue, propè *Ispahan* et in prov. *Aderbidjan* Aucler N« 4973 et 4974, ID nionte *Kuh BarfL* propè *Schirax* Kofscby N° 325 aub nomine *S. Tournefortti*, in monto *Elbrus* propè *Dw-bend* Kotschy N» 429, in *KurdulamA* Aucler N° M95.

Planta 4 *Ml-l* pedalis, folia inferiors eis *Rumxcis obtusifolict!* simllia sed minora 3-6 pollices longa a 1;2 lata petiolo 5-6 poll, longo saffulta. Flores magnit eorum *S. Tournefortti* folSs Inferioribiu attemalfs aJhsque nolis diveraission et quocum per errorera io Kolsch. pi. Pen. austr. confiuua fuit.

SOLEH&NTHUS AHPLIFOLIUS BofSS.

S. tottB plûs mintisve pllis adpresslasenHs minutiB pabescens, follls teueris radkallbus longè petolotia ampliB ovato-oblongis basl cordatls lobls rotundatis, caulinis sessilibus ampleiicaulUnu amplè et rotundatlm auricolato-cordatls ovatls, supremis ovato-rotundia, caule elato sulcato saperoè amplè paniclato, racemls elongatia ebracteatia laxls erecto-patullB calyobosque cano-tomentosis, lacmila calychnis oblongo-spafhulatis obtuslasimis basi angustioribus, corollâ cerealeâ tobalosâ calycem vix sequantl lobis rotundatia, fonndbufr albldis BubrotuDcls riliatls sub medio tubo sltis, Glamentis exserUs corolla duplO longlorfbus, nukulâ depreaaâ extâs convrxlusculâ disco tuberculato seehs U-neam medlam aculeato-glochidiato drcumcirca aculeis pluriaerlaHIKH glochidiatls baa dilatatis cincto.

Dab. la pinguibus umbrosis ad radices ruplum Aotillbani inter *Zeb-dani* et *Zaehle*. Legl Maio 1846.

Folia radicalâ 9-10 poll, longa 6-7 lata petiolo eis asqnl longo suffulta v caukfi bipedalcs Omnibus notis *S. ptliolan* afitnta dlffert tamea

follis nullò amplionibus caulibus amplasunè aunculatis, laciniis calycibus magis spatralatis corollam subsquantibus, nuculis majoribus, aculeis marginibus longioribus vii in basi connatis marginemque minus distinctum formantibus.

SOLENAMTHOS GuuHTBomBB Boiss. in Kotsch. pi. Pen. bor. 4846.

S. giaberrimo glaucescens, caule elato crasso tereti niperne corymbosè pauculato-ramoso, foliis rigidis coriaceis neroso-venosis subtuberculis minime calcareis pardissime obsitis, radicalibus amplis oblongis basi aequitatis petiolo longo sessilibus, caninis sessilibus a basi latiori sessilibus obovato-auriculato-oblongo-lanceolatis omnibus obtusiusculis macronulalis, racemis terminalibus abbreviatis basi bracteatis, pediculis subaequalibus tenuibus rectis calycibus longioribus, calycibus glabris ad basin usque quinquepartitis laciniis oblongis obtusis basi subangustatis fructiferis subulatis, corolla tubulosa calyce tertiam parte longiori ad medium usque quinquepartita laciniis rectis lanceolatis obtusis basi emarginatis saccato-bilobis rubris flavo-marginatis, toribus ad basin corollae loborum insertis a basi triangularibus linearibus laciniosis obtusis glabris, antheris sessilibus sub corolla insertis longe unguibus corollam subaequantibus, nuculis calycis longitudinis convexo-depressis nullo margine distinctis aculeis globulatis tuberculiformibus brevissimis omnino obsitis.

Hab. ad radices montium *Damm* prope pagum Ask Kots. N° 384.

Planta sesquipedalis, folia inferiora 4-5 pollicum, longa petiolo eis aequali longiora suffluta. Corolla 3 lineis longa, fructus omnino *Oynoglossis*, magnitudine *Cynoglossi olandestini*. Species distinctissima.

MATTIA BACHTAHTBA Sous.

M. tota adpressè puberula cinereo-virens foliis inferioribus lanceolatis obtusis in petiolum longè attenuatis, caulibus linearibus sessilibus strictis. canaliculo florifero thyrsoides pauciflorus, floribus sub anthesi ad apicem ramorum strictorum congesto-capitulatis sessilibus, calycibus lanatis crispatis dense obsitis laciniis ovatis obtusis, corollae albae calyce sessilibus longioribus in medio in 5 lacinis lineares obtusas rectas divisas, fornicibus ovato-rotundis retusis glabris paulo supra basin sitis, antheris sessilibus corollae paulo brevioribus, nuculis..

Hab. In *Armenta* ? vel *Persia* ? Aucher N° 4976

Caulis In meo specimine semipedalis, folia radicalia cum pettolo tripollicaria 4-5 hn. lata, calyx 2 Ha. corolla 3 lin. longa. *M. canesoens* DC. mæe speciei valde affinis ab eâ dignoscitur statarâ elatiore totâque plants parte supenon albopannosâ, calyaa longioris lacunis linearibus, corollâ 5-6 lin longa, fomicibus sesquilineaio supra basin corollae sitis, antheris duplo longioribus filamento manifesto insertis.

OMPHALODES PAVONIAKA Bolss.

0. glabra, caule foliato erecto superafe ex axillis sapeioribus racemoso-panicaiato, foliis caulinis omnibus sessilibus basi subcordato-aunculatis ovatis acutiusculis praeter nervos medios primarium et secundanos nervula binis margin! parallelis semicircularibus ante apicem confluentibus percursis, racemis paucifloris brevibus ebractealis, pedicellis erecto-patulis calyci post anthesin accreto JEquilongis, calycibus laciniis lanceolatis semilato-denticulatis patulis, corollâ albâ calyce subbrevis, nuculis disco pubescentibus margine inflexo longis echinatis cinctis.

Hab. probabilissimè in Hispaniâ sed locus propnus incertus. (herb. Potion.)

Plants pars inferior mihi non nota, caulis herbaceus 9 pollices longus, folia crebra alterna 9-45 lin longa 7-8 lata, calyx et corolla *0 imifolva* et *littoralis* sed hæc calyce brevior. Nuclearum margo longè dilatatus Species ab affinis formâ et nervatione fortioram, ovario distinctissima.

PARACAHUUM Bolss.

Omphalodes Sect I *Pseudanchuta* et Sect II *Paritei* subdirtislo prima. — *Mattia* subdirtislo tertia DC. Prodr.

calyx quinque vel subquinquepartitus. Corolla infundibuliformis limbo erecto-patulo breviter quinquelobo, fance dansâ fornicibus obtusis. Stamina quinque inclusa antheris ellipticis linearibusve filamento longioribus. Stylus simplex Stigma punctiforme apitatum submarginatum. Ovarium quadrilobum Nuculis quatuor depresso-plans ventre stylo pyramidato lateraliter areolâ elongatâ affixæ membranâ vel Introducta calathiformi vel planis integris dentibus margine disco tuber-

cul&tae ranās tares. Semen pendulum radiclā super* cotyledonibus oblongis ovaUsve radicals majoribng. — Herbs Orientates montans babttu et florlbiu *Oynoghsti* donate.

Hoc novum genus cui nomen ex nucularum inaertione lateral! snmp-tium et a d. A. DC. Jam pro sectione propositum et aptissūnm dedl, ab *Omphalotk* optime digoosdtur babltu alleno, corollā tatandibullformi nee rotatā, nucule insuper lateraliter et areolā elongatā stylo afflie nmt et indē Bemlna pendula nee ut in *Omphalodis* spedeibus plnribus borizontalla vel obliquē ascendentia. *Mattia* species genuine a nostro genera differunt ut *Solenonthis* a *Oynoglouo* corollā non Infundibuliformi breviter quinquelobā Bed lubnlosā profimde quinquelobā lad-nllfl «ctifl angostatts. *Omphalode** genera *Paraearyo* ab eo separate constabl sectionibus *Masohalantho* et *Euomphalodi* pnetereaue parte aeenndā Bectionis *Paraearyi* Gandolleanse id est 0. *linxfolia* et afflnibus in quibus corolla omnl6 rotatā et nuculs etsi sublatenlea Bint areola tamen valde angostā basl slyll adherent.

Sect. I. *Evparaoaryum*. — Nucule margine Introflexo bullato undulato urceolats.

PABAOABTUUI moBANTHni Boiss. — *Otfipk*. tnt0rm0<fta Decalsne.

Hab. prater Arabiam petrsam ubl in jugo Slnaltlco (requenB, in desertis JEgypti superioris (Husson).

Var. a. *wveoUUum*. — Margo nucuhe dlatatus lotus valde Inflexus transTenēque plicatus et ideō nucula orceolaris.

Omphalodu papillo\$ DC. Prodr.

¥w. 9. *oalathiforme*. — Margo nucula angintior margine ptrflm inflezuB denUcnlatna. Nucula calathiformis.

Omphalodes microntha DC.

Ambo forma promlscuē creacunt et etiam sepē in eodem apedmine ab unā ad alteram transeunt.

PA&ACA&THII •UGULOSUM Bolss. — *Omph. rugulota* DC. — *u. myo~sotoūbt* Schlmp. pi. Arab, non Schrank.

PARAOANTUM PBMICTIM Boiss. — *Omph. Pemea* Bolss. Dlagn. VI.

PABAOAHTHII URDDLATDII BOJBB. in Kotsch. pi. Pen. bor. 4846.

P. totnm pills longifl tenulbus e tnbereulo ortfs canfu deflexo-patulis

foliorum patillis hirsutum asperum, caulibus erectis foliis longe paniculatis, foliis lanceolatis acutis margine grossè et irregulariter undulato-crispatis, radicalibus laetibus longe hirsutum aeternis sessilibus, paniculis ramis abbreviatis paucifloris, calycis adpressis hirsutis laciniis ellipticis, corolla caerulea tubo calyce subaequali, lobis lobis ovatis, fornicibus triangularibus obtusis brevissimis papilloso-stylis ovario paulo brevioribus, nudis.

Oab. ID schistosis moods *Elbrus* propè Derbenl. Kotsch. N^o 436,

Caules plures pedales, folia radicalia cum petiolo bipolycaria 1-3 lin. lata, floras magnas. Par. *rugulosa*, nucula in roeo specimen Dallas sunt sed specimen Aucheri N^o 4947 ex Aderbidjan hinc Terodmtaliter referendum eas habet subsphaerico-calabiformes aperitur angustis tuberculato-denticulatis, disco areolato-tuberculato. Affine *P. Ptnko* quod differt Indumento brevi denso veluttoo, fimbriae margine non undulatis.

PABACAHYUM iii&sunni Bolss. — *Omph. hirsuta* DC.

Caulea elatioris et Indumentum multo strigosius et asperum eo P. Chaniu a quo praterca differt nuculae margine valde inflexo muricato-bullato urceolatis nec margine vix flexo Integra concaviaculis, aculei globulati ad discum sitis eis alfarum specierum multum notarum pneterea longiores sunt.

Sect. II. *Mattutrum*. — Nucula margine planiusculo rectinaculo instructo plans vel concaviaculis.

PARACARTUM MYOBOTOIDES Bolss. — *Cynoglossum myosotoides* Lab.
— *Omphalodu myosotoides* Schrank.

Varlat nuculae disco tubus margineque integrè (AntiHanna In cacumine *Hmamu* Bolu.), vel disco luvuwa narglm denticulatu (*IManwl*), vel disco globulatis margineque denticulatis (Ubanns In cacumine *Makmel*. BOIM., cacumina *fyhadotica* Greta SWUh, Heldf.) bane ultimam formam primum pro specie propria In pi. Heldr. GrL sub Par. *SUahorpumi* nomine babneram.

PABACAVYVU CARIENSIS Bolus. - *Omph. Corwuii* Bolw., Diagn. et DC. Prodr

PAHACARYUM LAMraOCAMCM BolflS.

P. lotum pills albfa longtaBculls patulis basl UibercuiaUs rigiduils aspernni grlBeum, canllbus erect» clalls supernè strlctè ramoalB, foliis lanceolato-lnearibuB lnearlbusve obUuliuculls inferioribiu In petlo-lum atlenuatis caullnis seflslllbuB, racemls frucbferla elongalls laila unllaterahbus recite, pedlcellte axl strichs fructu BnbbreTioiibos, calyce ovato-rolundo palulè et densè albo-stngoso lacniis eDIplids, corodffi brails inteDsd violaceas tubo calyco Induso Umbl mlnutt lobis ovatlB, foraidbus ovatlB cnfiBluuuIlB papiUosu limbo \te brerloribus e fauce euertU, DUCUUB planla orbiculan-0\abs glabrls, disco albo Ditldo alâ rubellâ.iDtgermâ cincto, stylo brevl frucUim Buperanti.

Hab. ad rapes AoUllbani orientalte suprâ Souk wadi Barrada in via inter Danuuam et Ztbdam. Legl Halo 4846.

Plaota 4 4;S-9peda1is, folia radlcalla 4-5 poll, lonpa, 4-5 HD. lata, (lores els P. Atrauft ferè mlnores, nucula dlametro 6-6 llu. late. Affloe P. Carienna. quo differ! IDduraeoio magls BtrlgoBO, caule robustlorl non ascendeDtl nee a basl ferè ramoso, DUCUUB majorlbus hensslmis, corolla limbo mlnato.

pABACAATm AUCHBBI Bolss. — *Motta AuchvTi* DC. Prodr.

PAKACAHVUM GLASTIPOLIUH Bolss. — *Mattio glosUfoIia* Don. — *Cynoglouum glastifohwn* W.

PAHACAHTDV AirGuBTIFOLim Bolss. — *MatUa angustifolta* Don. — *Oynoglossum angulifohum* W.

PAKACABYUH LBPTOPHYLLim Bolss. — *Jfistfia leptapkylla* A DC.

PAHACABTDH CEIBTATDH BOISB. — *Jfatfta orittata* Don. — *Cynofftonwn erUUUwn* Lam.

PABACAHTUV COBTMBIFOEM BOIBB — *Mattia corymbiformis* DC.

PXUOABTDM AtoBXin Bolsd. et Heldr In pi. Anat. 1846

P¹ touim pills adpressissimiB e tnberculo orlta caneBceiiB, rnlzomate ludnrato casplloso, foliis angulè lanceolato-Unearlbus obtuslu culis ndlcallbiiB In petlolnm longè âtlenuaUs, caullnlB pancto sesslMbtB Hnea-rlbus, caullbus folia radlcalla J-3pl6 superaotibus aupernè In 2-4 rama DQdos dhrtela corymboBo-panlcolatlB, calycls adpreBBè VWIOBI laci-nlta ellptlco-HQearlbôB obtnBu, corollae Intensè azurea tobo calycent swjuanU In limbnm ampluni campanulauim aplec In f> lobos rolundatos

divisum eo paulò longiore aenslm ampUato, antheae town IUamento snffultis corolla sinus aequantibus, fornibus antheram dimidlam Tii gjqoantibus Unearibus apice trideobitisdenlibuB lateralibus rotundaOs gftbifonnibus Intermedio obtuso Uneari aUls dupl6 longlori, noemte fructiferis elongatis umlateralibus, pedicellis erecto-patulls fructu dupld longioribus, nuculis pianis margins recto Integra aut obsoletè denticulate drculariter instructift orblculatis disco pare8 et breviter toberculatis.

Hab. in coUibus andis propè *Ghelindort* inter *Karagattok* et *Ko~nxah* in *LyoaonM* (Heldr.) Jun. 4815.

Caules semlpedales ff uctiferi saepè paulò longiores, folia ndkalla cum pettolo 3-4 poD. longa 9-3 lin. lala. racemi fractiferi 4-fi poD. longi, peduncoli onnes ad latus mtenram racemi spectantes saepè pol-Ucares, corolla 5 lin. longa, nucule orbiculares dlametro 6 lln. late-AfDne *P. corymhformi* quod eilmie dffert caule elatiore densius et latitis foliato, indumento minus cano, corollae limbo tubo sobbreuori, fornicibus antheras xquantibus Infrà medium utrinquè gibbosls dente intennedio subulato gibbu multotles longlori.

PABACAEYIW LOKGIFLOEVM BOISS. — *Omphalodts longiflora* DC.

CACCINIA Savi

Sic cbaracteres fructns desenbendi. — Nucula 3-3 fructns ssepis abortive. Styh basis in alas latas crustaceo-membranaceas cupuH-formei sub nuculis fertdibus expansa. Nucula fertUes % sa^dds I compressas pianuscube per areolam latam laeviasculam oblongam cupula slylaili adbcreatea pendule sed nucularum binarum abortione pottos òorizontales. Pericarpium osseo-crustaceum fade exterior! larre vel plus niuisTB crislato-rngosnD. Semina pendula compressalssbn. BadlcuH brevissima sublncurva bilum spectans. Gotyledones ampks compresso-plans obovats. — Genus quoad spedenim dlstlnctionem hucnsqnè malè notum et CUUB omnium quas oovi diagnoses hie dabo.

CAGCINU GLAUCA Savi Cos. bot. pag. I. tab. 4

C. perennis glaucescens caule erecto elato anguloso giaberrimo folioso a medio vel jam infrà medium ramoso follorum costt medU decurrenti angulato, paniculate, l'olns carnosuils oblongls oblongo-taB-

ceotū Bessillbus basl angustatis ad margines et fadem superiorem aculeis conidis albis brerlBslms subincnrvis e tuberculo ortls nrari-*catia* subtus nervo medio excepto glabria, raecnds paodfloris bractea-*tis* bracefl oblango-lanceobtlis acutis, pedledlla extra aillaribus spar-*slasnlfl* aculeolaUB post anthesID cernuis, calyds ultra medium quā-*qoefldt* ladnHs sob antbesi Hnearibus aplce aculela crebnoribus in Betas elongitls albo-penleUlaUa, corolls tubo calyce dupl6 longiorl, llmbl ladnllB elHptlco-Unearibus acutfsslms, antheris omnibus lnsquallbus a majorl magis ezserta ad lnlmam ndnorem senslm dlmlnufla, calyce fructifero valde ampllato stellato-patenti lobls brerlter triangularibus, nuculls bnto oratls disco planla grosse nerro medio lonpludlnali aUls-*que* latenlltmB denculato-rugois brevlter drcumdrca dentibus tri-*angalaiibus* crlstatls.

Hab. In prov. *Aderbxdjan* Persia Aucher, N°.5006, ad radices mentis *Demowend* propê *Ask*. Kotschy, N« 368 A.

Bee planta ox tcone et descriptlone dtatls est Ipslsslma *C. glawta* Savl qui semlna prob. In Persiā boreall quoque lecta a d. Fischer absque nomine receperat.

GACCINIA GBLISII Bolss.

C. pereonis, caullbus ereetls laribus costâ foliorum decurrenti an-*gulatfs* infrnê rubellift supernê panê paniculato-ramosls, fbllls car-*noatv* glands seasillbos oblango-lanceolatls acalis margine et secus fndem saperlorem taberculifl sparsis albis obsoletê aculeatis, floralibus lanceolato-llnearibiis subconniventibus subtôs margine et ad nervnm ansjeolatli aplce longê setoso-penidllatls, corolla tubo calyce quartâ parie longlori lobis linearibus lnsqualibus obtusis, antherft supenori allis Inter se subaequallbus duplò majorl, calyce fructifero accreto BtaUaio-patenti, nucoliB margloe recto anguBtisBimo dentlenlato dnctto diſcs (Immaturls) sqjaamidoso-tubercalatlB.

Hab. in Persiā inter *Amadan* et *Teheran* (OUvier et Brugnferej. Vldl cultam ex fiort. Cels.

Borrigo orosrifolia Vent Hort. Celfl. pag. 400, tab. 100.

Afflns *C. glauoa* a qui quantum e spednune culto dUudicare possum stWlfferre vtdetur corolls tubo calyoem parum eicedenti, anthera-*run* proportione, nucull margine vlx dentteulatâ nee dentibus trlan-*gutaribufl* cristaU.

CACCINIA 9TBIGOSA FIOUS.

C. pereonis glaucesceos. caule erecto glabro vel supernè pardsañhè aculeato a rcedio aut infrà medium ramoso ramorum et coste media; foliorum decurrentià valdè angulalo paniculate, foliu amplis oblongis sessihbus basi brevssioè decurrentibus utrinquè aculeis conlds sparsis e tuberculo albo ortis stngosls, acoleis coslarum et marginum maJonbus, racemis demòm elongatis nudis, pedwellls valdè aculeatu demdm cernuls incrassato-subdavaUs, calycis floriferi ad terttam partom qmnqopfldE laciniis triangularibus atrlgoao-dllatla, corollas tubo calj-ce triplft longion laciniis ellipticis acutis, anttaer&aupefiori major! <SBteris iliã dlmidi6 minoribus inter se TO inxqnallbiis, calyce frndl-fero ampliato Btellato laciniis brevissime trangularibus introflexis, BU-«alA sohtana (Junlon) disco Ixnaacula margtoe obsolete denbculala.

Ilab. ad radices montis *Demawend* Kotsch., N» 368.

Differt a *C. glauca* foliis utriquè et crebriis aculeatis amplioribus, racemis nudis, calycis lacinus abbreviatis, tubi corollas cum calyce tyo-portlone diveraft, nuce non rugosfl.

GACCINIA KOTBcini Bolss. Diagn. VII. — A procedentibus direisa caule lenuiori bienni? fohto non carnosus viridibus nee glauds, tube.*-culis dlmidifc DUDOribus selas nee aculeos >eros edentibus, nuculls margine iDtegermmis nee denlalls. Corolla tubas calyeem tertũVparte snperat, anlhera a superior! majori ad inflmam sensbn diminaantdr. In Dlagnosi citatã corrigendum est quod de urceolo membranaceo nnculam foveutl dixi qui est basis styli dlhuata nee carpelhim abortlram.

CacmiA RnssBLii Bolss.

G. bienols, caule smplici erecto paulò suprã basin raroa florlAtròs numerosissimos in tbyrsum pyramtdalem dlspòstos edentl, follls viridibus oblongo vel lanceolab^nnearibus inrerioibus obtusluscnHB In* petiolnm internè longè attenuabs supenoribus ad basin ramorum et seeds ramos se&sUibus angulè Uneari-lanceolatut aculis omnibus facie superiori et seeds marines tuberculb albis setiferls acnleatls, ealyds laciniis triangulari-lanceolatis aculls erecto-patnlis internè ad nervuro n margnes aeuleolatls aplce longè setOBO-pentdHatto, coroHs tubo calyce duplb longiori laciniis llnearibus, anlherã superiori allls later sc subaqualihuH fõW¹ tnpfb majori, cal^ce frucflfero steDatlm piteritl,.

nuculls margine erecto angustissirao obsolete denticulate dntis disco
SBVI nltido lioeii elevatis panels, irreglarlter percurso

Hab. inter *Altpum* et *Bir* ID agris Aucher N° 2348, *Aleppi* Bussell,
Kolschy N° 857.

Borrage maoranthera Buss. Desciipt. Alep. II, p. 916. — *Caom̄nia*
BauwolfU DC. Prodr. non C. Koch.

Species ab omnibus allis inflorescentiā tfayrsoldeo-panfculatā folls-
que lanceolate dlstincta. *C. Rauwolfii* C. Koch In Linn. 47 p. 303
plant! Armena certlsslmē nostra planta non est nam earnosa glauca
panJcuhto-raniosa didtur antberis omnibus Inaquallbus donata et ex
ejufi descriptlone caterOm valdē incompletā nlbil obstat earn ad *C.*
glauoam Savi referre. Probabliter Icon Rauwolfl IUD. quara non vidl
ad noBtram spedem referenda.

SOLANACEA.

SOLANOM SINAICnM BolSS.

S. perenne a basi nmosissimum suffrutesceDs csespitoso-dnmalo-
gum, nmls vetustia abbrevlatis fruleBcentibus uudls albidis plūs miQts-
Intrkatls annolinis herbacels virgatls tenuibus simpileiuscolis obsolete-
BDgulatis puberulis, fobls oratis vel ovato-subrbombels obtusls sub-
integrifl veJ ssspfus acoUs Irregularibus oblusInsculē dentads Inferior!-
bus loDgē Buperioribus breviter petlolatls omnibus setulls papllosis
plds mlnūsve densē pubesoéotlbus, pedunculls rectas folls asquilongia
vel brevioribus umbellaUm 8-B floris, pedicellis deflexis adpressē blnls
Dorl ssquUonglsloDglorlbuBve, calycis lacinlls ovatls obtualssimto, co-
rou> abldft, baoçu nigricantibus.

Hab. In flssnris rupinm jugi Sinaitici in vaUe *Wad* SoheU**. Legi
Mart. 4846.

Soflratex nmosissimus 6-10 poMcaris, folia majora pollicen lotgt,
flona et hacw nagnUudlnki *S. nigri* et afflnlum a qHMu> cauKbus
sufrotestentiboB, indumento, etc. egreglè dlflert.

ACANTHAGEJE.

ACAITBOS STBIACOS Bolss.

A. folils sects costas et nervos breviaslmē papilloso-puberulis Ian-

ceolalis elongatis basi in petiolum brevem sensim attenuatis ferè ad basim usquè pinnatipartitè laciniis triangularibus margine et apice in spinas flavidas validas abeantibus, caule brevi folia 1-3 radicalibus similia ferenti, spicam compactam sub antheris ovatam dein cylindricam foliis vix longioribus brevissimè puberulam, bracteam antenae amplam margine ciliatam ceterum glabram ovato-oblongam corollae elevatam 8-40 nervis Inter nervos reticulatim utroque margine in 4-5 spinas subulatas abeuntis apice subrecurvo patulo In spinam lanceolatam aliam latioribus validioremque attenuato, bracteis lateralibus linearibus eplois bracteis interioribus brevioribus, calycis lobis interioribus occultatis ovato-rotatis sessilibus margine ciliatis repandenticulatis exterioribus maximis foliacis margine et ad nervos puberulis oblongo-spatulatis auperiori angustè denticulatam inferiori bifida lobis spinulosis, corollam lutescenti glaberrimam trilobam lobis rotundatis, antheris copiose albo-barbatis.

Hab. in Galilaea circa Nazareth et Banuu, in tota Caelesynae inferiori ad radices Antilibani (Boiss.), in Mesopotamia inter Orfa et Suerek Kotach. N° 63.

Acanthus tyronu var. *p.* Nees in DC. Prodr. ex parte non L.

Folia sepè pedunculata et ultra, 3-5 poll, lata, spica saepè pedem longa, flores in fl. poll, longi. Affinis *A. hirsute* BOISS. ab eo distinctus spinis foliorum et praesertim bractearum multo validioribus, indumento raro brevi, bracteis lateralibus abbreviate, aepalo superioribus denticulato, corollam glabrâ. Tota planta multo major.

Nescio quibus rationibus ductus d. Nees ab Esenbeck in DC. Prodr. II p. 874 *A. spinosum* L. plantam Europaeam omnibus notam plantam Linnæam • *foltis pinnata* • distinctissimam et insuper anonymis omnium auctorum antiquorum confirmatam in *A. hirsute* meo plantam Orientalem quae in *A. apiculata* verum sub nomine *A. tyronis* describitur. Haec synonyma nullo pacto admittenda et a restituedm ESU

ACANTHUS SPINOSUS Unn. — *A. spinosissimus* Nees. Cat. — Nees in DC. Prodr.

ACANTHUS TYRONU Boiss. — *A. tyronu* Nees in DC Prodr. nec L. nec auctorum.

DIAGNOSES

PLANTARII ORIBNTALIIUM NOYARH.

DIAGNOSES

PLANTAR!! ORIENTALHI HNA1DL

N° 12.

AUCTOHE

E. BOISSIER,

Soc. PBVS GEHEV SODALI

NEOCOMI.

TYPIS HENRICI WOLFRATH.

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1BS3

DIAGNOSES

PLANTARUM MENTAMUM NOVARUM.



SCROPHULARINEAE

VIHABACUH CAHPIBTHB BOIH et Heldr in pi Anat. exs. 18*6. (Sect
Thoptua)

Vienne lomento tenui demum detersili canescens, radice verticali tenui fibrosum, caule simplicissimo, foliis radicalibus oblongis vel oblongo-lanceolatis obtusiusculis in petiolum longiusculum attenuatis minute et obtuse crenulatis, caulibus parvis striatis oblongo-linearibus basi subattenuatis rotundatisve acutis, floribus sessilibus per 3-3 fasciculatis racemum simplicissimum tenem deorsum basi interruptum lanis griseis detersili obductum formantibus, bracteis haerentibus calyces subaequantibus, calyce fere ad basin tubum laciniis breviter lanceolatis acutis excepto apice villosa occulata partito, corollae extus stellato-tomentosae calyce triplici longioribus, filamentis flavido-lanatis, antheris staminum longioribus breviter decurrentibus, ceteris reformibus, capsula subglobosa mucronata calyce asquato lomento detersili laevi

Hab. in campis prope pagum *Karkin* ad orientem urbis *Koniah* Anatolia) Fl. Juoio (Heldreich)

Planta pedalis vel vix sesquipedalis, folia radicalia cum petiolo apicem pollicem vel sesquipedalis, racemus semipedalis

vel longior. Affine *V rotundifolio* Ten et *V crenatifolio* Doiss. ab eis differ! fohis angustis elongatis, caulibus basi non aunculatis. Referri quoque specimina macro *V phlomoidis* vel *montani* aed folia ut in ci5 minimi decurrentia

VERBASCUM MACRAPHUM Boiss (Sect *Blattaria*)

V. bienne totum pube papillosa crassa rufescenti secus parlem supenorem plants copiosion et glanduloso-viscida pubescena, caule simplicissimo elato inferne folioso supernè in racemum longum apicem simplicissimum abeunti, foliis videntibus tenuibus inferioribus oblonga vel oblongo-ellipticis breviter pedicatis acute grosse et subduplate dentatis dentibus triangularibus basi subangustatis, caulibus intermediis stipenioribusque c basi truncata subannulato-cordata oblongo-lanceolatis acutissimè sed minus profundè serratis acuminalis sensim diminutis, floribus solitariis pedunculo calyce breviori suffultis laxtasculis racemosis, bracteis calycem subsquantibus a basi latiori ovata attenuato-acuminalis, calycia tamen glanduloso-hispida laciniis integerrimis oblongo-ellipticis acutis, corollam luteam, staminibus omnibus longè purpureo-lanatis, duorum longiorum apice denudatorum antheris rectis subdecurrentibus, caeterorum remiformibus, capsulam inaequaliter pedicello incrassato repleta breviter suffulta tomentello-vicida ovato-rotunda longiusculè mucronulata calycem auctum vix superanti.

Hab propè pagum *Dervent* montis *Elburs Persia* borealis (Kotschy n° 718), in Persia australe (Kotschy n° 096)

Planula tetrapetalis, folia infloia cum petiolo 4-5 pollices longa aequalipollicem lata, capsula pisa nulla major A *V. virgato* cui affinis egregie distinctum foliis magis tenens, racemo valde glanduloso, bracteis basi latioribus, calyce capsulaeque duplo majore.

VERBASCUM VULCANICUM Boiss et Heldr in pi Anatol eis 1846 (Sect. *tychnitis Thapsoidea*)

V. bienne? totum indumento sordide albo asperulo secula folia uniflorum evanescenti seeds racemum crasso flavido obsilum, foliis medioenibus oblongis-obtusis crenulatis basi attenuatis inferioribus pedicatis caulibus sessilibus superioribus basi subcordatis, caule medlocris simplici vel ad basin racemi parce ramoso, floribus sessilibus per 5-4

in fasciculos approximatos racemum (longura densiusculum formantes dispositis, bracteis lanceolato-linearibus acuminatis fasciculos subaxillaribus, calycis pannosi flavidi lacinus lanceolatis aculis, corollâ flavâ excluso lomento basi infus violaceo maculâ, filamentis omnibus violaceo-lanceolatis superioribus apice nudis, antheris omnibus reniformibus, capsula

Hab in arenosa vulcanica regionis Inferioris montis *Karadagh* *Anatolia*. Fl. Jumo. (Heldreich)

Planta pedalis, folia inferiora cum petiolo 3-4 pollices longa 1 1/2 lata, ricinosa 8-10 pollicaris, calycis floris 5 lineas longus. Valde affinis *V. Boerhavia* a quo lamina densa et pannosa non detrahitur racemi, bracteis abbreviatis, calyce uultu breviori sat distinctum credo.

VBBASCUE CASABEUE Boias (Sect. *Lychnis Thapsoides*)

V Indumenta flavida asperulo secus caulem et folia praesertim inferiora tenuiter detrita seeds racemum floccoso denso obsitum, caule clavo crasso simpliciter, folis radicalibus araplis oblongis basi rotundatis obtusis obtuse crenatis Individuis vel irregulariter submutata* lobis petiolaribus, caulibus sessilibus oblongis vel ovalis integris acutis basi subcordato-auriculatis superius virentibus subtus tomentosis nervis elevatis percursis, florum sessilibus per 3-4 in fasciculos racemum densum longum terminalem basi tantum subinterruptum formantes dispositis, bracteis lanceolatis aculis calyces subaequantibus, calycis valde flavido-tomentosi lacinis lanceolatis acutis, corolla lutea distincta calyce longior, filamentis violaceo-lanceolatis, antheris omnibus reniformibus, capsula.

Hab in vallibus circa *Banias* (Caesarea *Palmyra*) *Galilea* ubi legi floriferum maio 1847.

Folia inferiora 10-19 pollices longa 1/2 lata petiolo 3-5 pollicum suffulta, caulina sensum dimmuta. Caulis 3-4 pedalis. Racemus simplex a basi breviter et parce ramosus saepe sesquipedalis Calycis floris 5 lineas longus. Affinis *V. maii* et *V. Lychnis*; planta minor inducit araneoso rarescentem, fasciculis floribus dissilis nee dense racemosis; vix longè differat folis tenens sessilibus basi angustatis, caulibus breviter decurrentibus, racemo toto valde floccoso, etc

VEABAKUM QAMEUH Doiss (Sect. *Lychnitis Thapsoidea*)

V totum lomenlo gnseo lenuissimo pulverulento facilè detersili obsltiim vinde, caule elalo in paniculam longam abeunb, foliis amplis oblongo-tanccolatia obtusis irregularity repando-lohalis inargine ob- lusè denliculatu, inferionbus basi breviler altenuatis cetens suprA basin cordato-auncuiatam anguslalis, flonbas sessihbas in fascicule* 5-8 floras omnes remolos disinctosque braceis 9-3 ovato-rotundia mucronalis calyces subsquanlibus involucralos disposilis racemoa longos laxissimos formanlibus, calycis ad 5/4 tanlum partili lacmfls late tnangulari-lanceolalia acotia, corollas ampls calyco Inpl6 longio- ns cxtAs (omenlose stjgmenlis insqualibas, Glamenlis omnlbas vio- (aceo-lanalis, anlhens omnibus remfortnibua, capsalâ .

Hab. in monlc *Carmelo*. in monte *Ithabure* Galilee el ni fallor circà lacum *Tiberiadts* iBoiss. vere 1847).

Planta procera plunpedalis, folia inferora 1-1 1/2 pedalia 4-8 pol- lices lala. pnniculae racemi pedem et ampliùs longi, calyx flonfer K tineas longus Affine V, *Lydio* et V *matali* sed disinctisBimam in- dumento tenni, fasciculis florum remotiSj calycis tacinns lationbus c(prsBsertiui bracteis lalis acununatis fascicnlos florum (nvoincrân- libus

VEBBASCUH nvGBOPUVLuw Boiss (Sect *LychnitU Thapsoidea*)

V. totum tomento denso flavescenb aspero non detenllf pannosaoi, folns radlcalibus ovahs oblongisve obtusis margine valdè sinaato-lo- batis valdè undulatis basl subtrncatis vel breviler cuneatis petiolo brevi suffultis, caulinis basi longè dcurrentibus oblongls acnlis bre- viter denticulaba integrisve, cauibus simplidbos randis ramo aucfis craKsis parte inferiori densè foliosis supenon in racemnm longtim laxum abeuntibus, flonbus sesstlibus per B-4 in fasciculos remotos dlspositis, bractea e basi subcordalft tnangularl acula fascfculnm lequanli, calycis valdè tomentosi lacinus Lnangnlan-lanceolahs acatis, corolla lulea exloa tomenlosà, filamealis omnibus violaceo-lanaUs, anthens omnibus remformlbus, capsulâ ovatâ obtusâ macronulaU glabrâ oalyci nquilongA

Hab in collibus inter Damoscum nrbem et *AntiUbanum* sitis, in regione Inferiori *AnMWmni* oircA *Reaches a* c(*Zebdani*. Ugi ftorif. p] frurt rotate 1R47

Folia radicalia 3-4 pollices longa fert 9 lala, caules 3-4 pedales, calli crassus flonfer 4 lineas longus fructifer elongatus. Haec species cui planta Syriaca in DC Prodr sub *V. undulato* citata adnumeran debet ob folia undulata confusa fial com *V. undulato* Lam. et Toura Voy et IC — *V. plicato* Fl. Graeca quod distinctissimum est foliis radicalibus elongatis multo profundius lobatis, caulibus basi auriculato-cordatis nunquam decurrentibus, caule multo humilior, corollam ampliam, filamentis flavido-lanatis

VEHBABUCUM TRIPOLITANUM DOISS (Sect. *fychnitti* *Thapaoidea*).

V. totum (omenlo lulescentt asperulo in rosulis stenilibus denso in caulibus tenerrimo obsitum, foliis radicalibus caulisque inferius oblongis vel oblongo-lanceolatis obtusis basi angustatis petiolatis grossi lobatis lobis (nangnan-oratis obtusis sepius obtusissimè repando-dentalis, foliis caulibus intermediis subsessilibus sessibus versus basin ad costam mediam usque parviter, auriculis e basi subcordata nunquam decurrenli oblongo-lanceolatis aculis aculibus densatis, caule demum glabro rubro paulo supra basin ramosissimo ramis longitudo virgatis stentibus, flonibus subsessilibus in fasciculos 5-4 floras bracteâ obcordatâ acotit eis breviori suffultis remotos racemos laxissimos formantes dispositis, calycis sordide lanali Iacinus oblongis aculis, corollam flavam calyce in parte uiajone, filamentis violaceo-lanalis longioribus supernè nudis, antheris omnibus reniformibus, capsulis.

Hab propè Tripolim Syria ad radices montis Torbol ubi legi flonferum Junto ineunte

Folia radicalia 6-7 pollices longa 3 pollices lala grosse lobata mimè undulata. Caulis 3-4 pedalis ut in *V. stnuato* ramosissimus. Calyx flonfer 5 lineas longus. Species pulchra liabilis et filamentis violacels ad *V. sfnuafumacedena* sed ab eo foliis petiolatis mimè undulatis, caulibus nunquam decurrentibus, calycis sessilibus saltern parte majons lacnifis elongatis etc , distinctissimum

VEHBASCUH AHTIOCHIOM DOISS (SPECI *Lyehnitia* *Glotnerata*)

V. bienne, foliis supra glabrescentibus vel brevissimè puberulis sublus tomento asperulo hreviasimo non detersill pannosis elcvalim reticulato-nervis, radicalibus oblongis obtusis breviter petiolatis margine obtusi obsoleli circulatis, caulibus multo inermibus inter

se **ilistAiiibus infcrioribiis oblongis sessilibus basi rolundahs superioribus** basi lalion subcordato-amplexicaulibus orato-oblongis acuds, caule sunplicissimo junion pube stellalâ bren griseâ deterrenti obsito tandem glabernmo ruhello, norihus sessilibus in glomerulos sessiles dcnsos 3-6 (lows dislantea diapoailia racemnm longiasimnm inlerrap-dun rormanlibus, bractm Iriangulanhus calyces non tequantibus, calycc lomento rufo-griseo non delersili pannoso ferè ad basin nsquè in lacimas (nangulares acntas parlilo, corollâ mediocri liiteâ extds tomentosâ, filamenlis flavido-lanalis, anlhfris omnibus remformibus, capsnlâ ovatâ brrviter mucronulalâ tomento delersili obsltâ dcmAm glubrâ calycem non superanti

Hah inter *Damascum el Rascheya* in *Antilibano* (Boiss), ad rap-es el inmnia arcis *Antiochia* (Aucher I Doiss)

Folia radica ha 4-7 pollices Innga **Gaulis i-h** pedalis basi crassitlc digili, racenms simpheissimus snpç bipedalls, calyx Donfer *h* lineaa longm, napsnla 3 lineas longa Planta a cl el amiciss G Rentham ad *V gnaphalodem* rclala quod a me collaUira aperificu differt indu-menlo araneoso mveo lajfi lenuissimè nee pannosè aspero niveo, rac-crao brevion codcm indumento bombycino ferè occuUalo, bgacteis lanceolatiB calyces supcranlibus, folus laevibus nee valdè rehculato-**rugosi**. Si etc

VERBA9CUMLEPTOCLADLM Boisa el Heldr. in pi. Anal. exs. **1846**

V basi 9iiflulescens multicaule tolum indumento araneoso cano lonuissimo demum plus minusve evanescenti obsilum, folils canescenlibns ad caulium basin nomcrosis oblongo-lanceolatis aculiuscalls tennissimè crenulatis in peliolum longè attenuatis, caulinis paucis, superioribua sessilibus lineanbus hasi rolundatls, cauhbns baai canis supcrnè glabrescenlibus creclis virgatis tenuibus a medio ramosis ramis elongatis subflexnovs ngidulis, flonbus subsessilibUB 1-3 in fasciculos minulos dispositis laxè et tenuisslmè racemosis, bracteis lineanbus cal>ce vix brevionbus, calycis infernè cam **lacimis** glabrescenlibus lanccolalo-hneanbns, corollâ minnlt calyce tripl6 longio-n flavâ exlûs tomento ad, Rlamenlis ommbug sordidè llavescentU-Una-III, anlhens omnibus remformibus, capsulâ ob pedunculum crassum hrevissimim suhclavalâ ova (A ranâ calyci uqmlongâ

- a -

Hab. in pinetis apricu arenosts manliois ad onenlem urbis *Adalia* (Heldr.) Fl. Gne Junii

Planta 1-1 1/3 pedalis, folia infeiora cum petiolo 3-4 polhcea longa 7-10 lineas lala, racemi reclii ferè pedatcs, calyx flonfer 9 lineas frutifer at et capsula 5 lineas tongas. Corolla 7-8 lineas diametro lata Mfine *V simpUci* et *V Mlfiafolio* ab utroque indumento tenui araneoso, ramis Inuiter virgatis, Oonbus mull6 minonbus, calycis laciniis lioeanbus nee ovalis facilè disiuigendam

VERB&BCUH SCBIHPERIAMM Dous (Sect. *Lychnitts Glomerate*)

V folns ferè omnibus ad collum congeslis angustè oblongo lanceo- lalis obtasis basi in petiolum brevissimom atlcnuatis marginc valdè sublobalo-imdulatis lopis sinubusque rotundatis enspaha, foliis cau- llnis paucisBimis abbreriatis sessihbug basi non decurrend subaun- culalo-cordalis aubundulatis aculiusculis, **foliis** omnibus tomento denso aspero supernè ferraginoo subtùs magis virescenti obsitis pan- nosis, caule ferè a basi ramosisslmo paniculato ramis tenuissimis virgato infenonbus loogissimis superioribus angulo recta palcntibus, infloresceniâ tolâ eodem tomento lutescenti sed tenuissimo obsitâ, flonbus minulis subsessilibus secAs ramalos spams solitarils race- mos graeillimos formantibus, bractea **basilari** minutissimâ oblongft tomento occullatâ, calycis tomentosi laciniis ovatis obtusiusculis, co- rollâ parrâ lutcâ exlùs tomentosâ, filamentis omnibus sordidè albo- lanatis, antheris omnibns remformibus, capsulâ .

Hab In *AraUA PetrcBd* Schmper absque nurooro.

Folia radlcalla cum petiolo 4-4 1/9 pollicana pollicem circiter lata eilmiè undnlata enspa lobis rotundatis Caulis bipedalis ezimiè ra- moaus. Calyx eo *V sinuati* fore minor subsesBilis. Species caulibus apbylhs ramisque lenuissimls notabilis floribus minutls et formâ fo- liorum accedens ad *V. stnuatum* a qao prater caules subnudos dif- fert foliis cauhnls non decurrentibus, flonbas Bubsessilibus, filamentis non purpneo-lanatis ramisque multò gracilionbus

VEBBASCUV PYCROSTACRVUK BOISS et Heldr in pU Anal, eis 1846 (Sect, *fychnitis Pyramidata*)

V lolum lomenlo denso albo non deterslli pannosum pumilum, foliis parvis oblongis aculis inlogns minutissimè crenulalis infcn-

bus in petiolum brevuni altenualis, caulims caulem dense oblegenti-
bu& slnclis secus caulem in alam angustam folio ipso plerumque
tnpl6 breviorcm decurrenlibus versus caulis apicem diminutis acu-
minatis, pamculac terminahs ramosissimse ramis coagestis brevibus
slrictis tenoibus terniinali colens mull6 longion, flonbus sessilibus
in fascicules 2-5 floras subconliguos dispositis ramos ferè obfegenh-
bus, bracteis minimis breviter ovatis breviter el tenuiter cuspidahs
calyce brevionbus, calyce pannoso ad medium usque aut paulft mfe-
nùs in lacimas tngnlares acutas parlito, corollae parvse exlùia to-
ruenellee lubo longiusculo, filamentis parùm inaequaliboa linã. basi
rubellis glabns supernè dense albo-barbatls, antherls omnium reni-
fonnibus, capsulã lanã delersili vestilã globosã muticã calycl asqui-
longã

Hab in agris propè *Egirdii* Pisidias (Heldr.) Aug 1846

Planta ex spccimimbus quac vidi 14-18 pollicans, folia inferiors
cum petiolo tnpollicaria 13-ltS lineas lala, supenora sensim minora,
pancula ferè pedalis ramis lateralibus tantùm 9-3 pollices longla
Calyx tres lineas longus, capsula piso dimidi6 minor. Species pul-
chella nulli aliae propiùs accedens

VBRBASGUM ELEGANS BOISS et Heldr tn pi Anat eu 1846 (Sect
hychnitia Pyramidata)

V lomento denso pannoso non delersili caoam, folus radicalibns
numcrosis congestis oblongis aculiusculis in peliolum eis sobbrevio-
rem altenualis infimis paginã infenon reticulato-rugosis, caule erecto
tenui internè dense folioso supernè in pamculam elongalam angus-
Cam basi pared et brevissimè ramosam abeunli, folus caolims albo-
pannosis sessilibus oblongis basi subaltenuatis striclls, floribus soli-
tams vel sspiùs 3-3 fasciculatis SQCÙS ramos lauusculè dispositis
pedunculo pannoso calyce brevion suffulhs mimmis, bracteis lan-
ceolatis calyces subsquantibus, calyce densi pannoso ultrã medlam
partem in lacimas oblongo-lineares acutiusculas parlilo, corolle basi
extùs albo-tomentellse margine glabre calyce tnpld longions e siceo
luteoe tubo brevissimo, filamentis omnibus a basi purpureo-lanatis,
anthers omnibus remformibus, capsulã.

Hab. in *AnatoliA*. Unicum specimen inter specimina *V. pumili* e
rollihus *Koniah* ah am Heldroich relafi mixtum habui

Folia radicalia cum petiolo sesquipedalium 6-7 lineas lata. caulis pedalis, panícula semipedalis ramis lateralibus 3-4 pedibus longa, calycis 9 lineas longus. A. V. *puwilo* cum floribus parvis accedit distinctum indumento densius cano raris detersis, folium multo minus, panícula angustissima brevissima ramosa, floribus breviter pedunculatis, calyce dense pannoso et his nolis melius inter *Pyramidata* prope *V. ekysorrhoeos* collocandum

YUMKUN ASIOPHYLLUM DOISS et Heldr in pi. Anat. ens 1846 (Sect. *Lychnitis Lychnitidea*)

V. foliis rosulis sterilis numerosis regulariter humiliter expansis oblongo-lanceolatis acutis basi attenuatis tomento pannoso albo densissimo obsitis crassis, caule florifero elato crasso anguloso demum glabrescenti supernè ramosissimo ramis longis simplicibus cretulis paniculam amplissimam formantibus, folium canaliculatis spatulatis tomento teno canescenti demum detersis vestitis inferioribus oblongo-lanceolatis basi longè attenuatis superioribus ovalo-oblongis basi subcordatis, floribus paucis pedunculo calyce subbreviter suffultis in glomerulis multifloris inter se appressis a basi rarioribus racemos longos lenes laxiusculos formantes congestis, bracteis minimis triangulo-lanceolatis calyce breviter suffultis, calyce parvo breviter dense canescenti ad medium usque in laciniis inangulares breves acutis partito, corolla calyce quinuplo majore liliaceo extus tomentella lobis subaequalibus, filamentis omnibus flavescens-lanceolatis, antheris omnibus reniformibus, capsula

Hab. in campis arenosis prope urbem *Beychehr* (Heldr). Pl. Aug. Ro. Bul. in raris semipedibus 6-10 pedibus folium citenonibus majoribus pedibus 9-9 lineas latis, internodiis sensim diminutis omnibus lineam dimidiam crassis. Caulis ut videtur 3-4 pedalis, paniculae rami inferiores pedales et ultra. Calyx 9 lineas tantum longus, corolla 10-19 lineas diametro lata. Species folium rosularum et caulium valde dissimilibus, panícula amplissima, floribus parvis dense glomeratis insignis inter *Pyramidata* et *Lychnitidea* dubia

VEIBUCHI RIGBI BOISS. et Heldr (Sect. *Lychnitis Lychnitidea*)

V. totum tomento crassiusculo griseo flavido detersis vestitum, Mus radicalibus oblongis acutiusculis in petiolum breviter attenuate

caulibus duius congestis in hinc subpetiolatis catens e basi curdalu-
subauritulalâ actilw oblongis, summi* parvis ovalis breviter acumina-
lis, caule crasso supernè paniculato-pyramidato, flonbus pedunculis
calyccm acquanlibus suffultis 5-fc in glomerulos racemos teniiissimos
elongalos lanlusculos formanles congeslis, bracleis ad fasciculi basin
trlangiilari-ovalis aciiminatis fasciculum aequantibus, calyce brevi ad
basil usquè in lacimas tngiilares fisso densè flavido-tomentoso,
corolla; valdè irregulans extùs lomenlosac lobis duobus ovato-spathu-
latis esclens duphVmajoribus ovato-rolundis, filamentis omnibus sor-
didè albo-lanads, anlhens omnibus remformibus, capsulâ parvâ ro-
lundft mulicâ lomenlellA demùm dotersili calyce vu longion

Hab in campis monloais andis montis *Anema & Lycaonice* suprâ
Tourcludar all DOOO^Heldr). Fl Aug

Folia radicalia sallem in mro spccimme lanlûin 4-J pollices longa,
caulisi biftedalis dense foliosus Calyces fere oimnho V *ostrophylli*
cm accedit sed a quo prater induinenlum diversnm differl caule 1m-
nuliore dense folioso, bractcia lalionbus, flonbus longiùs pedunculatis
in glomoros paucifloros diaposihs, corollx formA

VEHBASCUII INSULAHP BOISS et Heldr in pi Anat eis. 1846 (Sect
Lychnitis Lvchnitidea)

V lotum indiimenlo mveo floccoso detersih in planlâ fruedferA
omnin&c^amdo obsilum tandem viride, foliis oblongu obtusiusculis
breviter acuminalis in petiolum basi longe altenuatis tenmssini6 cre-
nulalis, cauhsis diminulis basi breviis altenuahs summis sessilibus
basi rolundalis, caule crasso inferne densi folioso supernè paniculato
rauiis etnctis, flonbus pedunculis calyci anjuilongis suffullis in fasci-
culos mullifloros bracteA niiniuiâ demùm evamdA suffultos denslus-
uulû racemosos disposilis, lacinus calycims angustè linearibus, corolla
lulcA subregulan calyce quadruplA longion, filamenlis omnibus sor-
didè flavido-lanalis, anlbens omnibus remformibus. capsulA oblongA
inucronulatA pedunculo stricl'j eA subbrezion suffulla calyce vix dupJò
longion

Hab in insula lacùs *Beychehr Pisidice* (Heldr). Fl. Aog.

Folia majora cum peliolo semipedalia supernè 9 pollices lata. Caulis
sublripedalis racemis seimpedalibus cl \illrA. Capsula Ires lineas
loiiga Ex alfirnlalc V *lychnitiditi* tl V *aatrophylli*, prius differl

iiiduiiiciito touui, folns cronato-deilatis, racenus brevionbua; pi>*le-
nu* Indumenlo densè panuoso, laciuous calycims latis, fascicuh norum
reiuolis Qwedam specinma bujus specici in pi Analol sub nomine
V detersilii per errorem disributa sunl *V delenile* mini commu-
nis babel pneter indumentum el differt florum fasciculis remolissiinis,
oal)ci8 mut(6 raajons lacinua lanceolalis, foliia supremis basi valde
cordatis, etc

VEBB\SCUH OHGYLE Hunts ei Heldr in pi Anat exs. 1840 (Sect
Lychnitis Ljchnitidea)

V. foliis radicabbus lomonto cano vel cinoreo plùs minus dcnso
non detersib pannosis longis lanceolalis aculis infernè long6 angusla-
lis, caulinis inferionbus oblongis acuminatis bast rolundalis suprenus
parvis basi aunculalo-cordalis uvalis, caule crasso elalissimo supernd
ainplissiniè pyramiddu raraosissioio rainis longissiinis lenuibus, m-
floresceniã totA loinenlo lenuissuao cinerascenli delerslli obsità, flo-
ribus pedunculls calyce brevionbus sulFulhs 3-4 in fasciculos reoio-
liusculos a basi ramoruin racemos laws formanles dispositis, bracleis
ininuUssunu selaceis caljce brevionbus, calycis iunuii laaniiB subu-
lalis aculis, corollã parvã lulcã exlùs basin vereùs lomentellã calycu
quinlupld majori, filainentis omnibus lulescenti-barbalis, anlbens
omnibus reniforimbus.

Hab in rupeslnbus apricis fauci monlis *Ctimacis Lyctoe* suprã
Kourmalu ad alt. 1000' (Heldr). Fl Maio ineunle

Planla hominem el ampliòs alia, folia infenora cum peliolo pedalia
el ultrã S pollices lala, pamcula; rann numerosissnni sspè scsqui-
pedalcB tenuissimi Calyx vu Imeam longus. Corolla diametro 10-11
hneas lala. Pulchra Bpecles affilms *V. /loecòso* quod differt pameuls
indumento mullò dension floccoso, flonbus longè pedunculahs, caly-
cibuB flonbusque majonbus, folna radicalibus pro longiludine latlori-
bus. *V Olympicum* affine qnoqoe habct glomerulos florum mulli-
floros, calyces longè pedunculaloB sallem dupl6 majorea, corollam
dupl6 amphorem, etc.

VBBBASCUM DRMIULB Rons et Heldr. In pi. Anat. exs. 1846 (Sect
Lychnitts Lychnitidea)

V folilg radicalibus oblongis obtusiuscuils submlègris vel irregu-
lariteiwel obsoletè slnualo-repandis In petlolum brevem atlenuatls,

caule trasso elato folioso superne laxe et longe pyramidalo-paniculato
 ul el folia caulma et partes florales oinnes induuiento bombycino
 nivco lenni facillimè delersili obsilo jam sub anlliesi ut el rarai gla-
 brato nigrcanli-rubello mtido, fulus caulims infenonbus oblongis
 breviler altenualis supcnonbiis valdu aunculato - cordalis summis
 ovalo-rotundis abruptè el breviler acuminalis, flonbus seautibua in
 fasciculos 2-4 floras secùs rainoa mflorescenliae distantes laxissimè
 racmosos dispositis, braceis lanceolalis calyces subequanlibus, ca-
 lycis lacinus lanceolals palenlibus ul el braces flocco bombycino
 citb dcciduo glandulisque slipilalis dense obsihs, corollà luleà amplà
 glabellà, filamenlis omnibus lanà sordidd albà longè barbabs, anlhens
 omnibus roniformibus, capsulà

Hab in rupestnbus apncis faucis montis *CUmads Lyeia* suprâ
Kourmalu cum preecedentis (Heldr.) Fl Uaio

Folia radicalia specimmls mci 7-8 pollices longa, 3 3 lala, cauhs
 tripedahs sob aulhesi ul el raml glabernmns ater, lota inflorescenUa
 villo valdè detersih obsila, calyces 9 lineas longi Ex afumlate quo-
 que *V floccosi* sed dislinclissimum caule denudato, floribus subses-
 gilibus, calycibus bracteisque majoribus, calycis glandulositale. Hie
 notâ accedit sed *V Prmianum* quod cmterùm differt indumento.
 formâ rollorum. calyce Inpl6 majon et ob anllierarum formam in
 sectione *Thapsn* nulitat

VEHBASCLH PISIPICUH Boiss el Heldr in pi Anat. eis. 1846 (Sect
Lychnitis Lychnitidea)

V foliis radicalibus tomento denso albo-flavescenti vestilis asperulu
 crasais oblongo-lanceolalis acutis mfcrnè longè anguslatis margine
 minutè crcnulatib subtùs elevatim nervosis, indiimenlo partis supe-
 nons planlae Icnuì pulverutento rufe^cipnli demùm secedenli, caule
 pyramidatim paniculato ramosissimo, foliis canlims e basi sessill sub-
 cordatâ obloogis summis ovato-cordatis acuroinatis, flonbus pedun-
 culo calyci aeqatlongo vel longion suffultia tn fascicalos remoliusculos
 a basi ramorum racemos virgatos tenuissimos laxos formantes con-
 gestis, braceis tnangulan-subulals fasciculo brevionbus, calyce mi-
 nimo rnescenti ad basin usqui in lacimas angustè lineareB partito,
 corolla parvs exlùs lomenlellsc lulcse lobis subingequalibua, filamentis
 omnibus sordidd alboianalis, antliens remformibus, capsulà parvâ
 obtmgA oblusâ demùm glabresconli calyoe duplò longion

Hab. ID frulicelis apncis regioma infenoris inontis *Boudroun Pini-*
dim ad meridiem urbiB *Isbarta* alt circ 9000' (Heldr.) jFL. Aug.

Folia inferlora 6-11 pollices longa, caulis S-3 pedalis, calyx flonfer
lineam unam longus fracbfer paululum auctas, capsula 1 lineas longa,
corolla diamelro majtiri 7-8 lineas lata. *V. astrophylo* et *V. ringentt*
affioe ab eis prteler alias nolas differt calyce dimidib minori capra-
lâqne elongalâ. *V. tychnitto* el *V Bannaticnm* Indumento etlam
folioruin mferiorum lenuiasimo capsulâ minus angiulalâ diBlingun-
lur. *V. cheiranthifoUvm* tandem differ! prater induineotum teoue
folus iDtgermiDis, flonbua longtus pedicellalw, calyce majon.

VBHBASCWI SIENOBMYLLUH Boiss et Heldreich, in pi. Anat e». IBM
(Sect *Lychnitis Lychnitidea*)

V. lomento brevuaimo tenui denso alellalo grueo vel flavescenh
miDimè delersih asperulunt paunosum, foliis radcalibus numerosu
angustè lanceolalia vel lanceolalo-llnearlbos acutu in petiolum loogè-
atlennalis subtâs elevatim rehcalato rugosis Integernioia, caule erecto
infernè foliosu supernè aimplici vel parcè panicuiato rainia alriclia,
folns caulims parvls laaceolatis infenonbus baai altennatia auperio-
ribus sepè subaunculato-cordati», flonbus pedunculo calyci equi-
longo vel brerion suffults fascicnlalis fasciculis a basi ramoruin ra-
cemos tenuea laxliucolos formantibus, bracteis linean-lanceolatia
cuspidatia infenonbus flores seqaantibas, calycis cam lacimia linean-
nbua acutis, corollâ lulcâ eitûa tomentoBâ calyce 5-4 plb majori lobla
ineqoalibDB, filamentu omnibus aordidè albo-barbalu, antbens om-
nibQB ranlformibuB, capsulâ oblongâ demùm glabratâ mucronolalâ
calyce duplb longiori.

Hab. in jugo montis Taur<1regio Bupenor monlis *Boudroun Pisi-*
dia alt. 8000'-6000!, monies Buprà *Ermenek Ssauria* all. WOO', mona
Anemas Lycaonim ad nives alt. drc 80001 (Heldreich).

Planta sesqulpedalis, folia radtcaha 6-8 pollicaria 6-11 lineas lata
in plantt montiB *Anemas BBpè* tantùm *h* lineas lata Racemi Bemipe-
dalea, calyx BesqaiUneam lingua* corolla 10- It Hneaa diametro lata,
capsola 11(1 lln. longa Affine *V. cheiranthifolio* ab eo differ! foliis
prolongltudioe angustionbas, caule humiliori minis ramoso, racemla
crebnonbus, calyce ferè duplb majori, tomento craBBiori non evanes-
cent! pannoso.

VBHBASCUH STENOCARFUX Boiss et Heldr. in pi. Anat 1846 (Sect. *Lychnitis Lychnilidea*)

V foliis radicalibus caulibusque infinis dense et breviter pannosum ferrugineis non detersilibus oblongis vel lanceolatis acutis valde sinuatis undulatisque, caule elato internode folioso supernè sicutè paniculato-pyramidato ramo centrali multo longior, foliis caulium ut tota pars superior plantae indumento tenuissimo griseo demum in florem detentis vestitis oblongo-lanceolatis plus minus repandis basi semper allenuatis, floribus minimis pedunculo calycem subaequantibus suffultis in fasciculos 9-4 floras remotissimos a basi ramorum racemos tenuissimos laxos formantes dispositis, bracteis lanceolatis fasciculos aorum non equantibus, calycis laciniis sabulosis acutis, corollam parvam calyce 4 vel 5 plus majori luteam extus glabellam lobis parvis inaequalibus, filamentis omnibus sordide gyno-lanatis, antheris omnibus remiformibus, capsulam pedunculo multo longiora suffulta pube aquamulosa-stellata gynaecia demum detentis vestita oblongo-cylindricam angustissimam obtusam mucronulatam calyce sublongiora

Hab. in rupibus Pamphyli ad Alaya inter urbem et castellum ubi medio aenae jam fructiferum detent. cl. de Heldreich.

Folia radicalia aequantia pedalia 9-5 pollices lala sepe minora profundè sinuata sinibus undulatis lobisque rotundatis obtusissimis, rami paniculae numerosi longi tenues, calycis hinc unam longus, corolla diametro 6-7 lineas lata, capsula 3 vel 4 lineas longa vix hinc lala. Speciea foliis aequantibus fructuque angusto distinctissima ob floras minutoB *Leianthis* forsitan aptius adnumeranda.

VBHBASCUH RABCHETMOM Boiss (Sect. *Lychnitis Lychnitoides*).

V. tomento griseo tenui in foliis radicalibus magis persistenti in parte superior! plantae detentis vestitis, foliis radicalibus mediocribus ovatis vel oblongis obtusis grosse et irregulariter lobatis lobis obtusissimis sinibusque abundanter basi rotundatis vel brevissimè cuneatis petalo eis paulo brevioribus suffultis, caule elato longè pyramidato-paniculato cum ramis longis tenuibus citè denudato nigricantibus foliis caulinis sparsis superlongibus sessilibus ovatis brevissimè acuminatis supremis ad ramorum basin argute denticulatis longè acuminatis, floribus solitariis vel 9-3 nisi pediculis capillaribus calyci

squilonis suffultis secus ramos remotiusculis racemos laxissimos
formantibus, bracteis selaceis glabratis calyces equantibus, calycis
laciniis subulato-selaceis, corolla lutea eitis birtula calyce 3-4 pl6
longior basi longiuscule tubulosa, filamentis lulescenti-lanalis, an-
theris rediversis, capsula

Hab. in *Jritilibano* propè *Raseheya* ubi legi flor. Maio ineunte

Folia infera 4-6 pollices longa 9-5 pollices lata, pauciter rami
6-10 pollicares, calyces ferè 3 lineas longi, quamvis hujus speciei
capsulam non videntur esse elongatam esse suspicor ut in *V. ateno-*
carpo cui affine est et a quo egregie differ! foliis petiolaribus ovato-
oblongis nec oblongo-lanceolatis, floribus magis sparsis, calyce duplo
longior, etc.

VBBASCUS CEDBHI BOIBS. (Seel. *Lychnitis Lychnitidea*).

V. folia radicalibus tomento deorsum crasso lutescenti non detersis
pannosa oblonga acutiusculis basi rotundata vel subcuneatis breviter
petiolaribus creulatis, canaliculis minutis sessilibus basi subcordato-auri-
cularibus integris plus minusve acuminatis, caule ferè a basi pyrami-
dalo-ramosissimo ut rami et inflorescentia tota lodumento griseo
tomentoso detersis obsita, floribus pedunculatis calyci asquioribus
foliis in fasciis 1-3 floras basi bractea linear! -setacea suffultis
dispositis secus ramos racemos simplicis tenues laevissimos forman-
tibus, calycis laciniis subulatis acuis, corolla lutea exteora tomentella
calyce 4-5 pl6 longior, filamentis omnibus sordide flavescenti-lanalis,
antheris omnibus reniformibus, capsula oblongo-ellipsoidea calyce plus
duplo longior obtusa longè mucronata.

Hab. In *Ubano* in sylva *Cedrorn* ubi legi flor. Julio 1846

Folia infera 4-6 pollices longa 1-1 pollices lata, caulibus 1/2-1/2
pedalis, calyces sesquilineam longi, capsula cum mucrone 5 lineas
longa diametro 1/4 lata. Affinis *V. Raacheyano* a quo differt to-
mento crasso pannoso lutescenti, foliis crenulatis nec undulato-loba-
tis, etc.

VBUBCOH DAMASINI BOIBS. (Sect. *Lychnitis Lychnitidea*).

V folium radicalibus resulatis integris ovalibus obtusis In petiolum en-
asquilogum vel brevioribus breiter attenuate lomento densissimo
aspero sordide albido-lutescenti pannosis sublimis elevato-nervosis,

caulmūt ovalis scssilibus unnonbus basi subatlenuallfl brevissimē acuminalis ut lota pars superior plants lomento sordido deniūm delcrsih ubsilis, canle angulalo jam paulb suprā basin ramoso ramis erecds elongalis subflexuosis, flonbus pedunculo calyci nquilongo suffullis in TasciculoB 3-4 floras raccmoB laws formantes disposiŋg, bracteis linean-setaceis fasciculo brevionhus, calycis mmuti lacinnis anguslè lmeanbus, corollā inediocn, filamentis omnibus violaceo-lanalis, anlhens omnibus reniformibus, capsulā dcmūm glabrā pedunculo crasso cā brevion BuSultA oblongā sulcalā supernē angustalā obtusā Iougiuscul6 mucronalā calycc dupld longion.

Hab in collibus andis ad *SaleMeh* propē *Damascum* ubi legi maio 1846

Folia infenora 5-4 pollices longa 3-9 *ifi* lala petiolo 1-3 pollican suffulla. Gaul» cum pamculā slriclā 1 lji-9 pedalis, calyx flonfer densg lanatus vu 9 hneas longus, capsula 5 lneas longa 1 1/9 lata. AfGne *F.Cedreli* ab eo differ! foliis inlegns inferionbus densiūs panotis, supremis non subcordatis, filamentis violaceo lanatis, etc.

VBRBASCUM PDHU.UK BOISS et Heldr in pi Anat. «w 1846 (Sect *LychnitU VychnUidea*)

V pumilum, foliis ferē omnibus in rosulam radicalem congeshs plus minUB densē lomento non deterrentibus pannosis camis vel canescentibus oblongis obtosiusculis tenuissimē crenulatis in petiolum eis subaequilongam altenuatis, caule a basi palulē ramosissimo bitē et breviter paniculato ramis gracillimis breriler tomenleUu glabresoentibuBverubelliB, foliis caulims infenonbus Bessilibus ovalo-oblongis aupenonbus ovato-subcordatis acutis omnibus parvu sepē glabrea-cenlibusi flonbus mmutisin fasciculos 9-3 floras secūs ramos laxiusculē dispositis pedunculatis pednncnlis flori capsneque oquttongia frncbferiB incrassalis, bracleis hneanbus pedunculo seqmlongw, calyce tomenlo griseo deterrentibus lanato ad basin usquē In lacinias lineares obtusiusculaB partito, corolla) calyce quintuplb longioris exlūs (omenlelle lutes bagi violaceo-maculats lobis inaequalibus, tubo brevissimo» Glamenbs omnibus purpureo-lanatis longioribus basi nudis, antberlB omnibus reniformibus, capsalā tomento delemli obduclā obtusā mucronulatā calycem paul6 excedenti

Hab in monllibus andis inter *Beyehehr* et *Koniah* leucw quinque ad occidentem hujua urbis Fl Junii loitio (Heldr.)

Folia radicalia 1-5 poll longa *lfl-* lata petiolo eis aequilongo suffulta* panicula pedem dimidium longa lalaque, peduncuh 2-5 Uneas, calyces vix 9 hneas longi Capsula Ires lineas longa, corolla diametro sex lineas ferè lata. Species distmclissima quoad affinitateni dubia forsàn meliùs in seel. *Leiantha* collocanda

VEBBABCUM HYUOCARPUM Bolss. et Heldr in pi Anal exs 1840
(Sect *LychniU Leiantha*)

V. foliis lomenlo senceo adpresBiBsimo tenuissimo argyreo canis radicalibus amplis filipUco-lanceolalis aculis basi brevissimè etineatis breviter peliolalis margine crenis rotundatis instructis pratere&que grossè subundolalis, caulims multò minonbus oblongis inlegns breviler petiolatis sessilibasque, caule ferè a basi ramoso In paniculam ramosissimam abeanh ramis lenuibus lerelibuB ut et plants tola pars superior glabrescentibus, floribus pedunculo selaceo calyci lequilongo vel longiorl suffullis in fasciculos plunfloros seeds ramulos racemoa laxiosculos lenuissimoa formanles dispoaltfB minutiSBimis, Jiracteis BDbalatis pedunculos lequantibus, calycis lomenlo delersill obsih lacimis selacels, corollâ minimA luleA, filamenhs omnibus BordJdè albo barbatis, antherla omnibus reniformibus, capsulâ glabraA viscidnft pedunculo auboequilongâ oblongo-cylindrlcâ oblusâ mucronulalâ calyce 3-4 pl6 longion

Hab. in rapesInbus *Pamphylw* in regione pinorum *Tauri* inter *Maria* et *Adalia* alt. 4000' (Heldr) Fine Julii fructiferum.

Folia radicalia ferè pedalia *h* pollices lata, flores eis omnium Bpecieram mihi nolarura minutisBimi Calyx florifer capite aciculre vix major. Capsule Besqallineam longa lneam dimidiam aut paul6 amplieu diametro lala. Species minulie parium floralmm et mulUtodine florum tnter *Leiantha* insignia

VBBBABCUM CEHNUM BOISB. et Holdr. in pi Anat. exs. 1846 (Sect *Leiantha.*)

V. foliis omniboa ad collum et paricm infimam caulis congcslis indumenlo densisstno aspero vordidè albo-paonosis inlegria oblongo-lanceolaliB acutiusculis in petiolum basi atenuatia. cauilima cil& decrescentibus mlnutw oblonglg Bessilibus paucla, caule ut et tola Inflo-reacrntla denudato lutesconll cerlno-nilldo fcri a IIBBI crebrè ramoso

in longam paniculam abeunli, rdinis basi subincrasatiB folio florali lanceolalo acuiainato Buffullis, flonbus subsessilibus in fascicula 3-8 floras aecus ramos remolos bracteã ovalã aculã eis brevion soffuKos disposilis, calycis vindis glabn lacimis ovalis acalis, corollã mediocn luteã, filampntis flavo-barbalis, anlbens omnibus reniformibus, capsulã

Hab. in eollibus aridis ab urbe *Koniah* occidentem versus anani Iucam rcmolis Fl Junto (Heldr)

Folia radicalia densa semipedaha vel longiora 1 ijSMJ pollices lata. Cauhs i 1}9-S pedahs crassiusculus a basi crebrẽ ramosus ranna ad insertionem snbdilatatis subino^qualis, calyx florifer ferẽ 2 lineas longus. Hccc species quam tanluin flonferam novl ab omnibus *Leianthis* mihi nobis flonbus subsessilibus fasciculatis differ! Caules et rami in planlã vivã ex am. de lheldreich mirẽ nitidi veloll cerã illlnti

VEBBASCUH ISAUBICUH BOISB et Heldr. in pi. Anat. eis 18W (Sect *Leiantha*)

V. **folus** radica hbos indamento densisslmo albedo non deteraili panosis ovalis oblongiBve obtnslusculls basi brevltter in pellolom efs breviorẽ allenaatis minudssimẽ crenalatis, caule elalo lerell **foliis**-que cauhnls (omento gnseo fugaciori obsilis, paniculA ramosisslmã glabrescenti viscidulã, folus cauhnis minonbus ovato-oblongis acutls integemmis basi lation auricalato-ampleucaalibus, floribua sohtariis rariüs bims pedunculis calyce subbrevionbas suffoltis laiisslmẽ racemoBia bracteis mlnimig ovato-acuminahs, calydB valdẽ glandnloso-Tiscidi lacniis oblongis acutls, corollã ItileA calyce 4-H pld longion laciniia Insqualibus, filamentis pallidẽ violaceo-barbatis 9 majoribus apice nudls, antherls omnibus reiiiiformibusjcapsulã-glabrescentl calyce dupl6 longion breviter ovalã acntiusculã longiuBculẽ macronalA pedunculo anblncraasato ereclo-palulo oequilongo suffullã.

Hab in saxosis apncis prope urbem *Ermenek Itaurta* (Heldr.) Fl Julio

Folia radicalia saltern in specimimbus qua? vidi 3-4 pollices tantum **longa. Caules ferẽ bipedales, rami numerosi ereclo-patuli. Calyx florifer sesquihneam longus, corolla diametro ferẽ pollicem longa. Capsula piso pauld minor Affine videtur V Pinardi a quo differ! calycis lacinns oblongis nee subulaln, filamentis vtolaceo-nec albo barbaiv nullisque aliia nobis**

VEUMSCUH KUBHIGAOLB BOISB. et Heldr in pi. Anal, e u 1846 (Seel *Leiantha*)

V folns tomento denso albo non detersili pannosis integns radicalibus et caulims infenoribus oblongis obclasis in petiolam attenuate margine vix crenulatis, caulims superioribus senaim diminutis oblongis obclasmisculia basi rotundatis, caule tereti denudato lucido infernè densiusculè folioso rubro superpè ramoso-pamculato ramis virgalis tenuibus sinctis longissimis, inflorescenhâ lotâ glabrescens, flonbus solitariis pedunculo calyce multo breviori suffillis secus ramos laxissimè racemosis bracleâ minimâ ovalâ aculâ pedunculo breviorè suffillis, calycis visciduli lacinus orbatus aculâ demùm oblongis, corollâ calyce multo longiorè intensè flavâ subregulari, filamentis omnibus flavido-lanalis majon apice denudato, antheris omnibus reniformibus, capsulâ pedunculo incrassato recto est paulo breviori sultâ ovalâ obtusâ mucronatâ glabra calyce sesquialongior.

Hab. In fruticeis apneis Tauri < *Isaurici* in valle *Djoksu* propè *Pichackschi kouprou* inter *Karaman* et *Ermenek*. Fl. Jun. (Heldr).

Caulibus quadripedalis ramisque virgati longissimi; folia parva, caulina infima) -> 1/2 poll, tantura longa Calyx flonfer circ. 5 lin longus Corolla diametro pollicaris et ultra Capsula parva minutum tequans. Praecedenti affine differit folis minoribus, caule ramisque brevioribus magis teretibus, flonbus majonibus brevioribus pedunculatis, filamentis lutescentibus barbatis, capsulâ majori obtusâ A *V Pinaridi* quoque calycis lacinus non subulatis aliisque nolis differt.

VBHBAMDI DENUDATUS BOISS et Heldr. in pi Anat. eis. 1840. Sect *Leiantha*.

V foliis ferè omnibus in rosulam basilem congestis tomento denso adpressissimo asperulo pannoso griseo-viridibus subnatis petiolatis ambita oblongo-lanceolatis runcinato-lyralibus, segmentis integns auriculiformibus oblongis apice rotundatis a superioribus sinu rotundato confluentibus ad inferiores distinctos demùm minimos triangulares sensim dimittentibus terminali basi cum lateralibus latè confluenti ovalo acuto irregulariter 5-4 repando vel lobato, caule rubro infernè simpliciter aphylo supernè ramosissimo longè paniculato paniculaeque denudata glabris, floribus solitariis pedunculo capillari calyci aequilongo summis secus ramos laxè et tenuissimè racemosis, bracleâ

oblongo-angulata acuta pedunculo dimidio brevior, calycis glandulosi laciniis oblongo-ellipticis obtusis, corollam flavam vili irregulari calyce 7-8 plo longior, filamentis omnibus hirsutis barbati's majoribus aequalibus, antheris omnibus reniformibus, capsula globose obtusa mucronata glabra calyce sesquialongior

Bab In rupestribus faucibus *Taimboukkan Pamphylia* et in collibus lophaceis prope *Bouldour Ptgidta* (Heldr. 1846) Fl. Maio.

Folia cum petiolo 2-3 pollices longa supernè 1-1/2 pollices lata lobis plus minus humerosis profundisque terminalibus Bumper multo majori Caulis 5-4 pedalis. Calyx florifer sesquialongior longior. Corolla diametro 11-18 lineas lala Capula piso dimidiat minor bisulca. Species a *V. napifolio* fohorum segmento supremo non rotundato obtuso, a *V. pantfloro* segmentis foliorum non retrorsis nee dentatis, ab utroque laciniis calycinis non spiculato-hirsutibus distinctissima

VEBBASGUM HESOPOTAMICUM Boiss. (Sect *tychnitis Syfruticosa*)

V. pills mimis stellatis sparsis sub lente cinerascens pallide virem, caule recto lere leni basi folioso supernè parce paniculato-remoso, foliis parvis oblongis inlegerrimis acutiusculis infarionibus in petiolum brevem attenuatis superioribus basi angustis cordatis, pedunculis calyce duplo longioribus solilatis incurvis erecto-patulis alus (ramorum lateralium) unifloris ad medium sessibus umbracteolatis, aliis (rami centralis) ad medium bibracteolatis trifloris, bractea ad basin pedunculis sila oblongo-lineari acuta eo brevior, calyce dense cinerascens patenti ad medium usque in lacinias triangulato-angulata acutiusculis fissis, corollam lateam eitis dense tomentellam calyce subtriplo longior, filamentis omnibus pallide violaceo-lanatis, antheris omnibus reniformibus, capsula..

Hab. in Veapotomid inter Or/a et *Suerik* Kotschy pi. Assyriacs N°67.

Planta e specimine meo pedalis • folia inferiora pollicem longa 2-6 lineas lata; pedunculi ferè 1/2 lineas longi, caulis centralis nonnulli potius pro ramo abbreviate paucifloro quam pro pedunculo proprio habendi, calyx 1 lineam longus et supernè ferè 1/2 lineas latus Species iusignis calyce brevi lalo planiusculo tantum usque ad mediam partem lobato Huic sectioni potius quam *Blattarioide* ob habitum, folia minuta, indumentum parcum minimè glandulosum adnumerandum.

VRUAMUH PESTALOZZA BOIBS. (Seel. *LychnitU Suffruticosa*)

V nanum candiculis procambenlibus basi induratis nudib apice dense foliosis, foliis ad basin caulium congestis tomento densissimo pannoso flavido vestitis crassis oblongis vel oblongo-lanceolatis obtusatis in petiolum brevem attenuatis supra venulosè subla rugosè etelevatione reticulato-nervosis, caule scapiformi simplici inferaè folio caulino uno alterulo ve sessili oblongo-linearl muclo paulo suprt basin flonfero, floribus solitariis alterius pedunculo tenui btulo calycis obovato Buffalib racemam bipediformem simplicem densiusculam lanata stellatè detersili flavida obsitum formantibus, bracteis linearibus elongatis pedunculo sublongioribus, calyce usque ad basin in laciniis angustè lineares acutis villos connexas parvito, corollà lutea extima valde tomentosè, filamentis omnibus flavido-lanatis, antheris remiformibus, capsula globo-bâ tandem glabra calyce breviori

Hab in montibus elatis *Iteto* ubi detexit et mihi commoicavit am. De Pestalozza

Planta <L pollicaris, folia (nervosa ferè sesquipedalia 6-8 lineam lata Raemua *Z-h* pollicaris tenuis, pedunculi stricti 4 lineas long), calyx fere lineam ferè longus. Corolla nuda e speciminibus male exsiccata dijudicare quæo calyce tantum duplo longior lubo brevi Species Insignia statura minuta, foliis valde rugosis ferè Phlomis, racemo tenui, floribus longe pedunculatis, nulli sectionis approximanda forean optitis propa *V simplex* vel *V. Salicifolium* collocanda

VEBASCUM 9TAOIDIFOLM Boiss et Heldr. In pi. Anatol. exs. 1886 (Sect. *Lychnitis Blattarioidea*).

V. foliis tomento adpressissimo plus minusve cæcis radicalibus conferlis lanceolatis acutis In petiolum brevem attenuatis leniiter rugulosis margine crenulatis, caulibus paucifloris sepalibus angustè linearibus integerrimis, caulibus erectis simplicibus vel medium versus parte ramosis paniculatis ul lota Inflorescentia lenissimè et parce tomentellis, floribus solitariis vel bimis pedunculo erecto-patulo calyce dupli longiori suffultis basi bractea hanc peduncalis dimidiat breviori sessilibus racemos elongato formantibus, calycis carneacenti-tomentellis laciniis linearibus acutis, corollà calycem triplo excedenti latea exilis tomentella, filamentis aaranliacissordide

albo-lanalis, anlhena omnibus reniformibus, capsulâ oblongâ aculiusculâ demum glabrescenti pedunculo incrassato erecto-patulo subincurvo est paulo longior suffultâ calyce subduplo longior

Hab. in saxosis apricis plamlei *Koniah* inter *Karkin* et *Souliman halsi* ad radices montis *Karadagh* (Heldr.). Fl. JODIO.

Pedale aut paulo procerus, folia radicalia tripollicana 4-6 lineas lata. Pedunculi fructiferi 8-6 lineas circiter longi. Calyx fere 8 lineas longus. Capsula 5 lineas longa. Pulchra species affinis *V. biscutelkdfolio* Bth quod differt indumento griseo lanato-asperulo, in oescentia glabrescenti, pedunculis gracilibus calyce fere 8 plo longioribus, filamentis purpureo-lanatis, capsula ovata longe mucronata etc. Habitu Cefeta sed stamina semper quinque.

VERBASCUM SCAPOSUM DOISS (Sect. *Lychnitis Blattarioidea*).

V. radice luberoso-incrassata breviter cylindrica foliis radicalibus paucis rosulatis parvis glaberrimis ovatis obtusissimis rotundato-crenatis basi in petiolum planum brevissimum abeantibus, caule scapiformi tereti simplicissimo foliis paucis minus linearibus basi non dilatatis minute anculato-subbasalibus obliquo, pedunculis calyce subquadruple longioribus erecto-paluis basi bracteâ oblongo-lanceolata brevissime suffultis racemum elongatum terminalem formantibus, calycis ad basin usque parvissimi lacini oblongis acutis margine glandulosis ceterum glabris, corollâ, capsula ovato-rotunda glabra brevi mucronata calycis lacini paluis vel deflexis duplo longioribus.

Hab. inter pineta in regione inferiori jugi *Cawii Syria* borealis in planitie ad meridiem pagi *Casaab* silâ Legi fructiferum Jumo.

Folia radicalia pollicem longa 7-8 lineas lata, caulina 8-6 lineas longa lineam lata. Caules cum racemo fere pedales, pedunculi 7-8 lineas longi. Capsula pisco minor. Corolla rari ignota et ideò *Ferbasco* potius quam *Celsic* adnumeravi tantum ob affinitatem cum *V. phtmieo* cui plurimis notis congruit et quod differat foliis majoribus basi cordatis sublimis ad nervos pubescentibus, pedunculis calycibusque dense glandulosis.

VERBASCUM TIBEBIADIS BOISS (Sect. *Lychnitis Blattarioidea*).

V. totum parte inferiori pilis longis adpressis papillosis obovatis albis obsitum, inflorescentia tota dense glanduloso-lomentata

raft, foliis radicalibus et caulibus inferius amplius oblonga vel late lanceolata ad medium usque profunde inciso-lobata basi saepe subpinnatifida in petiolum brevem latius attenuata, segmentis magnis triangulo-lanceolatis acutissimis acute dentatis, foliis caulibus intermediis et superioribus sessilibus e basi cordata longe acuminatis denudatis, caule crasso saepe paniculato-ramosissimo, floribus solitariis pedunculo per anthesin calyce subbrevi suffultis racemosa longissimosiformibus, bracteis triangulatis acutis brevissimis, calycis densissime glanduloso-breviter lacinis ovatis acutiusculis, corolla flavida calyce 3-4 pl. majori, filamenta omnibus purpureo-lanata, antheria omnibus reniformibus, capsula pedunculo elongato incrassato erecto-patulo eadem longior suffulta glabra ovato-rotunda longe mucronata lacinis calycis parum superantibus.

Hab. circa lacum *Tiberiada* et infra *Bantas Galitea* Legifloriferum Halo 1846

Folia inferiora cum petiolo saepe pedibus 5-6 pollicibus lata ea *Satota sclarea* referentia sed plerumque angustiora profundius Indae aegmentis saepe 9 pollices longa angustiora. Caulis bipedalis et longior ramis vernalibus longis numerosissimis Calyx florifer ferè 5 lineas longus. Capsula ferè magnitudine Pisi. Species prope *V. lyratifolium* collocanda a quo foliis amplius profunde et aequaliter lobatis, pedunculis brevibus, etc differt

VEBBABCUK LEUCONEMIR Boiss et Heldr. in pi Anat eis 1846 (Sect *Lychnitis Blattarioidea*).

V. folds tomento araneoso leni canescenti sublimis secunda nervos et secus petiolos copiosioribus bombycino niveo obsitis integris oblongis infimis obtusis basi longe alternatis superioribus sensim diminutis sessilibus truncatis vel subcordatis, caule crasso inferius simpliciter densiusculis folioso saepe ut inflorescentia tota glaberrima rubello longissimè paniculato ramis elongatis, floribus solitariis pedunculo erecto-patulo incurvo calyce 3-4 pl. longior suffultis racemos multifloros laxos formantibus, bracteis ovato-triangulatis acutis pedunculo multoties brevioribus, calycis glandulosi lacinis ovato-oblongis acutis, corolla?..., capsula glabra ovata obtusa mucronata calyce paulo longiori pedunculo eadem 3-4 pl. longior suffulta?

Hab. In pinetis vallis Superioris *Ermenek Tauri Isaurici* ubi Julibineunle jam fructiferum legit cl de Heldreich

Folia infima in in eo specimine cum petiolo 0-8 pollices longa superne 3 pollices lata, cetera sensim diminuta. Caulia 4-8 pedales, paniculae rami 9-12 pedales, calyci circiter 1 linea longa. Capsula parva minor pedunculo erecto-incurvo 6-9 linea longa suffulta. Species ob corollam ignotam inter *Verbascum* et *Celsiam* dubia sed generi priori probabilissime ex foliorum forma et habitu adnumeranda.

VERBASCUM BENTLEYI (Seel *Lichnitis Blattarioidea*)

V. totum virescens brevissimum birtellum visciduum radice breviter incrassata cylindrica, foliis radicalibus petiolaribus pinnae parviter latis, segmentis inferioribus usque 9-3 minimis ovalis aliquando evanidia terminali magno ovalo vel oblongo obtuso irregulariter sinuato vel lobato lobis rotundatis obtuse denticatis, foliis caulium inferioribus paucis oblongis breviter petiolaribus acutiuscule denticulatis, superioribus parvis e basi lateralibus rotundis oblongis aculis minute denticulatis, caule laxo ramoso paniculato, floribus solitaris pedunculo tenuiter filiformi erecto-patulo subincurvo calyce quadruplo longior suffultus racemos longos laxos formantibus, bracteis minimis oblongis acuminatis basi asperis 1-2 denticatis pedunculo multoties brevioribus, calycis basi presertim glandulosis parvis lacinis oblongo-diphisis aculis denticulatis, corollae calyce quadruplet longiori glabra, filamenta violaceo-lanatis appendicibus apice nudis, antheris omnibus reniformibus, capsula pedunculo incrassato elongato patulo eadem multoties longior suffulta ovata mucronata calycis lacinis vix sequilongior.

Habitat ad margines viarum cavarum et sepes Cacti circa *Beyrout*.
Pars orientalis et ostate.

Folia radicalia 6 pollices longa 1-1 1/2 lata lobis lateralibus minimis, caules 4-5 pedales racemosa florum longissimis, pedunculi fructuum pollicares et ultra, corolla tenera diametro 9-10 lineas lata, capsula parva minor. Species pulchra habitu *Celsiam* omnino refereos sed Karamimbus donata. Affine *V. tyratifolio* Kfibel quod egregie differt petiolis bispidis, foliorum majoribus lobis acuminatis, etc.

CYBLIA PVHOLIFOLIA Boiss. et Heldr. In *pi Anat. exs.* 18W (Sect. *Neffia*).

C. perennis glaberrima, radice verticali pluricaulis, caulibus scapiformibus ascendentibus simplicibus panem foliosis superne racemose.

mosiB, folns radicalibus angustè oblongo-lanceolatos obtusis vel acutiusculis in petiolis longè attenuatis crassiusculis carnosulis subuninerviis gibbicanaliculato-plicatu, caulis aenim decumbentibus fit ad squamulas breves lineares reductis, florum pedunculo filiformi calyce 4-3 pl6 longior erecto suffulso racemum terminalem laxo formantibus, bracteis multinis ovatis acuminatis squamiformibus, calycibus parvis glaberrimis laciniis oblongis acutiusculis, corollâ parvâ luteâ glabrâ, filamentis omnibus sordidè albolanatis, antheris omnibus reniformibus, capsula pedunculo erecto striculusculo suffulta* ovata acutiusculâ muticâ lanis calycinis longioribus.

Hab. in Baku byeme mundatis plandei Kontofrad radices montis *Karadagh* (Heldr.). Fl. Jumo

Folia radicalia cum petiolo 9-3 pollices longa 3-6 lineas lata. Ganles cum racemoo 1;3-1 pedales, racemus 3-6 pollicans, pedunculi 6-8 lineas longi, calyx lineari unara lingua Species foliis longia angustius carnosulis, glaberrime, distinctissima.

GBLSIA Aochm BOIBS (Sect Nefflea)

G. folis parvis adpresae tomentosis canescentibus parvis inflexis lyratis lobis inferius mimis oblongis superiori magno oblongo obtusiusculo dentato, folis intermediis parvis pefolialu oblongis acutiusculè dentatis, caulis a basi cordata subamplexicaulis ovatis oblongisve acutiusculis obsolete denbuculatis, caule a parte inferius paniculatum ramosissimo inflorescentiaque tota vix glandulis mimis longè stipitalis sparsis obsita, florum solitans pedunculis capillaribus calyce 5-4 pl6 longioribus parvis rigidulis suffultis racemos longos laxos formantibus, bracteis a basi oblongis setaceis multinis, calycis glandulosis quiquepartitis laciniis oblongis breviter acuminatis, corollâ luteâ eiluis puberulâ, filamentis sordidè albo-lanatis superioribus aplice nudis, antheris reniformibus, capsula ovata acuta obovata pedunculo erecto-patulo elongato subiacrisato eâ 5-4 pl6 longiori suffulti calyce subsessilioribus.

Celsia integrata var. p Bib. in *De Prodr.*

Hab. in aridis ad *Teheran Persiae* Aucher N° B043, in declivibus montibus Efbun propè *Derbent* (Kotschy pi. Pen. bor. N° B8i);

Folia inferiora sesquipedem longa 7-7 pollices lata lobis lateralibus 1-1/2-j-i lineas longis tenninatis mullis major). Caulis cum racemis ses-

quipedalis Calyx Qonfer 1 1/4 lineas laulùm longus. Pedunculi fructifen pollicares, capsula magnitudine PISI Planla a cl Bcnlham qm spccimina incomplete Aucben lanlùm viderat ad *C intricatam* relata que omnin6 differl ramis mull6 lenuionbus repelitè ramosissim apice subspmescentibus, capsuhs triple mionibus, foliorum formã

CELSIA PINETOBUIH Boisa (Seel *Nefflea*)

C caule tereh infernò pilis papillosis patulis bispido supernè longè paniculato-ramoso ut panicula tota glanduloso-hupidulo, folns radicalibus ad nervos et petiolos papillan-hispidis pinnahparlito-Iyralia peLiolatis segmenlis Jateralibus bims rariüs 4-6 parvis oblongis lermih mulld majon oblongo plüs minüs inciso-lobato omnibus acutè dentalis, folifa caulims aculia denlalia denlibua Inangularibus acuminalis inferionbus oblongis pellolalis auperlorlbua aessilibos Iruncato-subcordalis (riangnlan-ovalis acuoimads parcè et acul6 dentatis, floribus solilanis pedunculo capillan calyce pluries longion erecto-patulo Buffultis racemos longos laxos formanibus, bracteis a basi ovalã in cuspidem subulam longam allenualis integerrimis pedunculo tnp16 brevionbus, calycis quinqueparliti glanduloso-punctatf lacinh elliptico-lanceolata acutis, corolla glabra tenera In leã calyce seitupli majori, filamentu omnibus Tiolaceo-barbatle longionbog apice nudis, antbens omnibus remformibus, capsulã globosã glabrã mucronatã calyce sesquilongion pedunculo palulo vn increasato tennulaaime filiformi eã multoties longiori suffitallã

Hab in dedivibus ad pinetorum margines in vallibus jogi *Cassii* inter *Ca&sab* et *Suadieh*. Legi Jun. 1846

Folia radicalia euro petiolo 3-91}1 poll, longa pollicem aut ampliüs lata Gaules cum paniculã bipedales; racemi 6-10 pollices, pedunculi flonfen 7-8 lineas fructifen 10-11 lineas longi Capsula piao minor. Planla elegantissima folns et inflorescentia *C. DanzeH* el *C. arctvrum* referens sed lenuio et discrepant formã bractearum, antheris non decurrentibus, etc

CELSIA CILICIA BOISS. n deldr in pi Anat. eis. 1846. fSect. *Neflha*).

C. folua paras ferè omnibus radicalibus breviter petiolatis Indivisis breviler ovatia basi rotundatis vel breviter cunealis obtoeis argutè serntodentatis denlibus triangularibus, caulibus prater folia paaca

sessilia minuta orbiculata denticulate nudis sub lente minute hirtulo-
glandaloBis ramoBissimis, flonbus Bohtarns peduncuhs fiiiFormibua
subpatulis calyce 5-6 pl6 loDgionbus saffullis racemos laxissimos
formanlibus, braceis minimis squamsformibus ovatis acutiusculis,
calycis den&è glandnlosi lacions ovatis aculmsculiB, corollâ luteâ gla-
br&,filamentis omnibus violaceo-lanalis apice nodis, anthers rcm-
formlbas, capsulâ ovalo-glohosA' calyce subsesqñflongiori

Hab. in saiosls *Tauri Cilici* ad radices raontis *Bulghurdagh* propè
TchiftSkhan ubi fine Septembns spcciinina jam velusla legit cl. de
Heldreich.

Hffic species folioruin magmtudine habiluque praecedenti affinis
esse videtar, disincta lamen folus non pinnaliparlitis, braceis ad
squamolas reductis, etc.

SCHOPBDLAUA CBVPTOPULLA BOIBS. et Heldr. (Sect. *VmlHa* Don.)

S perenns caulibus ut et petioli patulè hupidulis obsolete qua-
drangulis erectis smplicibus foliosis, folns petiolo eis eeqailongo suf-
fultis oTato-rotandis slnu anguito daoso cordalis circumcircA dupli-
catim crenato-lobatis crams lobisque obluaissimis mucronulalis ulra-
que paginâ ad nerros pared papillosis margine cihalulis celerum
glabrls teaerrioais, cymis in parte supenon caulis paniculae brerem
pyramldatam formanlibus infimis longius superioribus brevius pedun-
calalasi iblus florahbus peduncalo brevionbos subsessilibus ovato-
triangnlaribus acutis acutè dentatis supremis minimis, pedicellis le-
nuissimisdiTergentibus calyce longloribus pared glanduloso-puberulis,
bracteolis minutissimls oblongo-snbulatis, calycfs viridis glabernmi
lacinlls ovalis obtusiuscuhs Immarginalis, corollâ flavescenll, atami-
mbus exsertis, rudimento staminis quinti nnllo, capsulâ breviler
ovalâ glabemmâ calyce dupld longion.

Scrophularia Kotschyana pi. Heldr Anat. exs. 4846 non Bth.
Prodr.

Hab. in speluncis obscuris moatls *Ghtidagh* ^{InawUB} alt. B800¹,
in minis veteris ecclesis ad cacumen montis *Karadagh Iffcaonim*
site alt. drc. S000¹ (Heldreich), in monte *Berck&tdagh Zycto* (Peata-
loaa).

Seaqaipedalis, folia inferora diametro tripollicana, panicula pyra-
midaU *-» polllces longa; hanc primum habulmua pro *S. Kotschyana*

mb e Taiiro Cihcio onunda el que nielia obaervala egregie differ!
caule ut videtur bicnm, indumenta copiosion longionque, fofiorum
infeorum sinu baseos mullo laliori, cymulis florum slnctis inter se
subasquilongia pamculam laxam folialam elongalam secu* caulem ferè
a basi formanlibus, bracleolis Inpl6 majonbus, capsulis lacinnsqae
calycis viscido-puberuhs

SCROPIULARIA pLYBOIRns Boiss in Kotscliy, pi Pers. bor. 1846.
(Sect *Venilia*)

\$ perenms, cauibus erectia simplicibus elalis terelibus glabnuscus
hs infernè foliosis supernè in thyrsum clongatnm anguatuin stnclum
apbylluin abeuntibus, foliis oblongo-lanceolalis acummalis basi rotun-
dalis vel breviler allenuatis petiolo brevi suffultia argutè et breviler
deuticulalis, summis integns, omnibus pallide virentibus nigricanti-
nervosis ad ncvros infernè sub lente parcissimè glandulosis cjeterum
glabris, infloreaceniâ tolâ glandulis mimmis vindibua sessuibus
conspereâ, cytnis paaciflorts pedunculo brevi Blncto auffullis laxiua-
culis, pedicelhb calyci gquilongis, bracteolm dicbotomiaruai setaceis
breviasimis, calycis glabernmi lacinns ovalo - oblongis obtusis ferè
immargmaLis, corollâ intensè purpureâ, stamimbus longè exaertis,
appendice nullâ.

Hab ad radices monlis *Damawend* prope *LOT*. (Kotschy pi Pen.
bor N°81B).

Planta 3-91;9 pedalis, thyrsus 8-10 polhcaris, folia inferiora 9 ifir
3 pollices longa. Ei aflimtate S OrfenlaNa qu» diflerfcaulibus an-
guloais, folns angustlortbug mfenoribus pinnaUGdis, flonbus lulea-
cenlibus, calycis lacinils latiusculè membranaceis. *S. neivosa* diflert
cauibus angulatis Infernè villosulis, folns minùs dentabs, paniculâ
densiùs glandulosâ, bracteis longionbus; huc at synonymon refe-
renda *Sc. Olivieri* Jaub etSpach. lab. MJ non Wydler

SCROPIULARIA MACROMYLLA Boiss in Pinard pi exs 1846. (Sect
ScoTonesia Don.)

S. perenms glabra, caule obtusè quadrangulo crasso valdè elato
ramoso stneto, foliis amplis oblongis infenonbns petiolo eia brevion
suffultia sinu anguslo cordatis obtusè et latè crenatis obtusiB, aupeno-
ribus bast truncatia aeuli9 acutè subduplicato-serrallB, cymlsimTiter

pedunculate dichotomy raiiosissirais cooferlim mulliflons inter se
diBtantibus lhyrsum aphyllum longum laium formanhbub, pedicellis
calyce paul6 longionbus glabris vel parcisslmè glandulosis, bracleolis
oblongo-linearibiu brevissimis, calycis glaberrimi lacinus ovalis ob-
tusls angustè albomarginatis, corolla? flavlds labio superior! paul6
provecllori, slamimbus inclusis, appendice renifonni, capsulâ ovalâ
aculiusculâ calyce tripld longion

Hab ad aquas in valle cahdion *Jordani* ad fontem *Ain Sultan*
propè *Jericho* et ad lacum *Samochonitidem* (Boiss. Pinard) Fl
Maio

Planla planpedalis, folia inferiora 8-9 pollices longa 8 lala, caulina
sensim minora. Thyrsas sspè pedalis, flores minores eis *Sc. nodosa*
cui affiris est el qua? differ! folus mmonbus acutè aerrahs acuminalis,
thyrso lalion brevion paucifloro, capsulâ acution, etc

Scorodonia PISIDICA Bolss. et Heldr. (Sect. *Scorodonia*)

Sc perennia glabra caule argutè quadrangulan infrâ foliorum maer-
lionem argutè tet cnspuè alalo, folhs ovalo-oblongis petiolo alato eis
brevion suffultis Inflmis baai subcordatia oblusis obtusè crenatis, su-
perioribus acuhs acutè serratis, pamcalâ terminal) pyramidatt lon-
glsimâ aphylla, cymis breviler pedunculatis dlvancale-ramosfs,
pedicellis copios6 glandnlifens tenuibus calyci oequllongiB fructifens
recurvls, bracteolis sclaceis miiimimis, calycis glabn lacioils ovalo-
subrolundisrufescenti-inarginalis, corollâ purpurascenti, staralibus
subexserlis, rudnneilo transversè laliori renifurmi-emarginato, cap-
sulft mlnutâ ovato-roludâ aculâ calyce dupl6 longion.

Sc. aquatica var. *parviflora* in Heldr. pi Anat ens. 1846

Hab. ad aquas *Pisidice* lows urabrosis, ad pagum *Aglarwoun*, in
iosulâ lacùs *Beychehr Isauria* (Heldr.)

Heec species quam priûa ad *Sc. aquaticam* — *S. Ehrharli* Steven
et Koch retuleranuB meliùs observata ab e& specificè diflerre vldetur
tbyrso magis mltifloro omninò aphylo, flonbus minonbus, pedicellis
glanduloBisBimla fructifens recurvis, capsulis tminorfbua, caule parte
inferlori dlstlnctè et crispulè alato, foliis longiùs peUolaUs

Scorodonia OUQANTHA BOISS et Heldr. (Sect. *Scorodonia*).

Sc muUcaulw, caulibus simplicisslois obsoletS quadraogulis glandu-
loso-puberDhs internè nudlusculis, foliis brevissimè pubescenlibus

hreviler peliolalis ovalis aculis utnquè profundè et acutè 7-8 denlalis, thyrao terminali brevissimo 3-iO floro aphylo peduncijlato oblongo, bracteis linean-Betaceis, pedicellia valdè glandulosis calyce longionbus, calycis glaberrimi lacinnis rotundis angustissimè otarginatis, capsulâ ovalâ aculâ calyce duplb longion, corollâ flavidâ, atamimbus subexsertis, appendice reniformi anguslâ.

Hab in regione sum mîa *Taygeti* ad pedem rupmm ranssima (Heldr). Fl. AugusLo

Planla 8-10 pollicans, lolia majora 13-18 Imeas longa. Floras et capsuls ferè dimidid minores eis *Sc. grandidentote* cm affinis est; calyces semper angoslissimè membranacei quâ nolâ ab eâ at et a *S. Scopolii* ctS *SmyrnaA* discrepat An tamen *Sc. Scopolii* vanetas?

SCHOPIHILAHIA MESOPOTAHICA BoisB. (Sect *Tomiophyllum* Luddm)

Sc blcnma vel perenns pneter glandulas mimmas sessiles sab lente secûs caules ct infloresendam parcissimd obnaa glabra, caolibas obtusè quadrangulis erectis simplicisslmis parte infenon follosls, folua ambilu oval» subbipinnalisectis lacinus lungis latè lineanbus argutè denlalis, cymis densiflorls subsessilibns thyrsnm longissimum aphyllura basi valdè inerruplum supernè laxissiroumformantibus* pedicellis calyce brevioribus, bracteolis spalhalatis sliptatis latisslmè rufescenti-flcanosw pedicellos superantibus, calycis glaberrimi lacmls rotundis memhrani lenerfi scariosâ rufâ crispulâ eis sqailatâ marginatis, corolla brevis purpures labio superior! parûm porrecto, stamimbos inriusis, appendice ovalâ, capsulA gTabrà ovatâ aculft calyce duplb longion

Hab in *MesopotamiA* inter *Orfa* et *Siierek* Kotschy N° 87.

Planta 9 If* pedalis, thyrsus sesquipedalis Proxima *S. seariosw* Boiss. a quâ differt laciniis foliorum laUonbus, praesertim cymis densioribns sessilibas, calyclbus etbraclels rnfo nee •rgenteo-scarioslB, capaulâ minon aculft nee in rostrum aequullongum attenuaiâ.

SCOPULARIA aUBICAVLis Boiss in pl.Syr.eu. 1846 (Sect. *Tomto-phyllum* Luddce).

sc. Diennia vel perennis internè glabernma, caule erecto crasso rubro obtusè angulato loreroè ramoso foUosoque, folii» amplis petlotalis ambitu oblongis lyrato-pmnatisectis, laciniis petiolnatls sesslli-

boave ovatis grosaè el oblusissimè ranús acuté crenatis superioron majori aepd triparliU baai saepc̄ dernrrenli omnibus oblusia, cymis pauciflons subaessilibas fasaculatim contraclis thyrsos terminales ngidos laxos longissimos formanlibus, infloresceniâ tolA glandulia aessilibus valdè obsilâ, pedicellia calyce brevionbna, bracteolis li-ncari-aelaceu pedicellos sqnantibus, calycls glaberrimi lacinlis o?alis lalisBimè membranA rubellA valdè undulato-cnapft marginalia, corolla flaveacenia labio supenon porrecto lobu obovalia, alaminibuatatlusla, appendice minimi rotundâ, capsulâ ovata inroalram longum altenuaU calyce dapl6 longlon.

Hab in *Galilad* propè *Jentn* et *Banias*, in *CcBlesyria* inter *floseheya* et *Basbeya*. Legi Maio 1846

Planla 5-ft pedaha Racemi aspiasimè bipedalea. CalyciB indole *SeicarioMB* et *S. MettopotamicoB* afflins differt racemis longisaimia virgalis, flonbus fasciculatia, bracteis aubulatia nee apalhnlaliaT etc.

SGBOPHULARIA HincHUHIRA B018B. in pi. Syr exa 1846 (Sect. *Tomtophyllum Lucidte*)

S. parte infenon glaberrima aupenon pared puberola, biennis vel perennis, caullbus simplicisaimis rubris obsoletè quadranguha infern6 folioais, foliis breviter peliolalia amhito oblongis bipinnallaectia lacinua oblongia inciso-dentatia foliorum inferiorum lalmacolia obtnais superiorum tenniaaimia acntis arguté pinnatifidia, cymia contractiB breviter pedunculaha thyraum terminalem striclm angualum valdè interruptum formantibqB, bracteis Imeanbua, braceolia hneari-aetacea acutia, pedicellia eraasis calyce brevionbua, ealycia glabri nigricantla lacinlis ovalia membranâ rubellâ lalA eubundulalfi marginalia, corolle atrorabrc labio auperlari in S lacinias rotundas amplaadenticulatas parlilo, appendice rotundâ retusâ, stamIDibuaincluais, capaulA ovatft obtuaA calyce non longiori.

Hab. In bumld» propè *Jericho*, *Jerusalem*, *Gaza*. Legi floriferam malolneunte.

Seaquipedalls, folia Baspè ea *S. filieifolia* referenUa. AffiniB *S. rubrieauli* et *S. Mesopotamia* aed dialincta fohia valdè decompoBIUB, byno brerlori, appendicls formâ, corollâ atrovjolaeeâ, capsulft obloaâ.

SCROPUULARIA CATAALIBFOLK ttoiss et Heldr. (Seel *TomioPHYUwn*
Luclde)

\$. perenms mullicaulis tola glanduhs sLipilalis nnnulissimis secus inflorescentiam et paries jumores plants praescrip̄ copiosissimis puberulo-pruinoaa, cailibus quadrangahs internè fohosis, folds mdi-vius breviler petiolalis e basi truncalo-aubcordatâ oblongts acutiuscolis infimis oblusiusculè eclens aculè dentatis denlibus Inangularibus, cymis pauciflons pedunculo slnclo longiusculo suffullis pamculam laxam anguslè pyraimdalam terinalem apbyllam formanlibuB, pedicellis calyce paulA loiiigionbus, calycis glanduloso-pobescenhs laciniis ovalis albomarginalis, bracteis hneanbus pedicellum aequantibus, corolls Qavescentha labio supenon parAm producto, appendice reniformi aculiuscula basi iruncatâ.

Se nepetoBfolia Boiss el feldr. in pi Anal, exs 1846 non Presl

Hab in cacumme monlis *Karadagh Lycaoniee* in ruinis eccleaiee Gneffi vctens cum 9 *cryptophila* mixta allBOOO' Fl.Jumo Heldr.).

Sesquipcdalis, folia infunora sesquipollicem longa, thyrsus semipedaha. Affinis Sc. *incisy* Weinm et S *OlivertatuB* d'Urv a quibus glandiiositate, a priori msuper foliis oon incisiv, a postenon eis aculè dentalis differ! Appendicis forma peculiaru (en forme de pique du jeu de carles)

SCROPULARIA LIBAIOTICA Boiss. in pi Syr eis 1846 (Sect *Tomio-phyllum* *LuctdtB*)

Sc perennis mlticaulis plus minusre glaucescenti-caesia prater glandulas minimas *sects* foflorescentiam sspè sparaas glabernma, caulibus terehbus Tel obsoletè angulatu ascendentibus virgatis simplicibus internè foliosis axillis snpenoribus sapè ramuligerls, foliis infenoribus longiosculè supenonbus breviter pedunculatls basi rotundatis vel truncatis oblongfs oblusis vel acutiusculis aculfaseulé lobato-dentatis vel ranis incisiv, cymis pedunculo deinum patulo basi suffnlis paucifloris divaricalis thyrsum angoslè pyramidalum laxissimum terminalem formantibus, pedicellis calyci ajquilongis, bracteu hnean-setaceis brevisiaais, flonbus parvis, calycis ladnliB rotundis albo-margmatis, corolle labio saperion parum producto, appendice minimâ ovatâ subrelus4, staminibus exBertis, capsolâ rotundâ oblusâ mucronulatâ calyce paul6 longion.

Sc. *Urviltei* Decaisne Flor. Sinaica non Wydl.

Hab. in fissuris rupium montis Sancto *Catharina* (Schimper), *Libanis* supra Cedros (Doiss.), *Anlibani* supra *Zebdani* et in monte *Sermos* (Boiss.), montis *Caasii* (Boiss.), in Touro Citato et in monte Gam JCurdtanto si specimina incompleta, Kotschy n° 578 et B16 huc nunc refero

A specie praecedente differt glaberrime, foliis profundius dentatis, floribus dimidato minoribus, calyce angustius marginato Propius accedit ad Sc. *Urvilkei* Wydl. em 5c. *Oliveriana* ut ranelas mihi associanda videtur sed hinc habet folia breviora magis rotunda obtusa obtusius lobata, flores majores, calyces laticius marginatos, stamina XIX ciserata, appendicem remiformem aculeusculam. — Sc *heterophylla* Widd est planta cretica nobis ignota; Sc *heterophylla* Fl. Graec. tab. 60S ob folia pinnatisecta ad Sc *Olympicam* potius spectare videtur.

Sc. *depauperata* cl. Benham in Prodr. Cand. S. *variegata* HB associat cui sententia non adnuere possum Praeter indumentum et characteres indicatos prior appendicem remiformem transversam alio-rem, Sc *variegata* appendicem linearem habent

SGBOPHULAHA CRASSICAUS Boiss. in, Kotschy p. Pen. bor. 1846. (Sect. *Tomiohyllum* *Lueda*)

Sc. basi suffrutescens multicaulis glaberrima, caulibus crassis medullosis teretibus simplicibus rectis parce foliosis a basi ramosis ramis simplicibus lateralibus junceis simplicibus parce foliosis, foliis integerrimis ovatis vel linearibus spatulatis linearibusve obtusis basi subattenuatis floralibus angustius linearibus acutis, cymis multifloris 3 caeteris (foliis pedunculo crassis strictis aequalibus thyrsis breviter paniculatis paucifloris terminalem formantibus, pedicellis crassis calyce subbrevioribus, bracteis e basi laticius hinc setaceis brevibus, Ombus magnis, calycis nigrescentis laticius latissime albo-rosaceis, corollae purpureae lobis superioribus parvis productis, appendice late reniformi, antheris inclusis, capsula rotunda obtusiuscula longe mucronata calycem excedenti.

Hab. in valle *Tatoqon* montis *Elburs* Kotschy. N° B93

Sesquipedalis, folia longiora sesquipollicana 9 nervis late inflexis siccis multo breviora, superiora angustiora. Floras et capsulae manibus generis Species distinctissima facie *Centranthi*

SCROPHULARIA paucosA Boiss in Kotacly pi Pers bur. 1846 (Seel *Tomiohyllum Lucilce*)

Sc. bienmsl BCCUS folia et caulis partein inferiorem minuusflimè el densè calcareo-punctata pruinoso-glaucescens supernè gtabernma, folus fere omnibus radicaibus rosulalw minutis lyralo-pinnatipartitis brevissimè peliolalis subtùs elevato-nervosis laclnus lalerahbua subbinis oblongis dunlatis Icrminali inullò majon oblongâ lobato-incisâ lobla acule denticulaliscnspulis, caule simpliciSBimo baBi 1-9 folia aessilia lanceolala acula internè incisa argutiùs dcnlicalata gerenti paul6 suprâ basin in (byreum angustum elongalum laxum abeunll, cyiuis 5-5 flons pedunculo brevi erecto-palulo suffultiB, pedicellis calycimquilonis, bracteis lmeanbus pedicello brevioribus, calycia lacinhis rotundis membranâ albidâ undulalâ denticulalâ lacerâ laA cinclis, corollâ calycem vix excedenli purpurascenli labio sapenon parùm porrecio, appendice ovalo-oblongâ oblusâ, siammibuB breviler exserlis, capsulâ globosâ obtusâ longè mucronialâ, calycem parùm excedenli

Hab. in scluslosia monlls *Etbns* propè *Derbent* Kolschy. N° '58.

Planta ferè pedalis, folia cum peliolo vix gpsquipollcem longa 6 hneas lala. Species indumento calyceque dIBlinclissima propè *S. Otympicutn* collocanda

SCROPHULARIA XAMITUOGLOBBA BOIBB in pi Syr eis 1846 (Seel. *Tomiohyllum Luetda*)

Sc. basi suffrutescenB niullicaulia glabra caulibus angulalo-srlralis aacendentibuB inferne foliosis paul6 suprâ basin in (hyraum pyramidalum abeuntibus, folus decomposes bl vel Irlplnnaliscells laclnulis foliorum inferorum minutis denliformlbus Buperioram elongabs lanccolaliB lmeanbuBvo aculiB, cymis dlvanatim blfida pedunculo erecto-palulo rigido suffullia, floribus dislanlibus brevissiraè pedicellalfa, bracteis sobulalis pedicello ffiqullongis, calycis lacloils ovalo-Us lallsslroè albo-marglnalis membranâ byalln4 denticulalâ, corollae atropurpureaa lablo superior maxiuio basL valdA slrangulalo in lobos rolundos Bubdenticulalos biparilto, slamlmbus longè exsertia, appendice magnâ orbiculalâ flavâ, capsulâ breviter ovalA mucronalâ calycem vix excedcoti.

Hab circft *Hierosohjtnam* frequens ub cam florifcram fine April
legi

Species habitu simllis forum valdè pinnalisechs *Sc. canina* scd ab
en Bicut a *S multiflida* W., Benlb et apeciesbua affinibus^labio au-
perion corolls valdè strangulate maximo, appendice maxima luteâ
lines 3jb latA dlscrepans.

SCROPHULARIA HVAIOPHVLLA Boiss et Heldr in pi Anat eis MM 6
(Sect. *Tomiohyllum Lucida*)

3. perenoU mullicaulis glabernma nigreacentt, caulibus pumilis
ascendenlibuB teretibus simplicibus infernè foliosis, follis brevller
peholatis ambilu oblongis lenuissiinè tripinnatlaeclis lacmulis nituu-
libBimis^ cymia breviter pedunculalis pauciflorw lliyrsum angualè
pamculatum breveui terminalem formantiboa, pedicellls calyco bre-
vioribus, bracleia lineari-selaceis brevibus, floribus parvis, laclnls
calycis membranA albft laliuscul& acutè dentieulaUk cinctis, corolla
atropurpuree subeloogale labio supenon brevisaiuo, antheriu aub-
oisertis, appendice latè rcoiformi.

Hab. In reglone superiori montia *Ghvidagh Tauri Isaurici* (Hel-
dr.). Fl. Julio.

Folus ct habllu *Sc. Hoppti* aimillima quæ diallnguulur follis minùs
tenuiler dlsaecLU, corollas labio superiori valdè elongato, slamimbus
longè etaerlis, appendice lineari-lanceolal&, calyce niarguie mlegro

SCHOPDLABM BIUTIAMIAHA BoiSS. (Sect. *CanifUBt*)

S. suffrotuacens glaberrima glauca, caulibua leretiusculla suba-
pbyllis ferè a basi patulè el divancatim ramosisaimis inIncatis, folila
aparsift indrvlsis llinearl apatbulatla Infenonbus in petlolum allenuatls
auperioribus seiailibus omnibus Inlegrls vel apice 1-3 denticulatfs,
ramulfa floriferis aosplùs aborla aunplicibus rarfus blfidla, florlbua
minlmis aparala alternis aubaeaslibua, calycis lacinits rolundla an-
gustè âlbomarginatis, corollâ .. , capsutt globonA parvA mucronulalA
calyce duplò longlon

Hab. in *PeniA* Aucher N" H061 et 8061, ad radices monies jto-
mavend Kolacliy. N° 630.

Pltnlt habitu el flonbua mlnimu *Se. deswli*, Sina<ca>† et *Syriaea*
Blh. affinis ab els follis subintegna dlalincta, ob corollam adbùc
ignotam inter *Liteidas* el *Canitias* dubia

Ad *Sc farinomm* Boiss anno 1Mb, evulgalani u(aynonymun adducenda csl *Sc. tonyiftora* Bin serlùs in Prod Cand descnpta

LINARIA LOKGIPES BOISB. et Heldr in pi Anal ens 1846 (Seel *Cymbalariu*)

L glahernma perenms, caulibus tenons proslralis filiformibus clomjalis, folus peliolo eis mullolies longion suffultis infenorlbua orbiculatis basi cordatia infimis inlegerrimis cselens 5-S lobatis lobis lalis oblU9issima muticis, pedunculis peliolos non xquanlibos, calycis glabri mmulissuni lacimis oblongis obtosis, corollae pallid^ violaces Briabc palato ilavo, labio superior! brevi ad medium usquè biGdo, calcare redo corollà dlmidi6 brevion

Hab ad. muros et rapes circà *Adalia* Pamphylie (Heldr) Pl. Marte.

Habitu clflorum ul et foliorum inagludine similis *L. cymbalarkB* pro quà prim Am habuimus sed pelioll longiores scepè tripollicares, folioruni lobi minùs profundi obtuaissimi, calycis lacinie lnea; tertian parlem tantùm longaenos earn distinctam ease speciem suadent. *h microcalyx* dilfert indumento folilsqae minoiibus

LIHARU HICBOCALYX Boiss var *acutiloba* Boisa ot Heldr in pi Anal t»s 1846.

Folià subtnioba lobis in fohis snpenoribus sspiùs aculiB Casterum omma speciei

Hab ad rupeB promonluni *Alaya Pamphylte* Heldr. Fl Aprili

LIMABA FLORIBUNDA Boiss in pi Syr exs. 1846 (Sect. *Elatinoldes*).

L. perennis tola pilo dcnsis brevlbus palulis cinereo-pobescens baBi suflrutescena, canlihua filiformibus prostratls basi nudls deln subbifanam ramosissimls, ramis a bvsì flonfena splcas folla intermutaa densae cylindncas eloogatas formantibus, fohls elllptico-hneanus acutiusculis breviter peliolatis Ooralibus corollas superantiba« omnibus lategernmiB vel aupremis raritts basin rends deotieolo unieo auclis, flonbus axillanbua pedicello caplllan calyce brevlori suffultie, calyce hispidulo ad basin usquft in lacinias lanceolato-aela-ceaa parti to, corollas Have eitùs hirùB labio superior! VM longlon

breviter bilobo inferiori subequaliter trilobo, calcare lenui uncatu recurvo aculo corollae subsequiilongo, capsulâ

Hab in agris derelictis planitie *Atnaecilance* ad meridiem urbis Gaza silc. Fl Mart-April (Boiss.)

Caules crapiLost ex collo numeroBisBimi expansi rariosissimi, spicae densae saepe semipedales foliis inlenmmta, folia 6 lineas longa 1 i;4-J lala, corolla ek *L. Jigyptiaae* ferè dupl6 major Species distinctissima propè *L. scariosatn* Desf coilocanda

LIMARU CALISYRIA Boiss in pi Syr exs 1846 (Sect. *Linaria-stnnn*)

L. perennis erecta glabra inullicauhs, caulis cretllis elalis densè el stric(6 foliosis parte superior! raro simplicibus uepi^s ramosiBsinus ramis TasligiaUs strictis, Tolls lat6 linean-lanccolads acudssimis rigidulft parallrè nullnerviis, ramis nullft mmonbiB abbrevialia lanceolads, floribus in splcas primdm denaissimas dein elongates diBposills, pedicello calyci squilongo bractft oblongo-lineari asquilonA stipato ut inflorescentia tola snbglaaduloso, calyce mmimo pared glandoloBo-puberulo lacinnis obrngo-lineanbus obliB angustissimalboaiarginatis, corolla; flavis glabre palalo auranliaco puberalo, calcaro recto calyce vix longior, capsulA ovattf calyce paul6 longiorif aemibus mgns concavis laevibus niargloatiti

Hab in agris derelictis *Catlesyria* Legi Julio 1856

Planta bfpedahs, folia caulina bipollcaria 3-4 lineas lala, calyx flonfer vix sesquilineari longus, corolla K lineas longa, calcar vu a lineas longum Habitus *L. fatfigiatce* Cæav a quâ differt foliis non ovato-lanceolalis, calcare null6 longior. *L. Aucheri* Boiss. foliorum fornâ affinis diflert ela angustioribus, calcare corollam BiBsequanti lenui. corolla palalo concolon. *L. Kurdica* differ! flonbus valdè dilsilis, foliis anguftUs, calcare corollam asquante

LIHAEU OHOCHBOKA Boiss et Heldr (Sect. *Linariaatrum*)

L. perennis glaberrima caulibus ascendentibus basi denudatis deln. foliosis elatis virgatis simpltelbuB vel auperne paniculato-ramosis, foliis obscure virentibus sinctis lanceolalis aculis ramis nulld minoribus linearibus, floribus in splcam longam densè confertis pedicello calyce snbbrevion ut inflorescentia tola glaberrimo suffultis,

bracteis imbricatis pedicellis longioribus, calycis laciniis minimis
 Hincan-selacels aculis, corollâ pallidâ sive sulphureâ palato concolori
 hirsute calcare team aculo corollae squilongo, capsula globosâ calyci
 squilongâ, semibus pallidis Inque in facie rugosissimis.

L. genisifolia Mill, var pi Anal eia. 1846.

Hab. in campis *Paidiat* et *Isaurim* ran, circa *Beycheher*, *Egirdir*,
Koniah Fl Jamo (Heldr)

Planla 9-8 pedalis. Folia majora aequipollicaria SW lineae lala,
 calyx florum lineam unam, corolla cum calcare 7-8 lineas longa
 Hanc partem pro varietate *L. gentsttfoHa* habuimus sed difflertflo-
 rubra in spicas densas nee laxas disposita brevibus pedicellata, ca-
 lycis inanis laciniis molli angustioribus, palato corolla) concolori.

LIHARIA LINEOLATA Boiss. in Kolschy pi eiB Pere. bor 1846 (Sect
Linariasrum).

L. perenna glaucescens parte infera glaberrima, caulibus erectis
 etiam tenuiter virgatis simplicibus vel superne parce ramulosis, foliis
 densis atricibus longissimis angustissimè linearibus aculiaculis, rac-
 cimo terminali denso oblongo fractifero elongato. pedicellata calyce
 in 6 bracteis oblongis pedicello longioribus, calycis
 laciniis lalo-linearibus aculiusculis margine angustissimè membra-
 naea, corollis glabris lutescentibus violaceo-lineolatis palato concolori
 hirsute calcare hirsute corollâ vix brevioribus, capsula orato-rotundâ, ae-
 minibus .

Hab in fauce *Dudera* montis *Elbwa* Kotachy pi. Pen. bor
 n°96B

Vanal pedicellata calycibusque glaberrima vel lanâ capsula brevi
 obsiUs, caules 1-1.5 pedales, folia 1 [ji-i pollicana lineam dimi-
 diam lala, calyx aequilongus, corolla 8-9 lineae longa. Species pul-
 chra cujus semina non vidi aed qui videtur praeassertim affinis *L. stric-
 tta* foliis brevioribus. florum pedicello calyci equilongus vel longior
 suffultus, calyce duplo longiori calcare corollam superantem tamen
 diverse.

LINARIA CONICA Boiss. et Heldr. in pi. Anal. exa. 1846 (Sect. *Una-
 riustrum*).

L. glaberrima multicaulis, caulis ascendens vel decumbens
 ramosus densiuscule foliosus brevibus, foliis hirsutis subulatis acu-

Ilusculis, doribus m apicas breves laus disposes, pedicelliB strlctis calyce brevionbug, bracleis setaceis pedicellos equantibus, calycis laciois liiean-setacels aculis alboinargmaLis, corolla? vioiacea; palato aurantiaco-fulvo, calcare subulalo recurvo corolla aqailongo, capsuU ovalA calyeein non superanti, seniimbus obJongo-currads subreniformibus acutè angulatia retcolatia.

Hab. io arenosis planitiei *Koniah* (Heldr.)

FOIIB, florom magnitudine affius *h. corifotiat* Bed distincta canlibus Bpiscisqae magiB abbreviatis, flonbus brevlfia pedlcellatis, calcare loogo aubulalo recurvo oec bravl comco recCo, etc.

Lnuau MODCSIA BOIBS. (Sect. *Linariastrum*).

L. anna glaberrima, caule nano erecto TOIOBO a basi parcè rarou-IOBO, folii9 infimis oblongu cstens lanceolatJfl acatiuBcnliB, flonbaa 2-3 secAs ramuloa laterales et termInalem Babsessillbus Blrtctis, braeteia lmearibuB calycem cequantibus, calycis lacinlia oblongo-linearlhus aculinsculn, corolls minlnis calyce ferè occullate labiia breribua vlolascntibua, palato birto auranliaco, tubo flavo, calcare corollâ plto duplò brevlori, capsulâ calyce breviori, sennnlbus oblongo-reoiformibns punctato-impressla.

Hab. in arenosis *Arabia petrece* loco proprio non notato (Boiss.)

BlpollcarlB, folia 5-4 tineas longa, calyces 1 lineas longl. SIOIIB Bpecimlnlbas minimis *L mieranihm* a quâ differ! seminum formâ flonbuaque sparaia. B descriptione affinte *I. minutiflorw* propè quam collocanda.

LESQUEREUXIA Bows, et Heul.

Gain tubuloBUB basi bibracteatus aub 11 nervia inter nervoB eleratos membranaceas ultrâ terbam partem obBcurè bllabiatua labils ad basin luquA auperlorsl Iriparlito inferorsl biparlilo lacinifs Bobasqualibus sabfoliaceo-dilatatiB latè oblongo-linearibus obtasls Corolla longè tubalosa bllabiata labiis subequullongla superior! compresso galeato aplice retuBO, inferlon breviter trilobo lobia integris mlermedio paulò majori. PalaUm egbbosum. Stamina qaatuor aub gale& approiimata sobcqualia. Anlbero magits medlfii® oblique biloculares sagittate loculis ba»i diBcreliB mulicU Bubaaquilongis Ovanum compreBsam

nblongum biloculdre multiovulalum. Stylus longus supernè sensum incrassatus apice incurvus Stigma parvum truncalum subcapitalum Gapsula.

Herba Onentalis percnus facie *Castillejam* vel inter Labiatis *Lallemantiam* vel *Ajugam wlicifoliam* referens — Genus *Euphrasiearum* inter *Rhinautheas* juxlà *Cymbariam* et *Bungeam* collocandum a priori corollà lubulosà nee campanulà, palalo egibboso, stanunibus aeqmlongis, anlliens mulicis, cālycis valdè nervosi lacinnis fohaceis, a posteriori galeà relusà non acuminatà calyce qmque nee quadripartilo distinctum Dolemus fructum seminaque nobis adbdum ignota esse Dicavimus cl el amicis *L. Leaqueroux* bolan. penlissimo qui librinn dassicum de naturà et formalione paludum lorfaceorum scripsit a (quo de moscologà Helvetica et Boreali-Aoienanà optimè meritus est

LESQUBREWIA SYRIACA Boisa et Keut

L perennia lota breviter et patulè puberula siccitate mgrescens Caules virgati teretcs erccli i l]9-9 pedales a basi folioai supernè opposite et parcè ramosi pamculati ranùs siniplices, folia trinema sessilia basi subattenuala oblongo-lanceolala obtusmscula integerrima, inferiora 1 ifS-9 pollices longa 4-6 lineas lata, floraha calyces superanlia elliptico-hneana aculiuscula A&MSB infenores fasciclos folionim minorum edentes Flores oppositi in anllis folforum superiorum sessiles erecll stnccl mlervallo foliorum paulo longiores spicas scimpedales ot ultrà rectas tongas terminates formanles Bractec ad calycis basin angasUe linearcs ejua tubum aequantes Calycb valdè pubescenli-visciduli tubus sen lioeas longus elevato-costalus inter coslas angustè membranaceus, lacims 5-3 Ifi lineas longis lineam unam ferè laUe, ca labii mfcioris paulè longiores angustioresque Corolla purpiirea 13-1t lineas longa angusta parte terlift suà exserta tubo in limbiiuu vix amphalo labio sapenori pubescenli inferiori glabro. Antbere lineam longis fancem non superantes.

Hab. in rupestribus dumosis valla inferions *Orontis* in viâ qua? sccAs fluvium a *Suodiah Antiochiam* ducit. Planta scrohna florerc incipiebat One Junii (Doiss)

PEDMULAMB PVGNANTUA BOISS. in Kolschy pi. Pen bor 184G (Seel *VeriiaUB erostres*)

P. humilis, collo squamis lanceolatis fusciscentibus veslito, folns radicalibus ambitu lanceolatis in petiolum attenuata pinnatifida laciniis triangularibus lanceolatis acutis. Bimembris acutè denliculato-lobalis a medio ad basin et apicem folii dimmutis, costae folii subdenudatae, caule folns aequilongo supra medium verticillatim 9-h phyllo, folns caulibus longis lanceolatis acuminatis profundè pinnatifidis lobis breviter triangularibus, spicis densissimis ovatae oblongae, bracteis lanceolatis acutis calyces squamatis marginibus ciliatis inlegens infimis ramis dente lateraliter irregulariter auctis, calyce papillis albis patulis cernis parvis lanato ovalo subinflato albidulo lugrescenti-nervoso denudatis breviter triangularibus acutis lutescentibus, corollae pallide carneae glabrae subhomonolali tubo longiusculo exserto, galea lineariter recte oblonga. Bimembris prorsus edentula basi subangulata, labii galeae brevioribus lobis lateralibus latis inferioribus subrotundo basi valde strangulato

Hab. in monte *Totahal* prope *Teheran* ad menses Kotschy pi. exs. Pen. bor. N^o 166

Folia radicalia 3-4 pollicum versus medium pollicem ferè lala, folia caulina sesquipollicaria 5-4 lineas lata Spices 1 i^o-S pollices longis Calyx k lineas, corolla 8 lineas longa Species pulchra distinctissimaque

VERONICA LIOCABPA BOISS. (Sect. *Chanuetlyria Pentawpake*)

V. perennis glabra, caulis ascendens elalis sublente puberulis glandulis, folns omnibus sessilibus a basi subcordatis oblongis acutiusculis regulariter dentatis dentibus brevibus acutis ascendentibus, racemis oppositis ex axillis superioribus 5-8 reclis longis virgatis, pedicellis erectis capsulae subbrevis basi bracteolae lineariter eis nullo suffaltis, calycis laciniis linearibus acutis capsulae moquantibus, corollae carneae, capsulae munda brevissimè et sinu acuto obcordatae margine sabidraasae faciebus nervoso-rehculatae.

Hab. in regione raoniana nemorosajugi *Cassii Syria* borealis Legi fructiferam Junio

Caules pedales, folia pollicem aut paulo amplius longa, sex lineas longa. Racemi semipedales. Affinis *V. latifolia* a qua sat mihi Mere

videtur glabrie foliorum et inflorescentie, prasserlim capsulis pedunculo breviori an adpresso subincrassato suffultis obsolete emarginalis margineque manifestè incrassatis Floras quorum tantum vestigia vidi carni sunt et illis *V. latifolia* minores esse videntur

VERONICA RUBRICATA BOISS (Sect. *Veronicastrum annuum*)

V. annua nana parce glandulosa puberula a basi ramorum, foliis paucis minimis ovato-oblongis integris breviter pedicellatis, floralibus linearibus-subspatulatis obtusis basi attenuatis pedicello squamulosis, pedicellis multifloris apice sursum recurvis calyce triplo longioribus crassis capsula; squamulosis, calycis laciniis ovato-oblongis obtusis capsula dimidio brevioribus, capsula margine parci glandulosa fere ad basin usque bipartita lobis obovatis teretibus, scinibus in utroque loculo 4-5 oblongis utrinque convexis, stigmate loculis dimidiis breviori

Hab. circa *Diarbehir*, Kotschy pi. Hesop. N° 340.

Bipollicaris, racemipollicares. Affinis *V. acini folia*, *V. Syriaca* et *V. pajnui* Ua; prior differ! folia latis densis, racemis longis angustis foliatis, pedicellis brevibus erectis-palentibus, calyce capsula semibifida trilobis breviori; *V. Syriaca* pedicellis capillaribus elongatis styloque longissimo longioribus ab ea distat, ambo quoque loculos 7-8 spermos nec 4-5 spermos habent *V. perpusilla* demum capsula bipartita quoque donata habet pedicello incurvos, calycem capsule squamulosis, capsulas dimidiis minores

F. Etbursensis Bolss. in pi. Pera. bor. Kotschy 1846 sub N° 100 a *V. biloba* non differt

VERONICA HUBERTII Boiss. (Sect. *Omphalospora*)

V. aerea minutissima loba pilis glandulosis pilis tenuibus sublenleptiberalis, radice filiformi simplicis, foliis paucis ad collam planis minutis ovatis subpedicellatis integerrimis subtus rubris, racemis 1-1 brevis radicalibus, pedicellis pilis apice sursum recurvis calyci asquulosis, bracteis linearibus-spathulatis pedicello sublongioribus, calycinis laciniis oblongis obtusis capsulam equantibus, corollae carneae calycem squantibus, capsulae parietibus glandulosis ovato-rotundis apice brevissime emarginata stylo emarginata longioribus superata, seminibus oblongis concavis

Hab. circà *Schah-N&chin* in monte *Elburs* propè *Derwent* Alt 7000'-8000' In monte *Kuh DaSna Persia* austrahs Kotachy pi Pers. austr. N° 717 a.

Planta 1/9-1 pollicans. Folia 3-4 tineas longa. Racemus pauciflorus. CapBula vu 1 *ijk* tineas diametro lala Propè *F. pracocem* collocanda a quà nods dalis longè differl.

VBHOHICA VISCOSA BOIBB (Sect. *Veroniautrum* anniue)

V annua nana, caule subnullo, folus mmutls oblongis obtusè crenatis oblusis brevissimè petfolatfa, racemo smplici aut basl subramoso brevissimo lolo patulè et densiasimè villosoglanduloso rufescenli, pedicellis capsulâ brevionbuB patalis exlremitate aursum recurvis, bracteiB oblongo-lanceolatis pedicello sublongionbus, calycis laci-niis ovato-elhpticia Qtrinquè attenuate acutis capsulam cquanlibuB, copsulâ glabrA ad medium OBquè sinu aculo bilobâ IOCUiB divarlcats obtusls reticulalo-nervosis, Btylo slnn tequullongo, semimbus In loculo quatuor plants latè marginalia ovalis.

Hab. In regione alplnâ *Ltbant* In arenosis (Boiss.). Pl. Julio.

Planta *i* Ijl pollicans, folia inferora tres tineas longa. Capsula S 1)1 Hneas lata. Propè *V vemam* collocanda a quft foliis indivlsu, racemiB brevissimis, capsulâ majorf, sepalislatis, semimbus dupl6 majoribus differ!

ODB. *Far. Cartetut** Boiss. Diagn IV. ez cl. Benlham eat *V. cunetfolia* Don mihl tune non nola

LABIATIE.

TBYMU* SVRUCCI Boiss (Sect. *Serpyllum*).

Tb. frulieoBua dumoaus, raniB nuraeroais smplicisBlmis ereccla •Ibldis sub lente hireulis, foliB diBtanllbus rigldls angustè llneari-lanceouUU patentibuB utrinquè attenuate aculiuBculia glanduloso-punctalsalmiB praeter cilia pauca veraüs basin obvla glaberrimls, flonbuB in capitula terminalla dense ovata conferbB, bracteiB oblongw acutiB flores aeqnantibus sub lente brevlBimè et densè birteilis pDnctatsBimis mullnerrils, calyela breviter et patulè hlrtelli vindis glanduloao-punctatl labio supenon amplo oblongo apice mlnutlssimè

Indenüculalo inferiori in denies setaccos cilialos diviso, corolla! palhdè carnes parce lurlulæ glanduloso-punctaUe lubo breviter exserlo

*Th lanceolatu**, 0 *angustifolius* Bib. in Dc. Prodr.

Hab. in sicüs *Cvelesyrie*e propè *Balbeck*, circà *Aleppum* (Boiss) In *Mesopotamia* Kolscliy. N° 428.

Caulcs lignosi 3-4 polhcares ramos crectos dumosos 6-0 polhces longos cdunles Folia S-7 lineas longa lmcani unam lata, capilula magnitudims nucis avellanae. Calyx post anthesin ferè 3 lineas longus. A *Th lanceolato* Desf. Africa? borealis prater formam foliorum nolis pluribus mihi discrepare vidclur MagiA affiniB *Th strtato* DC Prodr — *Th zygt.* Fl Grocca non L sed elatior, rami ngidi, folia palula breviora, bracles non aUcnualo-acuminats, calycis labium supenus obsoletè brevissimè nee longè denticulalum

Thymi species ex monlibus mler *Beyxhehr* el *Koniah* sub TA *utriati* nomine in pi Heldr Anat 1846 distributa est TA *xvgioides* Grisebach.

MICROMERIA HISPIDA Doiss. el Heldr in pi Cret cis et Dc Prodr XII, pag SIB (Sect *Piperella*).

M suffrutescens lota densè et palulè hispida gruea, canlibus abbrevialis, folns pams sessilibns ovatis acubosculis margine revolutis, cyinis 1-3flons amllanbus pedonculo folio brevion soffultis, bracteolis setaceis pediccllos gubsequantibua , calycis cylindrlei densè hispidi dcntibus subulalo-setaceis lubo Implò brevionbus, fauce pilosulà, corollffi lubo breviler euerlo.

Hab in rupcslnbus aubmontosis *Creta*, inter *Maglia* et *Kainou-roehorio* Eparchie *Mirabello* (Heldr) Apnh, 1846

Folia et luflorescentia pauciflora AT *Sphaciotica* a quà abundè differt indumenlo lotms planue inultò copioson, ramis crasslonbus, calycis 3 lineas forè longi dentium proportione diversfl. Floras magnitudims eorum If *Grcece* a quà cauhbus abbreviatis, foliorm formà , indumenh nalurà, cymis pauciflons differt

NIGBOMERIA SPHACIOTICA Bolss et Heldr in pi Cret. exs. 4847, et Dc. Prod. XII, pag. «M (Sect *Piperella*)

M. baai suffrutescens diffusa, ramis tenuibus 61ifonmbus fleiuosis palulè lursiilis prielereaqiie pube brevissimà glandulosiB, folds par-

via aoribus ovatis acutu uirgine abbreviata glandulosis bracteis
vaginibus subulis nervosis, cymia 1-3 flora axillaribus oppositis pe-
dunculo folio breviter suffultis, bracteis setaceis pedicello dimidi-
brevioribus, calycis parvi patuli hirsuti ovato-cylindrici donibus
asqualibus Belicea luteo dimidiis breviter, fauce subnuda, corolla;
luteo incluso

Hab in repetitibus regionibus aemulgentis Crete in fauce Ara-
tana provinciali *Sphakia* (Heldr.). Fl. Jul. 1846.

Caules 3-4 pollicaria tenuissimi in calice flouosi palati hirsuti,
folia 1 in 9-31; 9 lineas longa 1-9 lina, calyces hinc unam longi,
tota planta pallide virens. Affinis *M. parviflora* et *M. microphylla*
a priori luscipitale, foliorum forma, «a posteriori caulibus tenui-
m», cymis paucifloris, floribus 9 mmis distans

MicaoxBBi\ KYLOHHHIEA BOIBS. et Heldr in pi Anal cia 1M6 et
DC Prodr. tome XII, pag 917 (Sect *Piperella*)

H rhomato ligno atrobrunneo, collo mullicipiti, caulibus na-
nia erectis cespitibus dense foliosis aepè parte superioribus ramulis
aulis velutinis, foliis sessilibus ovalibus vel oblongo-linearibus mar-
gine revoluta obliquis ulnque pubescenti-glandulosis, floribus in axillis
superioribus solitariis 9-3 ma breviter pedunculatis folia vn
eicidentibus, bracteis hinc pedunculos superantibus, calycis
conico-cylindrici patuli hirsuti nervosi denibus subulatis luteo
brevioribus fauce villis albis dauad, corolla Insuper tubo incluso

Hab. 10 fons rupium Tauri *Paidici* et *Lycamici* alt 6000-
6000' in monte *Boudroun* et monte *Anema** Heldr Fl. Aug

Rhoma ligno cortice nigro vestitum inter saxa aepè com-
pressa tortuosam edens caespites deorsum caulibus 1-9 pollicaribus
dense foliosis fordialos. Folia 9-14 lineas longa 1 in 9-9 lina. Florea In-
ter folia superioribus subocculati breviter pedunculati septis solitarii
9 lineas circiter longi. Species distinctissima prope *M. approxima*-
(um eollocanda.

MicaonuA noMHULaurouA Boiss. in pi. Syr. eis. 1846 (Sect *Pi-
perella*).

M. basi suffruticosa nana dense caespitosa lutea pilis longis patulis
albis in parte superioribus plantis copiosis molliter luscata, caud-

PlumUriiD orililiam nonrum No n

culis procumbentibus, ramis filiformibus rubellis ascendentibus, foliis sessilibus inaequalibus ovalibus obtusiusculis basi minutè cordatis marginibus distantibus, floralibus dimidiatis inter se approximate calyces squarrosos, lobis solitariis axillaribus oppositis pedicello calyce brevioribus suffultis racemos terminantes oblongos basi laxos apice confertos formantibus, calyce longè et molliter albo-hispido glanduloso-punctato dentibus lobis aequali subduplè longioribus et basi lanceolatis setaceis aequalibus apice recurvis, corollam purpuream bilobam calycem breviter superantem

Habitat in rupibus siccis ad basin rupium calcarearum {supra pagum Eden (Boiss.) Fl. Julio

Rami 1-4 pollicares lenissimi, folia 5-4 lineas longa 1/2»3 lata, calyx 3/4 lineas longus, corolla tres lineas longa. Species pulchella habili *Calamintham Comicam* Bth referens sed characteribus omnino *Micromerita* adnumeranda

MICROMEIA LIDAKOTICA Boiss. (Sect. *Pseudomelissa* Bth.)

H. basi fruticulosa multicaulis totum indumento tomentoso densissimo brevi canescens, caulibus gracillimis simplicibus pumilis erectis, foliis sessilibus parvis ovalibus basi rotundatis apice subangulatis obtusis vel acutiusculis, floralibus dimidiatis summis ad bracteas lineares brevissimas reductis, cymis axillaribus brevissimis pedunculatis densiuscule 8-7 floris inferioribus folia paulo superantibus rericillatos reotos formantibus, pedicellis capillanibus, bracteolis brevissimè setaceis, calyce breviter tubo tubuloso-obconico basi {equali dentibus 8 inter se aequalibus brevibus Inangulatis aculis tubo quadruplè brevioribus, corollae roseae hirsute tubo breviter exserto.

Habitat in Libano supra Cedros (Labillard. 1 Boiss.).

Planta fragillima breviter et molliter canescente*, caules dimidiatissimi semipedales, folia 4-5 lineas longa 8-4 lata. Racemi 3-4 pollicares basi inferne foliati, calyx sesquialteus, corolla 5/8 lineas longa. Pulchra species prope *M. marifoliam* Bth collocanda

CALAMINTRA ORIGANIFOLIA Boiss. (Sect. *Clinopodium*).

C. basi suffrutescens, caudiculis prostratis nudis, caulibus ascendentibus remote foliosis fleuosis glabris vel pubescente minute hirsutis, foliis subsessilibus ovalo-rotundis obtusis subtus elevato-

nervosis margine subrevolnti* sub lenle brevisunc lurluljs glandu-
loso-punclalia, verticillasm dense muUiflom subBessilibua remotis,
fohis (loralibus oblongls petiolulatis verlicillo imiltò niinoribus, brnc-
loolis hncari-lanceolalia calyces non oequaulibuB, calycis valdè glandu-
loso-punclati lubo sub lenle brevis9imè birtulo bilabiate labus
nquilonq'ib cilialis snpenori ad medinm usquè Indenlalo denlibus
triangulanbuB aculis , infenon ad basiñ usque in denies e basi lan-
ceolate subuiatos fisao, fauce barbalft, corolla lubo oalycem paulò
siiperanli

CUnopodium origanifolium Labill. Dec 4 lab 9 (calycis denli-
bus male tnangulanbus exhibilis) —*Micromeria t oriyanifolia* Bib
in Dc. Prodr

Hab. in *Libano* (Labill Peslalozza¹)

Var *velutina* Doiss. et Heldr. — Tota planla velulino-gnsea, fo-
lia minùs nervosa inargme |i| revolula, floralia verticillaslns paulù
breviora, labii mfvnoris calycis denies a basi subulati, corolla pau!
6 longiùs 'eiserla.

Cal glonierulosa BOISB cl Heldr. in pi. Anat eiB 1846 Dc
Prodr XII, pag 13ft

Hab inter lapides deciduos inonlts *Davros Dayh* Pisidis suprâ /«-
barta. Alt 8000' (Heldr). Aug 4846

Candicuh aubterranei elongati corlicosi, caules procumbenles basi
nudi 6-10 pollicares, folia 5-ft lineas longa 3 lala. Verlicillasln 1-9
pollices distantes Tota planta valdè odora Hanc ul speciem pro-
prium primùm babueramus sed note quibus a plantis Libanobcâ dil-
fert nobis non sat graves esse videnkur

C&LAHmHA KIAMMEA BOISB (Sect *CUnopodium*)

Microtneria slaminea Boiss et Hohenacher Diagn pi br N° §.

Hab. in *KurdtotaniA* (Kotschy)

Hsc species quamvis calyce obscure bilabiate donala propler affi-
mlalem cum specie sequenli et *C origanifoliA* ad *Calaminthas*
absque dubio tranaserenda est

CAUHIRTBA VLOHIDA BOISS. (Sect. *CUnopodium*).

C. perennu, caujibus basi nudis corticosia ascendentibus dein
erechs puberulis, folns subBessilibaa ovabs oblusis virescentibus

glandulosi brevisaimé luriulis, verticillastris *i-h* multifloris subsessilibus remolis, folis floralibus oblongis verticillastro brevioribus, bracteolis linearibus acutis calyce triplo brevioribus, calycis birsuli valde glanduloso-punctati subincurvi bilabiati labiis aequalibus superius ad medium usque indentato dentibus triangularibus acutis inferiori ad basin usque in dentes subulatos dimisso, fauce villosa, corolla? tubo calyce sesquialongior, bracteis longis exsertis

Hab. in monte *Tauro Cillito* Kotschy. N° 478.

Affinis speciei precedenti qua? differ! indumento totius plantae brevissimo pruinoso, foliis majoribus, verticillastris paucifloris numero vobus magis appropinquatis et praesertim calycis elongati vix bilabiali dentibus omnibus subulatis rectis nec inferioribus aucte porrectis.

CALAMINTHA PAMPHYLICA BOISS et Heldr. in pi. Anal., exa 1846 et Dc. Prodr. XII, p. 397. (Sect. *Calamintha*).

G. perennis, caulibus prostratis ascendentibusque tenacibus fragile limis basi nudis filiformibus patule THIOSIS, folis petiolatis triangulari-ovalibus basi (rariis subcordatis acutis vel obtuse crenato-dentatis acutis utrinque sed pagina inferiori copiosius griseo-velutinis, cymis subterminalibus ex axillis superioribus ortis pedunculo petiolo subsquamulatis suffultis, bracteis linearibus pedicellos superantibus, calycis tubulosis elongatis parvis hispida obscure bilabiatis dentibus omnibus subaequalibus a basi triangularibus acuminatis, labii inferioris aobrecurvis, corolla; tubo calyce duplo longior, bracteis non exsertis.

Hab. ad rupes calcareas montium Pamphylicae orientalis, regio superior montis *Ghibe* supra *Alaya*. t. Aprili (Heldr.)

Caulis basi filiformis repens deinde erectus fragillimus parce ramosus 3-6 pollicares, folia circiter 4 lineas longa 4-8 lineas lata petiolo eis subaequilongis suffulta, cymae ex axillis supremis oriuntur, calyx *h* lineas, corolla 9 lineas longi. Juxta *Cal grandifloram* collocanda habitu et forma foliorum distinctissima

CALAMINTHA INCAHA Boiss. et Heldr. in Dc. Prodr. XII, p. 150. (Sect. *Calamintha*)

C. perennis lutea pilis albis conspersis brevibus dense albo-tomentosa, caulibus basi procumbentibus deinde induratis deinde ascendentibus

palulè ramoBissimis, folus parvis brevissimè petiolatis orbicularis integerrimiB vel obsoleUssimè subrepandis subluB elevatlm lineato-oervosis, floralibus sensim diimnutis, verhcitlaslns subseiflons sobremotis racemos subsecundos laios longos formantibus, pedicellfs Ineequalibus calyce longionbus folia floralia sequanlibus auperantr busve, calycis breviter hirsuti vix ad terliaru partem bilabiali ner-
•090-striali labio superior! Irdentato patnlo-subrecurvo dentibuu brevissirais tnangulanbus, infenons vix longions dentibus aubincurvis lanceolato-snbulatis, fauce inlâs villosâ, corolla? pubescentis calyce 9 Iji pl& longions labio sopenon roseo emarginato infenori pallido late Inlobo lobis rotundatis

Thymua ineanus Fl. Grasca tab. S77 — *Melissa Cretica* Russell Aleppo ex Benth — *Melissa? incana* Dlh. Labiat

Hab circâ *Mhenas* (Spruner, Heldreich), in *Syria* Hussell ex Blh Canles procumbentes i 1}S pedalea a basi ramosissimi inrernè demAm lignosi cortice lenui pallidè rufeacenti in lacinias secedend obsiti. Folia majora diametro 5-31}S lin lata ea *Origami majoranm* referentia Calyces frachfeii 1 hfi llineas longi Species disUnchssiraa inter aectiones *Calamintham* el *Acinos* sobdobia

GALAHINIBA SPHDNERI BOWS. (Sect. *Calamintha* Bth)

G. perenms, caulibus ascendentibus patolè el longè ramosia albo-hispjdis ramis breviler et adpreaaiuaculè canescendbUB, folds petio' latis canlinn oblongis obtusissimè crenulatis hirsuto-canescenlibus rameiB muH6 minonbos ovaffe vel OTato-spalhnalialia brevisaimè velolino-cinerascenlibus Inlegns, pedunculia 1-8 flons peliolo vix longlopibus, pedicelliB capillaribua catyce brevionbus, calyce brevi fructifero recto tubo cylindrico labii superions deolibns brevissioiis semper rectis e baai ovalâ abruple atlenaatu, Inferiors mullò longioribua aubalatia adpreasinsculè et paraè ciliatis, corolla; carnee hlrtula? (nbo calyce Bubdupl6 longion, acbeniis rotundatis subcompressis

Hab in *GrcBCid* cirâ *Mhenas* unde amiciss Spraner sub nomine *Th. nepeto* mnit.

Caulis procen ramiB lateraiibua sdmipedalibus longioribusque Foliacaulina iB-16 hneas longa 8-9 lata, ramealia mull6 minora Florea et calyces magmtudims eorum G. *Nepeta* cni inter omneB proptus accedlt sed quee differl folus caolmis mull6 minonbus omm-

bus dclloideis, cymis uiuLiflons, dcnlibus calycims supenonbii*
Iriangulan-lanceolata

CALANINTIA SUAVKOLENS BOISS (Seel *Acinon*)

C |>erennis tola indumento inolli palulo densu canescens, radirc hgnosâ muldcipili, caulibus aacendenlibus elongaliB subsimplicibus slnctis Yirgalis suprâ medium flonferis, folus hreviler peliolalis ellipticis vel clhptico-linearibus ngidis nervosis basi attenuabs aculis submucronalis parce et remold denliculatis, flonbus 6-9 breviler pedicellali9 Blncis verticillastra numerosa approximate folia floralia subsuperanlia formantibus, calyce palulê hirsutu basi gibbo recliusculo denlibus labii supenoris el inferiors omnibus aubsequilongis a basi paulû lahuri subulalis reclw lubo quadruplê brevionbus, corolliu roscai liirsutic calyce duplô Iongions lubo suraûm inflalo.

Thy mm maveoleita Sibth Prodr Fl Gracca: I, p HSO. *Cal Patavina* |AT *aeuminata* Uih in DC. Prodr ex parte non Gri9ebacii

Hab in monlibus *Grceciat*, *Parnassus* ad *Arachova* (Sprunerl) *T&yetus* loco *Lakkomata* diclo suprâ *Anavryti* (Heldreich), *Olympus* *Thes&aUce* (Aucher N° 1641).

C *Patavina* cui nostra planla huciaque ul varlelaa relata fuit summoperê diflerl caulibus minûs slnctis dunsque, folus ovalo-subdeltoidcis glabnusculis, vcrlicillastns remolis, calyci9 dcnlibus supenonbus eis labii infenons dupl6 lalioribus nee cis subsiimlibus Des'cnplto Sibthorpu et locus ab eo indicalus optima convemunt. *Aetnos aeuminatun* Fnw en duscnplicne alia species esse vidclur

DQAYST^CHAS Boiss et Heldr

Calyx flonfer breviler campanulatus 40 nervis bilabialis lablo supenon paulô longion mdiviso rotundato ovalo inferior! bipartite denLibns iriangulanbus aculis, fruchfer valdê anclus elongalas ellipticu» ore clausus Corolla lubo exserto exannulalo fauce rix amphot labium supenus paulA brevius breviter bilobum mfenûs tnlobuoi lobis laleralibua plants infenon convexo Stamina duo, filamenta recta parallcla subdislanlia. Anthers vix exsertas biloculares feirum eqninuni referentos lonilis oblongo-linearibas snbincurvis basi tan-

tūm inter se et filamenlo adnalis Stylus bifidus Carpidla oblougo-
Incaria acula. Suffrutex Anatohcus tolus gnseo-tomentosuB gtandu-
losisaimus follis lanceolatis haslalis, verlicillaslns in spicas tongas
terminates approximatis.

Pulchrum singutareque genns pnmâ fronte elsi Bores aunimi sint
folns et habitu *Salviam* referens sed slaminum charactenbus et ab-
senlift connectivi ab efs ut et a lotâ *Monardearum* tnbu dislinclts-
siuium, juxlâ *Perowakiam* et *Meriandram* qus connectivo brevis-
simo gaudent collocandum Calycis forma, stamlnumque dlrectio
quamdaoi affinitatem com Salureineis quoque indicant

DORYSTAGHAS HASTATA Boiss el Heldr in pi Anal exs 1846 DC
Todr XU, p 301

Suffrutex semipedalis vel longior. Caules lignosi nudi cortice gnaeâ
vealili pennâ ansennâ craasiores ascendenles Bibtortuosi auperoè
raoiosi Rami jumores gnseo-tomentosi abbreviati 3-8 pollicares
mfernè foliosi. Folia breviter tomenlella facie superiori-exiine ru-
guloaa griBeo-vireBCBDlia infenon canescentia lanceolate -hastala a
basi lalion ad apicem sensim alien uatu obtusa basi cordata auriculis
divancatis triangulanbiu obtnaiB obtusè denbcnlalo-crenala pellolo
eie 2-3 pl6 breviori aaffulta 11}9<91}S polllces longa basi 8-1B Uoeaa
lata Folia floralia ad verlicillorum basin ommn6 dissimiha sessilla
acutiascula lanceolalo-linearla inlegernma floras infertorea squantia
vel Biiperantia ceteris flonbus breviora Verticillastri 10-18-florl nil-
mero 1B-10 inter se disliocli sed approiimati spicam tenncm cylin-
dncam 1-4 pollicarem terminalcin formanted Dractes nulls. Flores
minimi aretè congesli Bessiles. Calyces pilis albis brevibuB birauli
pnetereâque glandulosissinil flonfen sesquillneam (anlûiu longi cain-
pannlali bilabiah labiis labo vix dapl6 brevionbus superlon lalion
ovalo-rotundato inferiorl vix breviori biparlito lobls inangulanbus
acutis, fauce nudâ. Calyx fructifer accrescens ellipUco-cylindricos
basi aubattenuatus ore labiis commventibus clausus ft-8 hneas longus.
Corolla 9 ijJ lmeas longa glabra puuctis glandulosis valdè asperaa e
BICCO alba vel pallldè carnea calyce dupl6 longior, (ubus breviter ex-
sertus, lablum supenus rectum longiludlnaliter subplcalo-conveium
breviter blfidum lobis rolundatis, labium informs trilobum lobis late-
ralibus ovatis plants inlcrmedio paulò loogion conve&o. Filamenta

ad 9?3 u&que corollas adnata Anherse vix cxaerls locnlis longitudi-
nahter hianlibus bast adnatu csterùm libens sobdivergenli-curvalw
Stylus fndusoft (Adcst forma faeminea vd alenlis cofollis omnibus
stamimbus orbalis slylis exeerhs lubo corollino e calyce non exserlo)
Achema anguata c basi lation altenuata acula lineam longa Spica
fructifera propler calyces elongates am stridè adpressos densa com-
pacla. Tola planla gratiuimè odora

Hab in *LyclA* intenon propè *Almalu* (PcsUtozca), in glareosu ad
nvulos montis *climax* propè *Kourmalu* in *PamphyliA Lycia* fim-
timfl Heldr. Maio IMS

SALVIA KUBIVOLIA Boiss (Sect fluapbace)

S cauhbus basi suffrutescentibus doin herbaceis elongalia procum-
benlibus quadranguhs palulè et longè ut ct petiolli pilia albis spams
hispidis, foliis longè petiolatis vindibus triseclia segmenlis peljolulatis
ovatis oblongisve obtusis obtusè crenalis terminal! daplò majon basi
9spè cordato, infimis minonbus rugalosis ahquandd pmnatis bijugia
segmentis mfenonbus mimniis, omnibus subtùs ad nervos breriter
papillosis glanduloso-punctatis, petiolis et cosl& mediA foliorum infe-
riorum 9inp6 complanalis, foliis floralibus oblongo-laoce'olaUs aculis
mfenonbus petiolos asquantibus, floribus brevissimè pedicellatis in
verticillastra ramosa 4-6 flora dispositis, calyce tubuloso-campanulato
pilis longis albis patulis hispido, prelereà glanduloso-punctato labio
superior! bi Inferorl tndentalo denlibus squilonglB e basi trianglari
subnlalo qrlalatis subpungentibus, corollà cierulescenti calyce dupld
longion.

Hab in nipestnbas umbrosis *Antilibani* circi *Rascheya* et alibi
ubi floret Haio ineunte (Boiss)

Caoles sepè bipedalea, petloli bipollicares, (oliorom segmentum
superins pollicem vel sesquipollicem longum latumque. Calyi 10-1S
tineas corolla sesquipollicem elampliùd longa. AfDnis *S. trichoclada*
et *S. piliferce*; prior differt indumento ramorum auperò subsingogo,
calycis brevis 6-7 lineas tantùm longi labio superiori minutè Inden-
tato; posterior habet ramos tereles glabroB, calycem breviter papil-
losum denlibus brevissiims acutis nec aristatis

SALVIA BENTHANIANA Boias in Dc. Prodr. XII, pag 869. (Sect. *Ewphace*)

S. perennis suffruticosa ramis ascendentibus inferne glabris superne puberulis utrisque, foliis pinnatis circa 1 rarius bijugis segmenta videntibus minute puberulis elevato-nervosa rugosulae terminata multo majori oblonga vel obovata denticulate longe cuneata pinnulata lateralibus linearibus, petiolo longe ciliato basi dilatato, verticillatis 4-6 floris in racemum densiusculum approximatis, foliis floralibus oblongis acuminatis inferius calyces sperantibus superioribus brevibus subcoloratis, calycibus rubellis nervosi breviter hirtoglandulosi labiis squilongis sopenon aculi indentato dense medio minimo, inferius dentibus lanceolatis acuminatis, corollam flavescenti calyce vix duplo longior

S. Kotachyi Bth. mas non Boise. Diagn VII.

Habitat in Tauro Cilicia (Kolschy N^o 457) et Tauro Isaurico in collibus ad meridiem versus Karaman aiba (Heldr.)

Habitat in 1-1 pedales, segmentum superius foliorum 9-1 pollices longum. Racemas 1-4 pollicares densiusculas quae nola soli *S. »suffruticosa* H. et A. foliis caeterum diversis affinis est

SALVIA PISIDICA Boias et Heldr. in pi. Anat. e u. 1846. DC Prodr XII. p. 160 (Sect. *Ewphace*)

S. perennis suffruticosa ramis basi prostratis radicanibus deinde ascendentibus patule hirtis, foliis dissectis rariis infimo altero parvo pinnatis bilugis, segmenta sessilibus longe oblongo-cuneata lanceolatisve apice crenato-dentatis lateralibus angustioribus omnibus omnino pube brevi subtota copiosioribus canescentibus, pedicellis foliis aequilongis basi dilatatis longe ciliatis, verticillatis 3-5 floris distinctis in racemum laxiusculum dispositis, foliis floralibus ovalis acuminatis calyce bracteolatis, inflorescentia glandulosa, calycibus campanulatis praeter glandulositatem setoso-hirtis Derris labio superiori paulatim breviori indentato dentibus intermedio minimo, inferioribus lanceolatis acuminatis, corolla violaceo calyce duplo longiori.

Habitat in collibus tephaceis Pisidice prope Bouldour (Heldr) Fl Maio

Rami semipedales, segmentum superius folii vix pollicem longum, verticillas in fasciculum 5-follicarem approximati. Calyx et floras magnitudinis eorum *S. incarnate*. Foliorum forma et cilius *S. Denhamiae* affinis sed segmenta minora vix inter se inaequalia et inflorescentia diversissima. Affinis quoque *S. Cedronelloe* ramis virgatis glaberrime foliorum calycibusque distinctis; accipi ex Lycia prope Elmala a cl. Dr. Pesllozza formam pumilam folds S-3-plò minoribus

SALVIA POTEMILLIFOLIA BOISS. in Heldr. in pi. Anat. exs. 1846 DC
Prod. XII p. 370 (Sect. *Eusphace*)

S. perennis suffruticosa, ramis ascendentibus superne brevissimè puberulis, foliis trisectis segmentis sessilibus Boblo Dgo-caneatis superne denticulatis unquam adpressè incanis subaequalibus vel intermedio paulo majori, petiolo basi dilatato parvo et longè setosissimo verticillatis stris bifloris remotis in racemum laxum dispositis, folia floralibus oblongo linearibus pedicellos florum non superantibus, calycis glandulosissimi nervosi labio supero paululum breviter indentato dente intermedio minimo, inferius dentibus lanceolatis acuminatis, corollam violaceam calyce triplo longior.

Hab. in valle aspeluncarum - dicta *Tavri laauriei* supra *Brmenek* (Heldr. Junio 1848).

Rami semipedales, folia eis *S. Ptoicce* similia segmento medio 3-4 lineas longo. Floras inter affines maxime 18 lineas longi eos *S. Candelabri* vel *rinyentis* aequantes

SALVIA RASCHEVANA DOISS. in pi. Syr. 1848 (Sect. *Hymenosphace*)

S. basi suffrutescens ramis humilibus erectis inferne villosulo-viscidis parte infera glabrescentibus, foliis parvis pinnatis unguibus tenuiter rugulosis rindibus breviter pubescentibus petiolo viscido suffultis, seguenlis lateralibus minutissimis oblongis sessilibus terminali oblongo basi rotundato omnibus crenulatis, floras in verticillata Bub Bexflora remotiuscula dispositis breviter pedicellatis, foliis floralibus ovatis vel oblongis minimis, calyce pilis sparsis apice glandulosis obsito post anthesis subaccreto aevoso-reliculato oimbratissimo breviter bilabiali labio supero rotundato minusimè 3-8

dentibulalo inferon pauld brevion trilobo lobis ovalis mucronulatis, corollae caeruleo-virescentis calyce seftquilongions tubo breviter exserto, limbo parvo

Hab. in *Antilibano* suprâ *Bascliya* Legi Halo ineunte.

Semipedatis, folio rum segmentum superius vix pollicare, calyx fructifer 7 lineas longos. Racemus verticillastria 8-7 comitans Species transitom inter *Euaphaeas* et *Uymenosphaeas* prorsens, inter utramque electionem media

SALVIA INAKDI BOISS (Sect *Bymenoaphace*)

S basi sulfrutescens multicaulis, caulis erectus subsimplicibus parte foliosa brevissima lumenclis floriferâ glabris, foliis petiolo eis equilongo suffultis parvis utrinquè sed sublimis copiosius pilis brevibus stellatis canescentibus vel cernis teouiter rugulosis ovali vel oblongis* obtusis basi cordatis leniter crenulatis, foliis inferioribus saepe segregatis hinc parvis sessilibus oblongis auclis, floribus inferioribus oblongo spatulatis basi attenuatis apice denticulatis verticillis asquantibus cernis brevibus albo-inembraceis, floribus in verticillata subsexflora dispositis breviter pedicellatis, calycis albo-papyracei glabri fructiferi labio supero non labor! pauloque longiori obsolete et obtuse repando-lobato inferiori ad medium usque bilobo lobis ovatis obtusis saepe mucronulatis utroque rebulato-venoso, corollis intensè caeruleis calyce vix longioris limbo minuto.

*

Hab. in *AntiUbano* inter *Rascheya* et *Domascum*. Ifigi Naio 1846

Hæc species quam penitus ut *S. cryptantha* habueram ab eâ eere differ! caulibus procerioribus saepe pedalis, foliis crassius rugosis saepe pinnatis segmento supero lalio basi profundius cordato, verticillis omnibus distantibus nee in spicam confluentibus, calyce glabro nee ad nervos scabro vel pilis sparsis hirsute, corollâ caeruleo-violaceâ nee albidâ. *S. molucella* clypeata violacea, corollis longe exsertis, etc., nihi differt.

SALVIA XANTHOCELE BOISS. in Kotachy pi exa Pen bor. 1846 DC Prodr. XII p. 98t (Sect. *Atkiopis*).

8. tota patula glanduloso-pilosa, caule herbaceo humili erecto, foliis ovatis basi subcordatis acutiusculè lobato-dentatis utrinquè ad-

presse Janata mfenoribus peliolalis, cauhs sessilibus, floralibus ro-
lundato-ovatis breviter acumtatis submeibranaceis calyce paul6
brevionbus, verlicillastns 6-8 flons distinctis in pamculam brevera
pyramidatam dispositis, calycis campanulad longd pilost bilabiah den-
Ubus ommbus latis tmngularibus breviter anatis intermedio labu
saperiona brevion, corolla; calice dnpl6 longlons labio aupenon
elongate parum incurvo

Hab. in rupestribus montisEfbruaPeratoboreahs propè *Passgala*
(Kotsch. N° 128), in provinciã *Jderbidjan* (Aucher N° B91H)

Planta 7-10 pollicans, folia radicalia 1;4-J pollices longa petiolo
eis aequilongo vel loogiori suffulta, cauhs J-4, panfculs rami J-5
pollicares Flores magnitudims eorum *S. verboscifblift*. GorolUe la-
bium supenus e cl Kotschy sulphureum infenus albam. Affiou ba-
bitu et formã fohorum *S. friyida* a quã differt floribus plus dupl6
raajonbus, calycis dentibus brevibus dilatatis

SALVIA ~~Passgala~~ ~~Polito~~ ~~LITANA~~ BOISS (Sect. *ASthiopis*)

S. caule humili pyramidato-paniculato ut et petioli papillis patulw
albls glaadulisque pedicellatis Intermulis bmuto, follla radlcalibus
petiolo eis longion suCFultis ovati9 oblongisve basi rotundatia vel sub-
cordatis eroBO-dentatis obtu9is rugulosis vel Isevibus ad nervos paroi
papilloso, cauhs iq/erioribussessilibos, braceis membranaceis al-
bovirenhbus cucallatia ovato-rotyndis breviter acuminatis calyces
cquantibus margine uliatulis, floribus brevissimè pedicellatis in ver-
ticillastra ft-fl flora subcontigua disposita, calycw brenter campa-
nulato longltudim aus aequilato parcusimèpapilloso ad nervos glaa-
duloso vix ultra terliam parlem bilabialo labns seqailongis superior!
minute tndentato dentibus triangulanbus anslalahs quorum iiiieler-
mediiis brevior, lablo mfenori ad basim usquè bipartite labfia trian-
gulanbus mucronatis, corollas lilacins calyce sesquilonions tabo
breviter exserlo

S. Reuteriana in Kotschy pi Pen. Austr et DC Prodr ex parte
non Boiss

Hab. ad rapes propè ruinas *Penepolto* Kotschy N° 979, circa Ja-
pahan Aucher N° 5315

Planla odorem suarrcaimum spirans, a me ipso primum cam smili
S. Reuteriand confusa, scd base (cojus typusesl Aucher N'MOBIlongè

differt calycia tubo long* tubuloflo-campanulato 10-11 lineas nec 6 lineas longo. labiis angustè lanoeolatis brevissimè truncatibus S. *Persepolitana* magis affinis est S. *sclarea* aed ab eâ optimè distinguitur Tertiallaena densis, calycia dentibus non longè apicatis; inter affines corollâ lilacinâ et calyce nquilato ac longo insignis est.

SALVIA HIEROSOLYMITANA* Boiss. (Sect. *Psithiosphace*)

S caule quadrangulo rubello papillis brevissimis apertis spinuliformibus retrorsis ad angulosa asperulo ceterum glabro auperne paniculato-pyramidato, foliis radicalibus petiolo adpresso subpapilloso eia longioribus rugulosis utrinquè parvè aculeolatis papillosis ovatis obtusis basi cordatis grosse lobatis lobis irregularibus rotundatis crenulatis, caulibus submissis minutis sessilibus aculeis, floralibus miculosis ovalo oblongis aculeis pedicellis florum rariis auperantibus, floribus in verticillatis subseifloris distantibus numerois diapaicitis. calycibus brevissimis pedicellatis campanulatis glauduifena nigro-nervis apice marginatis labio superiori in tres dentes minutis subulatis recurvis fissis, inferioribus lobis triangularibus acetico-acuminatis, corollae alborubentis tubo e calyce exserto labio auperiori elongato incurvo glanduloso-puberulo, ataminibus eiaertis

Hab. in rupebus & frigidis circa Hierosolimam frequenter (Boiss.)

Fl. Apr. \

Folia 5 pollicea circiter longa 1-1 1/2 pollicea longa angustata Galyi ft 1/9 lineas longa. Corolla pollicana Habitus ora Dioo et magnitudo florum S. *pratensis* a qua differt folia latoribus rugulosis lobis longis pedicellatis, calycibus longis arboribus, colore corollae, labio auperiori incurvo nec ralde falcato. S. *virgata* floribus distinctis minoribus hisque nolis longis dialat

SALVIA JUDAICA Boiss. (Sect. *Hemiphysa*)

S. tota indumento papilla brevissima aperta conatim asperula, caulibus quadrangulis auperne paniculato-ramosis ramis elongatis Btricella, foliis antrâ nullis sabulis ob nervosa elevato acabrudoalbo reliculato-rugosis radicalibus petiolatis ambitu oblongis lyrato-pinnatis lobis inferioribus oblongis ovatis usve basi confluentibus (terminalibus ovatis omnibus obtusis crenatis, caulibus aculeis Hbna basi cordatis ovatis ralde rugulosis, bracteis membranaceis ru-

bellis oblongis acuminatis pedicellos vix superantibus, verticillas 6-13 floris, pedicellis brevibus deflexis, calycibus breviter papillari-scabris vix ad terliam partem bilabiatis labio superior! tndenlato denlibus lalrralibiis iriangulanbus aculis intermedio minulo ovalo rolundato inulico, labio inferiori acutè trilobis anstatis, corollae calyce aequilongioris tubo incluso

Hab in montibus circa *Hierosolymam* (Boiss) Fl. Aprili.

Sesquipedalis, folia radicata cum petiolo h It lineas longa, segmentum terminate sesquipollicare Flores magnitudinis eorum *S nepifolice* a qua differt pte et caulibus non pns palulis sed papillis oculo nudo non perspicuis scabridis, foliis pffisertim superioribus valde reticulato-nervosis rugulosis, calycibus scabris nec hirtia, foliorum segmento superiorum alns noa multoties majori basi vut cordato. *S Peloponnesiaca* foliorum formam melius congruens differt indumento longo adpresso verticillastrisque multifloris

Obs. Planta in Heldr. p). exs Cret sub *S calicina* distribute eat a *pomifera* foliis oblongo-lanceolatis margine undulatis floribusque majonibus, etc , distinctissima

S. Shielii Boiss. Diagn V. ex el Benth in DC. Prodr. XII, p. 971 a *S hydrangea* DC apecificè non differt.

NEPETA LEUCOSIEGIA Boiss et Heldr. (Sect *Pycnonepeta* BUI)

N pube brevissimè adpressissimam palverulenam plus minusve c&neacens, caulibus numerosis ascendentibus simplicibus vel inferè ramulosis, foliis petiolatis ovato-oblongis basi valde cordatae obtusiusculis rotundato-crenatis auriculis rotundatis, verticillatis parvis densissimis submultifloris omnibus distinctis later se distantibus racemum longum formantibus, bracteis oblongo-linearibus acuminatis toinentibus calyces subaequantibus secus lineam dorsalem pallide virentibus caeterum albo-membranaceis, calycis brevissimè tomentelli ore squali denlibus reclis anstatis, corollam palidam calyce duplo longiori, carpibus tuberculatis

JV *Sibthorpii* Benli in DC. Prodr ex parte.

Hab. in rupestribus *Pisidia* propè *Egirdir* et *Bouldour* (Heldr.), n^o *Tauro CilieUs* Kolschy N^o 4SB

A N *Sibthorpii* Bib c tirociam meo sensu optimè distincta indumento multo breviori puberulento, foliis brevioribus 9-10 lineis tin-

Ultim longisimipnms verticillasria minoribus magis corapactis omnibus mler se dishnclis nee confluenkbus, braceis fert dimidi6 minoribus nee lungè anstatis, corolla tubo longiùs exserto.

NEPETA ISMIRICA BOISS fit Heldr in DC. Prodr XII, p. 378. (Sect Pycnonepeto)

N. rhizomate sublignoso, caulibus numerosissimis csspitosi inln-catis aBcendenfabas brevibus fragihbus, foliis pan is trfangulan-ovatis basi truncato-subcordatis crenatis oblusiusculis ulnnquè brevissimè pulverulento-tomentellfs canescentibus subluis rugulosis, vertICI lias-tns nulliOoris in spicam ovalam basi inerruptam termmalem ap-proiimatis, braceis angustè lineanbus acutis rlgidis catyce TU bre-vionbiùB, calycis hirsniI ove vix oliliqul dcnlibns lanceolafis acuha tubo lequilonis, corollâ calyce«ubdupld longiorl, achemis tubercu-lalis.

Hab in saxosis *Taari Isaurici* in monte *Gheidagh* (Heldreich)

Gsspites Intncati e caulibus slenlibus folioais brevissioiis allisqoe vetustis exsfecatis conatantes Caules flonfen 3-» pollicares. Folia 4-tt hneas tantum longa. Spica lerminalis ifS-11]9 pollicans verti-cillasro inferior! saepè subdistanh. AfOnis formis nonnullis *N.Ita-liee* a quâ differt staturâ minimA. verticillaslms in spicam brerem cmmfluenlibus

NKPCTA SCOBODONIA Bblss el Heldr (Sect. *Pymonepeta*)

N. tola brevissimè velulma pulverulento-cana basi suffrulescena, caulibus ascendentibus, loins minulis peliolatis oblongis obtusis basi cordatis rotundato-crenalis, Qoralibus aculiusculis mfenonbus verti-cillos eqnanhbus supenonbus minutissimis, verticillaslms parvis denslsaimis aubsesailibus remolia supernè snbconliguis racemum ter-minalem laxum formantibas, bracteis angustè lineanbus tubo calyci-no brerionbus, calycis albotomentelli ore viz obliquo dentibas reclis ffiqoalibos anguste lanceolalis tubo sabbrevioribus densè ciliatis, co-rollâ calyce dupld longion, semimbus Inbercnlahs.

Hab. in saiosis *Tauri Isauriet* in monte *Gheidagh* suprâ *Alaya* alt 1000' obi earn cl. Heldr. cum *V. Isaurica* mizlam legit.

Caules ferè pedales, folia majora 8 linear longa A lata Yertiallas-tri 8-0 avellanâ minores racemosS-t polHces longos formantes, calyi

vix ultrâ 9 lineas longus. A *N. IlalicA* cut affinis est differt foliis minoribus, indumento pulverolento cano, calycis saltern dimidiomons denibus reclusis angustioribus bracteisque abbreviate nee latè albomarginatis

NEPETA ANDBICA BOISS et Heldr. in *Dc Prodr.* XII, p. 389 (Sect *Macronepeta*)

N. caulis elatus quadrangulis simplicibus glabra, foliis utrinque videntibus subglabris omnibus breviter petiolatis ovatis vel ovato-oblongis cordatis utrinque grosse crenatis crems inferiorum rotundatis superiorum aculeis, verticillis paucifloris breviter pedunculatis distinctis in racemum brevem laevissimum terminalem approximatis, bracteis setaceis pedicello florum vti superanlibus, calycis breviter pruinoso-papillans ore obliquo, dentibus triangulari-lanceolatis acuminatis, corollae calyce triplo longior, acheniis siccis.

Hab in cacumibus montis *Gheidagh Tauri Jsaurici* (moote *Andrieo* veterum) alt. 6000¹ cum *N. concolor* muta.

Caulis 1-1 1/3 pedales, folia eis *AT concoloris* aequalia sed minoria magis elongata Verticillatis 5-8 in racemum 5-5 pollicarem approximati. Corolla pollicans. A. *N. concolor* corollae longior, racemo abbreviate staminibus dignoscenda, valde affinis *N. pycnantho* Bth. e Tauro Cihche onulmae a qua verticillata pauciflora, acheniis ubivisa nee luberculatis differt

NEPETA CILIGM Bolss in *Dc Prodr* 111, p. 388 (Sect. *Macronepeta*)

N. caulis elatus quadrangulus simplicibus pubescentibus, foliis utrinque puberulis ovatis petiolatis cordatis obtusis obtusis et grosse crenatis, verticillatis paucis paucifloris subsessilibus racemum brevem terminalem formantibus supremis confluentibus, bracteis aetaceis hispidis calyce multo brevioribus, calycis dense papilloso-breviter ovato valde obliqui dentibus breviter triangularibus acatis, corollae calyce quadruplo longior, acheniis (nuberculatis).

Hab In *Tauro Cilicio* Kotschy pi. e u. N° 460 ex parte (mula com *N. pycnantho* Bth), in *Libano* super Cedroa et in caemine *Hermionis* (Bolss.)

Pedalis, folia cis speciei priEcedentis similia, racemi 2*3 pollicares, corolla pollicans et ullrft *N p^cnanthce* qu&cum crescit smillima tamen dignoscitur verticillaslns H-8 flons nee mullifloris et praesertim calyce papillis mult6 longionibus et densionhus obsilo denlibus breviter triangularibus nee lanceoiatis acuminatis, corolla, proporbone calycis tertiã parte longion Atlamen ultenûs in locis nalalibus comparanda

NEPETA PISIDICA BOISS etHeldr (Sect *Macronepeta*)

N. perenms, canlibus basi decumbenlibns fruiicnlosis dem ascendentibus qaadrangulis sub lente retrorsum scabndulis basi foliosia supernd denudalis, folna parvis petiolatis vindibus sub lenle papillis brevissimis nirlulis basi truncatis vel subcordalis oblongis oblusis oblusiuBculè crenalis, verticillastrls 3-5 pauciflons breviter pedunculate Inter Be dislantibus, folus floralibus olilongis vel lioeanbus acutis peduncalos vix aequantibus, bracteis aetaceis mlnimis. calycis violacei breriter papillosi glandulosique ore obliqao denibus breviter triangulan-lanceolahs, eorolla calyce tripl6 longlori, acheniis tuberculatis.

Hab in saiosis montis *Boudroun Pisidim* (Heldr). Alt. 8000'

Caulis pedalea, folia majora 7-8 lineas longa basi 6 lineas lata, verticillaslrl 3-6 flon. Calyx h linas longus, corolla ccrulea ferè pollicans. AffiniB *If. pycnanthcB* et *Cilicia* a quibus differt folus Inpl6 minonbus basi non profundè cordatis, caulibus tenuionibus, verticillastns paucifloñs, bracteolis minutissimis

NEPETA COCOLOH Boiss et Heldr in pi Anat exs 1846 el DC Prodr 386 (Sect *Cataria*).

N. caulibus elalis quadrangulis glabris preter ramalum floralem unum alterutruoiTe simplicibus, foliis ulnnquè viridibus concolonibus glabris vix sobtûs lente parcè papillari-hirtiB breviter petiolatis BoperionbuB sessilibus omnibus ovatts basi cordatis grossè etobtusus creato-lobatift, Terticillastris paaciQons brevller peduncalatis racemum elongatum formanlibus inferionbas remotissimis supremis confluentibuB, bracteis setaeis calyce multo brevionibus, calycis bireuti casraleacentia ore obliquo denllibus a basi tnangularl lanceolalo-acu-

inflatw, corollia calyce duplò longionbiis faucc inflata, acbeoia magna Isevibus.

Halt, in rupestribus *Tauri Isaurici* in cacumme occidentali monti *Gheidagh* (Hcldr) Fl Julio

Caulcs 1 lf3-9 pedales, folia inferiora ferè bipollicana pollicem et ampliùs lala crenis utnnquè 8-10 Racemi scmipedales ef ultrâ, corolla ferè sex lineas longa Folia et liabilus *N*, *longiflorce*, *maerasiphonia* el *pycnantlue* a quibus corolla niultft minùs exsertâ differt Propè *M. grandifloram* collocanda qua? differ! folus oblongis, verticillalris longè pedunculalis, racemis abbreviatis conferlis, calyce velutino, etc Forsan meliùs inter *Macronepelas* propè IV *lamiifo-Ham* collocanda

NEPETA PERSICA DOISS (Sect *Macronepeta*)

N lota vindis molliter lursuta valdc viscida, caulibos quadrangulis reclis foliosis infernè saspè ramosfs, folus ovato-rotundis obtusissimis baai cordatis utnnquè 8-9 crenis rolundallB instructis mfimis petiolo leqmlongo suffullis superionbua suhsessihbus, floralibus infenoribus verticillos ffiquandbus supremis oblongo-lineanbus brevissimis, verticillastris molliQons densia brevissimfe pedunculatis infenonbas subdislantibus caetens contiguis racemos laxos parùm elongatos forman- tibus, bracteis lineari-oblongis pedicellos TIX superantibns, calycia valdè viscidi lurluli oblongi recti ore vix obliquo dentibus breviter lanceolalis rectls acutiussculis tubo brevionbus, corolls calyce *Hft* pl6 longionB tubo inenrvo ferè ad mediam partem usquè exserto, achcmis luberculatis

Hab m *PersiA* australi ad *Schtraz* et *Pcrsepoltn* Kotschy pi exs. Pere austr. N° 908, 308 et 404, in *PenM*, boreall Kotschy pi. Pers. bor., M2B8, in monte Elbrus propè *Derbent*, In *PenUk* loco non notatoAucher N°B137.

Hucusque bane plantam pro formâ *N. aepstemrenatm* Ebramb. babui qaâcum characteres communes habet sed a quâ notls graviorfibus certè differl. Indumentum longius, foliorum crens multò numerosiores. Racemi breves verticillastns muHifloris nee longi tenuea ngiduh verticillastrls paociflons. Calyces *N. soptemermata* cyllndnci sont fructiferi tres lineas longi subinenrvi ore obliqui dentibus subrecurvis, in *N Penietk* aulem vix S 4)9 lineas longi oblongi recti denlibus rectissimis

NBPKTA HARHUBIOIDES Boiss et Heldr. in pi Anal cxs IB4G ul DC Prodr XII, p. 387 (Sect. *Orlhonepeta*)

N tola molhter velulina caneseens, caulibus basi ascendenhbus ramosis elalis, foliis sesailibas ovatis cordalis oblusis oblusiusculè crenalia, verlicillaslns mullifloris numerosis sessilibus ommhas distineds intenonbus remolis in racemum longum disposiUs, bracteis selaceis hirsutis calyce brevlorlbus, calycis pihs albis hirauli ore recto denlibus slnclu anguslè linean-setaceis fubiin leqoanlibus aculis, corollee albidas tubo calyce brevion, achenus apice lobcircularis

Hab in regione inferiori montis *Karadagh Lycaonice* suprà ruinas urbis *Larenda* (Heldr) Junto floret

Caulis validi 1-1 ijs pedales raraosi, folia inferora sspe bipollicana Besquipolhccin lata Verticillastn numero 6-19. Corolla circiter 3 lineas longa AfGim JV *nnda* L. a cujus vanelatibus diSert induinenlo velutmo molli, folns niajonbuB lationbua ovatis nee oblongis, dentibus calycis angaBlioribus labo corohino langionbufi

Obs. i. *Nepeta erodiifolia* Boiss Diagn. V, est *Lollemantia Royleana* Bib. in DC. Prodr

Obs. I! *Melissa teuertotdes* Boiss. Diagn VII *Nepetis* adnumeranda est et est JV. *lasiocephala* Btb. in DC Prodr

Obs. III. *Sestinia* Boiss Diagn V, ex cl Btb. in DC. Prodr eadein est cum *Hymenocratere* P. M. et idèò *Sestinia calydna* Boiss *Hymenocrater catycinus* Bentli. in DC Prodr nuncupanda

SGUTBLUUA GLBCHOMOIDES Boiss III Kolscliy pi Pers bor 1846 et DC Prodr XII, p. 48< (Seel *Slachymacris*)

Sc. perenms caulibus parte mfenon filiformibus nudis longè repentibus aubterraneis parte foliosA incrassatis brevibus viscido-hirsulis, folns petiolalis ovato-rotundw basi rotundalis obluae crenatis obtusis utrinquoè adressè hirtovisddis sublùs nervis albis elevatis percursis rugulosiB, racemo terminali ovato W flora, bracteis mgncantibus oblongis obtusis villosis calyce flonfero quadrupl6 longionbus, corolùB violacea tubo loogè esserto calyce multolies longion

Hab. in alpidos *Persia borealis*, mons *Elamonl* Auclier N° B188, mons *TototKal* propè Teheran ad loeom *Derja-i-jach* Kolscli pi Pers bor. N« 868.

Caudicuh sublerranei reptans 4-6 pollicea longi parte eilenon foliosâ vix pollicari 2-4 paria approximata foliorum ferentes, folia 4-6 lineas longa 5-8 lala Bracteae et calyces folia superiora non superantes Corolla: longè exserta; subpollicares Species distinctissima nulli affinis

TAPEINANTHUS ITOISS

Calyx campanulatus obscure 10 nervis ore obliquus obscure bilabiatifere dentibus 9 subaequalibus 9 breviter triangulatis acutis duobus superioribus aliquantulum brevioribus; calyx fructifer paululum auctus squamis fauce nudus Corolla? lobus longè exsertus exannulatus fauce vix et sensim amplatus, limbus parvus bilabiatus labiis aequibus superior lanceolato-linearibus subplano apice breviter bifido, labio inferiori (nullo lobis planis lateralibus (nangalari-otatis intermedio) longe oblongo integro. Stamina quatuor fertilia, filamenta recta parallela breviter sub labio superioris approximata Inferiora paulo longiora. Antherae biloculares loculis connatis subumbraculatis oblongis filamentis dorso medio inter loculos affixis. Stylus bifidus Nuncius oblongus facie interna subcannabae basi subangustate. Herba Peruviana, annua, nana, odore ingrato, caule simplici, floribus axillaribus solitariis breviter pedunculatis — Genus inflorescentia simplicissima notabile habitu et calycibus Odontem podum quam Labialium referens, quoad affinitatem subdubium. Propter stamina inter se approximata sub labio superioris parallela in tribu *Stachydearum* et subtribu *Marrubiearum* esse militare aulam, ceterum nulli generi subtribus propius affine. Nomen ex. *Tournefortii*, *humilis*, *onundum*

TAPEINANTHUS PERUVIANUS BOISS in Kotsch. pi. Pers bor 1846. DC. Prodr. XII, p. 486.

Plantula annua tota pube brevissima glandulosa viscidula sordide virens Radix simplex filiformis Caulis pollicans simplex. Folia lanceolata vel oblongo-lanceolata basi in petiolum breviter attenuate apice angustata obtusa Integra vel parte superioris irregulariter et obsolete denticulata uninnervia 6-10 lineas longa 9-13 lata, superiora

sensim angustiora et minora Flores bini oppositi in omnibus axillis foliis superati pedunculo calyce breviori suffulti Calyx breviter et densè papilloso-viscidus longior angustior 3 in 3 lineas longus ore obliquè truncatus obscure bilabialis Denies bini superiores inter se fissurà minus profundà separati quum denies ceteri, sublongiores, omnes breviter triangularibus sexlobo breviores Calyx fructifer dilatatus saccatus tres lineas longus 1 in 1 latus regulana apertus denibus inter se aequalibus latioribus tubo lanugine triplo brevioribus. Corolla (ex cl. Kotschy) alba rosco marginata circ. 6 lineas longa; tabus rectos calyce duplo longior; labium superius exsertum sesquilineam longum subconcavo-planusculum apice (runcatum rotundato-bilobum; inferius porrectum Inlobuoi Filamenta paulò infra faucem inserta. Anthera et stylus ad basin labii superius faucem non auperantes Acbenia pro plants minutie magna ferè sesquilineam longa calycem impertentia oblonga compressa ovone mulua subtriangula latere interiori carinata basi attenuata superne obtusa levia

Hab. in arenosis *PeAite* propè *Teheran* Kotschy in Pers. bor NM8.FI Aphn.

SIDEUTIS HOLOBUCA Boiss. tit Heldr in Anat. exs. 1846. DC Prodr. XII, p. 438 (Sect. *Empedoclea*)

S. tola densissimè et adpressissima pannosa mvea bast suffirutescens, caulibus superius tricbotomè corymboso-paniculatis, foliis subrotundo-ovalis minutè et obsolete crenulatis basi rotundatis inferius peliolo eis aequilongo superius brevissimo subsultis, verticillatis sohtaribus vel bimis capitulis terminalibus globosis parvis fonnantibus, foliis floribus connatis urceolum breviter truncatum obsolete et obtusè bicarinatum calycibus dimidiò brevioribus fornanlibus, calyce niveo denibus brevissimis (triangularibus oblatis, corolla) extus paucis lobis brevissimè exserto limbo minimo labiis equilongis

Hab. in rupibus calidissimis in *Djoksu Taurisaurid* in *Karaman* et *Ermenek* alt. arc. 3000' Jun. 1848 (Heldr.)

Caules pedales inferne ramis inferioribus strobilosis. Polia diametro (MS lineas lata longaque, rami longioribus bis vel tricholomi capitulo terminali supreme breviter pedunculato, capitula nuce avellanà minora, calyces tres lineas longi Species distinctissima

SIDERITIS LYUA IIUISS el lholdi in pi Anal exs I8ftb DC Prodr
 \11, p W8 (Sect *Einpedoclea*)

S auffruloscens caulibus ascondenlibus basi ramosia, ramis erectis simplicibus clavis leiunbus informè densè foliosis, foliis mveo-pannatis purvis spalhulalis obtusis basi breviter in petiolum allenualis, axillis gcinifcris, Cois cduluus supenonbus reraolis lanceolalis aculovirescentibus, Qoralibus canaliculalis rigidis nervosis oblongo-lanceolalis acuniialo-spinosis subrecurvis flunbus dnplò lungionbUB, verlicillastris remotis, calycis slncle tubulosi basi densft albo-lanati Bupernè virescentis denlibus lanceolatis aculis inulicis lubo paulò brevionbus, corolla; lubo nicluso, limbi labus tequilQiigis inferioris lobo interuicdio dupl6 lation

[lab in saxosis *Lycice* suprà porlum *Tcherali* (lheldr) Fl Haio.

Species pulchra foliis S *sericeam* Ven referens Gaules 1-1 1|S pedales, folia secùs partem infenorem raraorum copiosa 6-7 hneas longa apice 4-8 lineas lala, floralia palula rrecurva dura longiora VerticiUastn 1-9 pollices inter se dislantes in racemos laxissimoB 6-9 poUicares disposili. Calyces basi lanlùm bracteis occullali tubulosi 4 hneas longi Ab omnibus afGmbus foliorum indole et calycibus slnctis divcrsa

SIDBHTIS EHYTHANTIA Boiss. el Heldr in pi Anat eis 1846 DC Prodr XII, p 458 (Sect *Empedoeha*)

S tola adpressè gnseo lanala basi suffrutescens, caulibus basi ramosis ascendenlibus, ranus virgalis erectis supernd slnctè ramulosis cams, foliis ulnnquè rugosis viresconti-griBeis oblongia obscurè denticulalis infimis breviter peliolatis obtusiusculis estens subsesBilibus acutiusoulis, floralibns brevilor ovatu obtusè acummalis calyce brevtonbus, verlicdlaslms panciOoris remotis racemos laxoformantibus, calycis gnseo-lanati breviter campanulali denlibus triangularibus aculis tulto brevionbus, curoUae intensè porpares extùs griseolomenlosffi tubo breviter enserlo, lunbi parvi labio supenon pauld longion acute bifido, infcnons trilobi lobo inlermedio alns longion ladonque

Hab. in rupibus *Tann Pamphylis* inter *Maria* et *AdaUa* alt. rfrctOUO' (Heldr) Fl Julio

Planta milliraulis i-t *Iji* pedalis Folia pollicaria vel longiora fl-7 lineas lata Verticillasn parvi numero 0-7, inferiores pollicem inter se ssp6 remoli Gal}i Ires lineas tantum longus. Species polehra verticillorum parvitate 5 *Sipyleam* rcfrens sed ab ea abandc distincta (bins ragnosis ovalis nee lanceolata, verdcillastns remotis, corolla subexserts colore, etc.

Sinrams GOMBOCATA BOISS et Heldr in pi. Anat eis 1846 DC Prodr XII p. 459 (Seel fimperfodea)

S. tola lanagnsea adpiwsa. rara demAro secedenti araneosasordide vireiu, cauliboa erectis elalis aupcrne parc6 ramosis, fohiB ngidfs oblongo-lanepolaln acute serrulabs saepe margine subspinuloaia Agosis mfiDiB breviter peliolalis oblusiuflCQliBj caulinn sessilibus acutie, floralibus cordato-Bubroluodis loiiqe ciliatia integrB abrupte et tenuiter acuminalis flores squanlibus vel vn superantibuB, verllcillastrn paaciQons in racemos densos oblongos compactoa condennatia, calycis dense hireuh ad tertiam partem nsqud viz fisBi dentibus triangularibus aculls, corolle lubo IDCISO, hmbi miDimi labiis aequalibus, Inferioris lobo Intermedio laliori crenulalo

Hab in *Tauro PamphyliCB* inter *Maria* et *Adalia* in frulicelis alt. circ. 1000' (Heldr.) Fl Julio

Gaules Bubbipedalea. Folia majora 1 i]3-3 pollicaria tt-7 lineas lata. Racemi compacl 1-9 pollicares in eaule solitani vel S-3 ranus quini Calyx 4 lineas longus. Species verticillastna pauciflons in Bpicas breves condensatis, calyce breviter dentato distincta

SIDDITH TADBIGA MB var *proctmbens* Boiss. et Heldr

Tola lana gnsea araneosa vestlta. Gaules bast procumbentes. verticillastris In spicas lermlnals basl ioterruplaa eondensali.

S *eondensata* p. *procumbent* B. et H. In DC. Prodr XII p. 439

Hab in *Tauro Pamphylico* infra *Maria* alt 4000' (Heldr)

Hsc planta olterlua comparata ad 5. *Taurieam* nee ad *S. condn-satam* referenda eat et a typo apiciel caulibus procumbentibus, verticillastris magis condensatis differt.

SIDERITIS PISIDICA Boiss. et Heldr. in pi Anal. exs. 1846 DC Prodr XII p. 440 (Sect. *Empedoclea*)

S. basi suffruticulosa millicaulis, caulis basi ascendens erectus superne praevalens longeque palule hirsutus, folia adpressiuscule hirsuta. Inflorescentia subtus reticulato-nervosa acuta submarginata inferne lanceolato-linearibus in pedicellum longum attenuata, caulibus intermediis sessilibus oblongo-lanceolatis, corollis cordato-ovalibus attenuato-acuminatis mucicis verticillatis longioribus calycibus suboccurrentibus inembraceis nervosis, verticillatis paucis distantibus, calycis campanulati longe bispidi dentibus lanceolatis subspinosis lobo brevioribus, corollae tubo incluso, limbo brevis latiusaequilongis superne bifido inferiori infido lobo intermedio lacinia crenulata

Hab. in rupestribus apertis montibus *Boudroun Psidia*. alt. circ. 5000'. Heldr.) Pl. Aug.

Caules pedales, folia forma et natura ea *Phlomidia herbaveni* referenda sed minora, radicalia 3-5 pollices longa 7-8 nervis lacinia, caulibus breviora, floribus 8-9 nervis longa. Verticillati nati 4-5 inter se aequipollicem distantes. Calycis lobus longus. Affinis *S. Libanoticæ*, distincta caulis subsimplici superne longe et palule bispido, racemis brevibus 3-4 pollicibus nec longissimis in primis calycis dentibus angustioribus longioribusque

SIDEMTIS SIBICATA Boiss. et Heldr. in pi Anal. exs. 1846 DC Prodr XII pag. 441 (Sect. *Empedoclea*)

S. basi suffruticulosa millicaulis hirsuta viridia ad folia juniora dense albolanata, caulibus erectis simplicibus, foliis linearibus basi attenuatis acuminatis argute denticulatis subtus reticulato-rugosis, floralibus membraceis integro orato-cordatis abbreviate breviter acuminatis concavis calycibus fere occultantibus margine longe ciliatis virentibus reticulatis, verticillatis infimis exceptis subconjugis in racemum cylindricum approximatis, calycis lobulosis breviter pubescenti viscidis dentibus lanceolatis aculis tubo subdimidiat brevioribus, corollae tubo brevissime exserto, limbi parri lacinia squilongis, labio superior) bifido inferne tripartite lobo medio lacinia integra.

Hab in fruiicelis apricis *Tauri Pamphilioi* in via inler *Maria el Adalia* propè pagum *Ormana* alt. 5000' (Heldr.) FL Jul

Caules pedalea vel sesquipedales, folia catilina *i-t* poliicarla 5-4 haeas lata, floralia 8-9 lineas longa lalaque VerLicillasln 8-iS racemum 1-6 pollicarein forraantes Calyx ft 1]9 hneas longus. A *S. Ltbanotied* caulibus simphcibus, verlicillaslrw conliguu, braceis amplls •membranaceis, denlibus calycims angastè nee tnangulanter lanceolalis dishncta *S perfoliata* liidumenlo fohorum et bracearum nervoBilate et aalur& magis affinis sed 'use longè differt folils amplè ovatis semiamplexicaulibus

HABHUBIUM MICRACIHUH BOISS et Heldr in pi Anal exs. 1846 DC Prodr XII p U9

H totum adpressè tomentosum griseum vel flavldum, folus pellole ea squanti vel superanli saflulUs ovatis basi rolundalo-cuneatls obtusè cranatis florallbus breviter petiolalis flores parbm superantibus, floram glomerulis axillanbas densis prater supenores pedunculatis, bracteUsubulaliscalycebreviorlbiu, calycis densè birsuli denjlbus quinque sequalibus lineanbus brevissimis reclis tubi qaarlam partem sqaantibus, corollas minimis carneae tubo incluso

Hab in pascuis montis *Ghelipel Tauri Haurid* et in csteris monbbus circà *Ermenek* alt. 4000'-6000' (Heldr.) Fl. Junto

Canpllosum, caoles basi procumbentes semipedales pedaleave, folia &6 lineas longa lataque Affine ñine *M. globoso* illioc Jf. *Kotsehi*, ab ulroque glomerulls ufeiiionbus pedunculatis, corollis pallidè carneis dunidlb minonbus distinctum. Pnor species iterùm mdu-menlo Bericeo longiori densioriqne, posterior calycibus spinescenslibus folusque florahbus verUdllos longè superanlibus differunt

MABAUBIUM LIBANOTICUX Boiss

M tolum secùs caules juniores densè albo-floccosum, secùs partem anpenorem plants densè tomentosum flavidum, foùls peliolo ea superanb suffulhs ovalis basf breviter cuneatis obtusè crenabs subtòa •aidè reticulato-nervosis, floralibus conformibus breviter peliolalis verttdllos paol6 superantibus, verticillaslns deosis sessilibusybractels snbulatls calyci squilongis, calycis densè et breviter flavido-toment⁰⁰¹ denlibus quinque cequahbus tnangulan-|anccolaUs spinulo-

sis rectis liibo Inplò bravionbus, corolla; minimae calycein vix superanlis (nbo incluso

Hal) in *Libano* suprâ *Cedros* (Rows) Fl. Julio.

Planta ferè pedalis, folia majora 6-7 hneas longa, calyx 3 hneas corolla ft lineas longi Affine *M. brachyodonti* et *miCTantho*, a priori tomenlo denwori, folus lloralibus raagis rotundatu, calycis denlibus tubi proportione longioribus, corollâ minimâ, a posteriori glomeratis florum scssilibus tomento calycis magis adpresso denlibus longioribus distlnclum

MAHRUBIUM HEKXOKIS BOI&B

M tolom seeds cautes jumores densè albo-floccosum parte superiori adpressissimè lomenosum canescens, folns ovato-rotundis subcunealis obtusè crenulatis peholo eis sqmlongosuiFultiB, floralibus sessilibus breviter peliolatis verticillo paulolongionibus, glomeratis florum densis sessilibus, bracteis subnlalis calyces aequanlibus, calycis adpressè lomentosi dentibus a basi subulalis reclis tubo tnplA brevionibus, corolls carnea calyce dupl6 longions tubo brenter exserlo

Hab. in regione mediâ montis *Hermonis* soprâ *Rascheya* (Bobs).

Caules 8-10 pollicares Folia majora diatnelro 8 lineâ ferè lata, calyx 3 i|* lineas, corolla ft *ifi* longi Affims pracedentf a quo preter induinenli colorem dirersum differt calycis dentibus a basi subulate, corollâ dupl6 majori longius exsertâ A *M brachyodonti* indumenta, foliis magis rotundatis, dentibus calycims longioribus diversnm est.

MABRUBIUM FHIWALDSKYAMII Boiss

M. totum adpressijisiniè tomentosum pallidè nrens, folli subtus palbdioribus inferionibus ovato-rotundis basi subcordatis grossè dentatis denbbus ovabs obtusis, floralibus orato-oblongis brevissimè pe- (iolatu acutiusculis supernè acute dentalu verticillos longe superantibus, rerticillastns sessihbus compactis tnaltifloris paoas reraotls, bracleis setaceis tenuiter hirtulu patenh-subreflexis ineurvls ealyei eequilongis, calycis breviter lomentelli dendbus setacefs hirtulisdivergentibus (ubo clevalim aervoso vix brevioribus, corollâ albâ tomentellâ calycis dontibus brevion labio supenon brevi inferions lobis ~~subaequalibus~~

Hab in montibus *Rumelit* Pnwalds sub *M. candidissimo*

Subbipedale, folia inferiora diametro aequipollcem lala, calycis tubus 5 hneas denies 3 lineas ferè longi Affine Jf. *candissimo* quod foliorum formâ differ! et pnesertim *M. velvino* Siblb a quo dislingnlur fohis magis profmndè grossèque dentahs supenonbus angulalal apice acuminato-deiUati9, calycis lacuna braceis que lenuionbiis longionbus magis selaceis

MARRUBIUM POLYODON BOWS in Kolsch pi Pen bor 1846. DC.
Pr odr XII p 485

M. caulibus ascendenlibas elatia albolanalal, foliis sublùs parci lana-tis oblongo-cuneatis breviler petiolalal obtusd creoulalu, floralibus floreg superanlibus, verhcillastns numerosis remotis, bracteis paucis brevisBimis selaceis, calycis breviter birouli limbo tnbo sub-^quilongo deotibus circiler decent Bubdilatalal irregulariter 9-5 fidis aentieulis onimbos spinulosia, corolle pane tubo incluso

Hab. propg *Derbend* ad radices motibs *Elbrus* Penis borealis Kolschy pl Pere.bor.N°2W

Sesquipedale, folia cum peholo ferè pollicana, axillae foliorom mferlores jam flonferae AfGne habitu et florum magnitudine Jf. ctt*wato sed distinctuin caule albo-laoato, fohis rix rugosis, calycis denibus laLioribua lobaba.

STACUYS PISIDICA BOISB. et Heldr (Sect. *Eriostachys*)

Sl. pereoms lota breviter velulino-gnsea Biibsencea, caulibu9 erec-UH parçe ramosis, fohis infenonbus longè superionbus bremler pe-Uolatal omnibus ovato-oblongis basi cordatal aculia acuhusculè creontis, floralibus mtegrls angustè lanceolatu deflems, verlicillastfis multiflons dlatanUbus, bracteis selaceis calyce paul6 brevionbus, calycis villosi ore obliquo denlibua tnangulanbus mucronabs snpe-riori longiori relrorsùm subrecurso infenoribus duobus minonbus, corollaa tubo calyce incluso, laMls equilongu pxtùs densè albo-barbatia.

Hab. In regione supenorl monbs *Davrosdagh Pisidim* aft 6000¹ (Heldr.) n. Aug

Caules vix pedalea Folia 1 1;1 pollceB longa. Calyx K Ilnea3, corolra B Kneas longi Valdè affinis St *Alpince* a qu| earn specificè dif-

feme auduno fblus floralilius partis infioiis eieptis verhcillastro brevionbus, calycis denlibus sensim altenualis necobtususculismucrouatis, corollae labiis e&fus densè longèque selosis, indumento partis supeiioris planlte non viscido

SIDEHIW CASSIA Boms in pt Syr cis. BW> (Seel *Eriostachys*)

S perennis, caulibus ascendeotibus parce et brevUer lurlis simplicibus vel supurnè parcè ramosis, folns angustè oblongis oblusis basi rolundalis breviler pcliolatis suprâ glabrescenlibus tenuissimè rugu-Josis subtùs adressè canescenli-ciriereis, verbcillastris densiflons folns floralibos deflexis suffullis inferlonbus remobssimis summis in receraum oblongo-cylindncum confertis, bracleis sabulalis knA oecultalis calyce raullò brevionbus, calycis longi albolanali fntùs vHosi denlibus palulis lanceolabs anslalo-acummalis acqualibus tubo breviorLus, corolla; roses valdè hirsute lubo calyce brevlon intùs pilosè et oblique annulalo

Hab. in rogiene sylvaticâ infenon montis *Cas&ii Syria* borealis (Doiss). Fl Jun

Di-Inpedalis, folia infenora bipollicana 8-0 lineas lata, calyx 6II-neas longus, corolla vu 7 lineas longa Affims *S^Italicae* a qua sat differre videtur folns suprâ glabrescenlibus, verticillastris superioribus in racemum confertis, calycis deutibus mult6 longiHs anslatls

STACTIYS GARANA BOISS (Sect *Eriostachys*).

S. peronms basi sulfrutescens, cauilbus erectis quadrangulis basi simplicibus supemè breviler ramosis in panicuiam brevem condensalam abeunhbus, foliia surculorum jumorum minutis aogustè oblongis integris valdè albolanalis caulinis rugulosis oblongo-lanceolalis acutiusculis in peliolum brevissimum atlenualis suprâ glabrescentibus subtùs adpresse canescentibus, superioribus anguslè lineanbus, verticillaslms in racemos ovatos vel oblongos densos breviter pednnculatos foliis floralibus eis multò brevionbus suffullos congestis, braeteis oblongis acutis brevissimis, calycis brevis densè albo-tomenlosi dentibus lanceolate breviler pungenh-anstalis recurvo-patenlibus tubo brevionbus, corollse carnes tubo calyce subbreviorl

Hab. in lapidrols montis *Gara Kwdtotanim* Kotschy pi. Alèp Kurd N° 413

Planta 3 iji pedalis, folia inferlora 31}9 pollices longa 6-8 lineaa lata, pamcQla corymboBO-pamculata, capituli 1-1 i}9 pollices lali breviter pedunculali. Calyx ft 1}9 lineas longus Species Inflorescentiã, bractearum formã, calyce a *S ItalicA* et *Creticd* eximiẽ dislincla

STACHVB VITCIKA BOISS (Sect *Eriostachys*)

St perenms, lota loraenlo brevi deaso canescens, caulibus quadrangulis erectis supernẽ ramosisflimis pyramidalo-pamculatiB, folns infenonbus brevissimẽ peliolatJ9 e basi truncalo-subcordatt oblongo-lanceolatiB obtusis vix rugosis supernẽ virentibus sopenonbus subsesalibus oblongis rogosuhs, verticillaslms parvis compaclis multiQo-}B folns floralibus oblongo-lineanbus eis subsquilonis suffultis ad ramulorum apicem B-7 subconllguis racemos breves subinterruptos forniantibua, floribus parvis, calycie adpressẽ liirsuti dentibus brevilep tnanguian-lanceolatia acutls tubo brevionbas, fauce albo-hir-Bulissimã, corollie rose© hirUe lubo exannulato limbo brevissimẽ exserlo labio superior! recto brevi oblongo-linean subcompresso mtegro

Bab. in Syrid boreali propẽ Seleuciam, Suadieh Antiochiam (Bois8.), (Aucher, N» (128 el 1711)

Tripedalis, folia infenora 9 1}9-3 pollices longa pollicem lata. Racemi floriferi 1 1}9-S pollices longl, calyces vix 3 1}3 lineas longi Flores illis *S Germanica* dimidiõ minores. Species distmclissima habita el florum minutie *nticto agni caati* mflorescentiam referens, a *S spectabli*. *S salvicefoKA* et *S Garana* cujus Inflorescpniam h*bet verticillaslris compactis, floribus mini in is, denlibus calycinis **abbreviatus** minimẽ acerosis, corollã vix exsertft facilẽ distinguenda.

STACHYS GBBCA BOISS et Heldr (Sect. *Ertostaehys*)

31. perennis, caulibus simplicibus quadrangulis ascendentibus petioligque pdiB longis deflexis bispidis, folns oblongo-ellipticis obtusis b«ai rotuodatis rotuodato-crenatis inferioribus petiolo eta sqmlongo aufluius, floraiibus sesslibus basi Bubcordalis vertlcillos plerumquẽ •operantibus, omnibus adpressẽ hirsuds canesoentibas, rerlieillastris pluriflon#valdẽ distantibus racemum lermmalem simpncem laxissimuui formanlibus, bracleis linean-Bubulalis calyce paulb brevionbus,

cal>cis breviter pedicellati longò ol adpresaiusculè hirsuli denlibus rigidis lanceolatis breviter mucronatis lubo sesquibrevionibus, fauce parvè hispida, corolla, roses exclus longè albo-barbata? tubo incluso basi subobliquè et parvè annulato-piloso, labio superior longo profundè bilobo.

St Heraclea Bory et Claub. Fl Pelop — Heldreich, Spruner, pi. exs lion L

Hab in agnis, vineis, fruticeis *Peloponnesi* ad Argos, in monte *Ithome Meseniorum* (Heldr), monte *Malevo Argolidis* et Delphi *Subea* (Sprun)

Pulchra species habitu *S heracleam* et *S Salvitefoliam Ten-Ita-Ucam* Hill, omnino referens a priori floribus dupli malonibus, a posteriori Indumento non senceo, ab ultraque labio superior! corollae nullò inania porrecto profundo bilobo nee integro staminibus dignoscenda

STACUYI CIUABIS Boiss. (Seel *Erioslachys*)

S perennis caulis erectis quadrangulis simplicibus petiolisque ciliis longis rigidis palulis basi subbulbosus-incrassatus hispidus, foliis usque in pediculis sed ramulis brevibus adpressiusculis ovatis virescentibus oblongis obtusis minutè crenulatis basi rotundatis inferioribus longè pedicellatis, floribus in basi ovali attenuato-acuminatis inferioribus verticillis superantibus, verticillatis plurifloris axillaribus valde distantibus racemum laxum ternarium formantibus, bracteis ovatis peltatis aculeis paucis calycem sibi obsequantibus, calyce pedicellate vix parvè et parvè scisso dentibus oris nervosis rigidis lubo distinctè brevibus in mucronem breviter pungentibus, corolla; roses lubo incluso recto intus obsolete annulato-piloso, labio superior!-exterior! raris hirsuto reclinato Integro rotundato, inferioris longioris lobis lateralibus brevibus **latis**.

Hab 10 regione sylvatici inferioris raonis *Cassii Syria* borealis (Boiss.).

Sesquipedalis, folia inferiora 3 pollices longa 1 1/2 pollices lata. Verticillatis 6-7 racemum semipedalem formantes. Calyx fructifer spinosus fit 1/3 lineas longus Corolla 6-7 lineas longa. Species 3. *heraclea* quoque affinis ab ea distincta caulis et foliis ovatis basi subbulbosis nee molliusculis hirsutis, calyce magis spinoso, co-

rolla; lubu non eiscrlo nee curvalo, inferion multd anguslion etc AfGms quoque S *Libanotica* quæ differl calycibus dupl6 longionbus, denlibus long* spinosis

STACHYS ALEURIIBS Boiss el Helder in pi. Anat exs 1846 DC Prod, XII, p 47J (Sect. *EHostachys*)

S. perennis seeds paries jumores el folia lanã adpressisBimft araneosi obsita glaucescens demum glabrescens, caulibiis elatis virgalis quadranguhB fibilosis simplicibus vel internè pared ramosis, foliis paucis remolia longè pcliolatis ovalis aculis basi cordads grossè et •cutmsculè crenatis, sopenonbus et floralibua oblongo-lanceolalia vel lanceolalis acupiinalis, verticillastna ninlifloris Inferioribus inter se voidè dBlantibua folus floralibiis eis aequilongis slipatia superlonbus basi oudis approiinato-subcDiifluentibus, braceis numerosis lanceolatis acuminatis calyces sutuequantlibiis, calycis adpressissimè albo-araneosi cani denlibus suluequalibus e basi tnangulan acuminato-setaceis rechs lubo aequilungis, corolla? (e sicco flavidae) tubo intua rehuscDlè annulalo dentibus calycis brevion, labio superior! brevion crenulalo adpreasè birsuto

Hab. ad rupes mantimaa *Pamphylas* propè *Adalia* (Helder.). Fl. Maio

Gaules 9-5 pedales basi ferè craasilie pennc anserinae supernè pneserlim remoUssimè fohosi, folia form4 sufl ea caullum sfenhnM *Gakobdolonis lutei* referentia eed rainora peliolo aiepè pollican saf-folta, infenora sesquipollicem looga Verticillastn ft-8 (ermiales racemum nuduni 4-B pollicarem formanlea. Calyx campanulalua 4 lineas longus, corolla B lineas longa Species in seclione *ErUntochyde* anomala, habilu S *distaniem* Bill, referens sed boec a nostrt differt foliis minùs cordatis, •ertiallaslns valdè paucifloris, braceis nullis vel mioimis, calycis dimidib minons denbbus triangulanbus, corolla; tubo calyce aubdupl6 longion.

STACBYS BOHBYCIMA SOUS. (Sect. *Stachyotypiu*).

St. totalan&ciiBpã adpressã densã booiibycinã aJblcans, caulibus suffrateicenlibus prostratis, ramis numerosis ascendentibus elongalis subteretibus bombycinis Bimpllcibus parcè foliosls supernè nudius-

culis, foliis parvis ovalis oblongisve basi rotundatis vel subcordatis
petiolo eis equilongo suffultis obtusè crenato-dentatis, superi-
oribus acutis integris, verticillatis 4-3 terminatis distantibus
nullifloris densis folis floribus oblongo-lanceolatis aulis eis bre-
vibus suffultis, bracteis oblongis acuminatis calyce brevibus.
calycis densis et longè lanatis dentibus lanceolatis longè et tenuiter
mucronatis (ulio equilongis, corolla! immixta albida tubo dentibus
calycis brevibus, limbi parvi labus brevibus supernon relusis)

Hab. in *Syria* Comm. cl. D^r PeBlalozza

Rari pedales longioresque ut tota planta valde lanata, tota 6-7
lineas longa, verticillata nuda avellana majores basi byce fere oc-
cullati Calyx Confer tres hinc longus fructifer major Species *St*
aleuntii cl *S. distantii* affinis ab utraque indumento densè bomby-
cino, folis obtusè crenatis, dentibus calycis longè subulato-altitudi-
nalis rectis nec subrecurvis corollam subobovatis distincta.

STACHYS DIVERBIVOLU Boiss in *Jil Syr* exs 1846 (Sect *Stachya-*
typus)

St perennis, caulibus suffruticosis prostratis ramos stenos folio-
sos breves aliosque floriferos quadrangulos tenues ascendentes sim-
pliciusculos glabros edentibus, foliis ramorum Blenium petiolo longo
gracili flexuoso longè et adpressè setoso basi dilatato Buffultis ovalis
vel ovalo-oblongis apice rotundatis integerrimis basi breviter cunea-
lis rotundatisve superius videntibus glabrescentibus Boblis adpressè se-
tulosia pallidioribus, folia ramorum ferilium glabrusculis infimis
oblongo-hincibus in petiolum alternatis caeteris sessilibus longis
angustè lineanibus acutis, floralibus brevissimis angustissimis, flori-
bus in axillis supernonibus solitariis sessilibus oppositis saepè aborti-
vis saepè ad ramuli apicem terminalibus 3-4 congestis racemos vir-
gatos macros terminales formantibus, bracteis linean-setaceis calyci
aequilongis, calycis glabris viridis Tisciduli dentibus a basi lanceola
subulatis pongentibus (tubo squallongis, corollae pallidè caraeae extus
hirtae tubo incluso interdum obsolete annulato limbo brevi labio superiori
tincto).

Hab. in dumosis regionibus montanae in via inter *Latakiah* et *Alep-*
pum loco 6-7 leucis a priori distantibus. Legi florif. fine. Janii 18*6.

Folia infera 10-18 Hinc longa 6-8 lala petiolo eis equilongo vel
longioribus suffulta, canina superiora sesquipollicana 9-3 lineas lata.

Rami sesquipedales virgali supernè glabn visciduh parcissimè flori-
fen. Calyi flonfer 11]3 lineas longus Ei afflinitate St *dialantis* sed
characlenbus datis disinctissima

STACHYS BYDROPHILA BOISS (Sect. *Stachyotypus*)

St perennis tola patnl6 et tenuiter luspida, caalibua leneriB sulca-
lis longia decumbenlibus, folns amplis teneris ovalis cordalis aculis
rolundato-crenatis peliolo eis brevion auffullis, floralibus infims cre-
nabs breviter petiolatis (lores mult6 superantibus, superioribas ob-
longiB subslipitatiB integns breviter acuminati» calyces Buboequanli-
bus, verticillastns subquadnflons distinclis racemum longum laium
fbrmanlibus, braceis nullis, calyce sesaili vindi breviler campanu-
lato hirtulo viscidalg denlibus triangulanbUB anstalis labo paul6 bre-
vionbus, corollas albida? riscido-hirts tubo non euerlo lablo Bupe-
nori Integra infenoris lobo iqteruiedio magno rolundato.

Hab. in umbrosiB ad nvnlos el sepea suprA urbem *Tripoli Syria*
i^oco *la Dervicherie*) dicto. Fl. Junio (Boiss).

Caulea 3-3 pedales, folia infenora 3-4 polhces longa 3 lata. Verti-
cillastn 7-10 racemum semlpedalem formantes Calyx flonfer *h* li-
neas longns laO9 brevis. Affinis *S. sylvatias* quae egregie^ differt fo-
His mlnoribus magis acuminatis, caulibus rectia, folus floralibus lan-
ceolalis longè setaceo-acuminatis, calycis laciniia anguslè lanceo-
latia Bubrecurns, corolle intensè rubrae lubo exserlo, limbo formie
diverse, etc \d *S. cirdnnatum* el *S. Pinardi* quoque accedens

STACHYS MESSEHIACA BOISS in DC. Prodr. XII, p WK (Sect. *Sta-*
chyotypw)

St. tola molliler et patnlè luspida vindis, caulibus baBl vix suffru-
tescenUbus ascendenlibus simphcibus vel parcè ramosis, folus ob-
longis obtusiuaculiB corJalia obtus6 crenalis inferioribus breviter
Péuolatu superioribas sessilibus, flovalibus integns acutiuseuliB ver-
Ucillos infenores equanlibus dein brevionbus, verticlllaslms nume-
rous S-6 fflorls omnibus distinclis approximatis racemum terminãeni
elongatum laxum formantibus, braceis selaceis mimniis paucis, ca-
•ycis birsuli campaoulati denlibus tnangulan-lanceolalis mucronalis
lubo brevioribUB lafenonbus duobus paulò brevionbus angusbon-

uusq;e, corollae lubo calycem oequanli Inlũs annnlato recto, labio supenon parce hirsute inferior! duplò longion

St *Tournefortii* Bory el Ghaub. Fl Pélop non Poiret

Hab in JHessenia circa *Pylo**, *Navarin*, *Androiwista* (Guenn, Despreaux in herb Faucliè)

Gaulcs circiter pedales, folia formã et colore ea *Tewsrii scorodoniae* planè refrenlia pollicana vel paulò longiora 7-9 lineas lata. Verlicillasri 8-10 racmmum 3-4 pollicarem formantes. Corolla magnitudinis St *circinnatas* flavida intũs purpureo-maculala. Calyx 4 *Ifl* lineas longas. Species afinis St *circinnatce* et St. *Pinardi* ab ulràque indumento non senceo fulus mmoribus breviter peliolalis mintũs rolundatis, corolla; tubo calyce non longion, caulibus firmis nee herbaceis fragilibus discedens St *moUisaima* quoque affinis miln *ex* icone Wildcnowil tantũm nola differt bracteis longis calyces aequanibus, floribus rauHò majonbuB, calycibus magnis 6 lineas longis ulrà medium fissis dentibus squalibus St. *Tournefortii* Poirel *ex* iconc Tourneforbana lantũm mihi nola diremssiua est.

STACHVS SPBUNEHI DOISS DC. Prodr XII, p 488 (Sect *Stochyolypus*)

St basi suffrutescens lota patulè el sparslm hisplda viridis, ramis simplicibus vel parcè ramosis erecUs ngidis pumilis acutè quadrangulis, folns infimiB oblongis basi cuneatis brevissimè peholatis obtusis caetens elliphcis vel lanceolato-linearibus sessilibus utrinquè atlenuahs aculis argulè serratis omnibus subtũs valdè rugosis, floralibus acummatis flores superantibus, verlicillastris 3-6 floris in spicam brevem ovalam laxam basi saepiũs Inerraptam dispositis, bracteis nullw, calycis viridis longè hirsuli campanulati deotibus triangulan-acuminatis spinosis rechs tubo dimidióbrevioribus, corolla; lubo curvalo calycem lequanh intũs obliquè annulato, labio supenon peoicillalo-lanato, infenon dupld longiori.

Hab. ad radices montu *Parnes Atticw* ubi Maio floret (Spruner, Boiss., Heldr.) sab St *Swaituoni*.

Cãules 1}9 pedales vel pauló longiores, folia intermedia 1-S **poll**caria 3-4 lineas lata. Racemus bipollicans, calyces ferè ft lineas longi, corolla albida vel flavescens. Hucũsque confiiM cum St. *Broinaoni* Bentham que nunc nobis nota egregiè differt indumento molli,

foliis omnibus ovalis obtusis basi rotundatis obtusè crenatis S(potato tinsebacli c descriptione omnino athena esl habitu *St virgata* Bory et Ch referenti, raule elalo palule ramoao, folus integerrimis vel apice lantrn Bub9errali9, denlibus calycinis tubtum xquantibus recurvo-patentibus nee reclis

STACHYS ARGOMCA BOISS (Sect *Stachyotypus*)

St. basi suffrutescens tota patule hispida vinctis, caulibus numero-318 basi prostrata ascendentibus brevibus, foliis petiolatis oblongis basi rotundato-cuneatis creatis obtusis subtus rugosis suprenibus aeseibus, floralibus acutiusculis verticillis superantibus, verticillis- Iris 6-10 m racinum oblongum basi saip6 interruptum condensata, bracteum nullis vel immixtis, calycibus lursud glandulosi campanulati dentibus subinjcqualibus triangularibus breviter mucronatis rectis lubo paul6 brevioribus, corollae tubo recto calyci aequali longioris mills oblique annulate, labio suprenum superne barbata, inferum duplo (longiori

Hab in rupibus propè *Naupliam* (Sprun , Boiss.). Fl Haio

Gaulis cespites e fissuris rupium onduos formantes basi prostrati 6-8 pollicares, folia 9-10 pollwes longa. S-6 lala, calyces ft lineas loogi, corolla pallide carnea Ferè intermedia inter S(*Spruneri* a qua longius differt et S(*Swainsoni* cui valde affima est; ab ea du- Wnda Indumento ranon non senceo, foliis majoribus rugosis, calycis visduli dentibus breviter mucronatis insquulongis — S(cone«ce»ig Bory et Ch. quoque ex icone affinis differt folus acutisai- mia.cauleerecto.

Obs. st *icyronica* Boiss Diagn V, est tantum forma minor magi* sencea S *Swainsoni* cui adjudenda est

STACHYS CINEA BOISS. el Heldr. in pi. Anat. exs 1846. DC Prodr. XII, p. 490 (Sect. *Stachyotypus*)

St anfratica tota indumento denao molli vestita grisea, folus ferè omnibus ad basin ramorum approximatis ellipticis obtusis basi in petiolo subaequilongum attenuatis inlegris vel minutè crenulatis ramis floriferis scapiformibus nudis vel unopan foliorum minorum angustiorum subsessile donatis, verticillis paucis in capitulum terminalem ovatum teretibus simplicibus vel

basi interniplum condensatis, folus floralibus ellipticis obtusis inferionibus verlicillasro longionibus caetens brevibus, bracteis paucis linear-aetaceis calyce brevionibus, calycis hirsuto-campanulali dentibus mler sc asqualibus tnangulanbus aculis lubo quintupld brevionibus , corolla: citnose extûs hirsute tubo calyce incluso lotûs annulo recto instructo

Hab in rupesribua alpinis monlis *Jnemas tycaonkB* et tnontis *Gheidagh Tauri Isaurici*. Alt G000'-7000' (Heldr.) Fl. Aug

Suffrulichulus caudicibus prostralis csspitosis, folia 1-1 l(i pollicana 6-7 lmeas lala pannosa Caules basi exceplâ subnudi 5-8 pollicares. Capitulum densum 9-12 lineaa longum ssepè verbcillasro inferon Bubremolo auclum Galix h hncas, corolla 6 lineas longi. Pulchra species propè *S. rupetrm.* et *S yumilam* collocanda ab eis mdumento pannoso, cjlycis dentibus brevissimis, etc., distincta.

Obs. Ex obserationo meâ in loco natali *Sf pumila* Russell in collibus propè *Antiochiam* abundè crescens quoad indumentum, calycis laciniarmn longitudinem mire vanat et huic meo seosu *St. floribunda* Hontb. et Aucher ut vanelas calycmis dentibus abbreviatis adnmeranda est.

STACUM MACHOSEWIA Boiss in pi. Syr exs. 1846 (Sect. *Olisia*).

S. annua, caule crasso quadrangulo sunplici vel mfernè parcè ramoso papillis brevibus sparsis stnguloso supernè ul Inflorescentia lota palulè bispido viscidulo, folus oblongiB obtusè crenatis luferionibus basi rotundatis breviter peliolalis obtusis florabbus conformibus a basi latiori atenuatis aculis oblongis vel lanceolatis verlicillos superanlibus, verlicillaslns ft-fi flons remoliuscuhs racemos rectos laxos elongatos formantdius, bracteis nullis, calycis ampli campanulas rufescenhs hirsuli visciduli dentibus e basi latè Iriangulan lanceolatis mucronatis subrecurvis, corolliB purpureas extûs hirsutae tubo incluso labio supenon crenulato, inferiors longions lobo intermedio lato reluso, semimbus magna.

Hab. in pinguibus *Gatilea et Indae*, in viâ inter *Ramla* et *Uiero-solyman* ad radices montium, In plantie *EsdraSlon* (Boiss). Floret vere

Planta 1-1 1;2 pedahs, caules ramique pro planlss magnlludine crassi, folia inferiora 9 pollices longa feri pollcem lata Calyx fructiferamplus 7 hneas longus. Species distinctissima afiB S. spfnufcwte

a quâ follls loferioribus non ovalo-rolDndis cordatis, calycis denlibus elongatis acuminalls nee brevissimis obtusiuscuhs, corolla «o-lore etc. differt. 8. *Arabiea* Horn quam non vidi et quo calycibus magnis me® speciei probabiliter affinis est ex descnplione ab ei recedit fohis basi cordatis, denlibas calycis ovatia acutis subspinosis.

STACHYS NBUHOCawcHA Boiss. in pi. Syr. exs. 1846 Sect. *OIUia*)

St annua a basi ramosa, ranua quadrangnlls diffusis glabellis rubellis, fohis glabrls oblongis obtusè crenatis infimis petiolo brevi papilloso-cihato suffultis, floralibus oblongo-ellipticis obtusis basi altenualis obsoletè dentatis flores sequanlibus, verhcillastris 4 floris distinctis inter se dislantibus racemos laxissimos rectos formantibus, bracteis nullis, calyce sessih breviter et parcè papillan vindirubello nitido elevatim nerroso inter nervos reticulato dentibus rigidis oblongis nervosis reclis inargine aspens apice abruptè et breviler •nocronatis pongentibus, tuho intts glabro, corollas purpures birte lubo incluso labio superior! brevi integro inferioris lobo intermedlo latiasimo Iruncalo retuso.

Hab. in andis BICCIS ad montem *Carmelwm* el circa *Naplouse Pa-lestinm* (Boiss.). Fl. vrre

Caales erecti vel diffusi 8-10 pollicares ferè a basi flonfen, folia inferiora vix polliceni longa *h-ti* Imeas lata, calyx fructifer ferè Ires Imeas longus. Habitus *Sideritidis purpurecB* sed vera *Stocky**; affinis *S. Satureoidi*, *S. burgdorsffioidi* et *S. ramoaissimiB* a quibus calycis lubo int&s glabro nee longè albopiloso, dentibus nervoso-reliculalis latu abrnple anslulalis differ!

STACHYS BiiHosDoamoiDEs Bow (Sect. *Olisia*)

St annua breviter pubescens viscidula, cauhsbus ramosis, folhs oblongo-linearibus basi longè angustalis obtusis remotè denticulatis subtnnervus, floralibus linearibus integns flores superantibus, verticillastris numerosis 4-6 flons omoibus distantibus, calycis lubulosi birsuti hnpiduh dentibus a basi tnangulan subulato-spmosis demùm subincurvis tnbo Inpl6 brevionbus, fauce albo-pilosissimft. corolls mbraj hirtulo lubo dentibus calycims vix longion exannulato

St. *Satureioides* var *burgsdorffioides* Bth in DC Prodr.

Hab in Syr id propc *Antob* (Auclier N° 1608), in *Mesopotamia* inter *S/erefc* et *Diarbekir* (Kolachy)

Gaulces a 9 pollicibus ad pedem dimidium longi, folia 9-12 lineas longa basi in petiolum angustata 4 lineas lata. Verticillatae 4-19 racinum saepe semipedalem formantes. Calyx 3-4 lineas corolla 4-5 lineas longi. Plumbus specimibus observatis cum a *Satureioide* distinctus in aulmo. Haec differunt foliis integerrimis semper angustatis linearibus, pubescentia brevissima, verticillata superioribus confertis, calycibus 5-6 lineas longis, tubo corollino calyce subduplo longior, fauce valde ampliatam

LAMIUM THUNCATUM Boiss (Seel *Mnionopsis*)

L perenne caulibus diffusis simplicibus laevibus foveosis, foliis petiolo longioribus palmo aut trisectis tenacibus sub lente parvis basi truncato-subcordatis et adpressissimis setulosis ovato-oblongis obtusis basi truncato-subcordatis et ulnque profundis 9-15 crenato-lobatis lobis magnis ovalis obtusis, floribus subsessilibus in capitulum terminali foliis axillaribus brevioribus confertis, bracteis subulalis calycino tubo brevioribus, calycis adpressi lutei lacinis patentibus lanceolatis longissimis setaceo-acuminatis tubo duplo longioribus inferioribus brevioribus, corolla rosea calycis dentibus duplo longioribus exsertis tubo inclusis basi annulato annulo superno tantum piloso, labio superioris valde albo-lutescente integro apice truncato, inferioris lobis lateralibus longissimis setaceo-acuminatis in medio basi valde stragulato pendulo ovalo-refuso, fauce ampliatam, antheris liberis.

Hab in rupibus umbrosis ad *Banias Galilea*. Legi Maio 1846

Caulis sesquipedalis, petioli inferiores 5-6 pollices, folia tres pollices longa 9 pollices basi lata. Calyx 7 lineas longus, corolla 1-1.5 lineas longa. Habitus *L. striati*. Species foliis longe petiolatis, labio superioris truncato-subquadrato, inferioris lobis lateralibus longe setaceis distinctissima.

LAMIUM FILICAULE BOISS in Kotschy pi Pers bor 1846 DC. Prodr III pag 107 (Sect *Lamionopsis*)

L perenne, caulibus filiformibus subterraneis repentibus parte exteriori brevissimis foliorum 1-5 parvis fere linearibus, foliis inferioribus longiuscule ceteris breviter petiolatis utriusque adpressis villosis glandulis parvis rotundato-reiformibus cordatis rotundato-crenatis, verticillatae numero 1-9 quoad vel sexfloris, bracteis paucis linearibus

minium, calycis hirsuli denlibus latè Irangularibus brevibus raucro-
nahs patulis, cofbille calyce Inpl6 longions lubo recto inlūs annulalo,
galeà hirsulá integrál labu infcnoris lobu laleralibus in appendicem
subulatatn abeuntibus, anthens hirsulis

Hab. in monle *Tostchat* prop̄c̄ *Teheran* ad lacum *Derja-i-jach*
Kotschy pi. Pere bor. Floret Julio

Caules parte exsertA 1-2 pollicares, folia diametro 4-6 lineaa lata,
calyx h lieas longus Corolla Qavescens 9-10 tineas longa. Affine *L*
vestito Bib. quod folua amplionbus, calycinis denlibus longè subu-
latis dislmguilur Hoc *L. vestitum* a *L. tomentosum* Willd. C. A. Meyer
Eoum. pi. Caucas. vix Bpecificè diOerl

Obs. *LamUmerylhrottrichum* Dois9. Diagn V. ad *tTiedemannlcB*
genus referendum et est *W eiyhrotricha* Bill DC. Prodr XII
pag. BOS.

LAGOCHILUS KOIBCHVARUS BOISS. In Kotsch pi. Pere bor. 1846 DC.
Prodr. XII p 913.

L. lotus birio-puberulus caulibns albidls aimplicibus aut basi sub-
ramosis, spinis aullanbus rectis puberolis folio paulò brevioribus,
foliis ovato-cuDCiformibus ad basin usquè tnpartiUs parlitiombus an-
gustè linearibus margine revoluis omnibus 9-3 fidis lobls in mucro-
nem spinulosum attenualis, calycis (ubo ovato lanato denlibus longè
ellipUco-lmeanbus basi atlenualis spinoso-mucronatis glabns (ubo
piñs dupld longionbus_T galeft indivisá

Hab. prop6 pagum *Asadbar* in parte occidental! monlis *Elbrus*
Kolschy pi. Pers. bor N° ft9.

Gaules semipedales, spine sex lineas longis; calycis lubuB S1}9
lineas longus, lacinlte 6-7 lineas longe Valdè afSnw *L. Aucheri* a
quo differ? foliis magis dissecliB, calycis tubo lanalo lacinus non ut
in eo angustè hneanbus in mucronem allcoualis sed basi anguslatis
ellipticis apice oblusiusculis mucronalis

BALLOTA DAXASCEHA Boiss. in pi Syr eis 1846 (Sect. *Beringeria*).

B. basi snffrubcosa mullicaulu caulibus herbaceis lan& albá ad-
prmsA densè bombycims simplicissimis ereclie flexuosis parcc folio-
sis, foliis brCTlgsimè petalatis lomcnlo gnaeo subflavido denso ve-

sdlis orbiculari-conldhs parvis oblusissimi- crenulalis, verticillaslns 2-3 rcinolmjiiu munitions ad axillas foliorum florañmum conformium deflexorum cis breviorum sida, bracteis anguslè oblongo-spatbulahs acutiusculis calyce brevionbus, calycis densè lontanlosi limbo palenli lubo diiplò brevion brevissunç 10-12 crrnalo crenis mmulissime spinulosis, corolla? rowa* valdè hirsute lubo incluso labio supcrion longo recto augiislè lincan apice bifido inferions lobo intermedio laic emarginalo

Hib in collilms calidis pone pagum *Salhieli* prope *Damaacum*.
lçgi flonferain Maio

Vix pedahs, Mia diametro 6-7 lmcas lata, verlicillasln maynil. nucis parvaj, calycis lubus SifS lincas longus limbus diametro 2 1/2-3 lincas circiter lalus Pulchra sprcips caulibus dense bouiby-cirus insigms

BALLOTA LAAEKDANA BOISS cl Hcldr in pi Anal cxa. 1846. DC
I'rodr XII p. U19 (Seel *Deriruferia*)

U lola mollilor el palule Inrsiila, caulibus basi proslratis ramosis, folns ainplis uordalis rotundalis grossè et rolundalim crenatis peliola-Us sublùs uiagis canscenlibus, floralibus minonbus breviCer petiolalis verliccliis paulù longionbus, verlicillastris mulliflons approxi-inalis, bracteis lincanbus aculis calyce subtnplò brevioribus, calycis brevilor tomentosì ynsei limbo patu'o lubo quadrupl6 brevion denlibus dccem Inangularibns acutis, corollas lubo incluso labio supe-non valde' hirst) to

Hab ad rmnas urbis anliqmc *Idirenda* in *Lycaonid* ad radices montis *Karadagh* (Hcldr), Fl Julio

Caulcs pdales a basi ramosi, folia majora diametro sesquipollicam; verticillastn rainils flonbundi eis fl *hispanicce* em affinis eslrl aquafolus rolundalis, bracleis bn'vissimis, calycis denhbus •ion subiilalis dislingmliir *B ducheri* quoque aflims differl calyce 16 denlato alusque nolis

PHILOWS ABHBRIACA Willd. Tar *brachyodon* BOISB.

Folia ovata oblusa valdc cordata. Indumentum planuecano-flaves-cens pannosuìn Canles sunplices puinih A formâ vulgalion speciei

differt dentibus calycinis ovatis vel oblongis brevibus obtusissimis ut
in *Ph. Ntowlii*

Hab. in Paloutinâ inter *Hierosolymam* et *Jericho* Boiss

PBLOHIS SYMACA BOISS (Seel *Gymnophlomis*)

P. basi suffrutescens tota indumento pannoso adpressissimo tonui
griseo vel flavido lomentosa, caulis paniculato-ramosis, folia
radicalibus longi petiolatis basi truncato-subcordatis oblongo-lanceo-
bus vix linearibus obtusis, canaliculis oblongis in petiolum breviter
alternatis, verticillatis fr-6 floris parvis distichis folia
orbiculata linearibus obtusis eis xqmlongis suffulvis, calycis dense
tomentosi angulati dentibus brevibus latis ovalibus mucicis, corollae
(tubo incluso) galbâ lutescentissimâ apice minutè tridentata, inferius
lobis lateralibus fere obsolete intermedio latè bilobo.

Hab. in collibus sicca circa *Aleppum* et *Antiochiam* (Boiss.) Fl
Julio.

Folia radicalia petiolo 4-3 pollices longo suffulta 3-5 pollices longa
7-9 lineas lata Panicula omnimoda *Nimolii* a qua ut *Ph. laneolata*
a *Ph. Armeniacâ* foliorum formâ, indumento adpresso nec floccoso
crasso distinguuntur

PBLOHIS CHYBOHYLLA Boiss in pi Syr exs 1846. (Sect. *Dendro-
phlomis*)

Ph. fruticosa tota indumento brevissimo tomentoso foliorum junio-
rum aureo reliquarum partium griseo-flavido (cruentâ) paucis, (o-
vals breviter ovalis cordatis obtusissimis subt& valde nervoso-relicu-
latis floralibus oblongo-spathulatis obtusis verticillos superantibus,
verticillatis solitatis vel bimis multo sessilibus densissimis
femoralibus, bracteis angustè linearibus rigidis densis subpungentibus
calyce paulo brevioribus, calycis strictè dense aureo-pannoso valde
sulcati acutè angulati truncati angustis in denticulos spinulosos
multos abeuntibus, corollae intense auree tomentose labio su-
periori amplo valde curvato extremitate obsolete tridentato, info-
rius intermedio lobo emarginato.

Hab. in regione infera *Hermani** supra *Raschttya* c. (in *Anhli-
bano* prope *Zebdani* (Boiss.) Fl Jul

buffrutex B-0 pedalis, folia juniora parva, majura 1 *ifi*-% pollices longa, calyces 6 Jincds longi. Afūms *Ph aureus* a qua indumenta adpresso lunuion nun floccuso, folus brevionbus lationbus« braceis anguslissimis, calycis brevions Iruncali denlibus dmudiò brevionbus spinulifurraibus egrcgie differt.

Obs *Ph eymifera* Boiss Diagn. VII ut cl Bentli. reclisBiinè obscravil nihil usl nisi *Ph. Persica* Uoi9S. in Diagn N°V, ex apecimine mcoimplelo descnpta

ERBHOSTAUIIYS UAHHA Doiss in Kolschy pi Pen bor 1846. DC. Prodr XII p 848

E. glabermna, caule elalo albicanli simplicissiino, folus radicaibus long6 peliolatis oblongo-lanccolatis aculia profund6 et rotundatlm crcnalo-lobatis basi breviler cunealis Tel truncalo-subuordatis lobis infenonbus profuudionbus, folus cauhms paucis brevionbua subsesilibus, florahbus cunualo-subspalhulatis apice spinulosis 3-4 dentate flores subsuperanlibus vel eequantibus, verticillaslns paucfloris numerosis remolis, bracteis selaceis ngidis calyce dimidio brevionbus, calycis glabn rigidi membranacei denlibus S brevibus tenens Iruncalo-rolusis subquadratis ciliatis dorso in spinam setaceam eis duplù longiorecm abcuntibus, corolla; tubo incluso

Hab. in monle *Elbrus* prop6 pagum *Passgala* Kotschy pi. Pen bor N°290.

Gaules bipcdales pennà ansennà lenuiorea, folia radicalia petiolo 9-3 pollican suffuKa 3-8 pollicana 13-1B liaea lala Verbdllaatn numero 4-9 inter se 1-5 pollices dislanlcs subseiflon, calyces 6-7 lineas longi, spins loborum 9 lineas longs. Species disbntissima inter *Phlomidem* (Sect. *Phlomidop&is*) et *Eremottachydem* intermedia sed huic genen propter afGnitalem cum *E gymnocalyci* adsocianda

TEUCBIUH PBSTAUWZ* BOISS (Sect *Teucris*)

T. suffrulosum, caulibus procumbentibus lorlnosis Hgnosis, ramis pumilis erectis densè foliosia ramoloBis, ramulis sob lente minulissimè et adpressû puberulis, folus ngidis duns nlnnquè glabnusculis obInngo-lineanbus lineanbusve basi atlcnaatis sessilibus oblais suprâ mtidis subtis albidis marginc valdd revolutis nervo medio elevato

percursis, floralibus oblongis aciculis pedunculos superantibus, floribus binis oppositis pedunculis tenuissimis calyci subaequilongis suffultis subunilateralibus racemum brevem lamusculum formantibus, calyce parvo et brevissimo sub lente pilosulo ad medium usque in densis (nanguldres acutos subpungentes parvo, corolla sublimis presertim ad lobum intermedium elongatum dense albo-barbato

Hab. in Lycia propè Elmalu Coram c. D* Pcsalozza.

Rami in rinceo specimen 3-B pollicares, folia 6-8 lineas longa 1-11}S lala Calyces fructiferae demum 3 lineas longi AfGne T. *brevifolio* et T. *Cretico* que differunt foliis in specie priori oblongis, in posteriori multo longioribus sublimis cavis, calyce tomentoso, corollis breviter tomentellis vel glabrusculis

TEUCHIUM NIVALB BOISS (Seel *Teucrium*)

T. lotum conspue pubescens, rhizomale lignoso mullicaule, caulis pumilis simplicibus, foliis sessilibus amblyotundis bipinnatis lacinis leniter hincaribus confertis, floribus solitariis pedunculis oppositis folia floralia non superantibus calyce subduplo longioribus suffultis racemos terminales foliosos breves formantibus, calycis canescentis dentibus anguste lanceolatis acutis lubo aequilongis, corollae calyce triplo longioris lobis lateralibus acutis

Hab. in cacumine montis *Gebel es Sckeick (Harmon)*. Boiss alt. circ. 9000'. Fl. Juli

Caulis semipodalis strictus, folia 6-6 lineas longa, pedunculi 4-6* lineas longi Affine T. *Orientali* a quo differit rhizomale lignoso, caulis simplicibus nee paniculatis, lacinis fithorum magis strictis, pedunculis 1 nee Infloris folio florali subbrevioribus, induentia crispulo

TEUCHIUM SIFAICUB BOISS (Seel *Poliwn*)

T. fruticosum ramosissimum ramis strictis palule et dense hirsutis, foliis sessilibus oblongo-linearibus obtusis supern^ crenuloplicatis margine revolutis hirsuto-tomentosis griseis, floribus in capitula globosa terminalia densa foliis eis brevioribus bipartita condensatis; calycis breviter campanulati dentibus subaequalibus brevissimis inangulan-ovalis, corollas labio infero oblongo elongato.

T. *polium* var. *pilosum* Decaisne Flor Sinaica in Ann Sc Nat

Hab in montibus Suiatfcfa *Arabica* (Itove, Schump, Boras)

Meosensu el vivum observatum a T *polit* tarielatibus planè dversum caulibus frulicosis fere pedalibus, ramis erectis palnè hiranbs nec adprcssè albo-lomentosis, capiliis sohlams nee conglobatis, labio corolla: provccion

AjibA PALASTINA BOISS (Sect *CKanuapilis*).

A perennis basi suffrutescens, caulibus diffusis ramosis patulè lanalis, folus radicalibus lincan-spalhulatis obtusè et brevissimè dentalis, caulibus el floralibus sinclis brevibus ad medium usquè in lacunas hnearcs breves obtusas Inpartitis omnibus adpressiusculè lursults canescens, verlicillis folia floralia aquantibus biflons racinos longos mcriiu laios parlc aupenori densos formantibus, calyce sessili brevissimo densè et breviter canescens ad tertiam partem usquè in lobos breviter triangulares aculos fissos, corollam aurantiaco-flavà hirsutà calyce plus Inplò tongion lobo exserto, lobo inferiori labio ovato-rotundo basi strangulato vincto purpureo-punctato.

Hab in collibus circa *Bierosolyman* el *Damascum* (Boiss).

Planla 4-6 pollicans, folia floralia intermedia circiter sex lineas lala, calyx 9 lineas corolla 7 lineas longi Ab A. CM& differit folds sinclis minus profundè Insectis laciniis brevibus, lobo inferiori corollae latiori punctato, lobis calycinis brevibus latioribus, fructibus minus rugosis A *Indaetyliles* differit folus latioribus cuneato-spahulatis, racemis densis, colore florum, dentibus calycis longioribus

PLUMBAGINACEAE

STATICE ICONIA noiss. ol Heldr. in pi. Anat exs 1846. DC Prodr. XII, p 661 (Sect *LimoniumlyalotepHlea*).

81 perennis glabra lora tuberculata centro punctato-depressis scabra, folus parvis cilicis evandis obovalis obtusis in peliolum brevem attenuata, scapis limumibus a basi ramosissimis, ramis flexuosis inferioribus stenilibus parè ramulosis lobulis brevibus Innectis superioribus norymboso-paniculatis spiculis minutissimis biflons in spicas breves secundas pRtilo-scorpoidcas densè imbricatis, bracteis inferioribus

ins obtusis auperion duplò longion vix \QA basi ierbaceà cajlerùn oinnmò hyahnà relusà, calycis tubo brevissimo ad costaa et inter eas piloso, limbi tubo longions obcomci lobis enerviis ovalis obtusis crenulalu.

Hab. in salsis planilie *Koniali* Heldr. Fl. a»tale

Planta scimpdalis ramosissima media inter *S. Caspian* et *S. decipientem* a priori flonbus duniò imnonbus, bractea ferè ommnù hyalims, tuba calycis breviasuno lolo Inrsulo, a posteriori scapis Immilibus patulè nee slriclè ramosis, ramis stenlibus non muldfidis luberulis glabru nee spinulosis obsids flonbusque iniioribus divena

STATUE GLOBULIFERA DOISS. et Heldr. in pi. Anal. u. s. IBM. DC Prodr. XII pag. 66U (Sect. *Sphmoslachyit*).

S. perenms glabra glaucscens calcareo-punclala, **follis** ad collum densè rosulalis coriacea oralo-spalhulalls oblusis vel relusis nuicro-uulalis angusfl. et crispulè aiembranaceo-margmaUs in petiolum pla^nuoi brevem basi dilalalà vaginantem inernèallenuaUa, scapis elatls ereclo - fleioosta subangulalis a medio subdicholomè paniculaloramosiSi spiculis in globulos subsphasneos accùs ramos sessiles inferiores distantes superiores approximalos densissimè eongeslis, bracteis inferioribus omninò membranaceisrufcscenlibuaplanUa basi ovalà fflQcronulatis ad basin globuli imbricatis, supenon duplò longiorl ovato-rotundà dorso vmdi plicato-subcannali margine et apice latè hyalinà oWusisstuiA flores subaequanli, bracteolia interfloralibus numeroais, calycis tubo insertione redo breviter obconico lolo densè albo-hirauto, limbo tubo dimidiò brevion recto albo lobis brevibus aubrolundis undulalo-plicalia, corollà rosefl calyce vix longion a basi polypelalà sstivahone contort post anthesm corculalA, filamenUs imà basi pelaloruoi adnatis, stylis a basi dislmclig.

Hab. in salsu hyeme inundalis planilici *Koniah* (Heldr) Pl. estate.

Folia 1 **Iji** pollices longa 8-0 tineas lala petiolo pollicarl suffulta. Scapos ferè pedalis. Globuli florum magnitudims pisl in paniculà subsecondà. 15-50 Flores mmuti Calyi VII lineà unà longior obcomcus.

PLANTAGINACEAE

PLANTAGO AIWHLA DOISS in pi l'iard Orient oxs 1847 (Sect *Psyllium*)

Planta pennis caulis suffruticulis ascendens dumosa ciliata nudis apice ramosa, ramis dense foliosis sessilibus simplicibus, foliis glabra ramo adpressis uniseriatis integerrimis oblanceolatis incurvatis luscis viscidissimis, pedunculis ex axillis superioribus paucis corymbosis inapicatis folia paulo superantibus, spicis ovalo-rotundis paucifloris, bracteis ovatis breviter acuminalibus calycisque laciniis ovalibus inter se coalitis posterioribus obsolete canalibus annatis vix omnibus aculeis breviter hirsutis, corollae laciniis ovalo-lanceolatis acutis mucronatis

Plantago aiwyla Unio Unio in pi exs non L — *Plantago psyllium* S. Sinaica Barnoud monogr Plant — *Plantago sinaica* Decaisne in DC. Prodr.

Hab. in jugi *Sinaitidis* arcensis (Schimper N° 171, Aucher M°1717), copiosè in valle *Arbain* (Doiss Pinard)

Planta dumosa densa caulis pedales formans, folia In specimenibus majoribus 9-18 lineas longa 1/3 lineam lata In minoribus autem lineam fere lata Pedunculi 1-1 1/2 pollicares. Capitula parva majora B-7 flora Nullo pacto cum *Plantago ptyllio* aliusque speciebus annatis si'dionis confundi potest, *Plantago cynop** autem cui magis accedit praeter indumentum vix deficitiam optime a nostris distinguitur foliis multo tenuioribus longioribus, pedunculis elongatis, bracteis inferioribus in caudam herbaceam eis aequilongam abeuntibus, laciniis calycis acute canalibus, caulis hamulis basi procumbentibus. cl Barnoud bane ut vanclatem nec at speciem propriam loco citato habuit, cam igitur sub nomine speciei jam anno 1847 a me proposito descripsi

CHENOPOMACEA:

ATHIFLM LEOGOCLADA BOISS. (Sod. *Teulliopsia*)

A. perennis basi suffrutescens, caulis numerosis prostratis vel ascendentibus laceratis ramis subsessilibus albidis internodiis glabrescentibus supernè furfuraco-squamosis, foliis alternis obtusis eodem modo membranaceo-squamoso canis submembranaceis infimis minoribus oblongis basi brevissimè cuneatis petiolo brevi insidentibus subintegris ceterum basi laboribus truncatis utrinquè inferè oblucis 1-9 dentatis subsinuatisve deorsum oblongis sessilibus, ammittunt sessilibus triangularibus, floribus glomerulis in racemos graciles deorsum elongatos natis remanentibus, perigonio fructifero (junioribus) basi breviter cuneato lobis ad medium usque in lobis lobis oblongis rostratis intermedio paulo majore.

Hab. In desertis Arabiae Petrae, vallis montis Sinai (Boiss., Schimper N^o » Bab. A. roied), Wadi Useti (Boiss.) Fl. maritima. Arabicè vulgè Hurgul TCI Roeholl

Rami 1-2 pedales, folia intermedia 6-8 lineas longa superiora et inferiora decrescentia, racemi sub fine antherae numero terminati 3-4 pollicares. Habitat et folia ralde affinis *A. diffusae* Ten. var. *commutata* Guss. qua? in Dianthis Galloae australis, Hiapaniae et Italiae occurrunt et praeter densius folium acutius indumentum-que parcius pollinis fannaceum quam tomentello-lepidotum facile dignoscitur pengomo triangulari-rhombeo inferè albo-cartilagineo apice 5-8 dentato dentibus acutis triangularibus lateralibus brevissimis

ATHIFLUS uMTHI Boiss. (Sect. *TeviUoptis*)

A. aonaa, caulis nani lenulbus albidis inferè angulatis sub lente paret Testiculoso-papillosis vel glabris simplicibus vel parvis ramosis fohosis, foliis oblongis glaucis utrinquè sed subtus copiosius papillis vesiculosis canescentibus margine subundulatis repando-denticulatis inferioribus petiolaribus obtusis superioribus sessilibus acutiuscula,

glomerulis florum racemulos breves terminates basi subinterruptos
foliisque supraculis alipatos formantibus, perigonu papillis
nigris nigris Inria, fructu .

Hab in regione supenor *Libani* supra *Cedros* ubi Junii fine eam
floriferam Iegi.

Var. 8 lanceolate — Folia lanceolata a basi breviter enneata
saepu ntrinruc> dente majori acuta aculiora.

Hab. in nionto *Kuh-DaSna Persia Australia* (Kotachy N° 714 sub
A. loeniaUB var)

Species ob fructum ignolum adhucdum imperfecta nota sed inter
oines sectionis racemum ob papillas perigonii nigricanti-hirtis notabi-
lis EsL probabiliter ex affinitate *A laciniata* vel *A potato*. Caules
S-3 pollicares fructiferi probabihssime longiores, folia 6-8 lineas
longa 5-4 lala in vanclalc p rapè IS-IK linea9 longa Spicm flbnferae
terminales KG lineas longae Ambo forme; liabilo el characteribus
florum optimu congruunt

ATRIPLEX PERSICA BOISS (Sect *Teutliopais*)

A. fruticosa, ramis lenibus virgatis terebinta ramulosla epidennide
tenui albidâ vel liliis apice puberulis in(ern6 glabriSi folis Indumento
adpnrissimo camis basi bruvissimu cuneatis subtruncaliave breviter
puliolalis oblongis oblusissimis integerrim se|16 delloidea, race-
uis fructiferis leriiniialibus laxiusculis, |>erigonio fructifero adpressè
albo-velulino ovalo-orbicula basi breviter allenualo Integra vel ob-
soletè repando-angulato anguis oblusiusculis

Hab in desertis *Perstas* Aucher N° 8208.

Habitu, foboruin magnitudinc et formâ *A halimwn* referens Bed
indmnenlo fere minus adpresso obsita, racomi fructiferi 1 1f9 polli-
cares, pcongiuni fructiferu 54 lineas longum % 1;4-3 latura *A.*
haltmua differt fructu tranfaversè lation roniformi basi subcordalo
glabro vel parc6 hirlulo

ATRIPLEX PALASTINA BOISS (Sect *OMone*).

A. fluffrullcosa lora indumento denso papilloso cana caulibus diffu-
sis loralibus velulino-papillosis abbrevialis dumosis ramosis ramisque
densiusculè foliosis, Cois sessilibus vel subsessilibus basi attenuallf
infimU parvis ovalis vel oblongo-spahulalis Inlegemmis coelerh ob-

loiiigo-lincanbus vel Imeari-subrhombu inlegris vel eroso denlicu-
lalis, suimnis lioeanbus inlegris, omnibus obtusis vel acullusculls,
axillis 6eepiùs fasciculos foliorum edenlibus, florum glomerulis race-
mos lerminalibus lenues longmsculos inlerraptos laxos formanllibus
inferfonbus folio suffultis, pengonio fructifero scaaili oblongo-rlion-
beo minuto basi longiusculè el acule cuneato apice obtuso factò ulrà-
que 3-4 Uibcrvulis valulis dentiformibus inlrieto.

Hab. in incultis *jEgypti ad Ateandriam* (Kralik), *Arabia Petrea*
et *Palestina conlcrmlnai* (Boiss), *Judece inter Jerusalem et Jericho*
(DOISS.) ad basin collium *Damasci* (Boiss.)

Gaules numerosi ascendente semipedales, folia majora 9-11 lineas
longa circiter tras lala Racenu fructifera 3-4 pollicarea, fructus 1 1/2
lineaa longus lineam unam lalus. Badicula lateralis ascendens. Hax
species quteest forsan ex parte *A. ylauca* DC. Prodr. a spccimibus
Hi9pamcis *A.* gtuocce vene certò dlffert caulibus diffusis ucc aacn-
dentibus, folus non ovalle subrolundiave mtegris sed elonualis llinea-
ri-rbombeis, fructu oblongo nee Bubrotundo-rbomboo, wiblobato nea
tnlobalo. — Genus *Obione* situ radicle ab *Atriplice* lanlùm disce-
dens rollil saltern quoad aectionem pmm DC Prodr. ab *Atriplice*
•ion aaJis disUnclum videitir

OBENOUA ARABICA Bolss

Cb. soffrotlicosa, caullbos ascendentibus dem erectu ramoBis du-
mam hamilem forraanCibus ramisque foltosU Unâ albâ brevi vestitis
fructiferis BUBglabreseentibus infimis floralibusque abbreviate, flori-
bus hennaplirodiliB in glomerolos densos bombyemos ovalos *vel* sub-
rolundoft raraos splcaeformos terminates baal inlcrruptos formanles
dfaposiliB, bracteis ovalo-oblongis giabresrentibus flores stipantibus
eiaqueftoiMDquiloDgls, pengonto albo-membranaceo orceolato brevilcr
et oblosiDBciilè B dentato extia long6 el densè albo-bombycno.

Hab. In desertisjugi *Tih Arabia petrea* ubi Martlo floral, in de-
clivibus aridis *Judem* venOs vallem *Jordani* Infrâ Si *9aba* April!
fructifera (Bolas).

(?aules breves prostrati vel ascendentes dumos BemlpedaleB for-
mantes, rami ob Indumentum lanatum craBslusculi, folia majora 3-4
Hneas longa lineam unam lata. Spicai florum J-B pollicares ex glo-
merulis densis H-IB florn 94 lineas longis infenonbus valdi dlsinn-"

bbus Bupnonbus inlnonbua conflunlibus coiulanles. Perigomum fructifcrum 11j* lineas longum ovalo-rolundum Semen horizontale ovalum extremilalc radican aculiusculum cadiculâ circulan clevalâ. IMania charactenbus generis oplunċ congruenB a specie Cananensi cjusdem generis indumenlo inullò magis lanalo, flonbus bombicims nee virescentitus glomcrulosis nec per 1-3 in axillis diBposilis, spicis crassis nee lenuibus dislmcla.

CIIGNUPODISA AffPIALICA HoiSB.

Gh fruticosa, caulibus erectis palenlnn ramosis cincrascenllbus raimsqc tenuibuB snalo-subangulalia glabns, folns carnoBUis elongatis lineari-filiformibus oblusis in petiolulum obscure allenuatis, floralibus abbreviate, flonbus 1-B in axillis sessihbus vel ob pedicellum adnatum c\ pctiolo folii floralu veluli orinndis bracteolis minusimis albo-racmbranaccis slipalis, perigomo fructifero immolalo, srmine borizonlali.

' Ilab In *Judccd*, ad littora soptenlnnonalia lacua *Asphaltttis* ubi Icgi Maio 1846

Frulcx. Caulcs cl rami tcnues corlice cincrascenti veslib submoso>slriati. Folia (f7 lineas longa 3j4 lines lala, floralia 4-5 lineas longa. Flores llhs *Ch. m/aritima* (era minores Species caractere glomcrulorum supenorum petiolo adnatorum notabilis, affinis *Ch. dendroidi* qus diflert flonbus dupl6 majonbus, ramis crassionbus etc, et *Ch. pltyaophorcB* qus habitu et ramis palulis simllis eat sed qua; cis luberculads, perigomo rractifero inflate, folns longioribus dlslingiutur.

CABOXYLOR LANA FOLIUM DOIBB

Ch sufruhcosum, caulibuB erectis subangulatis junioribus lineis albis vindibusquo snatas elongalim el Bubpyramidahm ramosis, folns e basi latiori utnnqu6 plùs minusve longè decurrenli longè lanceolatis Bubulalo-atlenuaLis glaucescenlibus glabrls, floralibuB multò anguslionbus brevionbusquepatenlibus vel deflexis, floribus In aill-IIB ramorum solilarus sesBilibus numerosis, bracteu folio floral! perigomoquG mult6 brevionbus triangularl-lanceolalis acutiusculis, pengonu foliolis oblongo-triangularibuB oblosia margine membranacels, fructus alis palentibus ampliB subinaequalibus Bubrolandls margine rrcnalo-dentalis adpress^ plicalo-stnaUs.

SaUola landfoha Boiss. Mss

Hab ad lillora septentrionali lacus *AaplutUihs* in *Judged* (Boiss).

Planla 1 Ifs pedalis, canles raimque ngidi mulliflon, folia plana carnosula longè attenuate acutissima 1-1 1]S pollicana basi 1-9 hneas lata, floralia 1 1}3 lineas longa Bracles perlgonio subdinudft brevioros, pengomi fructifen aUe 1 1;1-1 tineas labs Species affinis *Gaeutifolio* Bfoq -decurnerttf J el Sp. quod diflert ramis tenmonbus magis elongalis, foliis brcvionbus breviler aUenualls aupenonbua oblongis vel ovalis, ramis longionbus lenuionbus remoliAsque florifcra, alis fructfts siepè duplb lalioribns Neclanuin cyattiifornic in noatrâ specie valde obscurum

POLYGONACEÆ

POLVGOHUK LIBAHI Boiss (Sect. *Jviculariu*)

P glabram perenne, radice verticali durâ ad colluni suffruluscentli, ramls breviaaimw proBtrabs foliis oclireisque densè imbnatis omnino leclis, folns caraosulis pallidè virenlibus etliptico-Knearibus obtuaiuaculia mucrone albido facilè evanido instruclis baai alleouatls fade Bupenori enerrila subtùs basin versùs craasè uninervils margineque subrevolutis, ochreis mveis venlncosis ovatia enerviia apice 4-B flmbrlalo-iaceris folio lertiâ vel dimidift parle bravionbus, flonbus Bolilarila axillanbus seasilibus ocbreis occullalis, oclireoli campanulalA florem includcna pengomuinquaequanli vel subaupcrantl profundè flmbrlala, pengonn albldo-virescentliB u^rà medium lobati lobis eilenortbus duobus aeuluscalis cnteris obtusis, achentls

Hab. in cacumlolibus excelsis *Libani* in jugo *Makmel* dlclo et *Anlihani* in uionle *Hermone* rarum. Legi floriferum Julio 1846.

Raml In inels speciminibua pollicares csspites parvoa formantea, folia circiler Ires lineas longa lalfora auperaè vli onaro Ifneam lata Ex affinUate *P. Kotschyani* Bolas.-thymifoMi J. etSp. et *P. radiosUranria* abbrevialb et flonbua solllarus ab eia atalim dignoBcendum, fade non absinule *P. paronychioidt* P. el M. quod differ! foliis elongalis apice aUenualls, ochreis lanccolatis folia aMjnantibus allsque ndlis.

RDHH EutasENSis Boiss in Kotachy pi. Pen. bor. 184C (Seel. (*Lapathum*)).

R. caule erecto striato infernè fohoso sitnplici supernè in paniculain elongatam spiciformem depauperatam laxiusculamabeunU,foliis petiolo eis pauld brvion supernè piano vel basin versùs sabcanaliculato infernè convexo atnalo suffullu oblongo-lanceolatis acutiusculis basi maequahbus vel breviter cuneatis vel rolundato-sublruncatis tenens vmdibus, cauluus breviter petlolahs, floralibus paactaimis lanceolalo-linearibus ad basin verbcillorum infcnorum silis, pedudculia fructiferiB deflexis pengonio seaqm vel duplti longioribus capillaribus sub perigomo mcrassalis, perigonu lacimis inlenoribus amplia orbicularibus basi (runc&Cs nudis reliculads aculiusculis tircQm-circi obsoletè eroso-deoliculalis.

Hab. in monle *Elbrus* propè pagum *Passgata* Kolschy pi. Pen. bor N° S94.

Planta ut videtur 9-9 i}3 pedalis, folia radicalia petiolo ft-8 pollican suffalla 8-10 pollicea longa 11#lata, panícula angasia ferè pedalis. Valvute perigonu 4 lineas diametro laUe. Ex afGnilale R. *patienticB* a qud folua magis tenens, pameulà depauperafa, valvolla basi non cordatis semper nudis discedit. A *domesticu** qu qnoqae valvolis nudis gaudet longe differ! folus flnnis margine undulalocrispis, pauculasfoliosBramisdensAfrnctifens, valvolis miooribiu basi cordatis etc.

Obs Planta de quà in Diagn. pi. Or. V. p. 16 sub *A. peregrini* nomine locutus sum est *A. uneatus Eori.-hamatus* Trerir. Mea specimma Anatolica Javanieis a d. Zollinger missis prater Talvularam apicem magis abbreviatum similluna sont. Verum *A. peregrinum* R et Sch. adhucdñm non novi.

RUMEX RAULin Bbiss (Sect *Lapathum* L)

R. glaber, radicia collo erasso subsquamoso nigro, canle erecto angulato-sulcato a basi ipsâ plories dlchotorao, ramis etongalb, folds radicalibus longè petiolalis parris oblongo-obovatls obtmto basi breviter attenoatis margine tenulssimè ondalalis teoerto sobtòs ad nervos saspè papillis raris obsitis, fleralibus breriter peHolalis IIncari-lanceolatis acutiuscolis ex anoqaoque verticillo singalia eoqoe

duplò longionbus, verticillia ad oinnes dichotomias et sectis ram'os
Viler ae remolla, peduncolis fractiferu refleis duris aub medio arti-
culatis et ibi anoalatum inflatla aub frnctũ. Iterũm incrasaatia eo aeqni-
longls vel paulò longioribus, laciois pengomi fruehferi interioriboa
(riangulanbaa valdè relicoiato-Insculptls ulrinquè dentibiu *-.* rigi-
dia validis linearibus apfce Indivisia vel bifnrcis valvula latitudine
longionbus Instructs omnihua graniferis, valvnse appendlce termi-
nal! oblnsiiaclã subdenliculatft, grania oblongia tnbereulalia ralvuls
dimldie aequllongia

Hab. in insultCrstd nudè retohtcl V. Raulin

Planta pedalis, folia radicaa petiolo trlpollicai suffulla, 1-1/2
pollicea longa 9-iJ lineaa lata valvulae frachfere 9 i|3 Hneaa longje,
apinas margfnatea sesquilineam aat amplids longse Affinis B. *diva-
rtcato* quern bolanici plures pro yanelate R. *pulchri* babent ab eo
diatinctua foliia mmorebua baai non cordatiaaobatanlUetenuioria, ra-
nils arecliB nee divaricalis, apfnis valvularum malld validioribna lon-
gioribnaque. In JL *divariato* et *pulchro* apinae margnatea dimidiA
lalitudine valvule breviora sunl A. *suffocatus* Moris nostrae ape-
ciei formã valvularnm affinis eat planta multò minor acaulia rel
aubacattlis. veriicillia aubcontigun, fruclu minor!, spinis valvularum
laUludlne brevioribus.

RunK TkoLEoa Bofai. (Sect. *Acetooa*)

R. perennia, radice . . . , caulibus erectia ngidia valdè stnato-
aulealia infernè folioaia, folila craaauiacnlia firmn glaucis oboalelè
luberenlatu glabna margine tenuiasimè el obsoletè crispulia oblongo-
liangalanbua aculia baai haatata amnculia divergentibus triangulan-
acutls Indlvisb vel lobnlo aaoMs, infimia peliolatis supenonbua aea-
alllbua, ochreis margne integra, pamculã termmalì ibyreoidèa den-
sfasimè molliflorã contracts, perigomi lacimia eitenonbua defleua
'brevioribua, interlonbua parvia ovalis mtegra baai rolondatia callo
mlnuto dtadformi defleio obaitia.

Hab. In pratU anbalplnia pingulbua humldia *Tmott* prapè *Bozdagh*
in *Lydid*. Legl fimctiferum Janii fine.

PianU bipedalla vel elatior, folia eia R. *aetow* paulò majora, pa-
nieota aemipedfJia vel loogior ramia atrictta omnibus denaè Oorifena,
valvolas fructiCene eu R. *acetates* mlnores. Ab hãc specie cut affinis
eat glauceacenlii, fojna crassionbua, caule robnalion, valvolia mi-

nonbus ovalis liasi non cordatis acd inpniuis paniculã Ibyrsoideã densã differl, afGnu quoque A *tuberoso* Bed prefer radices quas nōp comparare potui A. *tuberoaiu* habet valvulas majorea oblusissimas latiores quam longas basi valdē cordatas, pengonii lacimaa eitertores valvulis asquilongas

RUHBX CRETICUB BOUS (Sect *Acetosa*)

R. collo radice in nodum induratom incrassalo infer 116 Gbras subclavato cylindncas supernē caules plures procumbenles edenli, folus vindibus parvis subtus sub lenle obsolete tuberculalis longiusculē puliolatis haslalo-triangularibus oblusis basi (roncato-subcordatis auncalis brevibus dlvergentibu9 obtusis, pancaã lerminali brevi confclã, pedunculis capillanbus sab medio articulatis ibique mirē angustatis, lacinus pungonii extenonbus deQexis exlremilate dilatats intcnores aequanlibus inlenonbus amsnē roseis orblculatia Iransversē sublationbus oblusissimis basi Iruncahs vel connaviusculiscallo obsoletaasimo rotundo lostmctis.

Hab. in *Cretd* uode retnlil cl. Raulln aōDO 184S.

Caules in ineo specimine scmlpedales, folia 0-10 hneas longa basi 6-8 lata. Valvolae fructiferae 5-5 4f9 hneas late A. A. *intermfidh* DC., A. *lubaroso* et A. *triangular** quibus affinis est slatim dlgnos cilur caulibus procumbentibus liliformibus valvulisque basi oon sinu anguslo cordatis sed truncalis vel concaviusculis paul6 magla lalls quam longis. Hoc characlere accedit ad A *thyroidem* eaule ngido elalo, panicula densã multflorã, valvulis valdē graniferis apiceemarginatas dwlinctum

PTBROPYHUH GRACILE BOISS in pi Kolsch Pen bor. **16U.** (Sect *Streptocarya*)

P fruticosum ramis novellis teiiuissinns elongalls vlr̄gatu eplder² inde lam albã vctilis baBi patulē ramulosis, foiiis pauclsad ramorum partem inferiorem solitarus glaucis carnosulia elliptioo vel lineariobovatw oblusis aveniiB, racemis fructifens longissimls, peduneju infrã medium articulalis apice Incrassalis fasciculatis, nucieuHa basi i-S follolis mimmis lmeanbuB semiterelibus demum deeidqis stipatus, fructuB alis amsnē roseis gupernē sinu profundo bflobU parte supenon distorlacuminferionaUernanti, lobis alarum superioribiis in-

brlonbus ferè Iripl6 minonbus cum eis basi imbncatis omnibus
ujrinquè yaldè emargmatu.

Hab. propè *Sonak* in monle *Elbrus* Kotschy pi. Pen. bor eis
N° 664

Racemi fractifen simplldasiml ljj-1 pedalea quâ nolâ acbenioqne
cum aha 1-a i]3 llineaa tantum longo a P. *Olivieri* qaod ramulog
numerasoa abbreviates acheniaqua iW Ifneas longa babet dlreraum
videtur; lamen valdè affSma eat et forsã meliora numerosioraque
speclmina ea in unam eamdeinque speclem conjungenda ease ullentis
demonstrabiint

THYMELEyE

DAPHNE AGUMINATA BOHS e(Holi. in pi Kotachy Alep Kurd. 1645

D. fruticosa glabra ramia erecãa ramosis, ramulls tenuibua rubris
oitldisfoliosis, foliis linean-lanceolaha elongatia basi Ipogè atlenua-
Us aesailibus aculia mQcronulalis saspè subincurvw aopernè glabris
inferaè nerro medio prominulo inalruclis obsoletè rcliejilato-venoiaia,
florihua 8-7 brevisslmè pedunculatis in capitula corymbosa termina-
HacongésUa, perigonio dense et breviter albo-velutino florifero tubu-
loio lacinlU breviter ovatis obtusis tubo tripld brevioribua extúa
velotinfo fnlôs glabris luteo-foscis, perigonio frucUfero persialenti ob-
loogo, fractu perigonio laduso adpressè hirlo oblongo-linean nu-
camenlaceo aicco.

Bab. in monle *Gam Kurdistania* ubi Julio floret. Kotachy N°5J5.

Hamuli flonferi ferè semipedales. Folia 11}9-9 polllcea longa su-
pernè Sllf9lllineaa lata. Pengonlumflonferam 5lineas circiter longum
frncttferum longius diamelro I lfl lineaa latom. NDI 5 iji lineas
longa 11;5 Hneaj lata Species çnaraclenbus fructus *Chlamydantho*
C A. Meyer poliñs adsocianda sed habitu apUua prop* *D cnidium*
et *D. Caulasieam* inter *Eudaphnea* collocanda uhi reliqui donec
characterea generici Tbymelearum omninò dellmllaU fuerint.

SANTAKACK.tf

TMSIUM COMPRISUX UOIBS et Hldr in pi Anal, exs 18*6. (Sect *Tribracteuta*)

Th. annum vel bino glaberrimum, radice verticali cylindrical simplici, collo inulcauli catilibus lateribus indinaln lolermedio crecto omnibus virgalls inferoè pared ramoais folioBiaque paulft supri basin in racmos longissuuos basi nudos abcuntibus slriatis ramorum decurrenhâ acutè 9-5angulatis compreasiss, folus earaolls Biccitalu nigrlecanlibus linearibus erectis apice mucruno obtusuluculo brevi calloso terminatUt enervus, floribus subaeBullboft lanBslmi racemosis inimia lubulosia inferioribus aliquand6 3-3ma auperioribus solitanis omnibus tribracteatis infimoruai bracte& intermedift longa folio aimiU lateribus mininiBi omnium aliorum bracteis squanubformibus lanceolatis acuminatis pedicellum rli snperanlibus drop! multolies brevlonbus * drupa erect& brevuwunè pedunculatA oblongA inter B nerros longitudinales obsolete reticulatA perlgomo eA qoin-Liplb brflviori mlnulisflrao superatâ.

Hab. in salsis byemc inundalis planitie *Koniah* Inter urbem et montem *Karadagh* (Hldr) Fl. Junio.

Caulis B-10 pollicarea, folia 6 10 lineas longa llineam ferè lala. Racenn fructiferl lau sepè ferè [ledales. Flores lines B& longl, drupa vii llineâ unâ longlor Bractea intermedia infirals Ooribus exoplis llineam dimidiam yu longa, lalcrales dimidlò brevlorea. Species charactcnhus dislinclisslma propè *Th. humite* collocanda.

AHISTOLOCHFEyt:.

ARISTOLOCHIA PACIKANTHA BOISS

A. radice turvrosft oblongd, caulibus numerosis slmplicibus erectis flexuosis Hlnalin hirlis, folus mfimis 1-3 ad squamas BCSSIIOS oratas

acuminates mduclis cietens breviter ulnnque sclulos lurlis triangulart-utulongis vblusis basi profundè cordatà medium versùs in petfoluim (olio diuiddiù breviorcm hirtum breviter atlenualo-cunealà, aunculis rotundatis mlùs recurvatis a petiolo ulrinquè sinu rotundalo aeparalis, flonbus ad omnea anllas mfenores solitarus pedunculo hirlo petiolom squanli apice recurvo suffultis, ovano hoean-davato densè velulino-liirlo pedunculo 9 1}9 plA brevlori, perigomi extùs blrti lubo labio subcquilongo suprâ basin ovatam abruptè conalrclo cylindnco aupernè aubdilataio semlcirculariler racorro, lablp oblongo Iriangulari obtuso basl cordalo in % auriculas concavas oblongaa obtuaas ejus dlmdie longludlnl subtequilongas producto Inlds glabro vltreaeenU-flavido niaciilia alropurpuren versâ» tmbi Ingrossum frequendoribns iblque in unam confluentibus eleganter plclo, fructu oblongo magno.

Hab. In herbidda vallium *Samaria* In tnbâ *Ephroim*, ad baseaⁿ-tilibani circft *Rascheya*. Legi floriferam malo Ineante.

Caulcs 1}9-1 pedalea Folia petiolo 0-19 lineaa longo aufulta demum 3-5 polllces longa basl I t}2-9 lata marginibas lateralibus concavia Fiona magnl labio sesqulpollcem longo basi ferè pollcem lalo. Fructus 9 pollicea longns pollcem latas. Species pulcbra affinis *A. hirta* qnc differt foliis pro longltudine latioribus multò braviùta petlolatls auriculls lalionbus breviorlbaB Tersòj petlolum non recuratls, pedonculla petlolo longiorlboa, corolls labio acalo basl breviter auriculato Intùs concolori sellis abldia longis crispulis oballo.

AaitroLOCHiA SCABBIDULA Boisa.

Ar. radlce...., canllbni erectia Bimpllcibua striatis flnuosla selulla rabellfa palulfa sparsla brerlsslmla acabridia, foliis infiota Bquamasformlbuo oblongis obtusis caHeris ulrinquè Bed sublùs denslùs ralnu-Uasimè hibercolato-scabridia subtia diatinclè nerroaia petiolo el» snbtripl6 brctiori suffulllB oblongis obtusissimis cordalla, auriculia lath rotandatla scapè versùs petloli inserlionem fleita ab eo ulrinquè sinu oblnso aeparatis nervo ntedio fohl sobqulntupl6 brevioribus, pedonculla in axUlls Inferioribna aolilarila petiolo subdimidiò brevioribua valdè dliato-scabridla apice recurria In ovanum densè cillato-acabriduD llinearl-clavatum ela oquullongum Bubdilatatls, perigonli eilùs Bpanlaslmè aetuloBO-acabridl tobo labio aubasquullongo suprâ bisln ovalam abruptè conslnclco cylfndnco semlcircularller cur-

valo, labio oblongo-triangulari a basi latiori cordato sensim attenuate
obtusius subreclinato basi in auriculas binas rotundas eo triplici breviores
producto intus glaberrimo rubro maculis alio purpureis picis,
fructu ..

Hab. In *Antilibano* juxta *Zebdani* ubi legitur Conferam malo 1846

Caulis pedalis, folia majora bipollicina basi 15-18 lineas lata secus
marginem laterales conveia irregulariter crenata, petioli 8-10 lineas
longi. Labium ferè 12 lineas longum basi 6-7 lineas latum. A specie
precedenti cum affinis est differt maxime in magis scabrido,
foliis minoribus pro longitudine laevioribus, pedunculorum cum petiolo
in ovato proportionem, florum minoribus rubello-fuscis seculis labio
superiori magis angustato. An *MILUS* laminae vanelas?

URTICAE

PABIBTABIA MULTICAULU Boiss et Heldr. in pi. Anat. eis. 1846.

P. perennis, rhizomate suffruticoso caules numerosos crassiusculos
rigidos erectos teretibus bipollicibus puberulis striatis edulis, foliis
alternis ovatis breviter acumatis basi rotunda vel subcordatis
late virentibus pellucido-punctatis penninerviis utrinque minute
tuberculato-scabris (tubercula fere inferius aequis nervis vel paginam
totam occupant) pellucidis elongato-connatis brevissimis incurvatis
dentibus, petiolis brevissimis, florum omnibus hennaphroditis ad foliorum
axillas in apice pedunculi bracteatis dichotomis sessilibus terms
unoquoque 5 bracteato, bractea basi Inter se coalitis viridibus ovatis
(fere acutis hinc acutis perigono tuberculatis non accretibus,
pungentibus campanulatis virentibus a medio fere laciniis triangulatis
acutis hirtis stamina aequantibus, pungentibus fructifero basi membranaceo
robello vix elongato, nuculo nullo orato acuto.

Hab. in partibus montium tophaceorum prope urbem *Bouldour*
Ptiidiw (Heldr). Floret maio.

Caulis numerosi 6-10 pollices longi, folia majora 7-8 lineas longa
tota lata petiolo 1-2 lineas longo suffulta. Flores magnitudinis eorum
P. diffusa et *P. erecta* a quibus differt caulis crassioribus
rigidioribus, foliis non longilaeve peliolatis, oratis nec ovatis
Tellectis, scabridis nec hirtis pennis nec triplicinerviis. Floras
in super

oines hermaphroditi sunl nee inlermedli feminei, nun vindescens nee nlgra nillda P. *Crettea* bracteis frnctiferis accreacenbbus egreglè dfffert. Perigonlum frucflferum in nostrâ specie vix elongalur et circi-
ûr lineam unaiu longum remand

EUPHORBIAGEiG

Duxus IOHGIFOLIA Boiss

B Bnffrotescens, ramis glabns densè folions ramulosis virenllbus peliolorum basi utnnquë decurrenli linels elefalis percursis, **follis** elhptico-linearibus oblusis in peliolum brcvissimn glabernmum at-
tenuatB lucidia conaceis viridi-lulescenibus nervo medlo suprâ Im-
presso Bublûs subelevato albido perconis nervo marglnatis suâ
longitudine 5-3 *li* pl6 angasllonbus, pengonii pbyllls oblongo-lan-
ceolatb, anherb oblongo-BagillaUs, capsulâ magnâ palhdè virenli
ovatâ iruocatA rostrls aplce reeurvis eâ paul6 tantum bravioribus SD-
perali.

Hab. in montlbUB ad meridiem urbia *AntiochiCB* et later hanc ur-
bem et monlem *Casaium* situ Legi fraebferam Junlo

Folia 15-1B llnaea longa ft-B lata. Capsula cum rostrla sex llnas
el ampliûB longa. Seraiua nigra nltida 9 3(4 lineas longa. Pulclira
species. *B. Baleariea* ab eâ differt follis latfs, ramis pubernlia, an-
theris lineari-sagittlalis et forsaa qaoqae frnclu quem noa nori. *B.*
aemperrtreni tolus OVBUB dlmid!6 inlnonbus, raniis petiolisque pu-
berulb), perigonl phyllis ovalis, capsulâ dimidiõ minon rostriseâ
dimidd brevioiibns superalâ dlshnguilar.

EupHoaiA CABDIOPHYLLA BOIBB. et Heldr. In pi. Anat eu 1647.
(Sect. *Tthymahu*).

E. pereoniB glabra anbglauceBcent rbtaomate crasso cyllndrlco apice
ramoso molticaoli, eaglibna erectiB lenaibafiferta ba»l foliosisjam
a mediâ parte longilodinls ramolosls, follto substanllae tenuls mar-
gine Bob lente angostè eartilaglnelB obskort et mlnullBBhnè dentlcu-
htb inferiorlbas et eis canllam Bterhium obovatis vel oblongo-ellip-
tieiB basi attenuatta BeullibuB canllnto medfis ovato-oblongis vel ob-

longo-cliplicifia ubluis brevissimè mucronulalis basi tessili profunde cordatis aunculis rotundalis, ramis axillanbus simplicibus vel bifida ombellam lorroinalem Inradialara ferentibus paniculam oblongam laxam formantibus, radus bifidis, involucri phyllis ovalis involucellisque phyllis libens semiorbicularibus obtusissimis paulò raagis tails quam longis basi irudicalo-subcordatis inlegernmls, glandulis fusciscentibus transversè ovalis, involucri proprii dentihun purpureis apice truncalis, capsuto coccis dorso rotundalis verrucis hemisphaerico-depressissimis secus dorsum carpellorum altis Diagonis obsilis, seminibus ovatis levisibus

Hab in fruticulis regionis inferens montis *Solytna Lyda* Infrà *Kart8ibaUir(IH\dt)?\ imlioHau.*

Gaules in mea specimibus 8-10 pollicares, folia intermedia pollicana aut paulò longiora 5-6 lineas lata. Affinis *E condytoparpa* Bf D. cm folia et involucella ferè eadem sed in quæ radix Inberosa globosa cauleiu solitanum edit, margo foliorum regulariter et otulo nudo serrulatus est dentibus ascendentibus, capsula tandem verrucis conico-cylindricis densè obsita est

EWUOBIA CASSIA Doras. In pi. Syr. eis. 1846. (Sect *ftthymahu*).

B. perennia glabra basi suffrutescens multicaulis, caulibus tenuibus creeds virgalis rigidis foliosissimibus ramo florali uno alterutro Te auclis, folus erectis sinctis parvis appropinquantibus Inferioribus oblongo-spalhulatis obtusis In pedolum brevem longè attenuatam superioribus lineam-lanceolatis utrumquè attenuatis apice aculé mucronatis, omnibus a medio supernè remotè serrulatis serratis ascendentibus, umbellam terminali Inradiatam vel biradiatam radibus inequibus utpote brevissimis ramis simplicibus minimam Infloram, involucri phyllis foliis superioribus millimis terms lineam acutis radios plerumquè equantibus, involucellis triangularibus ovatis breviter acuminatis Integra basi breviter cuneatis subpeliolatis, glandulis flavis transversè ovalis, involucelli proprii dentibus albis triangularibus ovatis ciliatis, capsule coccis faBvtibus dorso rotundatis Seminibus griseis vel flavoviridibus areolis subrotundis depressis mrgia foveolatis.

Hab. In jugo umbrosis *Cauii* in regione inferiori secus viam quæ a *Laodiee* ad *Suadieh* itur circa pagum CMMD frequenter sed ubique sparsa (Roiss.) Floret Junio ineunte.

Caules pedales, folia intermedia 7-9 lineaa longa i lfs-9 lata versus apicem caulis eadodo angustata abbreviata acutata versus basin abbreviata obtusata Umbelhe magnitudie valdd inequales radus raro i lji-3 pullicanbus smpius brevisafmis donate sepissimè sessiles triflone mtoulffi. Involucelphylla 31 ljt-3 lioeas longa lalaqufi breviter acomioala. Capsule minute. Semen vu lincam unam longum areolis nigns subrotundis foveolatum. Species habitu peculiar donata inter *Tithymalos* subsecUoms *E helioscota* colloenda ui quà solùm *E mtcroseiadia* Boiss approximanda est a quà habtu ul cbaracteribus celerùm longè distal

EUPHORBIA CYBIBRRBIS BOISS Diagn. VII. p. 89

Hec ejus descptionl adde Planta annua. Folia caullna obovata obtusa mucronulata vel acutiuscula parte superior! margine autd serrulata serraturh asoendentibus. InvolucelU phylla basl aubcordata subrotunda saepè tranBTersè sublatiora. obtusa mucronulata sub lente obsoletè denhculata. Ovana glandulls aculeiforml-cylindncis aplce abrupta in setam albam aepè evandam abeunlibus obsita. Capsula spherica ferè eisolca stylo equllongo ad medium usquè trisecto superata iisdem glandulis spams cylindncis aculeiformibus plùs minus obsita in dichotoiills infenoribus presertim serò diffidèleque dehiscens. Semlaa oblonga fuBcescenUa Isevia.

Bab. in *Caria* (Boiss.), *PamphyUA* propè *Kourmalu* in incultla (Beldr.), *Pakutina* in ambrosis propè *Naplouse* et ad radices *Antilibani* propè *Raacheya* (Boiss)

Var. p *aentifolia* — Major, folia obsoleliùs serralaU involucraque °blongo-lanceolata aplce alternata acuta. Involucelphylla triangul-aivdeltoidea acuta. Gapsula facihùs dehlscens stagmate eà breviori infri medium tnfido soperata.

Hab. in regione Inferior! montis *Cassii Syria* borealis undè earn o aemlulbua relalis coluL

Species quoad foliorum et involuaellorum fbrmain, capralam magnitudine varlam In plantà Pamphylicà paulò mlnorem In Syriacà antem % llineas latam variabihs, diafuicUulma capsulis spbcncis glandalls tenaller eylndrids m aetam abeuntibos obsltis ad dlchotomias inferlorea anbindehlseentlbua more *E. akenocarpmei*. *E. microtpha-*
r « qulbus adsoclanda psl

EUPHORBIA OMDA Boiss. in pi. Syr. cxs. 1846 (Sect *Tithymalus*)

fi. percimis glabra, caule junion ad colliim (uberose-incrassafo adullo frulicoseo dumoso, ramis numerous fralicosis erecUs parte mfenon nudis cinerascenlibus Iambus sapernd foioais, foHis oblongs ulnnquc attcnualis acutia integernmls ulrinquc concolonbas brevis-Bimè peliolalis, uinbellâ terminali quInque-radialâ radiis scqnalibua bia tnfidis, involucn phylls radio brevioribus ovalo-oblongis deflexis, involucell obovatb obtusissimis basi breviter cuneatis, glandulis flavw Iransversd ovahs, involucelll propru dentibas pilosissImlB, capsulsc Bphacncas obluad Incoce verrucis sparsis breviter conicis. seminibua rufis ovatJs Ixvibus, anllo subglobofo ceraceo.

Hab in collibus calldis Syrisliltoralis clrci *Beryllium* et TrfpoMm frequens (Boiss). Fl. Maio

Frutex 9-3 pedahs caulibus ramisque oreclia dumum densum formanlibus. Folia circiter 8-10 lineas longa 3 ljt-3 lala Radii umbelle \ 1)S-9 pollicaros. Species affinis *E fructveosce* Biv. quse ab eâ dishnguitur ramia brevionbus parte nodâicatneoso-scabris neclavibus, folus Imeari-lanceolatiB aculiorlbus longionbus nervo medlo albido percursis, umbellâ breviradiatA» involucro radios asquanti, involucpllis ovaLs aculiusculis, capsulia paold majonbus verrocw cyliodrlcis crebrè obsilis

EUPHORBIA HIEHOSOLYMITANA BOISS in pi. Syr. exs. ISM. (Sect *Tithymalvis*)

E. perennls basi auffratenscens domulosa ramls numerosis tenuibus rlrgalis erecUs foliosis ferè berbaeis simpllcibuB, folus omnlbns obovatis apice rotundatis mucronulabs basi subangoslatto aesBilibiu mtegermmis, umbellis quioqueradiads radiis iBquallbiu bis bifidu Involucrum mult6 superantlbuB, involucris involucelUsquo **folila** almillimis obtusissimis mndcis, involucelll proprii e&tus hirlull dentibue albo-pilosissimia, capsule sphsrln coccis obtuais internè Bparsim **supernè densiùs verrucotls verrucis crassiusculis elongato-«oDldfl, semlmbuB ovalislasvibus, aulio depresso.**

Hab IB Judod arêa *Uierototymam* pnesertlm circâ tumulos antiquoB *Rggum* et *Judicum* dictos (Bourn), in *Palattind.* quoque. Aulclier N°303S

Suffructi sesquipedales, folia basi lineata longa 3-31)9 lina, radii umbellarum ferè bipollicares. Capsula diametro 1 U* lineata lata. Affinis speciei precedenti ab eà distinguitur statura humiliori, ramis magis herbaceis tenuioribus, foliorum forma, capsula densius longifera verrucosa. Ulterius lamen in loco natalibus cum e& comparanda

EUPHORBIA NOTADANA Boiss et Hohen in Kotschy pi. Pen. bor. 1846 (Seel. *Tithymalus*)

E. perennis ramis virgatis basi elatis, foliis glabris interfloribus lanceolato-linearibus utrinque attenuate sessilibus acutis margine angustè cartilagineo breviter serrulatis serraturis ascendentibus, ramis ei axillis apertis apice subtortis umbellae breviter quinqueradiatae radiis trifidis paniculam brevissimam paucifloram formantibus, involucri perfolli elliptici utrinque acatis, involucelli perfolli ovato-rotunda basi mucronata integra, involucelli prophyllis glabris dentibus albo-velutina, glandula transversè ovalis flavida, capsula rotunda sparsim et longè albopilosa aecidiosis dorso verrucis crassis limbo sphaerico-eomica basi confluentibus perispermatis aspersa secus sulcos, semina nigrescentia

Hab. In monte *Elbrus Persia borealis* prope *Derbend*. Kolachy N^o 4X0.

Canlea in meo apecimine semipedales. Folia inferiora bipollicana 4-8 lineata lata versus caulis apicem decrescentia. Panicula 4-8 pollicum longa ovalis. Radii umbellae terminalis sesquipollicares Capsula 4-8 lineata lata. Habitus *S. ceratocarpha* Ten quae differt foliis integerrimis, panicula ampliori, capsulis glabris. Affinis quoque *B. procera* ab omnibus formis cujus Berraria foliorum multò minoribus capsulae verrucosae nec punctatae faciliè dignoscitur.

EUPHORBIA KOTCHUVANA Fend. var. *thyrsoides* Boiss.

A typo speciei differt inflorescentia ob ramos laterales floriferos abbreviata thyrsoides nec corymbosa-paniculata. Inflorescentiae rami abbreviati pollicares. Involucra minima majore diametro 8 lineis lata.

Hab. in *Caramanit* (Pestalona)

EUPHORBIA POLYCAULA Boiss. et Hohenack in Kolachy pi Pers bor,
18*6 (Sect. *Esula*)

E perennis rhizomate craaso cylindrico apice ramoso caules plures cylindricos breves simplices infernè nudos cicalricos aupernè iolio-
aos edenti, folus glaucum sub lenle densè et minutissimè punctulans
integerrimis nervo marginalia margine basin vcrans tenuissimè sca-
bendo ciliatulis cmeram glabris caulium sterilium infimque eolium
floriferum dense conferllslinean-lanceolalisoblasiuscnlls mucro
•uilalis a parte supenon lalion sensim el longè attenuatis, caulims
9upenonbus magis sparsis abbreviatis obovalis vcl obversè oblongis
basi cunealis obtusissimis, umbellâ terminali 10-18 radialA radus
simplicibus involucro deflcio vk longlonbuB, involucri phyllis ob-
ovalis, involucelli uvatis obtusis, involucelli propm denlibus ovatis
albo-ciliatis, glandalis flavis transversè oblongis margine Inferion
obsoletè concavis emarginatis, ovario glabro laevi, capsulâ .

Hab. in parte occidental! montis *Elbrus* propè *Asadbar* In *Peraid*
boreah Kotschy N° 456 Fl. Julio Ineonte.

Rhinima crassitie digili. Gaules basi penoâ ansennâ paulè tenuio-
res semipedales Folia biforinia inferiora 1S-1H lineas longa 9 1{9-3
lineas lata, intermedia circiter 5 lineas longa Umbellic radii 7-8 lineas
long! Species imperfectè lantiim ex statu juniore taniim note habitu
B glyvuUcam vel *E characiam* referens aed omnibus partibus mi-
nor el involucelli phyllis libens ab eis longè discedens; naturalius
propè *E taxatitem* el ob umbellam mulliradiatam jutlâ *S. Nieaen-*
aem coHocanda, ab eis glanduhs via emarginatis inter eaa *TithymaU*
et *EaukB* modus, involucellisque basi non cordatis pneter formam fo-
horum distincta

EUPHORBIA ~~CHBADEBIA~~ Doiss et Hohen. (Seel. *Eaula*).

E. perennis glaberrima glaucescens, caulibus e rhizomate auDru-
tescenti numerosis erectis lerehbus simplicibus foliosis, follis lofimis
mionibus obovalis caslens oblongo-ellipticis acutis infernò longius-
culo altenuans omnibus integerrimis ngiduis aubeoriacefa, mbellece
terminans b-6 radiate radus flavidis apice brevissimè trifidis, involu-
cri radialis ferè dimidiè brevioris phyllis ovatis obtusis-mucronulatis,
involucelli phyllis flores occullantibus transversè ovatis basi tinneaUs

obtusiusculis multos, involucelli proprii glabris donlibus ovatis oblusis
dentatis albo-ciliatis, glandula transversè ovalis oblongisve margine
inferiori (runcada palmatimque in fl-8 cornua brevia recta apice saepe
denticulata multifida, ovario glaberrimo, capsula . .

E. schizadenia Bofss. et Hohenack. in Kolschy pi Pen bor 18A6

Hab in monte Elbrus *Pmice* borcalis propè *Passgala*, Kolschy
N°182, in Wwopotom M cirri Dfor&fiftir, Kolschy pi Nua Imp Vm-
lob. N° 232.

Gaulces 8-10 pollicares erecti rigidiusculi, folia sesquipedalium longa
3-4 lineas lata in speciminibus liuimilioribus nullò minora. Involu-
celli phylla 6-8 lineas longa 8-6 lata. Flores illius *E. IVicaensta* Tori
majores. Umbellae in speciminibus maioribus ad radium unicum
Bubnflomm redactas Ex affinitate *E. fiftweenrit* et *E. rigida* Bed
praesertim *E. schizoceratis* quae differunt glandularum bicornium cor-
nubus palmatis lobatis et non gravibus scilicet ovario dense & *Tbo*
velut foliisque nullò maioribus infornA distinctè Innervus nec
sibi nervus

EUPHORBIA DAMASCENA BOIM. (Seel *Emla*)

est perennis glaberrima glaucescens, caulibus circumscissis spiffrulea-
centi crotis tumplicibus rigidis foliosis crassis superne ramos florales
abbreviatos umbellamque terminalium parvulam ovalem for-
mantia densius, foliis rigidis linear-lanceolatis basi attenuatis
apice attenuato-acuminatis subpungentibus deflexis, umbellae radius
3-6 brevibus apice brevissime trifidis, involucri radii 4-5 plò brevioris
pluribus ovatis aculis, involucelli phyllis transversè latoribus ror-
dalo-delloideis oblusis mucronatis, involucelli proprii glabri denti-
bilia oblusis ciliatis, glandulis aurantiis scissis bicornibus
cornubus subulatis obtuse S-S denticulate, ovario glabro, cap-
sula

Hab in collibus antiKMinif ad occasum urbis *Itomasci* sita ubi line
man florere incipit legi

Gaulces 1-1 pollicares Haliulu et characteribus affinis *E. Schizo-*
ceratis quae differunt foliis nullò lationibus non acuminatis distinctè
TOBB ovarioque albovelutino Ali *E. duiradenia* cum quoque accedit
preter nolan levlorum v glandularum cornubus depromplam differunt

Plantarum orientalis novimus h> i>

H

foliis forma omnino diverse rigidiuribus reflexis, caulis breviter paniculatis nec umbellatis imbricatis

EUPHORBIA ERYTHRODON BOISS et Heldr in pi Analol ens 1847
(Sect *Esula*)

Enph perennis nana, rhizoma (craiso) rhyndneo verticali caulis brevissimos procumbentes vix orclumculis cespilosos supra basin cicatricosani nudam dense foliosam aemphocis conditi, foliis minutis glaucis conatis cernuis sub lenle tenuissimè punctulatis margine quo ciliatulis caulium sclerium lincan-lanccolalis allcualo-aciini-nalis subpungendibih apice margine subrevohitis dense imbricatis siibrosulatis, foliis caulium flonferonim oblongo-ellipticis obtusis hcnlis, flonbus randa in umbellam terminalcm brevissimè 8-8 radiam disnosilis sopsias subsessilibus capillnm denaiim involucri phyllis numerosis foliis siimlibus spatium formantibus, involuelli phyllis violascendibis ovalo-subdelloulcis basi subnccalis mticronalls floras non siiperantibus, involuelli proprii purpurei glan dentibus purpureis truncato-denticulatis albo-ciliatis, glandulis purpureis siib9cini-orbiculatis ad basin (runcatam ulrinque cornii oblusobreriffiimo *saapd* cvanido anclifi, ovano breviter et adpresae alborelulino, capauli...

Ilab. in rnpstribus regionis supenons montia *Dmros Ptsidta* alt WtOO'(Heldr.) Fl line mail

Species alpina venusta *E. myntnitem* quodam modi referens sed omnibus partibus nana. Caulis 9-3 pollices longi dense congesti dense foliosi foliis caulium lenillum anno insequenti florum acutioribus 4-5 lineas longis 1 1;3 lalifi in mucronem durum 3jft. lineae longum ahennubnv cmleris brevioribus pro longitudine lalioribus; floras pro plante minnuc magni rubri in capillulum convexum congesti Species distinctissima in agmine *E. pumike* oollocanda

Euphorbia Pt&TMsvnM, Boiss (Sect *Eaula*)

E. suffruticosa glabra humilis basi (ortnosa, ramis brevibus erectis sinpllcibus supra basin cicatricosam nudam densissimè foliosis, foliis inferius minoribus arcuè congestis elliptico-linearibus margine revolub ceteris obveniè oblongis omnibus obosis subcoiiceis integerrimis glabris glaucscenlibis, umbellam terminali ad floras paucos terminales subsessiles capilatos involucri pculaphyllo cincto re-

duclâ, involucri pbyllis ovalw aculiusculte flores vix supcnmlibua, mvoluccti plijllis semiorbicularu basi Irunculis, Involucelli propriu glabri denlibus Irungulanbus acuds niargme cibalulu, glandulis auranuacis setnilunalis margine infenori concavo 3 cornubuB oblusia brevibua muiui, ovarlu oblongo longc gliplato glabro, sljlo longo dd medium usquë IU sligmala profunde bifida trlparlilo.

Hab. in *Caramania* nndë spccimina dedil cl. D^r Pestalozza

Suffrutei ut videtur Uumilis, raini 1-3 pallicareB, folia intermedia 3-4 lineaa longa S lala, uifenora nunora angustioraque. Umbells leruinalea sessilifloroe invoicuro diamelro circiler B tineas lato cincla.¹ Ei ofliiulalc pricedcilm a quâ differl folns noo acuiulnalo-pungenlibus, involucre pcnlaplijtlu, involucelli propni dentibiis non truncati», glandulis niulld ovidunhus semilunalis, ovario elongato glabro, etc E. *petrophila* C AM habilu quoque uoalroe valdt afflnh differ! involucri ph)llis majoribus mucronalis, foliis longlorlbus aculionbus, glaiidulos coruubus ejusdem margin! Inferior! rcquilon-§i, etc

KUPHORBIA HEVIEHIAKA BOISS (Sucl. *Esitla*)

E. annua glabra glaucc^ns, caule credo lorcti humlli spareim folioao Inradialo radiis UT diciuloims, Coins lincanbu6 brevlbua obliiSUSCULH lentTis integrcrriuiS'infinu basi brevissunë allenuatis sunonbus basi truncalis, involucens Iriphyllis deflexis foliis siinlibus lineanbua acuti«, involucelli phyllis basi cordalis Iriangulari-delloideis aculls supremis (ransversè lalfonbus baBi (runcalis, florlbus miitua, glandulia auranllacls semiorbicularls basi truncalis cornubus bins seUctus elongalis subdivergentabus, capsulâ defleiâ brovi glabra bovi rotundalâ profundè Irisulçâ coccis doreo rotundaba, scoiibus albidis foreolis profundiB rotundalis insculpls, anllo brevltcr CUMICO

Hab in *Palmtind* (Boiss).

Scmlpodalis. Folia caulina B-0 lmeas longa stisquilineam lain, Involucelli puylla infenora 0 linoas loriga lataque obcordala caslera transvra& clougaU. Capsula fert 9 lineas diamelro lain Hullis uotis & *Grcecw* 11. cl Spr affiins ab oâ sal differre videtur capsulis sennnibuaque circiler duplô roajonbus, lusce brvvlssinus nee dorso uunu IW&U6 verrucosis.

EUNIOHHA GULEv Jloiss (Sect *Etula*)

E annua, caule fumih credo folioso jam a collo ranioso ramis ereclis lenmbus quinqueradiads radus elongabs plunès dichotomis, folns involucricque pbyllis oblongo-lanceolalis basi allennialis aculis deflexu, ramulis sob Involucellis supremis pilo&ulis, involucelh phyllis basi rolundatis maequilaleraliler ovatis brevissinie mucronulalis margine angustè carlilagineis crosulis, flonbus nunutissiuus, glandu- Jis auranliacis basi (runcatis brevissime bicornutis, capsulâ nunutissimâ ovatâ profundè Insulcâ coccis dorso rotundalis glabns Isvibus, semine ovalo albido subtelragono faciebus duabus tnfoveolalis cscleris 4 foveolads, fovcolis Iransversis

Hab in plamlie *Esdraelon* ubi legi Maio 1846

PlaiHa £. *falcate* valde aflims et ab ei ut *E Renteriana* ab *E. (iracd* ferè discedens Caulis semipedalis a basi rainusus ramis PIS *E falcate* leuuioribus mintus divancalis, folia involucelctaque leneriora magis pcllucida brevissirat nee longe mucronata, capsnlie coccae i;2 lineam ncc unain lineam longae, semina vix lineac parteni terliam superanlia ad facies In et quadnfoveolala nee ul in £. *falcata* tt-6 foveolata

EIPHOBBIA ARVALIS Doiss et Heldr in pi. Anal, exs 1847 (Sect. *Esula*)

"E annua glaucescens, caule crassiusculo a basi ramosissimo ramis divancalim et multoties diciolomis crassiusculis, folna paucis ellipticis obtusis, involuceHorum pli>llis numerosis obliquè ovatis obluais mucronulalis basi rotundalis, floribus niinutissiuus, glandulis lunula- Us purpurascenli-aurantiacis breviusculè setaceo-bicornibus, capsulA ovalâ Isvi profundù trisulcalâ coccis dorso rolundalis* scimne albido ovalo obsolete Iclragono longiludinaliler et grossè vermiculato-insculpto.

Hab in arvis *Pisidta* inter *Isbarta* et *Egirdir* (Heldr.) Fl maio.

Planta 3-fe pollicans dicholome raraosissima ramis erecto-patulis divancahs, tola foliala involucelbs quorum pliylla 4-6 hneas longa 3-5 IjS lala Capsulae eis £. *pepli* majores coccis lineam longis, Ab *E. peplo* cui magis accedil dislincla caule ramufiue incrassalis divancalis inullo raniosionbiis, foliis magis carnosus opacisque, capsulft

lasvi nec dorso bicannatâ, semmibus vernucularis nec senaliter foveolatis

EUPUOBIA AULACOSPERHA BOISS. (Sect. *ESHIQ*).

E. pumila glabra a basi ramosa ramis umbelliferae centralis ternate radiis abbreviatis pluries dichotomis crassiusculis folis involucri obovatis obtusissimis mucronulatis leucis, involucri phyllis subsquialateralibus rotundis transversè sublongitudinalibus subobtusis, lobis minutis glandulis aurantiacis semilunatis longe sessilibus bicornutis, capsulis natis profundi sulcalis dorso rotundatis, semine ovalo unguiculis truncato 6 foveolis longitudinalibus minus profundis et costis semis rotundis albis instructo.

Hab. in collibus prope Hierosolimam uodè specimine unicum relinquitur.
Fl. Aprilis

Stipularum, folia et involucella inferiora 1-2 lineas longa lacinis longis
Capsula à *E. peplo* paulo major. Ei et *E. arvali* affinis ab
quibus se in semmibus profundè sessilibus dignoscitur.

AMENTACEÆ

SALIX ACIOPYLLA Boiss. Diagn. VII p. 98

Sequentia ad descriptionem et habitationem. — Flores masculini tetrandri. Stamina filamenta basi villosa.

Hab. in monte Elbrus prope pagum Passgata Haio florifera Kotzebey p. Pen. bor. N° 111 et 780, in Kurdhtanta ad nava prope Amadieh et ad pagum Gam, KoUchy p. Alep. Kurd. In Syria ad Jleppum (Bows). Vana folia 6 lineas vel pollicem lata.

SALIX ELBRUSHISU BOISS (Seel. Purpurva).

S. ramis virgatis glabris, foliis lanceolatis glaberrimis apice obscure denticulatis atrinque promioulè venoso-relicularis, amentia cylindracea pedunculata basi bracteatis, capsulis ovalo-lanceolatis sessilibus lomenoso-sensibus, stylo brevi, stigmalibus ovatis, squamis

oblongis pallide rufescentibus apice toscosplacclaim parcè villosis, flonbus mascuhs .

Hab secùs rivos in uionlc *Elbrus* propc *Derbent* Persia: borealia Kutschy N° 184 (Subs, *purpurea* L. var cvulgala)

Fruicx, raiui lenues virgali pallidd Qavo fuscescenles. Folia breuiier pcliolala acula vel long6 acuminata adulta utnnquè pronimule vcnoso-rcliculala exsiccalione mimoiè nigncantia Amenla allema (ncc subopposita) ramulis 4 lineas longis foliaccis suffulla seini-polhtiria Folia 1-9 polliccs longa 9-4 lineas lala, floralia circiler seuipollicaria inlegernua Affinis *S. purpurea* differl auienlls pedunculalis basi bracleaUs, capsulis supcrnè anguslioribus, sqitamis ublongis pallidè rufescenlibus parcè villosi9 nee ovalis nigrospba-celatis pilosis

SALIX ~~z~~OSIEHON Boiss. cl llobei. in Kolschy pi Pcrs. cu. iWG (Sect *Caprea*)

S arborca \el fruticosa raiuis virgalis subvilcllmo-virescenlibuff junioribus pubcrnlis, folns ovalo-lanccolalis subsuncoo-Mllosis demùoi glabralis Icviler crenulalo-dcnlahs, slipulis lineari-lanceolalis curvalo-falcalis glanduloso-dcnlalis, anunlis magnis breviler pedunculalis cylindncis basi bracleis oblongo-lanceolalis 6ublùs villososcenccis suffullis, squamis obovato-rotundalis villosis, capsulis lomcn-losis ovalo-lanceolalis breviler pediccllatis, sly lo lirevi, atigmalibus oblongispalenlibus, flonbus amenlorum masculoruin slaaiinibus binis donalis, filamentis ad medium usquè coahis infern6 villosis.

Halt in atonic *Elbrus* propc paguai *Passgala Penias* borealis ad calaraclas *Ser Abi Schir* did as, Kolschy.

Arbor? (rulext. Gorlcx lasvia submlidus. Folia I-Spolliceslonga 4-6 lineas lala, Ooralia mlegernma sublis sencca B-6lineas louga 9 lala Amenta mascula villosissima scsquipollicana, Iteniuea cum sli- pile 1 i/4-3 polliccs longa. Affinis *S. grandifolias* sed abundè distmcta folna (cnuioribus ulnnquè glabrads, sd pulis falcate, amends mullò majonbus, capsulis breuter pedicollalis

QUERCUS PSBUDOCBHRIS Doiss. (Seel. *Cerrta*)

Q arborca, ramulorum corlice fusco-cmerascenu verruculosà, folns longè pcliolahs ambilu ovalis vel ovalo-oblougis profunde ut

irregulariter sinuato-pinnatifidis basi insqualibus supra glabris subnifidis subulso leniter venoso-reticulatis petiolisque pili brevibus fasciculatis hirsutis, lobis ulnque 5-4 oblongis integris vel interdum indentatis terminali trilobo omnibus apice callosis-apiculatis, gemmae subrotundis, squamis imbricatis ovatis vel interdum exterioribus proserlim gemmanim (terminalium elongato-filiformibus, floribus* ignotis, Rhamnibus biennio maturantibus lateralibus subsessilibus vel pedunculo brevi lignosis insidentibus, capsulis squamis adpressis ovato-lanceolatis obtusis

Hab. in sylvis partis Inferioris montis *Castii* in *Syria*. Legi cum fructibus junonibus Jnnio

Arbor mediocris. Folia adulta subconacena subter pallidiora vana pinnatifido-lobata 9-3 pollices longa 1 *infl* poll, loba petiolo tenui 3-*Hneae* longo suffulsa. Glandes majores rotundae magnum pni Squamis adpressis glabris. Affinis *Q. eerri* a qua squamis capsularum parvis adpressis nec appendice longa filiformi terminatis aquarosis, gemmarum rotundarum squamis adpressis obtusis sat differat *Q. eathanemifolia* et *Q. Libani* foliis non pinnatifida aliisque notis longioribus distant

QUBBUS BOISBIERI Reulei[^]Sect. *Gallifera*).

Q. arborea, ramulis junonibus stanspuberulis, foliislongis petiolatis oblongo-lanceolatis glaberrimis subcoriaceis basi attenuatis subtus glaucis-pallescens aubito lato regulariter et profunde sinuato-dentatis dentibus obtusis ascendentibus sinibus subter revoluta, gemmarum rotundarum squamis obtusis adpressis, glandibus in axillis foliorum superiorum per 2-4 in pedunculo communi petiolo longioribus racemoso-spicatis, cupularum juniorum squamis adpressis lineari-lanceolatis obtusis subnervulosis-vulgaribus

Hab. in jugo *Cassio Syria* borealis (DOISB).

Arbor mediocris, ramorum coricis imis pallide cinnamomae. Folia adulta subconacea eleganter penninervia ulnquae acuta 9-3 pollices longa 1)9-1 pollicem loba dentibus subovalis 9 lineas circiter longis. Petioli 4-6 lineas longi Glandes tantum majores observantur magnitudinis pluri. Affinis *Q. infectoria* Olivier differat (bins multo longioribus basi angustatis longius petiolatis nimbis lato regulariter sinuato-dentatis et praesertim fructibus racemoso-spicalis

QUERCUS PETIOLARIS Hots* cl Hcdr (Sccl *Suber*)

Q arborca, ramulis lenuibus clongalis junionbus snalis pulvcrulo-pubcrulis, foliis longc et lenuiler prtialalis planis ovalo-ot> longis basi Iruncalo-subcordalis vcl siibatlonnalis intcgcrnmis vcl Innc mdè grossc lobalo-dcnlalis junionbus peliolisque pilis brevis-
simis sccllatis puivcrulo-piibrulic demiun glabralis sublùs palli-
dioribus, fruclibus sc>aihlria, onpulec junions squaimis arclè'adpres-
sis snbdclloidcia apicc atlcnuialis pulverulo-sericcia

Hab in *Carid* (hnard), in *Pamphylia* mler fluvios *Eurymedon-*
tem et *Centrum* nbi sylvas formal (Hcdr)

llanti lcnca juniores pulvrruleni Folia valdè vananlia mine In-
legcrrima none denle uno allerovc aucla nunc nno lalcre vcl ambilu
toto grossè lolialo-dcnlala oblusa vcl aciliuaciila S vcl 9 *ifi* pollicana
pollicem circiLcrlala, ramulorum sclnlmm majora basi cordala lata
clliplica ans^alo-dcnlala Vchulus 6-8 linca longns, glans immatnra
subrotunda cupulic immcrsa magnitudinc avellana¹ A *Q Wee* el *Q.*
uberi differcl foliis peliolo longion tcnuionque aaOulhs adnllis iilnn-
que glaberrimis minus conaccis cl iodumcnlo stellalo pulvcrulo.

Dolco liascc Ires qnrcùs species iD^crfccIè ex specimimbus ju-
nionbus dcsenulas fuisse



DIAGNOSES

PLMTAROM ORIENTAL!!! NOVARI1.

DIAGNOSES

PLANTARII ORIENTAL!!! NOVARII.

N° 13

AUCTORE

E. BOISSIER,

Soc PHYS GENEV. SODALI



NEOCOMI.

TYPIS HEMRICI WOLFRATH.

—
1883.

DIAGNOSES

PLANTAE HICM OAI EJVTALIUH NOVA HITM.

AR01DE/E.

DIAGNOSIS SPAUHUU DOISS. (Sect *Evbiarum*)

B. bulbo depresso ovalo, collo meubranu albu lanceolalis lougc acuminalis vcshto, foliis hysleranlbiis oblongis oblusis maryine undulatis in petiolum eu breuorcm vel Bquilonguoi altenuabs, sc<H> brevisumo inter menibrauas radicales occullalo, upalbã erectt i nfernd long* tubulos& limbo piano tubum ler superanli lali lanceolato-linean apicc breviter acuininato aculo atropurpureo, spadice suprã parlem genitaliferam atropurpureo sensun el paululũm clavalou-**crasalo** subnutanti Bpathrasubcqndongo, carpellorum spicA ovalo-**globosa** ad imam basin spadiceis aita, stylo rubro carpello subaBqui-^ongOj sligmale minutocapilalo-depresBO, gemtalibus rudinientariu solũm inter carpella et alamina aitia elongalis albidis basi verllcaliler dUatalls defleio-crispis spatium cylindro staminum tnp16 longiõs ocnpantibus, Btaminibus in cjindram spadice vu laboreni congeslis biloculanbuB nmã iransversa dehlscntibus.

Hab. in collibu» apncis *Attica* ad *Phakrum* porluui ubi duce ami ciss Sprnner florere mcipientem Haii milio legi.

Folia 1-11(1 pollices longa 6-10 hneas **lala** In petiolum cia equi-longum atenuata Spalha parle tubulosã 1K-16 lineas longa parle >pcrU 5-B pollices longa 7-0 lineas lala. Annulua slaminum 3-ã bneas **langua**. Anlhera ulnni|u6 nmã delnsccnles nrnu ad apfeem antherai

in unam transversam conjunctis et sic anthera profunde transverse bifida et sicut bivalvis valvâ inferon brevi, superon longiorum recurvatum attenuatâ. Planta inter *Biara* et *hchara* intermedia, a pinnis gemmalibus strobilibus superat antheras nullas, a postpinnibus strobiliibus poro non debiscentibus discedens. His nobis affine *B. Heimleri* quod differt scapo elongato, spatulae limbo angusto obliquo, spatulae filiformi, gemmalibus strobilibus sparsissimis

DIAPHYLLUM ALBUHDIKUM BOISS. (Sect. *Ischarum*).

Basibus foliorum, foliis subobovatis angustè linearibus acutis in petiolam attenuatis, scapo basi vaginis albis membranaceis linearibus ei subaequilongis stipato, spatulae virescenti-albidas parte inferon datus oblongè superne in limbum angustè linearè acutum recurvatâ eâ subduplè longiorem abruptè constrictâ intus violascenti, spatulae liliflorini atropurpureo superne subinflato spatulae subsquiflongo, carpellis paucis ad basin spatulae in spicam nalam congestis, stigmate purpureo eis subbrevisiori stigmateque conico-depresso terminalis, mervallo inter carpella staminaque hisce duplè longior subnudo cum cilio siliis uno alterutroque, antheris paucis subdissectis in cyathodrum lenuere brevem appressatis bilobulibus poro apicali debiscentibus

Hab in *Xgypto* prope *Alexandriam* unde Novembri florenlem misit aniciss. Cadel de Fontenay.

Folium unicum mei speciei non evolulim bipollicare 3 lincas lalium. Scapus bipollicans spatula cum limbo lanum 2 lincas longa. Spadix angustissimus. Antherae numero 15-20. Species inter *hchara* florum minime defectuque fere toto gemmalium strobilium insignis

DIAPHYLLUM PALESTINICUM BOISS (Sect. *Gigarum*)

A foliis longè petiolatis videntibus crassiusculis oblongo obliquis basi cordato-bastatis lobis lateralibus abbreviatis triangularibus aculeis divanctis, petiolo basi dilatato, scapo petiolis parum brevioribus, spatulae citus albivirenti intus atropurpurea basi convoluta superne longe oblongo-linearum apice abruptè acuminata raris obtusi, spatulae atropurpureo superne subclava (o-incrassato spatula paulò brevioribus,

carpellorum spicâ breviter cylindricâ a laminibus spatio paulo
breviter genitibus sterilibus a (pro)purpureis basi Taldè Incrassatis pa-
tentibus densè stipato sejuactâ, antherarum annulo liliaceo
simo Tertiallo altero genitalium stentium alropurpureorum llerum
superalo

Hab. ad pedem rupium umbrosarum, circa *Hierotolymam* ubi legi
florif. Aphn 18*6, ID raonle *Cannelo* (Boiss.)

Petioles pedales et ultrâ, limbus 8 pollices longus, 3-4 latus
Spatha 6-7 pollices longa parte convolutâ sesquipollicaribus
Moltis ocellis affine *Ad. Dioseoridis* quod in Syriâ propt *Berythum* legi
el cui ^- *Syrtaeum* Blume omni jure referendum esse videtur sed quod
me* specie differt spathâ latiore intus eleganter maculis alropurpu-
reâ conspersâ nec tolâ atropurpureâ, genitalibus brevibus albidis
longioribus nullò lenuionibus, foliis majoribus lenuionibus An lamen
hujus forma?

ARUM BILICOLA Boiss. (Sect. *Gigartm*)

A. baibo ..., foliis longè pedatis profundè cordatis oblongis basi
sagittatis obtusis acutis lobis lateribus deorsum directis pa-
rim divergentibus oblongo-triangularibus obtusis acutis basi
aliquandò subangulatis, scapo folia supero, spathe usque ad
quartam partem inferiorem convolutâ dein angustalancelali usque
ad apicem aetum sensim attenuatâ tenui membrana virenti de-
mum rubescenti, apice luteo demum rubello leniter cylindrico spa-
thâ paulo breviori, carpellorum spicâ ad spadicis basin oblongâ a sa-
minibus spathe eâ breviori gemmalibus stentibus sparsis e basi dilatati
tenuissimè setosis rubellis fleuosis obsilo sejunctis, antherarum spi-
câ breviter cylindricâ flavâ iterum supernè gemmalibus stentibus
paucis sparsis brevibus rubellis superalâ

Hab. in cam umbrosis rupium *Antilibani* ad septentrionem spec-
tanibus inter *Zebdani* et *Zachle*. Legi floriferum fine Bfaï.

Foliorum limbus 6 pollices longus basi 1-9 *lfi* latus. Scapi pedales.
Spatha 8 pollices longa tubo set linearum limbo basin versus 7-8 hoas
lalis. Species pulchella spathi minulâ angustâ ab omnibus aliis sec-
tionibus distinctissima

Aauv KoTscmi Boiss ut Hohcnack. ID Kolschy pi. Pers bor, 1846
(Seel. *Gigarwn*)

A bulbo , folus longè petiolatis oblongis a basi parvui profundè cordalâ ad apicem sensim angustata aculiusculis aunculis basilaribus brevibus ovatis oblongis aculis, scapo folia sopraati, flore parvo, spalhâ virenti ail lerliam partem usquè convolutâ ovatâ dein in limbum lanceolato-linearum aculum recluim angustatâ, spadice spalbi ferè diimdiò brevion lcnuiter cyhndrico rubello, spicâ carpellorum oblongâ ab anlberis spalio e& raulfo brevion genitalibus slerilibus paucis brevibus purpureis e basi dilalalA selosis obsilo sejunct&, anlberarum spicâ nunulâ subspbaencâ rubellâ, gemtahbas Btenlibas llerum suprâ anlheras rubelhs brevibus

Hab in fauce *Dudera* montis *Elbrus Persia borealis* Kotschy N°726

Folia ca *A picti* formâ omnind referenda sed minoraS 1|9-3 Ij9 pollices longa basi i 1)3 poll circiler lata. Spalha e minimis generis 3 |ji polhces in meo specimine lanlum louga. Speciei pracedenti affine sed ab eo formâ foliorum basi brevissioiè cordatorum, partium floralium proportione facilè disingendum

ARUM HY&OPHILVII BOISS in pi Syr. exs. 1B&6. (Seel. *Gigarum*).

A folus lougè peliolalis hastato-subtrilobis lobis elongatis angustis lanceolatis margine minulé subdenticulato-erosis terminali obtuato vel aculiusculo lalcrabus valdd divergentibus sepè horlsoatalibus lerminali sspitûs parum brevionbus sed magia angustâs acuminatus, scapo peholis paulò brevion, spalliâ ullri lerliam partem asquè convolutâ rubellâ hmbo virenti rubello-marginato lanceolato-lmeari apice acuminato, spadice tenuiter cylindricâ rubellâ spalhâ tertiâ parte brevion, carpellorum spicâ cylindricâ ab anlbers gemfalibua slenlibus paucis congestis a basi crassâ compresso-conicis albis in aelam abeunhbus sejunctUL, anlberarum spicâ densft breviter ovatâ apice spatio brevi iterum genilahbDB sterilibus teauiter setosis rubelhs longis deflexis superatâ.

Hab ad fossas huinidas et nvulos raids *Jntilibani* infrâ pagom *Zebdani* frquentissimè. Legi flonferum Sfaio 1846

Pelioli saspè pedales sesquipedalesque, foliorum lobus terminaliB !t-6 pollicans bast 1-11/3 laliis, lateralcs subbonionlalps 3-4 pollica-

res vis. breviores. Spalba 4-8 pollices longa 6-9 lineas (antennae latae Species insignis Ab *A. rupicola* et *A. Kotschy* quibus floribus parvis accedit foliis subsquamatis et divaricatis In lobis lobis valde elongatis, genitalium staminum superiorum comae longae distinctissima.

Ausi CREMUM floiss et Heldr in pi Gral exs 1847 (Sect. *Bimium*).

Ar. radice subbulbosa fibres cylindricas tenues edentis, foliis petiolo limbo non duplo superanti inferne laevi vaginatis suffultis triangulari-ovalis cordatis lobis lateralibus In angulis acutis divergentibus, costa medietate crassa lata nervos laterales manifestos edentis, scapo petiolis paulo longioribus, spalis supra tertiam partem longitudinalibus involuta alba oblonga apice acuminata, spatula albida rubella subclavata-mucronata spalis paulo brevioribus. carpellicis antherisque spicas duo oblongo-cylindricas subaequilongas subcontiguas geminis sterilibus setiformibus albidis paucissimis vel nullis seorsum fornicatis

Hab. inter saxa montium Crete, in fauce *Selia* Eparchie *Bagioryaaiti* monte Anph el in cacunone montis *Tavoutsi* Eparchie SKto fine ejusdem mensis alt. 8000' (Heldr.).

Petiole 4-8 pollicares, folia subsessilia firmae formae varianlia in specimine e fauce *Selia* sessilialia 3 pollices lata, in specimenibus e monte *Tavoutsi* fere duobus minoribus. Spalia in pinnis specimine fere 9 pollices longa in pinnis lobis e loco magis alpino orbis lanceolatis 4-8 pollicaria in omnibus longitudinaliter parallelis venosa. Species inter *Sminia* spicis carpellorum slammumque subconjugis nec ul in aliis speciebus spatio latis geminis sterilibus obsito pinnis fronte facile recognoscenda

Aum cKAMins Bom. (Sed. Draeuncuhw.)

Ar. bulbo . . . , foliis petiolo crasso eis duplo vel vii longiori plano-compresso supra canaliculato suffultis crassis pedicellatis ambibus oralibus lateralibus duobus costa basi denudata subpetiolaribus basi subhastatis pinnatis lacinis lanceolatis vel linearibus margine undulatis aculis eilenori secunda petiolulum basi longe decurrenli, pinnatis intermediis sessilibus latis bastulo-sagittatis

lacinis lanceolatis acutu divancatis, pedunculo peliohs brevion craB-
so sob flore obcomoo-incrassato carnosio, spalhá crassà ferè ad me-
dium usquè convolulá limbo ovalo-oblongo breviler acuminato eitùs
pallido rubro-punctato inlùs atropurpureo valdè sulcato-verrucoso,
tubo intùs viotaceo-punctato, carpcllis umovulalis spicam oblongani
formanlibus a apicà oblongà minutà dcnsà antberarum sejunctiB spa-
Uo longissimo albo team genialwus stcnlibus spareis crasais fihfor-
mibus valdè elongalis albia obsiLo, spadice suprA anlheras nudo cy-
Undnco-clavalo atropurpureo tuberculis valdi aspero spalhá bre-
vion.

Hab. in deserlis ad inendiem *Judea* inler *Nockl el Gaza* aitia, ID
vallibus omjnlalibus *Hermonis* inter *Rascheya* et *Damascum*, in cul-
lu *Libani* supenons inter *Damucum* et *Berythum* (Boiss.) Floret
in deserto Aprili, in mondbus Maio.

Folia divisionesuâ *eaA. criniti* referentia sed mult6 mlnoraambli-
lu 4-8 pollices lala difGcilc de9cnbenda Partitiones laterales ltrùm
5-7 partilie lalere cilenon decurrencles, intermedia bastata. Laçuile
1-3 pollices longs latitudinc nullùm vananles in apeçioaimbus de-
serli i ij3-1 lineas TixlaUehneareB, inSynaciB tnangulan-lanceo-
latae, intermedia basi saepè pollicem lata Pedunculus suprâ lerram
2-3 pollices lanlùm longus sub spalhá in vivo pnDfertim valdè In-
crassatus carnosus. Spalha in specimimbus majonbus 7-8 pollices
tonga, ad basin diametro sesquipollicem, ad hmbum *iji* pollices
lata, in aliisspcciminibusmult6 minor, substanliae crasss. Inler-
vallum inter ovana et stamina sspè sesquipollicare. Gemtalia slen-
lia B-6 lineas. longa. Spadix terminalis 1 lj2-3 pollices longus. Spe-
cies distinctis9ima ab *ATO crinilo* statura buuili, foliorfini laciniis
brevibuB, pedunculo apice obconico, spadicis clavâ taberculato-asperâ
nee longè crinilâ etc. discedens, foliia *Dracunculi* cum cbaraclen-
bns floralibus *AH* donata et hoc genera in unum iterùm conjungere
omni jure suadens

ORCHIDE^.

ORCUIB BEPULGHALIB BOMB et Heldr. in pi Ariat. eis. 1847.

0. tubonbus indivisis ovatis, caule crasso procero, folna remolius-
culis a basi [longè tubuloso-vaginanti latè oblongiB obtusis summo

ad vaginam reduclo, apicâ lenniali pnmâm uvalo-oblongâ dein cylmdnca braceis uninerrna breviaumis iriangolan-acummaUB, pengomi lacinns in galeam oblongam conmvntibus infernè coalilia 8-8 nerviis, labello carnosulo fusco tnpartito lacinns lateralibuae basi linear! aensim spaiulalo-dilatatis, intermediâ linean apice abrupt dilalatâ divancatlm biparlilâ partilionibua obovato-apallinlahs Integra dente brevi inlerjeco, calcare apice subdilato saccato ovario dlmldid brevion

Uab inter sepulchra umbrosa Turcica propc *Adaiia Pamphylim dlaya* versuŝ eundo (Heldr) Marie 1848, in vallibus montium *Tokat Anatolia* Aucnèr N° B3S»

Caulia circiter scsquipedali9, foil or urn limbus 4-8 polliceslongus 13-18 lineas latus. Spica pnniuin 11;3-4 polhces dein 0-7 pollices longa densluscula, flores magnitudims fere eorum *O. militaris*L. cm soli inter afGncs propter formam labeUl comparari polesl ab eo diatinctiesiraa labello e sicco nigro-fuBcescenll lacimu lateralibua non lincanbus, intermedlo lobw non oblongis sed spalbulato-obovabs, calcare subaaccato. GL Hebb. fil. in Icon. Fl germ, bane ot varietatem *O. punctulaia* Steven nobis ignota> conjungit

EPIPACTIS VERATRIFOLIA Boiss. el Bohenack. in Kotsch pi. Pen. bor. 1847

B. canle crasso rtriato procero basi vagims 3*brevibus inflatis apice oblique (runcatu obsito suprâ eas folioso supernè papillanpuberulo, folns mullinerviu albo-nenroaiB ngidulis intermedna vagina brevi insidntibiu latè ovalw oblongisve acutis glabns, supeno-rlbus flolahbusque parcè et brcTtesimè crispo-pubcrnlis lanceolatis hncanbusque longiSBimia aupernè longè atlenuatis acuminaba baai Bubanguatala ussili amplexicauhbus, flonbus in aiillis aolitariis foliu multohes superalis spicam longissimaio taxisBlmamque formanlibus pedunculu dense pubescenlibua tandem reenrvia ovano vu brevioribua suffuHls, ovano den»6 pubcacenti, perigonii paluli lacimls eilua brevissime farinoso-puberulu extenonbus lateralibuaaemi-ovato-incurvis omnibusque acuminatis, interioribos duabus dimidiû brevioribua ovalia oblusfuacuha, labelli articulo superior! e basi truncato-aubcordata Iransvene sublation medium venfc abrupt? angustalo acummato Invi glabro pengonu lachniaa scquanli, capaulâ glabrescenli oblonga.

Hab in faucibus *March Mahal* montis *Elbrus* propè *Derbenl* Kotschj N° 401 et 633.

Caulis 9 if9 pedalis, folia intermedia 3-6 pollices longa If 9-9 K>1- hecs lata 80-80 uervia nervis 8-10 crassionbus, superiora 8-0 pollices longa internè 9-1B hneas lata sensim in bracteas diminata Bracleo infenorea 4-6 pollicares, supreme 1-3 polhcares, 1 9 HneaBlabe. Peduncuh 4-8 luieas longi Floras e sicco rosei eis *Epipactidia lati-folUe* duplb majores nuincra 18-30 raceinuni folialum pedalem el ullr& fonnanles Labelluui formâ peculiar! doatum, hypochilio in formam qua carmam generis *CoronilltB* referl semlcirculariter incurvo, cpicliiho co sublongion ei anguBtè inserlo basi Ires hneas lalo circiter B hneas longo sublnlobo lobis laterahbus rolundatis lernii-nah lanceolalo acuto Species slalurA et floruiD structural dislinclis-aima el facU6Jolius genens pulchernma

CEPHALANTHERA CUCULLATA BOISS et Heldr. in pi Crel. ets IB47 Rchb fil Icon, fl germ, vol XIV tab. 130 fig. 9

C. radicc fibris cylindncia constanti, cauibus a basi foliosis, folus lnfunonbus ad medium cauhs usquè vaguiformibus lubulosis basi attenuate dein subinflalu apice in auriculam brevein oblusam obliquè trunealis nervoso-slnatis, foho intermedio uno allerove c vaginâ brovi in liuibum brevem ovatum aculuui multinervem cucullatum abrupteddalalo, fuhis supenonbus floralibusqoe lanceolalo-linean-bus hnearibosque canahculalo-cucullabs basi abruptè altenualis brvissimè subpellolatis floras squanlibus superanlibusque, flonbus flavescenll-albidis, perigonu lactnus tnbus eterioribus longionbus lanceolalis aculis, interioribus 9 oblongis oblusiusculis, labelh basi calcare brevi subincurdo donah laminâ phyllis pengonh brevion labludine suâ longion exltreinilale atlenua4 acubuscula.

Hab in umbrosis moolis *Taktali* propè *Smyrnam* (Bows) Fl. Haio, in *Cretd* in pinetis montium *Lassifi* suprâ *Males* all circ.&OOO' (Heldr.)

Gaules pedales rel paulò breviores Vaginas foliaceffi non ul in *C pallenli* 1-9 ad basin caulis aed numero 4-B, pollices 1 4f9)onge, a basi ad apicem paululùm dilalals, folia intermedia tubo vaginanU et limbo semper brevi pollicem ferè longo 6-7 lineas lalo uwlrada, superiora basi nun vagmantia, floralia ab inferionbus ad superiora

sensim abbreviate 9-13 lineas longa 1 l. s. 9 lineas lata. Flares illis *C. patonii** vix minores, ejusdem fert colons, labellum calcare eras-
s. in sculo obtuso antrorsum subcurvo lineas 4-5; 9 longo bast
auctum quo caractere hęc species stalim a *C. pallenti* in qua label-
lum ut in aliis speciebus generis obsolete gibbosum est egregie dif-
fert. Labelli lamina magis quam in *C. pallenti* elongata

TRIDACE

TRIDACE ALBIPICUS BOISS.

Gl. lobis innicari radicali parallelis dense stipatis parvis ant-
atomis areolis angustissimis, foliis elongatis angustis linearibus
superne longè attenuato-acuminatis 10-15 nervis nervis parallelis
inter se valde approximatis subsquaratis, flonibus in spicam secun-
dam approximate, bracteis lanceolato-linearibus interioribus
brevioribus, perigonii rosei laciniis obovatis spatulatis basi longè at-
tenuate omnibus apice rotundatis superioribus basi valde incurvatis, lacri-
libus duabus labii superioribus et inferioribus aliis brevioribus,
antheris filamentum equantibus aut eo sublongioribus, capsula ovata
sexsulca apice compressa, seminibus apteris.

Hab. in agris prope *Jleppum* Kotschy pi. Alepp. Kurd. N° 86

Planta aequalipedalis, folia inferiora care pedata 9-1 l. s. 9 lineas lata
Flora 6-7 magnitudinis eorum *G. communis*. Antheris drc 7 lineas
longis; ab omnibus generis speciebus Europae statim distinguitur
folia ut in 61. *Penisula* duobusque sequentibus nervis inaequalibus pa-
rallelis contiguis percursis ddm In *Gl. palustris*, *G. imbricate*, *G. Se-
getum* etc. nervi pauciores sunt et intermedium aliis ensior basin
versus subitè curvatur ad lateram interiorero folii flectitur. Gl. *Per-
ticus* Boiss. eodem caractere foliorum donatus a *Gl. Jleppum* quan-
tùm ex specimenibus siccis indicare quomodo differt floribus minoribus
subdistichis vix recurvis, perigonii laciniis oblongo-rhombeis acutius-
culis, antheris filamentis brevioribus. inaequaliter bracteis
dilatatis et abbreviatis* sunt et tota pars superior planta: sub lente
tuberculato-pruinosa sed hi characteres minus firmi videntur.

GLADIOLUS ATROVIOLALBUS BOISS

til libris tumcaruni radicalmm parallelis dense stipatis parce ana-
*tomosantibus areolis subindisbncis, folus glaucis cauli sequilongis
>cl longionbus Imeanbus acuminabs 10-13 nervus nervis parallels
suhsquidislantibus, Qonbus 3-7 in spicam brevem aecundam appro-
uinalis ob tubum vald6 curvaluin honzonlalibus subcernmsve atro-
violaceis, bracleis lanceolalis allenualo-acuniinalis margine anguslê
scanosis exlenon lubum perigonu superanti, inlenon lertiâ parte
brcvion, perigonii laciniis oblongo-spathulalis aculiusculis superior!
valdè curvafa, tnbus labii luferions csteras pauld superanlibus, an-
tlwns lilamento suo subbrezionbus apice aUenualo-mucronahs, stig-
malis laciniis a basi ad medium lineanbus glabns dein subilô in It-
minam spalliulalam papillusam dilalalis, capsulâ

Hab. in *Persid*, circa *tepalian* Aucher N° S5K3, ad *Teheran* inter
segetes Kotschj pi Pers bor ^0 28.

Puklira species flonbus in spicain brevem conferbs valdè incums
G imbrtcatum referens sed ob Toliorum nervalionem in seclione
G Persiei et *G Aleppiei* collocanda, ab ulroque eolore et curvalione
flurum, spicâ conferlA, anlhens mucronalis distincta Pedalis, folia
11|3-3 lineas lata, floras eis *G. imbriati* paul6 majore9₁ anfliers
circiler 5 Hneas longae

GLADIOLUS HALOPHOUB BOISS. el Heldr in pi. Anatol e u 1847

G flbns tunicarum radicalium crassis reticulatis areolis oblongia el-
liplicisve, folus glaucescenbbus angustê bneanbus ngidis cordatis in-
fimo caulem sqaanh vel superanh cclens brevioribus angusboribas,
nervis 4-6 crassis sequidislantibus, flonbus 1b* spicam laxiusculam
Icrminalem secuodam formantibus, bracteis crassluscnlis glauces-
cenb-rubellis elliphco-linearibus in mucrouem acuminalum scario-
suin abeuntibas infenon tubum corolls aequanli interiori subbrezion*
perigonii rosei tubo incurvo laciniis obovabs obtusis laleralibus bre-
vioribus, anlhens incums filamenlo quarlâ parte brezionbua, stigma-
bs lobis sursùm Bensim spathulato-dilatalis, capsulâ....

Hab in salsis liyerae inundalu plantiei *Koniah Itaurim* in viâ
inter *Koniah* et montem *Karadagh* (Heldr.). Fl. Junio

Pedalis, folia inferiora lineam vel rands sesquihneam lata, calera mullo angustiora Flores illis *Gl palustris* ferè majores Species foliorum nerratione prsecedcnhbns approximanda ab 1-18 folns angustis duns, fibns radicalibus crassia areolatis, bracteis longè scanoso-acumnatis dishnclissima

tiLADIOLLS KOTSCHVMIdS BOISS

Gl fibns tunicanifD radicalium parallelis densè stipatis anastomontibus areolis angustissimis, foliis latiuscnlè linearibas long* acuminalis 8-6 nerviis nerris Inaxpialiter distanlibus medio crassiori curvato, spicis snbdistichis deosis, bracteis Imeanbus cucnllabs acuminatis latè scanoso-marginabs inferionbas longissimis, perigonii tabo valdè cnrvalo laciniis omnibus OTalo-spathulalis rolundalis basl longè altenuato-slipitatis labii supenons brevionbus, infenoris dna-bu9 laieralibus pnesertim elongatis, anlhens filamenfo els ferè dup!6 longion suffollis, stigmahs lobis basi glabris soprft medlam sablt6 in laminam ovalam cdiatam dilatatis, capsulâ oratt trlgonft apice non "npressa, semimbaa angastè alatas

Hab. in *Vesopotamid* inter *Suereck* et *Diarbektr* Kotschy pi. Me⁹pot N°i63

Planla bipedahs. Folia 3-4 lineas lata Flores in spicft 6-8 magnitudinis eoram *Gl palustrto* Pengomom e sicco basi intensè violaceum versùs laciniarum penpbaeriam pallescere videtur. Anthers 3 ifS lineas longe Afflnis *Gl Uyrieo* qal differt pengonii labiis snbequilingia, laciniis rbombeo-oblongis, tubo brevfon. An tamen hujus specie! forma Orientalis Bit ultenùs inquirendum.

IMB STYLOSA Poir. Tar. *angustifoUa* Bows, et Heldr

Planla pierùmque humihor 5-8 pollicaru, folia spalh4 angastiora lfS-1 lineampata margine mamfestlùs scabrida, caster&m omniaspeciei

Bab. in *Attica* (Heldr), *Argglide* .Spraner), *AchaiA* (Boiss.). *Hhodo*, *Cypro*, *CreUL* (Heldr.). *Carta* (Pioardj

his>DAVBOLBra Boiss. et Reut. (Sect. *Barbatoe*).

I. pumlla, foliis ensiformibm glaucescentibus sobfalcalis canle foliis breviori unifloro, spatboe bivalTtovaWis vix ioflatis subaeqailongia

penanlhn tñbi> paulò brevionbus vel ei aequalibus, exlerà mlenon dupld lation tolà herbaceà margine vix raembranceà dorso snbalalo-cannalà, inlenon apice membranaceo-scanos&, penanthh tubotere-li obscurè Irisulcato limbo Inente longion lmd& virscenti, lacinus virnli-ochroleucis basi extùs virentibns extenoribua cneato-oblongis apice rolndalis ICTiter emargmatis in medio limbi reflexi maculà ovata lmdè creruleo-violacea instrnctis, barbA concolore, lacinus in(erioribus paulò lahoribus oblongis apice obtuso emargmatis margine undalato-cnspis basi subitA in ungmculum contrachs, sligmallbus oblongo-apalhulatis cnstis scmiovalis apice acuunnahs lalere extenon denticulalis

Hab. in plantiebus *Bulgaria* propè *Kustendje* (Boiss). Indè relala fnerunt rhizomata ex qmbus planlam coluimus descnpsimus qae

Canlcs3-K pollicarea, folia pnmàm brevia tandem circiter pedalia. Floras fragranlissimi cm *I ptimiles* dimidiò minores. Odor flornm cum *AspeniUs odorata* exsiccatse refcrens AflGnis/ pumflte differt flonbos minonbus odoratissimu, penanlhi lacinus inter se subinequalibus conslanter ochroleucis exterloribus maculà ovalà nolalis. •pallhà TIX inflata prater aplccm anbscanoanm tolà herbaceà valvâ flxtcnorl dorso cannalo-alatâ

CROCUS AUCIBHI BOISS

Cr. lamcis radlcalibas... , folus synanlhus lalinsculis tubum flons squanlibuB infernè margine parcè cillatulis, bulbo 1-Bdoro, spatba) diphylls phyllis subacquallbus acuminatis longiludinahter pbcatis, perigonu crocci tnbo clongalo, fauce nudà, lacmils oblongis, anthcris pengomo tertiâ parte brevionbus, stigmalibus anlheras squantibus ultrâ medium 9-5 parlilis lacinha tennissimis apice TIX incrassatls intcgns.

Hab. in *J&ia minori* circa *Guenivh* Aucher N° 8349.

HabilDB ommnd *Cr. awei* a quo et affinibus follis ciliatulis, stigmalibus setaceo-mDltifidis nee apice Incrassalis crenalls statim dignoscitur Habeo specimina ex Argolde ab amiciss. Spinner migsa hole speciei fohorum latitudme et spathae formâ omnini consentienha sed in els anlheras sligmataque nlmia compressione destructa non vldere ticuit

CROCUS THESSALUS BoiB. et Spruner

Cr tonicis radicalibus sUpatim fibroso-inerteis areolis angulissimis, foliis synanthiis flore paulo brevioribus linearibus brevibus supernè albo-vittatis, spatibus duplici ptyllis subsquatis pellucidis pinguis rosei lacinae oblongae obtusiusculis, alaminibus corollae didymis brevioribus, stylo longè tripartito, stigmatibus antheras subsuperantibus apice dilatato denticulatis.

Hab in moirio *MtA Theasalia* (Spruner). Floret verisimiliter vere

Planta florifera 3-5 pollicans, folia per anthesin abbreviata latitudinis eorum Cr. *wrni* Flos colore *Cochicum* autumnal referens in genera parvus. E grege spemernm stylo proteridè (tripartito stigmatibus non multifidis donatarum. Inter eas *G. variegatus* a nostra differt flore duplo majore variegato, inimica radicalibus reticulatis; *C. Imperati* eadem florum magnitudine et colore, stigmatibus profunde fimbrialibus; *C. vtrivicolus* stigmalibus Bubiniensis, luteis radice albicantibus membranaceis, *C. Pallasii* foliis hirsutis stigmalibusque integris

CROCUS PMTAUMU Boiss.

Cr bulbi vaginis cartilagineo-membranaceis fissis sive foliis synanthiis flores superantibus linearibus setaceis rigidulis margine scariosa supernè 8 nervis sublinearibus albâ angustâ percursis, floribus 1-3, spatibus diphyllis ptyllis pellucidis obtusis, pinguis (e sicco) libido basi flavo-venis lacinis oblongis obtusis, stigmatibus perigonio latis parte brevioribus stigmalibus longis, stigmalibus aarantiacis linearibus supernè subdilatatis phacato-carinatis apice truncatis integris

Hab in *Bithynia* prope *Bolu* Pestalozza.

Folia 3-4 pollices longa Inenj 1/3 lala, flores minores eb Cr. *Boryi* cul inter omnes florum coloratione tunicarumque structure migh congrua Sed Cr. *Boryi* differt foliis abbreviatis Irinerviis, spatibus ptyllis acutis, stigmalibus multifidis.

CROCUS CARDIUS Clarke.

Cr. lunicis radicalibus tenuibus fimbriatis, foliis synanthiis floras equantibus strictis hirsutis acutis unguibus concoloribus,

spalhà pellucidft diphjllà pliylhs aculissimis longion saspe bihdi, pc-
rigonn (esicco albi) lacimis oblongis oblusiusculis, slauunibus pcn-
gonio dimidi6 brevionbus, sligmalibus antheras superanltbus intense
auranliacis mullifldis

Hab in *CilidoB* monhbus Aucher N° 9199.

Mania *h* pollicans, flores 1-3 niagmladinis eorain *C biflori*. AfG-
nis prasclun *C. Boryi* el *C Usvigato* B el Ch. ab ulroque differl
lunicis non Isvibus membranaceis scd c Ubns tenuissiinis angulo ferè
recto inlcrlexlis conslraulibug. Drevi descnptom plants Glarkians
omnraA cooveoit.

HOMULBA CBOCEA Boiss el Heldr in pi Anal. ens. 1847.

R folus lineanbus compress» snalis recurvo-paluhe scapo mulld
longionbus, scapis uniflons ev eodeni bulbo 1-3, spalbse valvis sub-
aequilongis extenon herbacea pallide virenli parallele mulliDervi. Inle-
nonlate membranaceo-marginalâ, pengoim crocei lacmus oblongis
apice allenualis aculiusculis exlenonbus tribus extAs angustè dorso
violaceo-fuscescentibus, filamenlis basi villosis, sbgmantibus stamina
lungè superanlibus pengomo vix brevionbus.

llab in pinelo montis *Solyra Lycia* propè pagnm *Karabahir* ubi
cl de Heldreich fine Marlîi earn legit.

Scapi 9-S 1|9 pollicares, folia ft-6 Iwcas longa, flos e SIQCO ferè pol-
licem longus.

AMARYLLIDEIÈ.

PA^EBATIUH TOHTIFOUUM BOIS»

I*, bulbo obovalo, eaule brevi sublerraneo Taginls (enuiler ueiü-
branaceis foliorum telo, loins synaulhiis glaucis lincaribua supernè
allenualis canaliculato-phcalia circinnalim contorlis, 8[iafhr laterali
breviler pedunculatâ vcl mlri folia snbsessiü tenerâ albo-membrana-
cea ovalâ acuminato-bifid& 9-3 flori, peiigoDû albi lubo angustissimo
gracill lunbo quadrup!6 longiori apice sensim aopliato, limbi ladoll*
afigustissimè lineaiibus aculu, corona; ultrâ medium hbero denttbus'

acutè Inangularibus, filamentu coronas inter ejus denies adnatis eis subterquilongis perigono brevioribus, stigmate perigonum subsquamulatis.

Hab. in deserto Arabia prope Djedda Schimper Un **Itin.** N° 676.

Folia numerosa 1-3 lineas lata plicata valde circumscissata, spatiosa 1-2 pollicibus, perigoni tubus t-B pollicaris, lobis magnum dimensum. *P. maritimi* Laciniae jam a basi vix 2 lineas late. A *P. martii* foliis angustis contortis, lobis longissimo et angustis laciniarum perigoni valde distinctam *P. maximum* Forsk ex Arabia quoque oriundum ex descriptione longe differat coronam longissimam cum tubo pedicello.

LILIAGEI.

TULIPA MONTANA Lindl var *thrysantha* Boiss* et Uohen in Kolsch pi. Pen. bor 1846.

Folia curvata inferiora latè imbricata undulata superiora lineari-striata. Flores non puniceis sed intense cinnamomeis.

Hab. in scaberrimis ad radices montis *Elbrus* alt. 4000'-8000', Kolyvan (Caucasus) N°78

Petalae exteriorae in hac specie plus minus aculeatae, interiorae aliquando aculeolatae aliquando obovatae obtusissimae. Bulbi vagina praesens in parte superiore valde albo-lanata.

TULIPA Came* Boiss et Heldr in pi. Crel. exs 1847

T. bulbi vaginis glabris, scapo unguiculato glabro humili 1-3 pediculis foliis lanceolatis imbricatis expansis recurvis canaliculatis aculeatis glabris acapo plerumque longioribus superiori saepe angustè linearibus, floribus erectis pallide roseis. perigonii perianthibus oblongo-ellipticis utrinque attenuatis aculeatis apice minutissimè puberulis interlobis basi subaequalibus ciliatis ciliatis glabris, filamentis laciniam partem perigonii vix squamulatis ad tertiam partem inferiorem usque praesens ciliatis ciliatis glabris, ovario lageniformi ~~antheris~~ luteis squamulatis, capsula ovali-globosa aculeatis.

Ifab in iiiitibua excelsis *Cretoe*, montes *Sttia LMstti, Ida*, monies SpAocfolcf(Heldr) Fl Aprili, Mm

Planla 3-fc pollicans, folia infenora k-B lineas lata. Pengomi phy Ua 8-10 lineas longa 3 tj2-3 Ij9 lata. Affinis T *Bithynicm* Grisebadi pi. Turc exs quam cl. auctor nunc in Spicil. fl Rum ad *T. Turdcam* ducit. Hoc, parviflora quoque, a nostrA differ! folns angustionbua ereclis, pengomi coccinei phyllis acuimnalis, filamentu usquè ad quinlam partcm inferiorem densè albo-barbalis

FamuARiA IACIA Bobs, etlleldr in pi AnaC. » s. 1W6

Fr glabra pallidè virens, (bins radicalibus 1-9 lencns oblongis vel oblongo-lanceolalis acutis vel obtusis nwcronulalis basi in peUolom tenuem era longiorem altcnualis, caulinis B-7 parvis omnibossoblequilalis anguslè lineanbus acute, flora (erminali nutanti folds supremis supcralo, pengomo breviter campanulato basi non gibbosi rolundato phyllis slnalis non tessellatiB rubns extùs innqnaliter luteo suffusis obovalo-euneatis vel subdelloideis a basi angostiorr semlm dilalatis apiceque abruptè el breviter angnsllalis exlcricionbns sepiùs anguslioribus elliplico-lineanbus, filamentis dilatatis supernè subangualahs parce cl brevissimè puberulis pengonil terbam partem squanlibus anthera breviter niucronala dupld longioribus, alylo glabro anthcras superanli ad medium usquè trifido.

Hab in pinelis monlls *Sotyma* Lyciae (Heldr.). Fl fine inartii

Gaulis 10-19 pollicans, folia radicalia 19-18 lineas longa 4-8 lata, cauhna 9-5 pollices longa lmeam nnam lata Flos Illo Fr *Measanenits* mult& brevior Inter Fr. *Gracam* el *Fr. acmopelalam* fere media hmc pelalorum forma accedens sed distincta foliis caulims anguslissiiins, pengomo niagis abbreviato, filamenlis non hirsutissimis Ft *Giwca* folns omnibus caulinis ab infimis ad suprema sensim anguslioribus, pengomi phyllis oblongis omnibus snbequilatis late viroscentli-fascialis sublessellatis longius dislat. Fr *Mmanenst** est planla iniillo robuslior, pengomo longluscnle cylindnco etc.

THIEQESIA LIBANOTICA BOISS.

Tb. fnhda tola farinoso-glanca, caule crasso elato Iotà longiludine folioso, folns allerrus (aliquando nonnullis Irrnalim snbverticillRlis)

oblongo-lanceolalis aculmsculis basi sessili ampleiicaubbtis, flonim»
 numerosis racemum lermmalem laxum elongalo-pyramldatum for-
 mantibus pedunculis perigomo scaqailongionbus a pice subnulanhbus
 suffultis, pengonn breviler campanulali per antheain subpatenlis baai
 rolundati non gibbosi pliyllis elhphcis oblusissims ulnnquè flavo-
 virentibuB slrns tenuisaiims fuscis apice furcatis eleganter picks, nec-
 lano basilan breviter ovalo, filamenlis perigomo subbreuionbus an-
 theraruiri lutearum basi perforate inserlis, slylo slaniinibus breuion
 Bimplici apice obscure sligmatoso, capsillis papyraceis fuscscsentibus
 ureclis dcpresBia abbreviatim.hexagonis acotangulis Inlociilanbus,
 seminibus biscnalibus compresso- plants obovalis basi angustalis
 *P>ce rotundalis angnst6 uiembranaGeo-inarginalis.

Var. *a bracteata* — Bractca: hneares paulù infrà pedunculum orlaj
 coque paulò longiores.

Var. *p ebraeteata* — Hacemns omninò ebraclealus.

Hab. ambo forms miita sed \$ ranor in lapidosis uuibrosu regio-
 nis mediae *Libani*, in viA inter *Beyrouth* et *Damaacwn* suprft *Khun*
Boutin, circa *Eden* copiose. Videtur florerc pruno vere, canlett
 jam fnicUferos Man fine legi bulbosque e quibus specimina Oorfera
 educavi

Planla odore gravi *Lantana* vel ormaj feline tola polline glaaco
 <ietemli obsita. Gaulis flonfer 1 lfl<2 pedalis fruchfer Inpedahs et
 ultrà Foha Inferora 4-6 polbces longa pollicem et anipliòs lalausquè
 ad caulem summum sensim decreseolia; bractuae cum adsunl 1 tji-
 3 pollicares ,11}9 Ineas lalaj Racemi ib-98 flon flonfen pedem
 dimidium fructiferi 1-1 d;9 pedes longi. Pedunculi i-| |fi pollicares
 Florea paulfernajoreseUT/iemfo PerafcffiC Kodi — *Frltill Per-*
**ic<B L. Pbylla 0-7 lineas longa 31;9 lala Capsula forma! cl ferè*
magoiludinis carum Petilil imperialis scd tenuiùs membranacea el
 ^ngulis angustiùs alatis donala. Semen tres linens longum supernd 9
 Ineas latum. TA *Penica* cm affims differl odore nullo, folns an-
 ipisborlbus, flonbus branneo-violaceis intùs virfdi - maculatis, an-
 Hieria « perigomo subexsertis purpureo - fuscis , racemo brevlon
 abbreriadm pyramidato; bajus capsulam non novi nee comparan*
 polm. — Genus *Theresice* a *FrWUariA* distinclissimam est formà cap-
 sula; cl bulbo non luberoao sed squamoso omnino *Lilii*, a *Petilio*
 aulem eodem bulbo efdemque capsulâ donalo tanlùm differ! inflo-
 r<scntiâ rt stylo Integra nee apice Inlobo

ASPIODELUS HIGIDIPULIUS Boiss et Heldr in pi Anal exs 1847

A percnms foliis omnibus radicalibus conferlis numerosissimis linean-subulalis ngidis quadrangulis subcompressis ad angulos scabndis acutis basi membranaceo-dilalalis glancescenlibus, scapo nudo folia snpcranti lercli a mediã parte ramosopamculalo ranûasimplici, raccmis lerminalibus tenuibus laxiusculis, bracleis scanosis pellucida albis nervo obscuro percnsris a basi lation tnangulan subulato-acuminalis flores non sqnantibus, pedunculis.e bracleã 1-ft erectis pauld suprã basin arlicuialis sub anthesi brëvibns postea clongalis perigomum dimidium icqnantibus, pengonn albidi ante evolutionem longi et anguslẽ tubulosi phyllis hnean-oblongis basi lantũm connalis oblusia nervo saluraliori percursis, filamenlis a basi dilatalã sub lenle minutẽ scabndã sensim ad apicem usquẽ attenuatis tabus pengonio quarlã parc brevionbus, tnbus aliis pengomo dimidid brevionbus apicc slnimã globoso-tnqiieirã in cuspidem brereni cm anlhen inseria csl producã inslruclis, anllien* filamenlorum strnmosonim breviorilms, capsaiã immalorã sicã globoso-subtrigonã, seminibus acute lngoms sub lenle punctalis dorso rugã unã allerãve inslruclis

Hab. in collibus apncis *Isaurim* inter *Koniah* et *Beychehr* loco Inbus leucis a pnon urbe dislanli (Heldr). Fl. Junto ineunle.

Folia 6-7 pollices longa lineam dimidiam lata Scapus cum racemis H } 3 pedalis, racemi 8-7 pollicares, pengoniam clatsum 7-9 lineas longum 1;9 latum Species pulcra collocanda propẽ *A. Tavr ricum* quod quoque slamimbns allernalira strumoBis gaudet sed longẽ differl caule folioso racemo denso thyrsoideo slmplici compacto, bractois densẽ confrhrs flores aeqnantibus rel superanlibus.

ASPBODELDS DAMASCEHUS BOISS

A. percnms, foliis omnibus radicalibus conferlis numerosUsirais linean-sublnquetris supernẽ siibiilalo-allenualis paginft infenori id margines aspernhs superior! Iambus, scapis elatis nndis folia superanlibus in racpmum simphcem longum laxiusculum abeunlibus, hracteis lancenlads geanosia acnminatis pednnculos non mullũm snpërantibiis, pedunculis n eãdem bracleã aggregatis suprã'medium articilatis flonfcns pengomum dimidium aeqianlbus fructi-

fcna elongalis, pengomo albido antè evolutionem tubuloso pilyllis linean-oblongis basi tanlùm connalis obtusis nervo lato obacoro percursu, filamentis infernè acabndnlis e basi lalion sensim alternuabs Inbus pengomo panlb brevionbus, tnbtis alus pengonio dimidi6 brevionbus apice slrumâ alalo-trigonâ cuspidal^ inslrachs, an-thens filamentorum slrumosorum brevionbuB, capsulâ (immaturâ) obovalâ rugosâ, semimbus acul& tnelns dorso rugosis sub lenle punetalis.

Hab in jugis humilioribus *Antilibani* in lalcre onenlah ad *Wadi-flarrada* (Boiss) Fl Maio

Folia 8-11 pollices longa infernè 1-9 lineas lala. Scapus cum racemo 9-3 pedahs, racemos ffuclifer rapè pedalis el ullrà, perigomum 9-12 lineas longum. Affinis babiln et florum slruclurA Bpcciei pne-**cedenti** a qaâ foliu lahoribos plamoribua Isvtusculis. racemo semper **simplici** crassion, peduncillis longionbas ad median) arlicalalis, flo-
>bus panl6 majonbus sal dialincta videlnr.

AsraDELUS BEFRACTUS Bo»s. in pi. Syr eis. 18(7)

A. annuus, radice simplici brevi In fibpas abeunti, foliu omnibui radicalibas hneari-subcylindricis compressis lffvisaimia pirte inferion visciduhsbasi membranaceis dilatalis parte saperion altenualls acal-
is, scapis 1-3 lateralibus ascendentibus incurvts trolibua lavibus folia mullo snperantibDB infrâ medium semel bisve dicholomè ramoais, reemis longislaxis, peduncolia viscidulis braeleâ albâ scanosâ ovati abrupto mucronulat& suffullis pauld sapri basin artjculalls supernè darato-incrasMtlis flonfens erectis flore subsesquilongioribus frucUferiB refractis eipsulâ 1-3 pl6 longionbus, flonbna parvis, peri*
goml phylliB oblongis albidis nervo raedio vahdo obscurion percur^
8<9, filaoienlis pengonio panl6 brevionbus dilalalis basi apicque allenuatis, capsulâ rotundalo-tngonâ Iransvoraè sulcalâ, semtnibus griseo-albidis acutè trigoms dorso Iranaverso sulcalia facie plants non foveolahs

Hab. in areno«is vallis t*Fadt Mokatteb* jugi *Sinailiei* nrnta cum ****ph. clavalo** (Vide Diagn. 7. p. 110) Legi flonferum Marie 1846

Folia 34 pollices longa inrernè vkhneam unam lala Scapi 1 1;4 pcdales, racemi demûro seimpedales longioresque tonnes Ux6 10-16 flon. Pedmncnh fructifen onmie rfracli *h-H* lineas longi Floras illis

A clavati el *flatuloni* immores obcomci vix 3 lineas longi Capsula piso dimidiò minor Species ab *A (isluloso, elavato* et *vi&cidulo* aflimbus prater noUs dalas slalim pedunculis fruclifens elongalis curvahone partis non articulate exiiniè refracIn-penduliB notabilu

A vlscidulutn a me pnuà in Diagn N° VII ex speciimnibus Scliiinperiauu dscnplum in planilie arenosà *Ramleh* diclâ ad radices mcndionales jugi el *Tih* in *Arabid petreH* Marte 1M6 abundè florcentoi legi et eum prieter nolas indicates ab *A clavato* scapo ascendenti, folus non scabndis, capsulâ depress^, Bemintbus minonbus ceesns laleraliler non foveolalis valdè distinclam ease observavi

GHIONODOXA cavriCA Boiss. et Heldr. in pi Cret u.s. 1847

Ch. folus lalo-linearibus plants flaccidi& creclis apice subcucullatis oblusis scapum ecquanlibus superanlibusve, scapo apice 1 scpl&s laxè 3-B floro, pedunculis erectis pengomo 1-3 pl6 longionbus, pengomi csrulei lacinus oblongis obtuwBimis nervo medio tenui percursis, filamenlu aubiequilongu albidis apice valdA retusw, antheria filamento subeequilongis.

Hab. in frulicelis Bcrbende consitis regioms subalpins montium *Sphooilicorum* suprâ *Askyphous* (Heldr) PI Aprili ineinle.

Scapi sajpe 6-10 pollicares. Folia 4-6 lineas lata, flores vix minores **flis** *Ch. LucilicB* nunusque palentes. Huic speciei valdc affins ab eâ sat differre videtur foliis dilalalis, scapo plerumque multifloro, pengomi lacinus brvionbus obtusis, filamentorum longiludine; an(hers eis hnjiis specie! breviores paulòque aculiores sunt Diagnosis *Ch. Lueiiaa* sic emendanda: Ch. folus angusle linearbua soboanaliculatis recurvato-flexuosis, scapis subomflorlB, pengonu lacimis •blongo-laacolalis allernalun aculiusculis, filamenlis alternalun longlonbus

CHIOKOUOXA NANA BOISS el Heldr in pi. Cret exs 1847.

Ch. folus angustè lmeanbus subcanaliculatis obtusis subrecu/vopatenbbus, scapo folus subsquilingo umfloro ranis bifloro, pengonu pallidè lilacini infernè albidilacinus ellfptico-linearibus obtusis ~ -r;4r'»^uraliorl percnsis, filamenUs apice Iruncalo-relusis allernaUm scsqiilongionbuti

Hyacinthi nanus Braun et Schult. — *Pudckinia tei* Uoides Sieber
Reise in Creta II tab 7.

Habitat in Creta in montibus Spiciacoti fete elatis (Sieber), monies *Lassiti*
alt 4000-8000' (Heldr.) Fl. Maio

Planta 34 pollicans. Folia 1/2-2 lineas lata. Flos eo *G. Ludice*
dimidiò minor a quò habitu, magnitudine et colore floris eeriè di-
allincta eat. Lacuna? pengomi 3 IH-fc lineas long© lineam i if* late.

ALLIUM ORIENTALS BO»9. (Sect. *Molium*)

A. bulbo ovato simplici lunicis subconaceis exterms mgrican-
~~tibus~~ internis candidis veslilo, scapo lercti crassiusculo usque ad
' l'iarlani parlem tanlùm foliorum vagims teclo, foliis sublerma gla-
or>s patulo-flejuosis recurvisve subundulatis plants canahculato-pli-
^ Ifs oblongo-hneanbos vel lalè lineanbus acuminatis sub lente ob-
scure denticulato-ciliolata scapo brevionbus crassiusculis glauces-
ceniibus, umbellà multiflorà capsuhferà ob pedunculos Infenores
^ ~~ecumbentes~~ hemisphencà, spalhà membranaceà Candidà persis-
lenti mullinervi tandem ob pilyllorum lacerationem plerumquè ad
basin usquè A pbyllà pbyllis ovalis cacullatis acummatis pedunculis
aqmlongis demumdeflexis, pedunculis flora tripl6 longionbuB, pe-
r'gonh albidi vel pallidè rubelli pbyllis elliplico-lineanbus oblusis
nervo virenti percursis ad basin usqu6 libens, filamentis basi dilatalà
°°nnalig indè ad aplcem usquè sensim attenuatis edenlulis pengomo
vu brevionbus, antheria luleacentibus, ovario capsulàque ovalà pe-
Hgonlo subsquellongà laeviusculis.

H>b. in *Orients*, *AHA minori* in *Carid* (Pinard), *Sipylo* monte
(Aucier N° 3500) et *Cilicid* (N° 2(88)), monte *Solya Lycix* (Heldr.),
in agris Syrtis ad *Akppum* Kotschy N° 71, in deserlis *Arabko* ad
fines *PalwstiruB* (Boies), in *Mesopotamia* (Aucier N° 221B).

Species cùaracibus habitu, umbellae et florum amplitudine
v'ldè affinis *A. tulipifolio* Ledeb-decipfenli Fisch. pro cuius formà
earn diù babuimus Bed differt fohis lationibus (4-6bn.). *A. tttlpm-*
folium Insuper habet spatham diphyllam obtusufusculam pedunculis
dimidi6 brevioribus, perigonu phylla basi longiusculè connata, ova-
r'ium tttborculato-scabrusculum

ALLIUM LIBANI BOISS in pi Syr cxs 4849 (Sect *Molium*)

A bulbo simplici tunicis extenonibus griseo-mgncanlibus tenuibus interioribus pellucidis albidis vcsulto, scapo humn hlercli ferè ad apicem usquè folioso, foliis glaucis crassiusculis glabns scapo longioribus lincan lanceolatis plants acutis vel breviter aUenuato-acutinalis expansis incurvia saepè circinnalid margine undulatis mteger-ninis, umbellâ muUiflorâ capsuliferâ convcxâ, spalhâ membranaceâ alb& persiftlenli pedunculis rcquanli ultra medium [irregulariter 1-4 lobis acutis, pedunculis crassiusculis rigidis (lore sesquialongioribus sub co incrassatis, pengomi albidis phyllis basiad quarlam partem UBque longitudinis roalitis lanceolatis acutis nerro rubello percnrais, filaments usquè ad pengonn divisional! cum eo et inter se coahlis tnangniari-lanceolatis acutis pengomo dimidi6 brevioribus, antliena brevibus luteis. capsull ovalâ breviter roslralâ pengomo YM brevior.

nab. in arcuosis summi jugi *Libani Makmel* dicli all. 700C-8000' Lcgi flonferum Julio ineunte

Scapus 9-3 pollicaris aspius ad 2/3 longitudinis arenâ mobili sepultis Limbus foliorum 3-4 pollicaris internè 8-5 lineas latus. Floras ilhs *A. tulipasfohi* leriA parte majores Pengomi phylla supernè angustissima Ex affinitate *A. tulpoefolii* et *A. akakee* Gmel. = *latifolii* Janb et Sp Prnis differit scapo elation, slamitubuB phylla pengonn oblonga acquanlibus, postenus foliis brevibus lalift, pengonii phyllis angustioribus basi breviter coalitis mullò lalius nervosis.

ALLIUM PHILISTSUM ROISS. (Sect. *Molium*)

A. bulbis aggregatis, luncis extenonibus coriaceous punctatis cinerascensibus intenonibus membranacem alnidis,scapis plunibus terclibus crassiusculis lanliim unâ basi vaginalis, folns vindibus erecto* patulis flexuosis angustis hneanibus canaliculato-phcalis supemclongi subulato-allenualis scapo aequilongis brevioribusve margine remote ciholalis caeterum glabns, umbellift capsuliferft mulliflorâ coftvexâ, spathift persistenti membranaceâ plunnervi sordidè lulescenti monophyllâ pedunculis flonfens vix brevior ad medium usquè vel inferius fissâ saoptis 3-lobatâ lobis abruptè et breviter acominalis, pedunculis rigidiusculis flore srsqinlongioribus friichfens elongalh, pen-

gonn c sirco slraminei niUdi phyllis elongatis oblongo-lanceolalis
ba9i breviter inler se coactis apice atenuatis acutis obscure ner-
•alls, filaments a basi lalion inter se breviler el cum corollâ coatilis
sensim adeniiatis pungomo subicqailongis, anlhens Intois, capsulâ
rolnndato-sobdepressâ brevissimè rostratâ acutè tnangiilalâ pengom-
mo persisenli clauso plùs diimdid brenon

Hab. in *PalaestintB* collibus SICCIS et arenosu circâ *Gaza* **Legi**
Apr 18ft6

Scapi flonferi 3-* post anthesin 6-8 pollicares, folia infernè 1 lineas
(antùm **lain** Flora magnitudims eonim *A. moty* ct *A. Tosei* sed
Puylla pengomi angnstiora 5-5 1;2 lineas lanliim longa. Ex affinitale
4 chamamoly et *A. subvillosi* a quibus cliaractenbas dafas facilè
distinguilur

AILIUM PAPILLARE BOISS (Sect JVoKUflt)

A. bujbo ovatosimplici tumcis extenonbus conaceis fncscēntfbiis
•ntenonbus raembranceis vestito, scapis mediocnbus ascendenlibus
leretibns crassinscnlis ierelibas glabns vix ad quarlam partem osqae
vagmalo-foliosis, foliorum vagims papillis lineanbus albis adpreasls
plerùmque retrorsis densè pubescenlibus, limbo erecto glabro cana-
liculato-plicato a basi linean longissimè et sensim sbulato-acumi-
nato niargine Inlcgro scapo parikm brevion, ambellâ capsuhferâ
multiflori conrexâ peduncalis subaeqnalibus flexuosis flore duplò
longionbos, spathâ peduncalis aqquilogâ persilenti membranaceâ
albi nerrosâ in 3-1 lobos in caudam setaceam eis Bajpè subnquilon-
gam abruple deslnentes lacero-parliâ, perigonii albi phyllis ovatis
obtusis obscarè nervalis basi Inter se tongiasculè connalis, filamen-
t's pengonlo subsquilongi9 inter so et cum perigomo connatis a
basi latâ sensim atlenualis tnangulart-lanceolatis, antheris **lolels**,
capsulâ subrotnndo-angulatâ pengomo subaMiuiIongi

Hab m deserto ad mendiem *Pakesttna* inter *Nochl* et *Gaza*
(Bofss) Ineunte Apnh jam ferè defloralum erat.

Scapi 0-8 pollicares, folia ad basin limbi 9 1)9 lineas circiter lata,
flore magnitudinis eorum *A. wtotUmt Sahm.-vernalis* Guss. cat nt
el *A. aubhinuto* et *A. hinuto* Zuccar e Palesfinft qnoque^rlundo
affine est sed ab luscc omnibus facilè distlnguendom indole inda-
menti vaglamm non e pihs sed e papillis rigidis brcvihus laluiscu-

lis coiislaīiti, tolms noil plants sed canaliculalis longissiuie allenua-
»patlia: lobis Longius caudalis el prasertun |ierigouu pliyllhs brevibus
oblusis nee aculis

\\LIUMC\\SSIUI BOISS (Seel *Moliuin*)

A bulbo ovalo siniplici tumcis extenonbus cinerasciilibns punc-
lali!) intcnoribus albidis vcsllilo, scapo lereti tcnui flexuoao ad quar-
taiu \\el quiulani parlem usquē folioso, vaginis glabns vcl parcissimē
el tenuiler puberulis, folns angustissune ltneanbus plants planner -
vua inargine inlegm glabns acnlts flexuosis scapo vix brevionbm,
uinbellà cjsulifcrA b-11 florà pedunculis gracilibus erecto-Oexuosis
flore t-% Ifiplò lungionbus, spallià membranaccà pedunculis dimidl6
brevion alba persisenli defle&A umlaleraliler fiaša \\el i-k fobalobis
breviler acuminalis, pengonu pnoiiim albidì demum pallidè roaci
plijllis oblongo-ovalis obtusis fere ad basin usquē hbens oervo medio
saturation nolatis, fdamcnlis pengomo dinudiA vel terlià pacle brc-
vionbus brevissiine coniotis a ba»i dilatalà usquē ad 2;5 longiludims
scnsim angustatis (ertià parlc superior! subulalis, anlhens luteis,
capsulà .

Hab in lapidosis partis sii|>erioris monlis *Ca&si* Sjrte borealis
onenlem versus (Boiss) Jumo meunle florerc incipil

Scapiib 8 9 pollicans, loha inferne sesquilineam tanlùm lalavmdia,
Cores illis *A rosei* vix minores Hoe affine nostrae speciei ab eà differ!
scapo clato robustion, folus lalionbus denhoulalo-scabridis, urobellà
multiflorà, pengumi phjllhs intensè roseis minus oblusis concolonbus,
filamenlis a basi ad apicem sensim allenualis pengomo vn quarIA
p^rte brcvionbus *A. erwpfalUim* el *A. Gracum* phjllis pengonu
aculis longius distant

ALLIUV CARMEU BOISS in pi Şvr exs 1647 (Sect *Nolium*).

K bulbo ovato lunicis albidis crassuisciilis opacis secus scapi basin
in vaginas elongalas rubcllas produclis vestilo, scapo crassoelato
tereli ngido Isevi medullà farcto ad quarlam parlem usque folioso.
vaginìs foliorum undiquē relrorsum pilis albis brevibus mollibus ve-
iiafio-inVlis, folus lalo-linearibus plants clongalis scapo brcTioribus
oii|iernc longo t* scnsim atlonualis canalirulato-pliratis ulnnqiu* mr-

(is marginccilialis, uinbellic multiflore globusse capsulifene pcdunculis subaequalibus flore subquadruplò longionbus, spalht mono-ph)H4 in&lacimas ovalo-venlncosas albido-membranaceas virescenti-nervosas apice altenualas breviter selaceo-caudatas umbellâ paold breviores demùm deflexas ferè ad basin usquè parilâ, pengonu campanulati albi pliyillis oblongis obtusis concavis subencrvm ferè a ba<i libens, filamentis vix coalitis a basi dilatalâsursùm altenuatis superne subnlalig, anthcns luleis brevissimfe esserlis.

Hab. m rupestnbus Canned ubi legi flonferum ineunle Naio

Gnlmus 3-4 pedaln infernA pennâ ansennâ crassior. foliorum infenorum hmbus 11f9 3 pcdalia basi 6-7 lineas lalus Umbella dianelro 1 i;j-j pollicans, floras magmtudims el colons eorum *A cepa* Species quoad affimlatem dubia; stalura elata el umbella *A. porri* & *A multiflora* sed stamina simplicia. Hoc *Moliis* ob spalhse formam 'ndumentamque foliorum adnumeravi sed ab eis differt scapo infernè ~~Piloso~~ et pengomo campannlato nee patenti Forean meliùs in Sect, **Scorodo** collocandum.

ALLIUM AITHOVIOLACEUH Boiss. Diagn. VII var *angustifolium*

Minùs elalum. Umbellse minores magnitudims speciminam majorum *A. Spaihydrocephali* Folia I I/J-2 lineas lala.

A. serntlatum Boiss. in Kolsch pi. Pers. bor N° kH9.

Hab. propè *Teheran* (Kolschy), in *Mesopotamia* ad *Bauerd Rol-schy* pi. Mesop N° 409

Aixim RDBBOVITATUH Boiss et Heldr* in pi Cret. exs 1847 (8ecl. *Porrum*)

A bulbo unico vagims albis opacis veslilo, scapo humili ferè ad medium usquè foliato lereli sub lente angulato-costato, foliis anguslè linean-subulahs scapum plerumque superanlibus semiteretibus supernè canaliculalis non fislulons infernè margine soberrulatis caete-^m glabns vindibus flexuosis. umbellâ capsuhferâ parvâ densâ capilato-globosi, spalhs TITIS bims albis opacis broTiter acnminahs umbellâ Inpl6 brevionbus, pedunculis exlernis brevissimis inlernis florem cquanlibus vel co sesquilonionbns, flonbus mediocnbus, pengonu phyllis a basi dialinclis o\atis rannatis obtusiuscnlis dorso

el tmarginaculeoUto-scabridis ad cannam intend rubro-vittaks marginealbidis, filameulis dilatabs apice rubellis mlerois tncusptdatis, cusptide anlbenferà laleraibus exserlis dimidi6 breviori filameolo niullolies breviori, capsulà minulà ovato-rolundà pengonio pauld brevion.

Hab. in Cretd, in saxosis faucis *Kordalio* in Eparcbià *Agio Vasili* (Heldr) Floret ineunte Junto

Scapi 3-3 pollicares, folia tenuia ngidula Umbella inagmtudinis avellanae minutae Flores eis *A. sphaerocephali* pan\6 minores a quo scapo bumili, folns II0II fistulosis, pedunculis uiull6 brevionbus, perigonu coloratione et denlium stammeorum proporlione diflert Habitu magis affinis *A. gomphrenoidi* et *A. Cilicio* que eisdem characlenbiu differunt et *A. Jteuferiano* quod folns crassionbus, pengonio roseo levi, filamentis multò longiùs exserlu differt

ALLIUM cALYPIHATim DoibS (Sect *Porrum*)

A bulbo unico ovalo lunicis fuscis apice in fibras longas laceras parlem infenoreoi scapi laxc vayinanlcs prodiiclis veslilo, scapo le-reli slnato ad tertiam partem usquè vagiuato-folioso, fohorum limbo glabro vindi brcvi plano-linear acolo mullinerri rigldulo marginc sub lenle scabndulOj umbetoe laxiusculs 10-fS florae peduneulie inaequalibus flore i-S I}2pl6 longionbus, spalhà membranaceà rubrà tenerà calyptra^brmi monopbyllà ovalà in cusptideui eà aesquilongiozem abruptè abeunli laadem flonbus explicatis basi circumscissà sepèque lateraliter fissà deciduà, spalbellia partialibus albis laceris I>eduncolorum baain ciugcnlibus, pengonu albidi phyllis oblongis ferè a basi libens cannatis oblusis carinà scabridl apice pronnneati obscure mucronulafà, filamenlis dilatata intennonùs (ricuspidatis cusptide anthenferà laleralibus tripl6 breviori subeiaerlà filamento mullolies breviori, anlberis brunneo-lutels

Hab. in regione alpinà uiontis *Cassii* in consorlio *A. Cassii* Nondum flonbiu aalia explicatis bane planlam Junto ineunte legi

Pedale. Fibre e tumcis orts aecùs acapum ferè 3 polliceB longs J foltorum hmbus i iji-S lineas latns 5-4 pollices longus *Caricti* folium referens. Floras magmtudims eorum *A. ampttoprasi*. Spatba ampulacea in coBpidem 7-9 lineas longam abruptè desinens. Flores in s|>eciinlnibus meis in charlà explicate albi. Species spalbe forniA

Inagnis, mdole lumcarum A *Bcbticwn* refercns, ab eo el ab A *ar-*
cons pelalis cannâ scabndis, ciispide anlhenferâ brevissimâ folu-
que plants di&lincta

ALLIUM SINAITIGUH Boiss (Sect. *Porrum*)

A bulbo , scapo humili ad medium usquë foliato, fohis gla-
bns vindibus anguslis terelibus fistulosis apice attenuate acutis Bcapo
plùs dupl6 longionbus, uinbelln pauciflone peduncnhs Bubincequa-
libus flore J-5plò longionbus, spatbâ albâ membranaceâ plunnem
̄persislenli flonbus eipansis irregulariter ruptft, perigonii albi phyllis
oblongs obluuascuhs cannâ virenlibus totâ facie scabriduhs, fila-
mentis inlerms tricuspidalis cuspidibus subasqualibas filainento di-
n»idi6 bre^ionbus antliens fuscscenlibiis e&serlls.

Hab in locis elahs deserti *Sinaitiei* inter convenlum et jugum *Tih*
obi specimina pauca Apnli 4846 legi.

Scapi 4-5 polbcares, folia 6-8 pollices longa 1-1 1/2 linesa lata.
Flares 5-8 magmtudinis eorum A. *ampeloprasi* et A. *calyprati* cm
affine est sed a quibus folus, cuspidum slaminum proportione distin-
guitur Forskableus in Pl̄or./Egypt paucissimis verbis^IHfspeciem
^> desertis Kabirims ei obviam el ab eo A. *desertorum* nominatam
describlt qns ex anlvena qiue subulate dicuntur et corollâ albo-lus-
^c«centl a plantA hie descriptâ diversa ease vldetur

ALLIUM BCABHcAPri Boiss in Kolschy pi Pen. bor. 1847 (Seel
Rhizirideum)

A bulbis obloogis rbizomate tenui honxontali brevisaimo conjunc-
tis tUDicis crassis fibrous elongalim areolatis densissimè obsilis lo-
fernè fibras lenuiter cylindncas longas numerosas edenlibus, scapo
«reclò lereti slrialo crassiusculo infernè tantum breviler fohoso au-
Pernè Beciâ slnaa regulariter papillari-scabndo, lolus In fascicu-
'»s atenles lumcft commani incluftos disposilis el secûs ecapi parlem
iofenorem eitit, vaginâ albidâ tubulosâ virescenli-nervoaâ, limbo
plauo crasaiuaculo glaucescenh brevi marglue serralato-papillari h-
aeaji apice brenter anguslalo aculiusculo inferoc usquë ad vaginam
'ongè attenuato, umbello multiflorae capsulifcne globoss pedunculis
equalibus flore subriplò brevionbus, spalbâ lenerâ membranacea

albidâ obscure nervosâ umbellâ dimidiâ brevion in 3-4 phylla obluâa demuin deflexa lacero-par(itâ, pengonn albi campanulali phyllis TU coalitis oblongis oblusis nervo medio pallidè nrenti percursia, filamenlis a basi dilalalâ ad apicem usquè sensim attenuatis pengonium subaequantibus, antheris fusco-luleis

Hab in saiosis monlis Elbrus Persuè boreal is propvpagum *Paui-gala* Kolschy loc cil N° 363

Pedale vel sesquipdale Folia B-6 pollices longa circ. 3 lineas lala infernè valdè allenuata Umbella diametro circiter pollicaris, floras niagniludinis et colons eorum *A Cepa* Ob rlnzoma vin mamfeatum inter *Hjizirideum* et *Scorodon* medium est Radicis indole el toto liabitu affine *A Tatarico* (bins anguslè lineanbua scapoque Iffivibus, pengomi paulò niajons phyllis acidssinns disincto. Foliorujn Hmbus infernc in peliolum angustalâ& quamdam affimlalcu cum *A Victo-riali* quoque demonstrat

ALLIUM NAGHOBHIZUV BOISS. in Kotschy pi Pers bor 1846 (Sect. *Rhiziridium*)

A bnlbo subrluzomaloso lunicis fncscis coriaccw secûs basin acaporum in lacimaa laceras longe produclis densâ veslilo longo craaaoparlâ infenon fibras namcrosas longas lenues c>lmncas edenti. colmis lerelibus stnada ad medium usquè foliatis, folus lineanbus ngidulis laivibns glabris scapum subsquanUbus infrâ canahculalis suprâ plants, nmbellâ globoaft capsuhteri pedunculis mquahbua flora subdaplâ longionbus, spatba: valvis binis ovahs albis membranacea um>ellâ dimidiâ brevionbus citâ lacens evamdisque, perigonu rosei phyllis oblongo-linearibus obtusiusculis basi inlrr sc coahlis nervo saturation percur'sis, filamenlis basi breviter coalilis dilalalisdein allenuatis supernè subulatis rubellis pengomo sesquiongbua edenluhs, anlicris rubellis.

Hab. in regiombus oxcelaioh'biis monlis *Demavoend Pcrance* borealis Kolschy N° 610 Fl Aug

Radix *Z-k* pothces longa pollicem dianielro lala Gulmi 19-18 pollices longi i folia supernè sesquilineam lala. Umbella; et floras similes cis *A strieti* quod a noslrrt specie differ! tunicis radicis tenuiom reticulalo-ribrosb, filamenlis tnbusbasi utnnquè nnidenlalis, folds aoguslionbus Affine quoque *A ochroleuco* lunicis apice troncalls coInreque flons diverso

Obs. *A. nikanicum* Boiss in Kolschy PI Pen bor exe N" W
ullenon examini subjectum est tanlũm forma flonbus majonbus *A.*
rvbeUi MB

ALLIUM CHLOHAWTHIM Boiss. (Sect *Codonoprasutn*)

A bulbo ovalo simplici tunicis exlcnonbua mgricantibns corUcoBis
intenonbus membranaceis veatilo, sca*po flexuoso lerell ultrã medium
ramosd folioao, foliis subcylindncis fialulosia aculiuaculis scapo
subaequilongis, umbellã mulliflorã capsuliferã pedunculiB parũm In-
a^qualibuB Sore 1 **If3-9pl5** longioribus exLenonbus deflexis, epaUue
valvu blnis albo-membranaceis nerroals a basi oblougã longẽ cauda-
lo-acuminatis umbellam sqaanlibos aot eã **1 l}9-3pl6** longioribus
tandem deflexis, pcrigomi campanulali phyllis oblongia obtisisaimia
Isvibus recenlibua palhd6 luteolo-virenlibus nervo viridi percunia
eisiccatls luteolo-alamineis, filamentls basi inter se et cum pertgo-
nio connatis sinubua edentulis a basi aublalion usquẽ ad aplcem
panlulũm allenualis, anthens breriter exBerlis luteis, oTanohexa-
gono solcato tuberculato-oblongo, capsulã tngonã truucali vesicu-
loso-tubereulatũ\ perigomo sublongion.

Hab in monle *Cassio Syria* borealis ubi Junto 1846 legl et undẽ
bulbos retail e quibus plantam TTBOI deacnpsi.

Species *A. pallenti* L. habitu, umbelle et florum magnitudine
characferibusque proximẽ affins sed ab ejua formls omnibua floram
colore, orano capsulftque exlmiẽ veBlculoao-tuberculatis nee Uevibus
facUẽ dlstinguenda.

ALUIM HODBSnia Boiss. (Sect. *Codonopnum*).

A. bulbo ovalo tunicis albo-membranaceis vestito, scapo terellbumi-
li ad medium usquẽ folloso antẽ anthesim apice cximiẽ flexo, foluste-
nmbus semicyhndncto Bupernẽ caualiculaliã infernẽ fislulosis scapum
equijitlbua vel superantibus atõ emarcidis, umbellã capsuliferA sub-
multiflorA pedunculis tenuibus patulo-effbsis lDBsquahbus (lore 5-4pl6
longioribus, spalha pbyllis bims aJiasisubdilataUlineanbusumpIls
asqualibus vel eã dapld longioribus deflexis, pengonii elongali cylin-
drif phyllis oblongo-lineanbas obtusiuscufis levibus vivis sordidẽ al-
bo-virenlibas rubello-Uctis siccis rubelhs, filamenlis infernẽ inter sc

i'l iijijomo adfiali* r basi siiblaliol i altcmiahs edenluhs p̄rigomo tertuk p.irlf lirmoribus, antheris luluia, o\ario ovalo obtusè hexagouo wsifiifh olilongis obsolete punclalo

Hab in (lesclris ad meridiem *Pattslmte Gazam* versus ubi Apnli H4G flnridum U'yi et undè recluli bulbos quibus plantain educavi cl descnpsi.

Scapi S-8 pollicares Umbella 18-80 flora Perigomum 5-3 l j» li- iicjis loughim Inflorvscentia diflusa cl habilus *A pulchelli* Don Ab PO el omni grHC *A pallenlnw\ A earinali* dislinclibSiniLiu pengo- mlo loii|iori cyliiitlnto lilamciilis mullo longion *A. callimwcho* Kill *A leptilo* et *A. partifUno* pungonii formi magis atcedil sed propliT inflorest-enlidin diTusriin, colurcin Qoriim, t'lc , cum eis non confundi polcsl

01)9 i° *A. Pitidicum* Doiss. et Heldr pi Anat IMG cum amiciss J (iay in ann *he* ^al. Oct 1847 cum *A. Cupani* Hudn conjuguius

2° (l Gay loco citato sub *A pulchello A carinalum* f> *cupnult- fertini* Korli rt *A piUchellnm* Don vuruin conjunxil sed bajc plaula m̄ini a priori pudunculib longis ufluA divancalis • pengoiuo rolun- ilato nrc ovalo, slaluià niinori facile diBlinguenda ease vidctur.

3° *A. Olympicuni* Roiss a cl Gay til synonymon *A. pukielU* sui *A carinuti* (1 *capsuliferi* citatum niilu semper species dislinclU ease viddur; prasler umbello) condensala: pedunculos aubacuales, floras in co semper saltern lertii parte ininores sunt, tunuuc radicales ultrft scapi origiinem ul in eo nunquam produclai aunt.

ALLIUM FHIGIDUM DOISS cl Heldr. (Sect. *Coihmopratum*).

A. bulbo ovato tuncis exlernis membranacea nigra seeds scapi pnrtem infcnorciu pQa minus produclis internisque albis pellucidis veslilo, scapo lenui luunili ad medium usquè S-3 folua lnslruclo sicco glrialo, foliorum va^ims stnalis, limbo subulato senucylindrico ngi- duiaculo flexuoso oblusio scapo brevlorl, uuibellm capsulifcre pauci- flora; peduiculis subinasqualibus per anUiesm flon lequilongis (andem elongalis, spalha: phyllis bims e basi laliori alteoualis lanceolato- lineanbus umbellk vel brevionbus vel sublongionbns, pengonii bre- viter campanulali pilyllis ovato-oblongis lajvibns in vivolutescenlibus Biccis slraminpo-rtibellis nervo doraali rubello producto breviter mu- J, filamenlis basi longiuscnl6 pengomo adnatis a basi lalion sensim attenuatia perigonium subasquandbus, capaulA lasvi breviter ovalfi Iriguni pengomo subbrezion

Hab in caenine *Taygeli* onenrin versut Heldr pi cxa. 1848 sub *A monlano* Siblh cvalualuin All GOOO/KOO Hine quoque probabiliter referenda sunt spccinrna mcoiuplela e *Tauro Cilicia* Kolschy pi. Taur N° 497

Scapus ft B pollicans, folia !cnuia, flores magnitudinia corum *A carinati* aod subbreuiore, Ab omnibus foruiis *A. paUentis* slalurâ, umbellâ 5-13 florâ, pengonu pliyllis aculiuaculia mucronatu nee ob-
lulis Iruncalis longc diversum Magis aftine *A Sipyleo* Doiss. quod ab co folns crassioribus, (Msdunculis crasslonbu9 longionbua valdè msqualibus pengomoquo elongalo cylindnco-caoiapanulato lanlûra differ! *A tnonlanum* Siblh. Fl gr lab 319 cujus tandem speci-
mina e loco classico (*Otympo DithynicB*) cL iconi onininò conforms in Aucber N° 9907 vidi, differl a nostrft sjjecic liimcis bulbi conaceis elevelim coslato-nervosis

BELLEVALIA XACHOBOITHYS BOIBS

n folils lalè lanoeolAto-hncaribua siiperni allcnuatis scapo squi-
longia vindibua margine sub lente minutè el remotè serrulalo-sca-
bndiSr flcapo elalo in racemum laxum post anlhesin longissimum ab-
eunli, peduDCulis basi squamulâ vn perepicuâ obsilia flori aequilongis
fructu Iripl6 longionbus el tune arcuato-palcnlibus, flonbuaommbas
ferlilibus coruleis demùm livscentibus, pengonio campanulalo nfrA
tertiam partem usquè parlito, flamenlis dīlalalis triangulanbus pau-
lulûm Infrâ tubi dividionem inscrlis, anlbens rubeilo-ferruginea,
capauls trigoDE valvutis ovalis subretusis elevelim penmnerviis sub
lente areolatis.

Hab. In arris *Pakeatina* calidiona ui regione *AmQlecitamm* ad
meridiem nrbs *Gaza* sitâ, Inter *Ramla* et *Hierosotymam* legi flor
Aprili.

Scapus cum racemo aapè bipedalis, luc fruclifer pedalis et ullrt
pedunculls polllcaribus allquand6 subverlicillalis. Folia 7-1lf lineas
longa, flores Ires lineas longi Illia fl. *Romana* paul6 mmores angus-
lloresque; hoc insuper differl foJus angustionbus, flumcnlis pro-
Tundūs Inserhs, antheria aiureis. *B. dubia* dlsllnguulur foliis anguslis,
pedunculis frnctifens capsulA non longioribns *B. trifoliata* demquè
florlbuB sex lineas longia breviler pedimculalis, anlheris coiruleia
longlûs distal.

HELLEALIA FLEXIKHA BOISS

B foliis aigiislè IdiiceoJalo-linearibuH apice atlenualis scapooqui-longis loargine denticulato-scabndis parallele mullincerviis, scapis I-4 ex cudem bulbo suprâ basin curvalis ascndcnlibus in racemum sub anliesi brevem ovalum frocliferum laium abennhbusj floribus livscenlibus pedunculo flore subbrezion fruclu aequilongo vel sesquiloncion patuloque sufTullis, squamulis adr«peduncolorum basim niiniis, pengomo campanulas vix ad lerliam partem seiparlito, flamenhs Inangulan-elongalis lubo ad rjus diviaionem inserlis, anLbens caeruleis, capsulas trigonal valvuhs ovalia obtusw mucronula(is sub lente clongatim areolatis

Hah in pralis sicna cl muris humo lechs circa *Hierosolymam* frequenter Floret Apnli (Boiss)

Folia utet scapi 3-b pollicana. Hacnii 10-50flon frucliferi %-iifi pollicarsi pedunculi fruclifen 5-tt hneas luugi Folia 3-4. Imeas lala Flores tres lineas longi A prascendenti distinclissima stalurft humili, folus angustiB, pedunculis brevibus, antheraram colorc. Inter Bpcies puimlas et angUBtfoliaa ejusdem generis *B. glauca* Kth. differt pedunculis fruchferis valdè elongalis. antbeiis casio-ferruginea, foliis cilialis; *B Romana* et *B dvbta* foliis longioribiiB, pengonio mullò profundiuB fisso, capsula majon

HUSCARI LONGIPES BOISS

M. foliib linean-laoceobilis infernè angustatis apicè loogè attennalis canallculato-plicatis margine Bubundulatis sub lènte Bcabridodenticulatis parallelè raultinerviis scapo brevionbas, acapia erectla in racemum pyramidatum abeantibus, pedunculis borixontallter patientibus pengonio florido aequilongu vel sesquiloncloribus perigonio fruclifcro 4-dpl6 longionbus, floribus casruleBcenli-hvidis aupremis stenlibus paucia amethystinis brevisBimè peduacnlatis, perfgonio urceolato-cylindrico subpyriforml parte Inferiori infrA stamina subanguatato apice constneto brevisslmè et rotandatlm qulnque-lobo, filamenlis brevissimis plamusculis veraûa mediam partem pengonu in doas series quarum allera altlor insertis, antberia urevmuB rufescenlibus, capsuU 0ⁿⁿlon) pedunculo multotieB breviori oblongæ apice attenuaiâ valvulls parallelè et transversè nervosis

Mab ID am* pinguibus *PakestiruB* litoralibus calidioribus ad meridiem urbis *Gaza* sitis et in regione *PMlistasoram* ad septentrionem ejusdem urbis (BOISB) Fl. Apnli

Species insignia inflorescentia *Bellevalice ciliatm* et floribus *Muscariidis*; Folia latitudine a *H* ad il lineas vanantia Racemi fructiferi 4-6 pollicares ob pedunculos inferiores aequaliter bipollicares cernuntur pyriformes. Perigonium sub antheris 3 in 2 hinc longum. Ab omnibus aliis generibus inflorescentia, staminibus insertione, etc diversa

Obs *Batryanthus Sauli* Jaub et Sp Hluatr pi Or. tab. 530 eat *Muscari moschatum* W

COLGHICAGEIE.

NERKNEBA PEBSICA Boiss. in Kotschy pi. Pen bor. *IWI*.

N. bulbo elongato apice attenuato tumidis fuscis secus scapum productum veslito, vagina tubulosa integri apice oblique truncata membranacea pallida fusca scapum usque ad foliorum ortum cingenti, foliis 8-4 circiter linearibus attenuatis acotis erecto-patulis glabris, flore intra folia breviter pedunculato, perigonio ad basin usque sexpartito unguibus longissimis filiformibus laciniis angustis oblongo-linearibus elongatis omnibus in unguibus sensim attenuatis eiaunculis, filamentis usque ad lanam inferiorem ad basin parte libera brevissimis, antheris lutescentibus hinc linearibus elongatis paulo super basin filamentis aduatis, stylis tribus filiformibus a basi distinctis, carpellis ovatis basi adnatis supernis libens attenuatis aculis.

Hab. in Peria prope *Teheran* Kotschy N° BO

Species n speciminibus fructiferis perigonia bicca retinentibus et quoad radicem uniconis descripta et ideo observari non commendanda Scapus fructifer 4-8 pollicares, folia 3-4 pollicares longa inferne circiter 5 lineas lata. Perigonium lacinis e sicco 11-12 pollicares angustiusculis Antheris hinc 1-8 lineas longis. A. M. Coult. cui babilu et florum magnitudine affinis osse differre antheris linearibus nec breviter oblongis basi sagittatis *M. Jttica* et

H. sobolifera quam e desc. iplione suluin novi quoque anUiens ellipticis filamenlo mullò brevionbus; *M. flifolia* antheris linearibus donala folns angustissimis a noslrA specie dislmguuntur.

GoicHicuii KOTSCHYI Boiss in Kolachy p| Pers. bor. 1847

G bulbo oblongo tumcis (enuibus ineinbranaceis fuscis in vaginani clongatam produclis veslilo plunfloro, vaginà lubulosà oblusft apiece fissft Lubum florura ainpleclenli, folus hysLerarillms , perigomi lubo e vaginft long6 exserto limbo tt-Gplò longion, lacimis pallidè roseis concolonbus angü8tè elliptico-hncaribus oblusis obsolete 16-18 nervns ncrvis reclis dislinclis venis pancissimis Iransversis, anfhens flavis lineanbus reclis filamenlo paulò suprà suani basinⁿ inserlis «*6- que snbmquiloigis, stylis in sligniala apice subinctrva submcrassalis slamina superanlibus

Hal) in solo sclnstoso ad radices montis *Elbrus* propè *Ptusya* Ut PL Aug. Kolschy pi. Pen bor *exs.* N° 6SK.

Bulbus in oieo apecimmc magnit nucis sed longior Pengonii tubus semipedalis el ultri Limbi lacinia? sesquipolhcem circiler longs parte lalion % 1|9-3 lineas labe Anthers k lineas longse Species folus dcfcientibus imperfclè note *C autumnali* at videtur affims dislincla lubo pengonii longion, lacimls anguslionbus nervis`pau- cionbus percursis, anllieris longioribus filamenlo iBquilongis nee eo i-3plò brevionbus propfc basin nec medium versùs affims *C tim- brosum* Stev habel flores dimidiò minores lacinnş pengonu oblongis el longiùs distal

CYPERACEÆ

CAHXK KOTSCHYANA BOISS el Hohen. in Kolsch pi Pers auslr 18fr6 (Sect *Legitimie*)

C radice cxspitosi stolomferi, vagims Infenoilbus Don roliculalo- Gssis, culmo credo acutè angulalo supernè ad angulOB scabro in- fernè folioso, folus pallide virenlibus longè acuiualo-aUenualis apice selaceis margme icabns, spic& lerinmali inasculi erecli, feini- ~~1015~~ a-a subsessihbus oblorigo-cyliiidnci" ereclis, braceis foluaceis

vagina ilelilulis basi ilnnqnc qcannso-marginalis linean-sclaceis infimá splcam aequailli vel eâ brevion eslens mnllo brevionbus, frncn glabro viridi obovato obtuso brevictsunc roslallalo ulrinqud compresso siiblnflato enervi, rosello lerrti integro, squamis fuscis oblongis fructi angnslionbus brevionbusque, sligmafibis bims

Hab. ad nvulus Alpis *Kih Datoia Persia* australis el ad fonlem *Dukeschme Pta** ejusdem jugi. Kotschy loc cit N° 694 et 740a, in faucibus monlis *Elbrus* propè *Passgala* Kotschy pi Pen. bor eu N°130.

Culmi 7-13 pollicares, folia circiter sesquilineam lala, inflorescencia et spicas *C. vulgaris* Fnea a quâ bracteis brevibus fructbasque enerviis diflert *C stricta* el *C pact/lea* vagims infcnonbus reliculato-Gssis, hffic insuper bracteis siibvaginanus, ilia fructibus nervo9is, € *acuta* spicw temineis nutanlibus, mascuhs plunbus differunt.

GVPEBUS HELDREIGHIANUS Botas in Heldr pi Anal cis. *iSVJ*

G perennis radice repenle sloluniferâ, folus glaucescentibua 1K-vibus culmo acutè inqetro nudo brevionbos, antlielâ decompositâ, involucris tnpnyllis phyllis ramos superantibus, anlhele rarai* longionbu9 apicp umbellatis pedunculm uinbeliaruui raimsque brevionbus erectia inoequalibus fascicnoB braviter uvalos e 5-10 spiculis seBSilibus conatantea gerentibua, apiculia hnean-oblongis oblusls basi Bubatteouulia 6-8 dons, gluinis ovalis oblusiasimw dorao valdè atnalis inargine latè scanosls, nukulâ obloag^ acutiusculè Inqu'elrà, sldgmatibus tibus.

Hab ad aquas ealidas *CWCUB* in faucibus Tourf propè *TcMft&ckan* ubi amiciss. de Heldreich One Sepleuibrls Crucliferum legit

Folia 1-11}9 hneas lala semlpedalia Culmi 1-1 *Ifi* pedalca. Longiorex ex ramis anlbelie 3-4 pollicares Spicula) 91;3 lineas longis ferè lineaoi lats quâ nolâ egregiè diflert a *C longo* affim qui liabet spiculas angustè lmeares elongalas mullifloras acutaa, glumas minùs obtusas angusliùs scanosas.

GVPEBUS PEHSICUS BOISS. et Hohenack In Kotschly pi Pers. austr **1848,**

C glaber glaucescons radice repenti ramosâ, culmis humilibns icniibiis terclibns basi vaginio laeris foliorum e/narcidoruin vestibns

baai brevifoliosis, Cois angustic hincaribus picalis obliquisculi> rfgidis patenlibus suspè curvatis culmo brevionbus ranis eum exce- donlibus basi in vaginas sinas fusciscentes angustè albo-membra- naccas dilatatis, capitulo terminali globoso e spiculis numerosis ses- sibus dislichis 0-13 Dons ovalo-oblongis ronslanti, involucri 9-5 phylli phyllis foliis similibus reclis Tel subpalulis valdè inaequalibus minon capilulum saepè non eiccedenti majon eo 3-4plo longior, flo- nbus dislichè imbricatis omnibus fertilibus, glumis palhdè s'ramineo oblongis cannalis 10-19 nervis rubellis percureis apice brevissimè mucronatis, stigmalibus Inbus.

Ilab in insulis *Karrak* el *Kargo* sinus *Pentei* ubi colliculos are- nosos densè tegit el quoque in arenosis montibus Kotschy loc cit. N° B el 91

Culmi 3-4pollicares, capitula magnitudinis avellana). AfGnis ScAa>* *no mucronato* L. qui quoque meo sensu generem *Cypero* adnumeran- dus est ah eo differit culmis folisque lenulnibus, involucri phyllis brevionibus, capillis minonibus, spiculis evidentiùs distichis, glumis s'ramificis nee rubro-fuscis magis abbrevialis el aensim nee abruptiusculè in iddronem breviorè abeunibus

GRAMINEAE

ALOPECURUS TEXTILIS Boiss. in Kotschy pi Pers. bor 1846 (Sect. *Colobachne*)

A perennis rhizomalibus obliquis abbreviatis floras radicales cras- sas edentibus, collo vagina foliorum radicalium membranaco-di- latalis tenens pallidè rufescentibus subpellucidis parè et breviter hirtulis slipalo, foliis glauco-virentibus abpressiuscule et parè hir- sutis erectis angustè imbricatis canaliculato-picalis radicalibus et m- fenonibus flexuosis culmum aquantibus, superiorum vaginà elongate inflatà mucronatè glabrusculà limbo brevissimo, ligulà minimà trun- catà ciliatà, paniculà spiciformi densà oblongo-cylindricà obtusà, ra- mis paniculis 4-5 spicalas gorentibus, glumis Innervis oblongo-lan- guibus acuminatis subsqualibus longè lursutis, ad quartam partem

usquè inter se connatis, glumellis duabus e&lenori gluims paul6 breviori tnnervi apicc truncalo-sublridenlâlâ ciliarâ csterùm glabrâ supenon uninervi linear aculâ brevion anguslionque, aristâ ad basin glmclmB exterions sflâ gemculalâ spiculi dupl6 longion.

Hab, in glareosis vulcamcis jngi *B&nnitechal* monlis *Demawend* alt. 9000 Kotschy loc. dt N° 3S1

Culmusfoliaque infenora pedalia, spica inagnll *A pratensis* 10-19 lin. longa. Ab *A paginate* foliis lalionbus mullbque longionbus, collo robustiori, vagims minùs inflalis, spicâ non braviter ovafft, gluiniis longius acuminatis, glumelli apice longè penlcillatâ nee hirtulâ etc. diveraoa *A Gerardi* longiùs distal

ALOPECURUS CASSIUS BOISS (Sect *Cotobachne*)

A. perenms glaber radlce perenm eulmis csspitosi basi vli fibroso-vagnatis, foliis plams angustè linearibus glaacescenlibuBinargine scabris fnfanonbus expands caulinis paucis vagnft elongalâ subdilataU, limbo bran, JigulA orafal denticulafa, pamculd spicajformi terminali oblongâ, ramis paiuculse ft-B floris, glumis oblongb-lanceolaùs aqaalibus basi connalis undiqu6 densè iirsutis apice divergenlibus in aristam brevem attenuatis, flosculo glamis parùm brevion, paleâ superior! glabrâ Innervi apice obliquè Iruncatâ obsoletè (ndenlâlâ snperiort brevion angustè lanceolalâ umnervi, aristâ ad tertiam partem infenorem dorsi pales infenons insertâ incurvâ flosculo dopl6 longion spiculam superanti.

Hab. in oeglone alpinft monlis *Cauii*. Legi Junio 1846

Affidig *A. vaginato* qui dlffert vanims omnium foliorum culmeo- rnm valdè inflatis, radlcallbus setaceo-hnearlbua, spicis majoribus OTato-rotandia, glamis denslùs et longias hirBulis, flosculo apice hirtulo. *A Gerardi* arlstto inclusis etc longius dislat

ALOPECURUS Auchsai Boiss in Kotschy pi. Pers. bor. 18&B (Sect *EualopecuruB*)

A. perennis rhisomatefibroso slolones repentes longiusculos edenli, collo vagiDia in fibras solatia stipalo, foliis plants vlnidibus glabris radlcalibus abbreviatis ferè enpansls, superiorum vaginâ elongaU subinflalA sriatâ limbo brevi, ligulA brevi tnincatA glabrâ, paniculâ

spiciformu ovato-oblonga rarais 5-8 flons, glumis oblongo-lanceolalis sulHequabbus camia prscrlim lursulis in amlilam cis quadruple breviorcm altcnualis basi breviter connabs, glumeNa umca glumis tertia parte lirevion apicc eroso-lruncala glabra basi nnsa gemculata spicula duplo longion obsila

flab in monle *Elbrus* \ucher N" 8ft87, ad nives deliquescentes cjualem jugi siipri pagurn *Asadbar* Kolbdi loc cil N°464

Pcdalis vel allior, spicac 8-9 lin longs. Habitus *A. Gerardi* a quo prjiler gluincllic supcrions defecuin diilerl VJIVIS longiAa aristulalis, corolla; arista mullo longion *A. vaginatus* folus infenonbus angulissimis etc longiAs dislal

ALOPELUBUS AMTIKANTIDKS Boiss (Seel *Eualopecurui*)

A. annuus glaber, radice (ibrosa, culmis tenuibus erectis ascendilibuave, vagmis snalis suprema praeserlim elongala inflala, limbo lanceolate acummalo ngidno, ligula lruncala luhuloso-convoluta, sputa ternunali ovato-oblonga subdisliclia, glumis oblongo-lanceolalis acutis coinpressis cannalo-subalalis alhidia viridi-linnervhs canoa liirlu-scabndis pratcrea basi margimbus et canna cilialu squilongis aupunon angulsion, glumella umca gluraam squanh ad 9)3 usqud iilnculifoimi lanceolata acuU Lrnervi glalira basi anslagcmculala spicula subriplò longion aucla

Hab in monte *Cansio* Syriae borealis

Habitus oninin6i apicaruin et spicularum magmludo *Anlhoxanthi uristuli* Doiss Voy Esp. = *A. Varreniani* Parlat sed spiculee uniflorse, glumella flolilaria ulricuUformis *Alopecuri*. Ab omnibus liujiis generis speciebus spica subdisdcha spiculisque magnis dislinclissima, juxta *A. utriculalum* collocanda

PILEUM tiHALUH Doiss et Ieldr. in pi. Groeffl 1848.

Mi annum glabrum radice (ibros4, culmis e collo plunbus eroc-tis foliosis supernè rubellis, folus vindibus lajviuscuhs, inferioribus angul6 Imcaribus sub anthesi jam exsiccalis flexuosis auperiorum vagina elongala subdilalala limbo lanceoialo vagmA mullb brevion, li-; " .hlonga lruncala mibglabra culinum involveiili, spicae folio suprcino remolituHCula qlindnra d<nsa, npiculu compressis, glumis

lanci'oladit carmalo-plicabs superne niodicè divergenti-incurvi* in
anslain brevem acununatis dorao vindibus canná a medio sursùm
looge cilialo-peclinaliB uiargine late menibranceu et superne bre-
viùs Lcnuùsque sub lenle lurtuhs, flosculo glumia seituplò minon
oculo nudo VII perspicuo glabemuio, paleà mferiori ovalà apice
iruncaU crosuli quinquenervi sapenorem mulla angusliorcm ob-
lusain involvenli, rudiinenlo flosculi secundi millo

Hab. in campis slenlibus propè ^tAenas Heldr Apr. 1848.

Gulmi 10-14 pollicares, spica 11ji-3 poll, longa diametro 5 dja-
Im lala, gluma: sesquilincam aul pauló amplùs longs. Species pul-
chella affinis PA *arenario* quod prater rudimenluin Ooscul supeno-
ns differl culnns Immilibus, spicis abbreviate, glumis inlrareüin nee
exlroreüm curvalis elc Habitus PA *Bahmeri* celens aegleclia ra-
dice perenn diversissirai.

Qbs. 1. *Crypxis pygmea* Jaub. etSpach. Illustr pi. Orient tab 307
esl *Rhizocephalua Orientalis* Uoisa Diagn K.

Obs. II. *Pappophorum Aucheri* Jaub et Spachi Illuslr. pi Onenl.
lab. 333 est *Enneapogon Persian** Boiss. Diagn. 7.

PINÆSKTUM TIBBRIADIS BOISS.

P pereane caspiloaum, radicw fibns rubustu duns, culuiialro-
buslis simplicibua erectis vel ascendenlibus elalis basi vaginalis fo-
liosis supernè sub spicà striatis acabris, fohis glauco-virentibus duns
rigidis anguslè linearibus acabris aiccis canaliculatis, vagimsnon in-
flatis ore ciliatis, ligulà ad cilia reducta, spicis lerminalibus longis
crassu densus albidis vel rubellis cyhndncis, spicuhs in involucre so-
lilarlls, mvolucn subslipitati setis rubellis flosculo dupld longionbua
infernè plumosiB inlimá alus duplò longion crassiorique, gluuiu ob-
loiiigis byalinu albis glabns mferiori sublriplò majon trinervi acu-
miata> superior! uninervi acula, Qosculo oetro nullovel ejusloco
squamult flnean, Oosculi liernaplirodili glumellis vix conacels vi-
rescenlibuB sqmlongis glumam majorem aubsuperanlibus oblongis
acummatuB infenori H nervi superiozem trinerviain involventi, stig-
mabbus plumosis rufescendbQs longe eiserbs.

Hab. in rupestnbus calidis *Galilem*, in rnpibus propè *Tiberiadem*,
prope *Khan Bmseln* ad lillora lacus *Genesarelh* et ad *Banias*,
Legi iicuiile Maw

Gulnii I 1]9-9 pedalc9, spica B-6 pollicans, involucri sella major pollicem longa Pulberma species a *P. Orientali* Rich (cui *P. fasciculatum* et *P. Sinaicum* ul synonyma adnumeranda sunt,) *P. rufescenti* ctalus spicis longissimis densis longissimè selosis distinctissuna, propius accedens ad *P. tetractachyum* Abyssinicum quod folns setaceo-convolutis, spicâ minus densa, spiculis geoinalis etc egregie distinctur

ANTEPHORA PERSICA BOISS

A perennis radice culmus simplicibus basi ascendentibus subgemulatis dein erectis internè foliosis superae lungè denudatis (Idem, vaginis palule hispidis limbo lineari plicato subconato levi laucescenti, spica terminali cylindrica elongata, an valde flexuosa persistens ad fasciculos spicularum tuberculis pilosis obsita, spiculis filiformibus 6-7 basi connatis circa spiculam centralem glumâ destituti concentricè dispositis fasciculos spicuiformes ovatos secus rachidem dense imbricatim sessiles articulatos deciduos formantibus, glumæ exteriori conatâ albidâ lanceolata breviter acuminata planâ multinervi pingenti dorso breviter lurida basi angustata ad peripheriam fasciculi silâ, supernè internè multò angustiori breviorque hyalina e basi angustissima unicolata subulata hirsuta, spiculis glumi eitenon brevioribus eique adpressis hyalino-membranaceis eitenon unipalata oblata obtusiuscula B nervi superne margine longè pectinata-ciliata spiculam interiorem azquilongam e paleis glabris oblongo lanceolatis acutiusculis sequilongis subnervis constantem amplectenti

Hab. in *Persia australi* loco et numero non notatis (Aucher)

Culmus in specimine meobipedalis, spica ferè Inpollicans dianthero S 1]9 lineas longa, glume spicularum inaequales oiajores ferè 4 lineas longas. Species nova generis *Hypodmire* a d. Hochst. in pi. Schimp Abyssin Sect I N° 71. proposita sed quod ipse auctor postea in Bot Keil. ad *Antephoram* jure reduxit

TRAGUS BRKVICALIS BOISS

Tr. annuus caulibus brevibus gemulatis ascendentibus, (olnsglaucis, vaginis glabris supernibus dilatatis, limbo lineari-lanceolato

marginibus ciliis rigidis brevibus distantibus declinato, ligula ad scium pilonim reducta, spicis e folio supremo vix insertis cylindricis laeviusculis, spiculis in pedunculo brevissimo gemmu erectis, glumibus sopenoris aculeis ad unumquemque nervum B-6 basi distantibus rectiusculis elongato-panicis parte inferiori flavidis superiori hyalinis.

Hab. in aridis Jorrb *australis* Aucher N° 8W2, *Arabia felix* Ueto Schimper N° 799, ragni *Kordofani* Kotchy N° 57.

Ab alio *Tr. racemoso* mihi sat differre videtur caulibus abbreriatis, glaucescentia, foliis validius et brevius ovatis, in primis aculeis glumarum paucioribus basi nam confluentibus nec apice oncinalis *Tr. occidentalis* spiculis minoribus alusque notis longius differre!

MIUM TRICHOPODUM BOISS

Herbium annuum glabrum glaucescens, radice fibrosa, caulis naivis, paniculae ferè radicalis foliis squariformibus eorumque vaginis basi involuta ambili ovatis divaricatis effusissimis, vaginis linearibus subulatis, ligula truncata glabra, limbo erecto angustilanceolato-linearibus, paniculae pedicellulis setaceis rigidis divergentibus laevibus spiculis 5-6 longioribus apice incrassatis, spiculis oblongis attenuatis, glumis oblongis acatis lumbis, glumellis glumis longis sub lente adpressissimis et pice puberulis.

Hab. in palude sicca spongiosa herbidum *Jubant* inter *Ruehgya* et *Damascus*, legi quoque in Antilibano supra *Zebdanf.* in *Mesopotamia* inter *Orfa* et *Suefc* Kolby N° 1.

Plantula bipollicaris caules 1-8 et radice edens, spiculis eis *M. vernalis* paulo minores et proserit magis elongate, *M. vernalis* H. B. differt praeterea caule linearibus, glumis scabris glumellis laevibus glabras manifeste superantibus.

STIP* DAHAMUA Boiss.

Species perennis caespitosa glauca foliis radicalibus convolulo-filiformibus brevibus rigidis patulo-recurvis undique retroeum puberulis, caulibus glabris limbo brevi tenui, culmis erectis mediocribus, paniculae contractae foliis flumibus involuta ramis soletis vel geminatis in paniculis longis glauco-subulatis subinsequalibus glumibus

mella ad 4/3 usque undique adpressè pilosulà plus duplù longioribus
•irisli tatlucA inferiic (urliti pilosà superne pñimosA t-B pollican

Hab HI collihiis aridissinns pon& iirbcm *Damtiseum* silis ubi legi
ineunlu Maio 1846

Folia sesqmpollicaria recurva, culiui semipedales, gluina inferior
U-1S linuas flosculus ti-0 lin lunuus Si *Arahica* cui affints differl
Talus (Idling duplù longioribus lenuionbusque reclis, gluniu sub-
auqualihus bt *Khrenbergiuna* babel sUlurau elalam ci arlaslas
elongatas S(pennato

AGROSTIS SINAILA UOISH

A [lerennis glabra gtaucescens, collo subnodoso, culnio erecto
simplici uldlo, fuliis ngidulis erectis lincanbus selaceo-acuminatia
siccitalc cunvolulis uiulfolnalis, liguli ublungi'breui Iruncalà, pani-
culà cruclà contracU oblongo-lincan albidà ramulis pedieellisque
strictis abbreviatis scabridis,gl]uuiis squalibus acutiUBCulis niucro-
nularis undiquu sed ad cannam lungius scabndis flosculo mulico
sosqmlongionbus, glumellis glabna exteriori oblongA aciitiuscutt fn-
terion paul6 brevion sublruncatà.

Hab. ad aquas jugi *Sinaitict* Bovè, pi. <ULS et in Decaisne Flor.
Sin N° 44 sub *A maritima*.

Culmi bipedales, pamcula Iripollicans aigusta, babilus *A. StoUmi-
ferw* a quâ gluinis undiqui nee cannA taatim scabru, glumelld
infnton aculi nec Iruncatà slabm dignoscilur *A. stolonifera* qua;
glumas quoque lurtulas babel differ! radice annnà, culmis decunibeD-
tibus, liguli Ombnañ, folus plants non rigidis etc. *A. Sehimperiana*
Hochsl, planla Abyssimca cui *A. Stmensis* cjusdem regionis ut ra-
netas arulala adjungenda eat et quo quoque glumls birlu gaadet
duTclr giuemellà calyce vn brevion, folua teneris planis etc.

AUROSIS DVZANTINA BoiSS

A. annua ? glabra, radice fibrosi subprasmorsft, culoiia ascenden-
Ubus dein erectis folioais, foliis brevibus vagims stnahs limbo a basi
angUBlè linean-lanceolatA subulato mullinervi supenrà et marginibus
sumo, bgulà brevi ovato-ftubtruncat&f paniculà ereclfi valde COD-
traclà anguate linean-elongatà virenti ramis 9-3 verlicflialis capillan-

bus sriclissiiis scabm, pedicellis iuabridis apice incrassato spwula parùm longioribus, glumis lanccolalis aculis xqualibus subcannahs dorso virescnlibiis obscurèque unincrvus esclerūni uyahnis carine apice scabnusculis coeterū Igevibus, flosculo glabernmo mulico, paleà infcnori gluwft aallcin Ierlià parle minon basi rirenli CRlerūm hyalmâ apice oblusâ minulissimè denticulaUi, Bupenon hyalmâ plus dimidii minon apice oblusd bidenlaliL

Hab propè *Byzantium* Nod 1844 sub N° 2JB.

Planla pedalls, pamcula S-4 pollicans angUftLisfima, spicnls magmtudinis earum A. canfnite a quA celcns ueglechs pauculaA contraction, Qosculis mulicu bipaleaceis differ!. Propiūs affims A. *CasteUama* Boua et Rcut quo; eadeiu ac A *efftoa* Sprang (nomen omnino improprnum) esae videtur et qus quoque pamculft conlraclid inaignis longè differt gluinu majonbUB aculionbus, floaculfs basi hinulis etc.

SPOHOBOLUS AHABIGW Boiss

S. peremiffiCBsplosusglauciK, collo increaualu, folns radicaibus congcslis ngldw convolulis breTissimis pungenlibua Bed apice sub lentli obUiBH, caulmiB paucigiinis limbo brevissiiuu, ssne pporuin breuiuo ligule locum tenenli, culioo lenm ercclo basi Bubgeiculalo, paniculi oblongo-pyramidalA breui, ram» pedicellisque breuibus, epiculis minlmis leevibus glabris, gluinis oblongls obtusiusculis infenon plūBdimidio brevion, glumellis aequilongisgluoiaiu inlerioreiu subsuperaDtibuB exterior! Bublrucata.

Hab. in aridls *Arabia* propè *Mascate* Aucler N° WJ8.

CulmuB In meo specimine 7-8 pollicarls, folia radicalia pollicana, pahlenla aesquipollicem longa, spicnjjc illifl formarum niinorum A *vulgaris* miaores, *fyorobolo* pdiiuB quam *AgToslidi* ob glume et glumellae proportionem adjungenda eat; inter Sporobotos lauOoros propè S. <eiuum et juncewn collocanda

CaUmagroatit rubella Boiss. in Kotschy pi. Pers bor. 1846 N° HI7 ei monte Elbrus a C *Penicd* Doiss. Diagn 7. specified non differt

THISSETUM NOBAMJM BOISS

T annum pumiluin, folus patute vel relrorsum hirlis, ligulft brevi (runcati denticulate pamculft e folio supremo brevisioic exsertt breviler orato-oblonga lobata, spiculis conferlis breviler pedicellalis mtidis roinulis, glumis aureo rubeltoque vanegatis aequalibus oblongis acutia subulalo-acuminatis canna vix scabridulis ctBterum UBTI-bus glabns, flosculis binis gluma paulo brevionbu9 auque glabns, palea inferiori paulb supr d medium dorauiu anstalâ aupernft bjalina bidentalâ denlibuB Inangulanbus breviler selaceo-mucronalis, anali Ueniculata baai subtorlili glumis dupl6 longion, palea superior! vii brevion bldenlatt

Hab. propè *Byzantium* Noè 1844 sub N° 116.

Specunina mca 5-ftpollicana, pamcula 9-10 lin. longa, splcals inagniUiduus carum IV *condensati* pamcula! forma et charactenbua noslrai speciei affims sed quod differl gluinis non vanegatis superior brevion dimidiòque anguAion, paleis vald6 uiaequahbus etc.

TUSBIUH HACROCHATUH DOIBS

Tr. annum pumilom, folus linean-selaceis glabna Tel brerfssunè cfiatolis vagmis glabris, ligulâ brerissimâ IroncaU denticulata, pamculâ breviter oblongâ panrâ ereclâ pedicellis scabridis, splculis parvis billons mtidis, glumis lanceolalis acummatis canna scabridolis supenori paulb brevion dimidiòque angustiori, axi adpressè et brevissimèhinulâ, flosculis glabns, palea inferiori glumis snbdimidto brevion aplce in S solas ei eequilongas glumas apice suboequantas abeunli suprâ mediam dorsum aristâ geniculata basl tortili glumis subdupl6 longiori obsil&,*pale4 superior quadrupl6 bipvlon vix perspicua, pedicello mimmo piloso ad basin dojusque flosculi Bitò.

Hab. in *Palmtintk* unqè duo specimina lantiim planlis circa *HUrosolyman* leclis commixta retuli.

Stalura habitus et paicos longè getosae *Tr Lcsflingiani&i Valuta-ei* a qmbua pamculi minus densA gpiculisque minonbug differt; prius msuper recedil floseulis hirluhs, postenus pilis axeos flosculos ferè eauantibus.

TRISBFUH GLUXACEUV BOISS

Tr annuum puniiliini, Tulns lincari-selaccis Iceris fleauosw vaginisqne relrorsum lurbs, ligula brevi Iruncalá fimhnaU Inrfa. pamculá IMSI taginft subdilalalá (ulu snprcim liivoIucrjIA oblongo-spicionm dcnsâ, glumis flavidia nibdis lanceolabs acutu squahbus supernè ad carinain sobscabridis caslerùm glabns levibua, am brevisiui& pilosâ, pale& exlenon* glabrâ gin mâ dimidi6 breiioe selia 3 recite ei aubaequilongis terminatâ sub inediu dorso ansift gemculalâ basi torlili e gluinis breviler eiserIA obsilâ, paleA superfore angustd lineari selaceft paul6 breviori, pediceliô birsulo ad basin supenorem uninscijusqud flosculi silo.

Hab. in *ArabiA pelred* Paleelnue coiiUirminâ ubi legi Apr meunle.

Planta 4-6 polhcans culnus plunbu9ascundcnlibus, pamculâ sesqiiiipollieem longâ Spiculae nilida; TV *eondensali* sed m.ijores, ab co ut el a Tr *neylecto* palpis longè setosis axiqoe InrU prn<creft diBcedens; a specie precedenti cm pedicelio piloso ad basin flosculorum accedlt gluinu aigualibus lationbus, paled supenon majori spicAque densâ dishnclum

TRISBTUH LMEARV BOISS

Tr annum glabrum vel loinoiilelluni culims slriclis, vaginâ brevissimfl truncate ciliolali, foliis e basi linean setaceis slnctis, pamculd spicata lineari elongalA dens& apiculia 1 vel 1 Qons cum pedicelio piloBO brevissimo florem superiorem referenli, glumis angustis9imè subulato-lanceolatis longiB aequalibua carinft scabridulw caeterùm glabris, axi glabrâ, paleft mfenore Imeari-subulatâ in 2 selas eft multo longtorea glntmok longè soperantes abeunta paulò sub aplce aristâ sobgeniculati basi torlili aelas superanli aucU, palei aapenori subnquilongâ lineari-setaceâ apice bidentatâ.

Trtsetaria linearis Forsk Delile Eg. pi ^ 19 fig. 5 — *TrUetum arenarium* Labill Ic. Pl. Syr Die. 10 tab 7 - *Trisetum trisrtaria* H etScb.

Hab. in *Mgpto* (Del), *Arabid. petraA* (Bobs) *Syrid* (Labill.)

O AinlbüB nods genen *Trlseto* adnumerandum nomenque specifl-cum Forekahlei antiquius aplissnumqie omni jnw servandmu

Plmlaram orlenlallum nonrum No i*

AIMITA (AHHI.M HOISS)

A perennis, radice , culmu *credo* glabru, folns plants anguslè lincanbus flexuosis ulnnqne scabns infenorum vagims relrorsum hispidis supenorum glabns, liguU brevissimft fiuibrialft, paiculâ contractâ spicifonni simpliu creclâ, spiculis gemmatim disposilis pedicellis striclis crassis stnalis allcro subnullo allcro spiculâ Inpl6 brevion siifTillis stilinflons, glumis lancuolalo-Uncanbus breviter acumfnalia ngidia argulè infcuon 3 supenon lougiori B nervi, auglaberrimâ in arculos cum flosculis facillimè ruplili, floscalis glaberrimis, paleft inferiori lanccolalo-Incan conaccâ viridi 7 nervi ad nervos Bubscabridâ apice albo-incmbranaccâ breviter et acut6 bidenlaUk dorso supcrnè ad quidrtam longitudiois partem arisl& basi torlilt rectft paleft paol6 longion aucU , palcâ supenon paulb breviorl membrapacpfl linean oblusâ supernû niargine remolè cilialA

Hab in monle *Carmelo* ubi lcgì Haiò ineiintc 1B46

Sesquipedahs, folia cauhna *h-H* hn. longa sesquilineam lala, spica circ tripollicans, palea infenor circ 8 lin longa lines 3H lata 8pe*cics habitu *Av bromoidem* rclerens ci affims sed ab e4 aii glabrft fragilhuiA, spiculis 9-3 nee 7-9 dons, pedicltis spiculorum crassis brevibus dislinclissima; hie ultima nota *Av macrce* Steven accedil qua; foliorum limbo brevi convolute, radice ut videtur annu&, spiculis mulliflons etc differ! Habitus quoque *Gaudinim* a qu4 spiculis geminatis non sessilibus longiis differ*

AVERA A0ROPYR01DBS BoiSS

A annua t glabra glaucescens radice fibrosa, culmu erectiSj vaginu stnatis lffTIDMnia limbo ngidulo palulo anguslè linean margine scabridulo, liguli elongate aculft glabrft, spiculis brerissimè pedieelatis solitants asi slnchssimis sabtrifloris panlcuiam spicefonnein tngaslis9imam laxam formantibus, glumis tenens lanceolalis trfoer-vius supernè hyalims acuminatia insqualibus superlorl floaculoa sequanti, axi glabrA callo ad basin flosculorum brevissimè pjlow, paleft inferior ad medium usquè adpressè et brevissimè serlceft aoperne glabrft byalinft apice brevissimè bidenlalft suprft medium anstt gemcnlatâ basi lorlâ est paulb longion aocftt.

Hab in *Argolide* undè misil aimcisa Spruncr

Culmi i-1 i;9 pedales, spicae 5-4 pollicares, spiculis inferiores suâ longitudine invicem distantes ferè 7 lineas longas Species ab A. profeittf et hf bromofdi quibus affinis foliorum limbo rigido patulo, linguâ elongatis, spicula atnctis solilanis dissilis apicem angustam formantibus, paleis inferne luteis divinis

AURHEHATHEBUM PALABTINUM BOISS

A radice fibrosa ad collura lubera globosa rapenmpoBita ferenb, •ollu giabris ImeanbuB plams, lignâ breviter ovalâ lacerâ, calmis ereclis, panicula elongata compositâ angustâ pyramidalâ ramis elongatis flosculis natis, glumis stramineis glabris dorso scabris inferiori breviter angustioribus, flosculis binis basi hirsutis inferiori sessili paulo supra basin aristâ inferne torlili eu S 1]9 paulo longioribus aucto basi marginibus ciliatis, superioribus pedicellatis infra apicem aristâ brevi rectâ instructo loco ad insertionem osque adpressè et longè hirsute.

Hab. in *PahBStinA* loco non notato. Boiss. 1847.

Planta 9-3 pedalis, panicula 7-9 pollicans ramis inferioribus saepe bipollicanibus. Ab A. *bulboso* flosculis sopenon longè hirsuto facile distinguendum.*Ab A. *eriantho* B. et R quod eodem charactere potest ut videtur specificè distinguatur paniculae ample compositae ramis elongatis inferioribus subnatis

AMMOGHLOA

Spiculae 11-13 flora compressas dense distichas plures ad culmorum apicem in capitula basi glumis involucreta congestas. Glume glabrae flosculis brevioribus ovato-oblongis subinaequalibus acute valde inaequaliter carinatae plicatae canaliculatae late alatae uniuersis marginibus et carinâ membranaceis ad medium subconnatis, flosculis a basi longioribus atque acutiusculis vel lanceolatis Palea inferior ovato-oblonga coriacea quinque nervis concavo-convexa dorso teras inter nervos salicula apice in cuspidem subpungentem atque marginem membranâ hyalina sub cuspidem superne abruptè desinenti marginali, palea superior hyalina paulo brevior niultoque angustior linearis lanceolata

binervis ad nervos carinato-subplicalia ciliatula apice truncate Ovaria in oratione glabra Stylis 9 apicales in stigmata elongata denticulato-pilosa sub apice flosculi egredientia allenuali Antherae hinc basi bifidae. — Gramma annua facie *EcMnariam* vel *Oreochloa* referentia, aremcola. Hoc genus forma glumarum valde inaequaliter phcatarum et quarum canna late alata pro margine ipso angusto subtus occulato absque inspectione accuratam habere posset *Sesleria* adnumerandum est *Sesleria* ab eo proslere differt inflorescentia et habitu diversissimus, spiculis non distichis, flosculis non acutis, palea inferior non conata nee truncato-plumbea *Oreochloa* Link spiculis distichis quoque donata flosculis carinato-compressis habitu glumaeque diversissimis differt *Dactylis* tandem cum priore speciem botanici plures adnumeraverant ostens neglegentis similibus e basi flosculi egredientibus longissime distat.

AMCOCHLOA Poir. & N. Cras. Itoiss

A glabra, folia inferius anguste lineari flexuosis, culmorum limbo dilato abbreviato obliquo. ligula brevi truncata, culmis nudis folia saepe plures superantibus tenuibus, palea inferior inferne hirtula apice in mucronem subrecurvum longiusculum abeuntis marginibus sub mucrone in membranam rotundatam saepe fimbriatam manifestam abeuntibus

Dactylis pungens Schreb. Gram. 2 tab 87 fig I. Desf. all tab 16. *Setaria chinata* Urn. III. tab. 47, fig 9 (mala I)

Hab. in Barbaria (Desf. Boiss & Duneut)

AMCOCHLOA PALASTINA BOISS

A. glabra, foliorum omnium limbo elongate flexuoso anguste lineari apice attenuato, ligula brevis, culmis brevissimis in ensatis omnibus folia multo superatis, palea inferior sub lente scabridula in cuspidem brevissimum rectam allenuali marginibus sub apice obsolete membranacea

Hab. in desertis *Pakistinae* australis circa *Gaza* ubi Anli in unicum specimen legi

Habitus quodammodo *Setariae Micheliani* A praecedenti optime distincta scapis sesquipollicanibus subincrassatis intus vacuis, flosculis (M) magis attenuatis in mucronem brevissimum a flosculo non distinctum nee recurvum lineam ciliatam longum abeuntibus

KAUBIA SINAICA BOWS

K annua, culmia pumilis foliosis e basi geniculatâ erectis, foliis teneris sternalia sparse et deflexe hirtis, limbo e basilatione lanceolato acuto, Hgult bran birsulâ, BpicA oblongâ laxiusculâ infernò asp& lobalâ ramosâ, gliimis flosculis paulò brevionibus lanceolatis acutis equilateris inferiori villosâ aublaliis superior! carinâ tantum ciliatâ vel glabrescenti, flosculis glaberrimis, paleâ inferior! oblongo-lanceolatâ acutâ subintegrâ superne ad quartam partem longitudinis dorso aristâ rectâ et equilateralâ auctâ, paleâ interior! nullò brevion hyalino apice Mfidâ

Hab. in regione *Sinai* Uca Aucher N° 3061.

Specimen meum tunc pollicare, spica limbum folii supremi vix operans; habitus et spicularum magis modo *K phleoidis* a qua et ab omnibus *Koeleriis* annua aristâ nullò infernò insertâ, AOBCHB glabris, etc. eximie differ!

HBUCA HICBARTHA BOISS et Hob. idem pi Kolsch. Pen. bor. 1846.

H glaucescens culmis clavis laevibus foliis glabris, vaginis rutilis squalidius retrorsum scabridius, limbo augustè lineas sabulosis glabro leviusculo supernè sub leni adpressè lomentello, ligulâ oblongâ acutiusculâ, paniculâ graciliformi angustè laevibus interruptâ, pedicellia strictius brevissimis apice subscaudatis, spiculis brevibus pallidius, glumis membranaceis ueviuaculo oblongis aculo superne quartâ parte longioribus augustioribus flosculis superanibus, paleâ inferiori flosculi hennaphroditè oblongo-lanceolatâ oblongiusculâ margine pilis flavidibus ejus diametro longioribus densè ciliatâ dorso scabridulâ interiori pauli breviori glabrâ, floaculis neuralibus bimis corpusculum pedicellatum luteo-truncatum flosculo ferili breviter formantibus

Bab. in faucibus montis *Elbrus* propè *Derbend* Kotsch. N° *10.

Culmi 9-10 pedales, spica 9-3 pollices longa flosculis lineas lata, spiculis 1 lineas tantum longa dimidiò minores et *M dUatce* qua noscitur magis affinis præter formam magnitudinem paniculamque longiorem denudatam egregie differt glumis longè acaminalis, paleis pilis albis nec flavidis spiculam longè nec breviter superanibus, flosculorum trunculorum corpusculo oblongo aculo

MELICA CHEITUA BOISS el Heldr in pi Cret ens 1847

M csspilosa, culms nanis parcè foliosis glabns laevibus folus ngi-
duhs brevibus convolulis filiformibus exlùs lsvibus Inlùs brevissime
Bub lente lurlcllis, ligulâ Iruncalâ sublacerâ glabrâ, pameulâ sprifornu
simplici oblongâ lauosculâ, pedicellis slnclis scabndulis spiculâ sub-
brevionbus, glumis membranareis flavidis rubelhsve ovato-oblongis
acuhs leviusculis inferior! paulû brevion lalionquc, paleâ Infenon
floBcoh liermaphrodili oblongo-lanccolalft acnifl margine pilis albidis
ejos diauielro longionbus spiculam suprranlibus densè ciliatâ doreo
scabndâ, superior! brevion ad inargines cilialulâ, flosculis neutris
biois corpusculum ohlongum lsve pedicello acquilongo suffullam
flosculo fertili brevius formanlibus

Hab in saxosis cacumims *Ugios Theodoras* montium *Sphacioti-*
corum alt circ. 7000' rara (Ueldreicli), in regione superior! *Libani*
supr&Gedros (Boiss)

GUIDI cum flonbus 3-4 polliccs tantum longi, spies simpliccs pol-
licem ant paul6 ampliùs longse, spiculae lin 3 *ift* circ longas Species
nana hoc caractere *M hispaniecs* Boiss Voy JIisp. accedens qos
ab est folus minus anguslis convolulisque facie supenon glabris,
spiculis majonbus, corpuscolo neutro lurbinato-pynforonii truncalo
distinguilur. Specimina Libanolica Crehcis optimd congruunt

MELICA HouENAam Boiss

H culmis ascendentibus olalis glabns foliosis, vagmis toliorum
infenorum pilis longis mollibus deflexia hispidis 1-9 supenorum gla-
bns, limbo omnium ngido Ifnean siccilate convolulo glabro scabnos-
cnlo, Iigultbreri fimbriato-lacerâ, paniculâ spiciformi composite laxâ
angusU InlerrupU, pedunculis pedlceliuque Btntctis leriaaculis, glu-
mis pallidè rubellis lanceolalis aciitu lasviusculis carinA subscabridis
floscnlos superantibns superior paul6 brevion, paleft infenon flos-
coli hermaphroditi lanceolal& acntft dorso undiqnè pills longis spicu-
lam oaquanlibus hirsute, intenon paul6 breviori linear! apice rolon-
dalâ margine scabndufâ, flosculo neutro unco longè pedicellato
angustè oblongo-linean laevissuno.

M Persica Hoben. Talusch Enutn nonKunlh — *M Persica* β *Cae-*
ptea Gnseb gram Ross

Hab. in diatnclu *Talwch* prov (ranscauuasicaruui (Hochstetler).

Planta 1 1/2-2 pedalis, spied ̄o-5 pollican angusLA spicnlis 8 *Ijt* Hn longis. Hsc esl de quā in diagnoaibus AT *invquiglumti* el brw*-
/ltwoB sermonem feci et quam ex auctontalc Botan. Roasicorum pro
M PersieA habui quain nunc icone Kunlbiana collalft diverBiasimam
comperi foliis omnibna cum limbo pnbescenli-viUosis, glumis valdē
iuequallbus, flosculu neulns plunbus iinbncatia flosculum (urbinato^
truDcalum acabridam formantibus AdhancJtf *Persicam* Klb veram
referenda eat *M Kotschy* Hochal in PI KoUch Rordiat Noatra
M Hohenackeri propē *M. Cupani* Guas collocanda est ab e& TBgims
infeioribus eximiē et deflexē hirsulis, floaculo neutro umco nee
plnribus, alusque nobis dialmcliBsima.

MEUCA PAKNOBA Doiss

H. caepitooa culmis puuilia baai geniculalia dein erectia fblioiaia ad-
preaaē velulims, foliis omnibus ad vaginas et llmbum densiaaimē et
branasioiē tomentosia argyreo-senceis, tinibo patenti piano lanceolalo
attenaato-acuminalo, ligulA oiargimforuu breviasimft, ap̄cis oblongo-
cyhndncis terminalibusdeosia. spicuba aubseasilibus, glumis mem-
branaceis stramineo-rubellis acalia glabriB inferiori oyato-oblong*
tnplft brevion supenon lanceolate, flosculi hermaphrodih pale* in-
ferion pilis atbia glumam eequandbug undique dens6 birsufft, supenon
pauld breviori aogusdon oblusA margme clialula, floaculia neutna
binfs pedicellalis lmbicatis aplce truocatia valdē acabndo-aculeatla
intennon mullō brevion

Hab. in rupibua cahdis *Anlilibani* ad *Souk Wadi Barrada*, legi
Maio 1846.

Semipedalia rel pauld longior, folionim llmbus 4-5 polllcaris, spice
aeaquipolbcares, apiculae 5 1;9 bn. longs AffinlsJT. *Pentca* Kfb.
Gram. lab. 89 qua ex icone differ! indumento mullō minna denso et
pannoso, spicilaiā, apiculis longē pedicellalu, floaculis neulns asqui-
longia. *M Kotachyi* Hochst qua probabilller eadem ac *M. Peniea*
iia dem noils llgulftque eloagatā dlstingullur *M mtita Bom'*, dem-
quē apjeis lasis, fobu anguationbus mlnna densē hirsulis, flosculo
nculro cylindnco lievi differ!

HELIGA ELIOLATA BOISS

M. caubus ascendenlibus elalis foluaque densissimè el adprcasè loinentellis subscabndis, limbo piano lancoolato ercclo-palulo longè atlenuato subulalo, ligul&prorsús nullà, pamculà spiciforuii cylmdneà subcomposilA densà pedunculis pedicellisque striclissinns hlsce spiculà mullò brevionbus, glumisinvbranaceispallidè slranuneis aculis inferiori oidtâ supenori Inpl6 longion lanccolafa, paleà inferior! flosculi liermaphrodili dorso undique pilis mveis glumam superanli bus densè hiraitâ, supenori brevion linean oblusA margine relror-sùm aliatulâ, floaculo neutro pedicellalo linean-cylindnco. ùeviusculo

Hab in m n a boreali loco non mdicato (Kotschy N* 718)

Pedalls, spica bipedalis et longtor, spiculate k lin ferè longs. Indumento el spicâ dcnâ aOims prscedenli a quâ diflert indumento minùs denso non sencco, liguiâ nullâ, flosculo neutro solilanocylmdrico etc A Jf Kotwhyi el vestitd quoque ligula; deficientiâ, spicâ denoâ, spiculis brav^ler pedicellalis disbncla.

MELICA BECIFILOHA BOISS et Heldr in pi Crel. exs. 1847.

M glabernma cnspilosa caudiculis ereclis ramosis mgncanli-rubellis, culmis ereclis foliosis, foliis plains lanceolato-hnearibus ereclis slnclis apice allenuatis prteler marginem remotè el obsoletè scabridulum lxvibus, ligulâ margniformi vix perspicuâ in dentem ovatum oppositifolium culmum amplectenlem produclâ, pamculâ in spicam ereclam anguslè lineareiu laxain contracU, pedunculis pedicellisque slnctissimis levibus bisce spiculâ brevionbus asepe aubnullis, glumis pallidè slrauuneia oblongo-lineanbu» aculiusculn vix innqoahbus flosculos asquantibus, Qosculu ferlih umco. paleà Inferior! glabrâ elliptico-linean oblumuscul& sulculoso-nervoaâ conaceâ Inlenori ellfplico-linean vel ellipticâ oblusâ subconaceâ ad 9 nervos carlnantes supernè ciholatâ, flosculo neutro longe pedicellalo ovalo-pynforiui Iruncalo flore vis brevion.

Hab ad rapes prov. Sphakiw Crelae m fauce Hagio fytmeli. FL. Apnh (Heldreicli)

PJautaS-H pollicans, íolioruni lirabiis3-4 polliceslongusbanilmeâ unâ paulò latior, spica 1-8 pullicans angustissima, spicule liltis *M unfloras* ferè dimidid uiinorcs. Huic apcei Oosculo fertili umco afliuu ab eâ differ! ligute formâ, spicalis noa longè pedicellabs, glu-IDIB anguslis etc Habitu el spiciilarum magniLudine magis affims *M virgatm* Turcz qua; &piculis multiflons alusque nobis longiùs distal.

POA ATTICA BOISS et Hldr in pi Graec. e u. 1846.

P perenms glabra radice repenti, culmis basi compressis genclenlatls dein ereclis terelibus kbVibua, folns planis hnean-lanceolatis la>vibus, vaginis omnibus glabns supreims limbo longionbus, ligalw omnibus truncatis brevissimis margiDifonnibus, pamculâ ereclâ oblongâ ramis ereclis slnctiusculis scabns infenonbus terms valdè ioaequalibus, spicolis 4K floris ovalis vireolibua rubello vanegatls, flošcolis basi el ad carinam infernè lanâ parcâ. proltraheadâ obsitis caUerdm ad margined et B ueros prominulos glaberrimis lenle punctulalu acuhs aiiguslé supernè albo-marginatis.

Hab. in olivelo *Mhenarum* ubi cl Hldr. legil Gne Apnlis.

Culmus arc bipedalis, folia mfernè circ S hneasata, panicula ferè 3 pollices longa Habitu el spicularum uiagmludine aftinis *P. pratensi* que differt ligulâ longion, culniis basi non compressis, paniculs ramis plunbus magis palulis, flosculis obtusiusculis ad dorsum et marginem densè pultescenlibus Accedens prope ad *Poam compressaam* quie culmo ngido lotâ longitudine compresso, folna abbreviate, paniculas rauils brevusiuns, flosculis obtuais obsoletè nervosia ad inargmes puberulis longuis differt.

PQA psvcaopuLA Boiss. et Hldr. in pi. Anat. e u. 1846.

P. perennla glabra pallidd virens, radice Btolones numerosos saspd elongaloB edenh, foliu inferioribaB ngidalis erecto-palulis ncdtale margiue aobconvoiulis lanceolalisacuminalis caulinorum superlorum vaginft limbo Qiuuld longion, ligulâ brevissimâ rotundatâ, pamculâ valdè contractâ oblongo-lmean pedunculis scabndls slricliB inferionbus geminis, spiculis virenli-rubcllis sublrriions ovalis, glnmls lanceolate aculls supenori carinâ scabnda, flosculis obsoletè nervosis dorso margincque densè pubescentibus basi parcc lan» brevi coimcxis

Hab inter Idpiths dudduos regionis sujH'riori9 nionlis *Stavroa* IMsidue et *Anemas* Lycaomtc alt 6000'-8000', in regione alpini *Olympi Blthynl* (Boiss)

Species *P. centaf*® valde et forsan nimis affims ab eo tamen differre videlur glafucesceuti, foliis angusdoribus, ligulâ abbreviate, inpnons pamcutik valdd contract! nee palcnte angustik, spiculis minoribus, flosculis land paucion connexis \u vanetasonenldlis *P. cenfcfaef*

Obs *Poa Pamphylica* Boiss et Heldr in pi. Anat eu 1846 ultenûs collala non sails differt a *P. Persica* Tnn specie in tolo Onente a Caucaao ad Persiam australein Synam et Analoliam vulgarissiius et quaj slaturi liumtimft vel elati, pamculâ plus mmusve palenli, Bplculis plus minûs elongalis, palc» acutis vel erosulo-lruncatis variat et ad quam *P. subtilis* Kar et Kir e Songanft oriundâ quoque referenda ?idetur. Hsec *Poa Penica m* genere *Poâ* habitu et quibudam nolis anomjla csl, ab *EragroHtide* cui facie convenit ande articulatim secednti discedit, forsan meliûs genen meo *Nephelochloa* a quo arista? deficnliâ tantum differt asaocianda et *N. Persica* dicenda

NB His jam anno 1848 consenptis video cl Gnsebach in Gram Rossicu *Poam Persicam* quoque sub *If Pentiea* anno 18M descripsisse.

FESTUCA CYLLBNICA BOISS et Heldr in pi. Groec eis 1849

F. perennis glabernma dense caespilosa, radice fibrosft, foliis radicalibus densè congcslis anguslè linearibus aecûs paginam superiorem scabram phcalis lenuiler tylandncis leribus ngidis erecto-subarcualis aculis aubpungentibus coespites lubncos formantibua, caulinis paucis brenbus minûs ngidis convolutis, ligulft ovali bievi, culmis tenuibus ereclis, panictilâ erectft conlraclft breft e spiculis paucis strictis constanti, spicularum pedicellis sohtams vel binis setaceis seabndis spiculâ plerumquè brevionbns, spiculis subtrifloris atramneb, glumis lulescentibus oblongis obtusia inferior breviorE angustion uninervi supenon obsoletè Innem flosculis tertiâ parte breviori, axi glabrâ in articulos facile secednti, flosculisglabcrnmis Isvibus linearibus teretibus ,#palc4 infcnnon marglmbus convolute subcnervi apiw inumbranaceo-marginatft in anslulam bruvissimaoi

atlenualâ, intenon subbreuion aculiusculâ ad 9 nervos cannales BII-
pernft aab lenld hirlellâ

Hab. in saiosis regioma alpinae montia *Kyllenes* Peloponnesi alt
WOOOWOQ (Heldreich)

Folia radica 1; J-1 pedalia illis *F. varim* ferè tenulora, culmi ses-
quipedales, panicula polhcans e spiculia 6-10 constant, floacali vlx
41|2 IID longi. Species dislincla *F dimorpJuB* Guas. inter omnes
magls affiniâ, hoc a nosrà. differt folua plams, paniculâ magis
mulliflorâ, glumis latè membranaceis, floscula evidenter nervahaelc
Ulraqoe a grege *F. parto* spiculis pauciflons, flosculiB teretibus vel
dorso aobcomprcsais nee lateraliter comprcaslsegrege differuntethac
notâ ad genus *Triodtam* glomis floras superanhbnsflosculisqueapioe
Iridentatis cxlenim diversum aecedunt

FBSIUCA SCLEBOPUYLLA BOIBS et Hob in KolSch pi. Pen. bor
1846.

F. perenma glabra glauceseena radice fibros& culmos crassos valdè
elatofit remotè et stride foliosos fasciculosque foliorum stenlinm
edenh, squamis fasciculorum stenliom sensim in folia abeuntibua,
folna ngidis duns ereclis longissims hneanbus siccitale subconvo-
luhs concolonbus valdè sfialo-aervosis ad nervos et prsserlim mar-
gines scabns, cauhnorum sapenorum limbo sbicto vagina; squi-
longo, ligulâ oblongâ apice lacerâ, paniculs ereclae ramis longè de-
nudatis difhiao-pubenlibus scabridn inferioribus bims, pedicellis nea-
bndis spicnft sspiAs breuionbus, apiculis albedo-virenlibus 6-7 flons,
axi scabridâ, glomu lanceolata aculis valdè inoqnalibas, palei In-
fenorl paniculalo-scabrâ conspicuè qmnqoenervi aculiuscalâ aplce
brerluimè mucronnatâ, Interior! aculâ blfidâ margine acabridA,ova-
rio apiece hirtolo

Hab. in schlstosis montis *Elbrus* propè *Derbent* Kttschy N° US.

Culmi Hd pedales, panicula ft-10 pollicea longa ramis Inferioribus
partè nudâ 1-8 pollices longia. Folia fasciculorum pedem vel sesqm-
pedem longa. Spicula? magnitndims *F. spectabil** Jan quae noslrc
afGnis differt foliia tenuioribus non ngidia breuionbus multò minùs
scabriB sicdlate non convolnlls, paniculâ magia mulbflora, flosculis
punelulaUa nee Bcabns ele *F drymeia* spiculis mull6 minonbus
radlcisque indole longiùs dislat

DACTYLU nitida Boiss tit Heldr in pi Orel exs 1847

D), cscspitosa glabra radice fibrosa, culmorum foliorumque basi
ragmis membranaceis pellucidis tunicald, folus ferè omnibus radica-
libiis limbo expanso anguste hnean canaliculalo-picalo anguslè albu
margmalo ulrinque laevi, bgulà oblongà aculft, foliis culmeis paucm
vaginà anguslè longissimà limbo brevissimo striclo, culinis ngidls
brevibus, pamculft in spicam auguslè linearem brevem sriGlissimam
densam basi ahquand6 subinterruptam valdè contractft, spiculis ses-
ailibus tnflons, glmnis oblongo-linearibus flure inferiori paul6 bre-
vionbus inferiori aculi suprnnon paul6 longion breviter mucronati,
flosculia oblongo-linearibus prsctcr cannam supern6 obsolete ciliaii*
lam glabna quinquenerviis apico obtusis subbruncalis dorsu cicur-
renle brevissimè inucroiiulalis, palcà supenon seqmlong& lanceola-
to-lmean cannalo-plicatd ad cannam scabridu)&

Hab in saxosis inontis Idx loco Eis ta Koplla dicto alt cire
6000' (Heldr)

Gulmi semipedalea brevioresque, folia cire. sesquipollicem longa
picala lineftque diinidià angualora, spies 7-10 lin longe Besqui-
lineam vix lalaj Species ab omnibus Tomls D glomeratm diversa
quibus culmi semper longiores minus firmi, spice ovalo-rotunde
vel ovato-oblonga: inull6 crassiores densiores multiflorse, flosculi ca-
rlnà longiusculè ciliati ex apice emarginalo mucronulati

SCLEROPOA FILISTICA BOISS

8cl. glabra annua radice fibrosa. culms pluribus basi geniculalls
dein erectis Isvlbus rubellw, folns lasvibus angustè linearibus aplice
setaceo-acuminatis siccilale subconvolubsf radicalibus» numeroslorU
bus, culmeis paucis limbo brevi stricliusculo, ligulft oblongft acotà
fimbriatA, pam&IA ovato-oblongft ramls 3-8 spiculalls erecto-padihs
spiculis brevionibus pedicellisque tandem sepd deflexis acutè an-
gularis leribus, spiculis palhdè rubellis compressis eilmfè disillebis
oblongis 10-15 flons basi sepè atenuatU, glumis parris lanceolalls
acubB acutè cannalis flore proximo paul6 brevionbus, axt parcè hip-
tali non fragili, nosculis oblongo-linearibus, paleà inferiori subcoria-
cei Irmervi basi obtusè supvrnc acute carmalà glabrà vel infernè
parcè el brevissimic Inrlilalà apice brevissimè membranaceà rolundalà,

cannâ vel mulicâ vej in macronulum ipice non longius lenle vn pen-
piaium sub apice abeunli, paleâ superiori brevion oblongo-linear
bicannatâ ad carinas scabndulft

Hab in arenâ luleâ mobili regionis P^ollutes circâ Gaza in PaUm-
tnâ austrah. Legi Aprili 1846.

Semi-i pedalis, folia brevia, pamcula S→ pollicans, spiculs 8-6 li-
neas longs 9 vel paul6 ampliùs lals. Affirm *ScleropocB maritim*
Link que egreglê differt spicuhs minus regularlter dishchis angualio-
nbuB, axi fragih, flosculis glabernmis magis elongatis acute quinqae-
nerriis nervis lalerolibus approximalis Noslra species habilu el spi-
coûa distlciiis magis refert *Catapodium Siculum* = Link *Triticum*
unioloides Alt spiculis sessihbus slatno dislinguendum el flosculis
apice tanlftm aculê cannalis Iransilum inler *Scleropoas vlCalapodia*
generlcê forsan non saUs dislincla pnebet

SaBBOPOA PUMILA BoISS

9cl. annua glabra, cnlmis numerosis pumilu exlenonbus basi geni-
culatls omoibDS foliosis longitudine Incqualibus scabndis, foliis in-
ferioribus paacis hnean-selaceis, caulnoriim vagims dilalalis slnatis
lasvibus elongalls limbo lanceolato apice subulato **folu** supremi pani-
culam saspê squanli, ligolâ oblongo-lanceolalâ aculâ lacerâ, paniculâ
oblongâ ramis brevibus angulatis scabndis divancalim ramulosis ad
spicularum orlum infracto-fleiuosis, spiculis Bessilibus super raiDu-
lum angulo recto palenlibus anguslissim^ linearibus, glumis equah-
bns angusli hnean-lanceolatis oblusiusculis aculê cannalis flosculo
inferior! ferê dimidi6 brevionbus, am clongatâ, flosculis slnctis in?
icem plûs eorum longitudine mediâ dislanlibus linearibus, paleâ Infe-
non llinean nervis trlbus validis percurâsubcoriaceâTirentimargine
el apice brevissimê albomembranaceâ carinaUr obtusiaBcolâ ad ner-
708 superoè scabndâ, supenun asquilonâ linear oblusâ ad S nerros
scabndulâ.

Hab. in deserlo *Arabia petrew* PaloesliniB conlernmiiBB (Boisa.), in
deserhs *Alexandria* (Cadet de Fonlenay).

Culmi sspiùs 5-4 ranùs 5-7 pollicares, pamcnuB 1 **ijJ-8** poll,
longoe ramulis spiculis brevionbus, spicnhe 3-Alineas longs angusli-
sime tereti-angulale. AffinisScter *divaricate* lAiA—*Festucm-diva-*
ricata Desf. que egregiê dlflerl culmu elalionbas vixbasi gemculatis,

vaguus fohorum culmcurutn nou dilatatis inflalis, spiculia multiflora
S-19 lin longis crassioribus, paleis obsolete nervosis tamen non
scahdâ

SCLEROPHA MEMPHITICA OISS

Sc annua glabra, culmis nuda basi valde gemmatis deo erectis
Isribus, folis ferè omnibus culmeis vaginis sicutis lavibus latis
subinflatis limbo lanceolato subulato-altenuato vaginas squallongas eo
foliis supremis paucis xiphiis xqmlongis, ligulis oblongis acutis laceratis,
panicula oblonga ramosissima, ramis articulato-fragilibus patentibus
aagulatis scabris inrenibus elongatis omnibus divaricatis ramu-
losis, spiculis subscissilibus ramulo angulo recto insidentibus oblongo-
lineatis Infractis, glumis lincibus acuminatis rigidis subsqualibus
cannalis auperne canna parcissime scabrida coetivina glabris
Osculo tamen dimidio brevioribus flosculis albis lineatis acu-
minatis invicem quartâ parte eorum longioribus dislan-
tibus, paleâ inferiori glabra in nervis canna oblonga ad carinam superne
obtusâ rel omnino sibi conacca virenti anguste lineari superne
altenuato-acuminata albido-membranacea aplec in denticulum acutum
minulum abeun-
ti, canna in antheram denticulo longiorem productâ,
paleâ superiori brevior hinc obtusâ ad 2 nervos scabridâ

Hab in arena mobili ad pedem rupium in vallibus Sioaiticis *Wadi
Ifokatet, Wadi Scheick*, etc (Boiss), in desertis *ASgyptiae-Ara-
bico Thelmidis* (Husson)

Dactylia Memphitica Sprang

Planula f 1³-1 pedalis inferne saepe arena mobili sepolla, foliorum
superiorum limbus saepe 9-3 poll longus, vaginas 1-5 tinea saepe
late, panicula eâ precedentis amplior propter ramos longiores magis
effusa Habitu el vaginis latis foliorum precedenti affinis ab eâ differt
rarois panicula; elongatis, spiculis breviter pedicellatis el prorsum
flosculis inter se minus remotis axi minus strictis ferè levibus alle-
DQato-subulatis apice longis membranaceis el canna productâ lon-
gius aristulatis A *ScleropoA divaricata* notis datis longius
distal

VULPIA PATENS Boiss

V. annua glabra, culmis lenibus pinulis basi genualiter parce fo-
hosis latis vaginis angustis, limbo convoluto selacco fleioso, II-

gult brevisBimft ovalâ acutâ, pamcnlâ ereclft simplici vel basi ramosâ oblongâ parvâ, spiculu rachidi crassiusculus rigids acutè angulats dislichè el angulo recto insidenlibus patenlibOB Biïbsessilibus obloDgis B-7 flons, glumâ inferiori minimâ tngulan squamsformi, superiori lanceolate quadrnpl5 majon flosculi inGnu quartam partcm aequanli utrâquè glabrâ, flosculis glabns lineanbus mfiroiB aculis euperionbus in mucrouem brevem aUenaatis

Hab. in deserto *Arabie pstrece* Palmstinge contermino ubl paoca specimeni Apnli 1846 Icgi

Galmi vix semipcdales, pamcula i-11]S poll longa, spiculs com pedicello brevisenio ferè 3 hneas longs, Qoscolorum mucro vu 11-npam dlmidiam longa. Species spiculis axidi sjuae dislicb6 et angulo recto insidentibus brevissimè anslalis propè *V. cynomrotdem* Parlatore = *Festucam delicatulam* Lag collocanda.

BBOHUB AHATOLIGUS DOIBS. et Heldr. in pi. Anal eis. 1846 (Seel *Serrafalem*)

Br annuus **foliis** infenonbus ad vaginas et limbnm, supenonbin aecâs limbnm (antAm mdumento longo palulo mollissimo obsitis, pamculâ crectâ **patent!** pyramidalA ramis capillanbuâ patolis natanll-bufl inferloribas elongahs. spiculis oblongo-lanceolatis adpressè ?elutiniB, flonbus latè ellipticia fruclifens margine soblmbncatls, paleâ inferior! elevatim 9 nervi margine medium veraAs rolund&tA aupe-norem panl6soperanli_t anstis ad¹ terliam partem dorsl mserlis siccatis racorvato-subpatulis florum supenoram palêa longionbus infenorm brevlssimis.

Bromm squarrosus \$ Cyri Tnnins ei Gruteb. Gram. Roas

Hab in rupeslnbus collum propè *Tsimboukkan Pamphyliæ* (Heldreich).

Species habitu, spicnlarum formi et magnitudine B. *aqwufflso* affins qoi dlflert indumenlo nullò breviori velutino, flosculis arclins imbricatiB brevionbus obloiigis, paleA exlenon margine lahûa membranaceâ angulam obtusum mamfeslum exhibenti, **arlstft** alkûs Insertâ. *Br. atvensis* et *B. patulw* spiculis lanceolalis apice altenuatis, paleJaque quoque margine obtusè angulatis longiôs distant.

BROMUS MACROCLAWO BOISS. (Sect Serra/átcux)

Br annuus ad limbos et vaginas breviter elatulus, culmo elato, panicula erecta triangulari-pyramidalis ramis filiformibus proculpalulis longis inferioribus 7 verticillatis. spiculis oblongo-ellipticis, floribus ellipticis fructiferis margine unbricatis, palea inferiori asperulo-punctata sub 7 nervi rubella in margine laticulata albo membranacea medium versus convexa nee angulata, superior conspicua brevior, aequalis supra teretem partem paleas inferiores inaurata tenui recta vel extrorsum subdualis (longioribus inferiorum brevissima)

Habit in collibus ad radices inendionalis *Tmoli* infer *Terraasa* et *Birgui* in *Lydia* (Boiss 18fti).

Truncatulus, panicula seminipollinosa et amplius longa, ramis inferioribus 3 pollicibus longis, his nodis affinis *B arvenxi* qui differt spiculis angustioribus lanceolatis apice attenuatis, paleis paululum abbreviatis margine supra medium obtuse angulatis, anthera alius inserta. *Or fatulus* quoque paleis angulatis, inferiori subacquilongata, paniculaque subamplalerali differt. *Br Anatolicus* denique propter pubescenscentie indolem antheris crassioribus recurvis, spiculis latioribus etc longioribus differt.

BROMUS CRINITUS Boiss et **floh** in pi. Pers. bor. 1846 (Sect, subromtu)

Br annuus? cespitosus radice fibrosa, culmis plumbis erectis foliosis medio-teretibus, foliis tenens viridibus vaginisque pube brevissima deflexa sub lente parvis obsitis, limbo linear-lanceolato acuto, ligula ovato-oblonga hirsuta firmata laevia, panicula oblonga contracta ramis capillaribus strobilatis seabridis spicula planis longioribus, spiculis minimis ovatis modice compressis subquadri-floris glabrato, glumis subsquillo longis lanceolatis attenuato-acummatis flosculum infero-rem obovatis infero 1 superiori 3 nervi, flosculi elliptici, palea exterior vix 6-7 nervi paululum sub apice brevis bimembranacea sabbidenata anthera aetate reclusa ea sextaplo longiori minus, palea interior circumquillo elliptico-lineari ad 9 nervos scabundula.

Habit in montibus *Ellmix* prope pagum *Pamgala*

Culmi 0-9 pollicares, panicula 1 1/9-2 pollicares densiuscula, spicula absque anthesis 9 1/9 lin. ferè longa, flosculi aequimane aut paulo amplius, anthesis 7-9 lin longae. Species floribus minutis longè anthesis insignis, nulli aliae generis propius affinis, spiculis compressiusculis sectione *Serrafaleo* accedens sed numero nervorum glumarum habituque apertius propè *Br. tectorum* collocanda

Bromus SIPYLEUS BOISS (Sect *hvbromus*)

Br. perennis, radice fibrosa, foliis lato-linearibus planis flexuosis margine scabris infimis paulò angustioribus omnibus prater 9-3 superiora ad vaginas deflexis hispidulis ad limbi inermes ciliatis, vaginam brevissimi subtruncatam, culmo elato, panicula flaccidae nuda abbreviata ramis valdè elongatis undis, pedunculis scaberrimis apiculatis brevioribus, spiculis lanceolatis strictis elongatis 7-9 floris, glumis asqualibus hinc lanceolatis Internerviis canaliculatis acutissimis glabris canaliculatis scabris, flosculis lanceolatis, palea exserta lanceolata linearis sub 7 nervi apice attenuata acule paululum sub apice aristata reclinata (nervi dimidiati brevioribus scaberrimis, interiori brevioribus elliptico-linearibus ad 8 canaliculis remotè breviter et rigidulè denudato-ciliatis).

Hab. in umbrosis *Styriae* supra *Magnesium* in *Lydia* ubi legi fine Junii 4M9.

Planula 4-8 pedalis, culmo crassiusculo, foliorum intermediorum limbo saepe ferè pedali *h* lin lato, paniculae rami inferiores parte nudam 9-5 pollicares crassiusculi, spiculis sesquipollicares angustis Species pulchra habitu et characteribus *Br. asperi* donata qui differt flosculorum vahlia longioribus magis asperis, spiculis flosculisque ferè in parte ramorum adpressè hirtis. glumis Inscabris *Br. erectus* panicula erecta ramis brevissimis longioribus distans

Bromus SGLEROPHYLLUS BOISS (Sect *Eubromus*).

Br. glaberrimus perennis, radice repens. caudicibus crassis vaginis velosis ocreis reliculato-fibrosis faginatibus, culmis elatis rigidis erecta parte foliosis, foliis rigidis duris plicato-convolutis subcylindricis subuncurvis elevato-plumbeis albidis subpungentibus, ligula brevissima truncata, panicula brevissima erecta alba paucispiculata,

Plantarum Ononulium nimirum n. il

B

ramis unispicalis spiculâ longioribus strictis infenonibus, spiculis 7 floris, glumis angustis lanceolatis valdè acuminatis aequalibus flosculum infimum subsequantibus, am pilosula, flosculis subdissitis, paleâ inferiori lanccolâ nervi adpressè ei valdè scabridâ paulo sub apice acuminato membranaceo anslâ sequilongâ contorto-divan-
catâ aucli, paleâ superioris elliptico-lineam remotè t* longiusculè setulis scabridâ

Flab in monte *Tmolo* suprâ *Philadelphiam* in *Lydid* ubi legi
JULI 1943

Culmus sesquipedalis, folia inferiora angusta 4S¹ pollices longa, panicula 3-4 pollicaris in meo specimine 8-6 spiculata, flosculi 6-7 nervi longi, anslâ paulo suprâ basin conlora. Species *Dr. erecto* et fir *tomentello* affinis ab ulroque radice breviter repend, folium convolato-cylindricis distincta, a priori inter flosculos 3 nec 8-7 nervus longè nrisialis anslâ divançalâ, a posteriorion glabrie diversa

Obs *Br Persicus* Boiss in Kotschy pi *Pers. bor.* 1845 est *Br tomentosus* Trinius

LOLIUM PERSICUM BOISS et Hob. in pi *Pers bor* 194fi.

L. annuum vel bicenne, radice fibrosâ culmos floriferos tantum agentis, culmis tenuibus erectis, foliis viridibus lenens multinervis limbo striato angustissime lanceolato-linearibus, ligulis rufescentibus ad marginulum inferiorem ferè obsoletam redactâ, spicâ tenuissimâ remobusculè 5-7 spiculatâ, spiculis strictis minimis sobtinflois, glumellis elliptico-lanceolatis obtusè dorso quinquenervi angustè membranaceis flosculis terliis parte brevioribus, paleâ inferiori oblongo-lanceolata vix subconata dorso subcanaliculata aculâ in aristam reclinatam tenuem eadem ferè duplè longiorem aequali, juniori equilongâ subaequilongâ aculissimâ apice subbifida ad canaliculâ scabridâ

Flab, in uliginosis montis *Elbrus* propè *Derbend* Kotschy *W* 378.

Culmi 9-10 pollicares tenuissimi, spicæ breves 1-1 1/3 pollicares, spiculis absque aristis vix 3 nervis longè, aristæ ferè 2 lineas longe. Propè *h. multiflorum* et *L. tenue* auct. = *rigidum* Gaad. collocandum, ab utroque spiculis multo inferioribus paucifloris, flosculis magis conatis longè anstatis diversissima *L. arvense* culmo et rachide tenuibus crassioribus, spiculis multifloris, flosculis brevibus longioribus *montanum* vel breviter annalis longè quoque distat *Habitus Nardwi.*

LILIUM IAPTUROIDES BOISS

L bienne vel annuū in culinis humilibus basi foliis cil. 6 m spicas erassas cylindricas incurvas abeunlibus, folus lalè linean-lanceolatus inullinervus, ligula brevis marginifurca, rachide crassissima dextrorsum sinistrorsumque alternatim et profundè excavata spicifasque excipiente margibus lalis rotundatis, gluma latè hinc obtusè eonacèa nullinervi flosculos superantem rachidis excavationes eiacte claudenti, spicula excisus rachidis inclusis admodum compressis subquaqueflons, palea inferon conacèa ellipticèa obtusèa glabra muticèa mlerion squillogèa icquilatitque canis scabundèa utraq̃ue achemo arclè adhaerenti.

Rottbolla lotiacea Dory et Claub Fl. Pelop. pi 3 f 3

Hab. in Peloponneso circa *Modon*

Planta vix semipedalis, folia basi 2 lineas et amplius lata, spica 8-4 pollices lala diametro 5 lineas ferè lala, gluma suspè 6-7 lin. longa, flosculi 9 lin. arc. longi. Species insignis libit omnino *Lepturis* a quo apiculis nulliflons dilal et oim jure in genera *Lolium* juxta *L. tenue* aucl. — *rigidum* Gaud collocanda a quo spica crassa incurvâ, rachide multo crassior profundiusque excisfl, gluma apiculas superanti nee eis sabbrevion differ!

AGHOPYAUM castatum H et Sch, p *puberulum* Boiss. —

Vaginee et folia pilis paluis vel deflexis velulma, spica angustie spicalu glabris vel velulims.

Triticum puberulum Boiss. et Hob. in Kotsch. pi. Pen. bor. 1846

Hab. ad radices raonlis *Demawend* propè *Ask.* Kolsch N° 57*.

Ei comparatione polymorphi *Agrostalis* cui *A. pectinatum* quoque referendum comperi nostram plantam ab eo specificè non differre et pnesertim habitu et spicis *Agrostato* *Far. p* Flore Altaicae optimè congruere.

AGEOPTIBUH HORDEACEUM BOISS.

A. annuū in colons nams foliis, folus inferionibus angustè Imearibus breribus tunc tello-hiriulis superiorum glabrescentium vaginè inflatèa elongatèa valdè nervosèa limbo dilalato ad margines latius albonervosu spicam equantem vel superantem, spica densèa ovato-oblongèa

obsolete dbtichâ vaginâ suiuma basi involutrald, spiciilis 4-8 Dons, glumib angüisliasunc lanceolato-lineanbus carinah9 ad margincs prassertiui liirauliH longe allenualo-subulalis flosculos subsuperantibus sequilongis nervo canruli absque lente vix disincto, paleâ infenon trinervi a basi lanceulalâ parcê et longo InraulA longd setacco-atlenualâ, paleâ supenon brevion anguslc linean<Lanceolalâ altenualo-acuminalâ longè ludentalâ ad cannas scabndâ.

Hub. in prov. *Jderbidjan Persia* Aucher N° W3S.

Culmi 1-9 pullicares, spicce pollicein aul paul5 araplüs longs 6-8 lineas lalm, glums 9-11 lineas longte baai lineani dimidiam lats Species polclira ex affimlate IV. *Oentalis* spiculis longis longè setaceo-acummads insignia facie *Heteranttelium piUferwn* reierena.

ACROPYaN LA9IAMTHUH BOISS

A annuiim, culmift puuulis Tolioajs, folns infenonbus sub lente hirtulis caelens glabrescentibns, vaginis supunonbUB snbinOalU, limbo oblongo-lnean abbrevialo» spicis densis ovalis obsoletè dialichis e vaginâ Bummâ remoliusculia, spiculia 4-8 floris, glmnlS lanceolalo-lneanbus tsequilongis a basi anguslè lanceolalâ longè et patulè hirsutâ setaceo-allenualis flosculos snbsuperanlibiis Mnerviia cannatu nervo canali vii absque lente disincto, paleâ infenon ebaaioblongâ densè et longè albo-tursulâ subulato-attenuala, paleâ auperlbri brevion lanceolalâ aculâ lenuiler el longè bidentalâ ad carinas scabndâ

Tr. orientate var. *lanagosum* Gnseb Gram. Ross.

Hab In *Campis Caspiis* (Fisch) in *SongariA* (Tares) sub nomine IV. *orientalist* acceptum.

PlanlaS-ftpollicaris, spica 8-9 lineas longa 6-7 lata; glume clrc. K lineas longs Prjecedenti cbaracteribus affinis differt folionim limbo abbrevialo, spicâ brevion minon, glumis flosculisque mnl6 brevionbus densi&s et longlAs hireulis abruptiüs et a medio nee a basi et longiasimè atlenualls Ag *Orientate* spicularum longiludlne magfs affine dkffert spicâ eximiè el regulariüs dishchâ, glumis breviter et parciüs hirsQtis flosculis subbrevionbas et nervo dorsaiicrasso oculo nndo statim perspfuo donalts, flosculis breviter hirsutis in macronem eis breviorum nee (ongiorem attenuatis.

(Ht>P)Rim KOISCHIANUM Boiss el Huh nt Kolsch pi Pirs bor 1846.

A annum glabrum glaiiceacens, culmis infernègenicutaliB, vaginis foliorum supenorum subdilalatis limbo abbreviate-oblongo lanccolato, spicâ e vaginâ supenon longiusculc reraolâ densiusculâ ovatâ unbricalâ, spicuhs 1-5 floris lincanbus, glumla conaceis anguslè li-
neanbus aculis a'd nervum cannalem crassum acahrldis flosculoa non squanlibus asquilongis, paleA superior! anguslè lincan-lanceolalâ acutâ dorso pared acabridulâ basl tcreli aupernè carinafa, superior! brevion lanceolafft aculâ bidenlalâ ad cannas scabridâ.

Hab in *Peni& Aucher* N° 9970, ad *Teheran* Kolscli N° IS

Culini 6-8 pollicares, spic* p'olhcares 8-9 hneas lale, spiculs Terè H hneaB longa: Valde affine *A squarroao* Link pro cujus varielate primAm hahui. *Ag squarrosom* tamen nunc me iudice apecificè dif-
ferre videtur eplcis spicnligque paul6 mlnonbas, nervo glamaram carnali crassion magls proininulo, flosculis duobus superioribus arislft selaceâ plus minAs elongalâ terminatis.

TBITICOX BAOTICUV Boiss

Tr annum, colmfs erectis gracilibus, folus breriter puberulfs, cuh-
meorum limbo vaginâ nullò breviori, lasciculo piloruin liguloe locum tenentipapicâ termtnali densâ lineari angustâ a lalere vli compresaft, rachide fragili longè et densè albo-piloaâ, splculu bifloris flora aupe-
rforl aterlh mulico, glumia bicannalis scabridis flosculo aubbrevio nbua aplce bidentatis denlibus reclis brevibus aculia triangulanbus inasqualibua, floaculi ferdlis paleâ infenon apice in analam rectam ea multoties breviorer abeunli ad anato Inserlionein margine 9 denti-
culia reclla valdè scabridis auclâ

Hab. in plantie *Baotica*, (Spruner)

Spice absque anstis sesquipollicares 1 ip-a lmeas tantum laue, ansbe super, bipollicares. *Tritico monococco* valdè affine sed splca ferè dimldib angustior obsoletè a lalere compressa nee valdè com-
pressa distfhaque, apicotae dimidi6 minores, aus valdè nee obsoletè albo-ïmrsata, glumae glabra scabrida nee supernè hispiduls.

Obs. I. /*Bgilaps macrura* Jaub el 9p Illustr. pi. Or. tab. 31b* est *jEgilops Auchert* Boiss Dngn N° V jam anno 18U edila.

Obs. II. *sGgilops loliaeea* Jaub. el Spach tab. 317 est *Egilop* mulica* DoiM. Diagn. V

HORDKUH ITHABURISSE Poi>>s

H annuuii glabrii in culmis erectis foliosis, foliorum limbo flarlddo pallid6 virenl6 marline scobro, spied e folio summo remoliusculâ h-neari a lalerc vn compressâ, raclude fragillimâ compressissimâ ulro-que margine densè cilialâ spicuhs lernis, laleralibus masculis muticis, inlcrmedio arutalo unifloro cum flosculo seasili aelaceo plumoso, glumis squabbus lineanbus densi et adpressèctosis in aristam sclaccam flosculo paulò longiorcin abcuntibus, paleâ flosculi ferlilis durâ glabrd dorso bisulcalA in anstau i validam complanato-Ingonaai margine scabrani sensim allcnuatam rectain longisaimain abeunh, paled superiori xquilungd apicc relasâ

Hab. in dechvibus siccis monlis *Ithaburis* ID latere meridional! suprâ *Daburieh*

SeBquipedahs, spica absque arislis 1 1}J-S pollicans, glume 7-8 h-neas longac, ansla semipcdahs basi linee 3}4 lata Species pulcher-rima ob anslas ingcnles nulli propiùs affims, propè *H. vulgare* el *distichwn* collocanda

HORDKUH VIOLACKUM Boiss et Iloji in Kotsch pi Pen bor 184ft

H. perenoe cxspitosiim, radice fibrusi, culmis ercllis basi non in-crassalis, folus radicalibus nuuiero&is caullnisque spams scabridis rigidiusculis limbo abbrevuito, spicis vioIaceo-Qigricanhbusriinean-bus vu compressis am Cragilliinâ lurtulâ, spiculis lerniB unlQons cum rudioiento subulalo floscali supenuns, glumis subulatis scabrils flos-culos squantibus, flosculis lateralibus masculis mulicw ssplùs mino-ribus subpedicellatis, }alcâ infenori flons liermaphrodlli lanceolalo-linean In anslain brevem eâ bi-cviorem abeunli, superior! eequullongâ acutâ

H. prateme var *nodosum* Griseb. Grain. Ross.

Hab. in pmguibus ad radices inonUs *Demawend* propè *Lar* Kolsch. *H°* 525 et in monte *Totochal* propu *Teherun* all 8000' N° 3, in fauct-bua inonJUs Elboun, N° 6(3, in monte *Kuh Dana* Persis ausralu Kolsch. N° 684 sub *H. bulboai* var.

Culmi J-2 1}9 pedales, spicae 1-9 pollicares, spicule arc. 11}3 Iw , arista longiores 3 lineas lantùm longae. Affine *B. bulboto* cujus olim vanelatem ease credideram sed a quo differl culmis non solilanis nee basi bulbosis, glumis flosculos non superanbbus, paieA flons inter-medn in aristam ci breviurcm nec longiorcin abeunli

LEPTURUS PERSICOS BOISS. Sect. (*Pkoliurus*).

L annuus culmo paulo supra basin ramoso erecto inferne folioso cilo in spicas lineares cylindricas longas reclusas abenni, vaginis folisque brevibus retrorsum scabundulis, rachide spicae fragillima dorso convexa albo-marginata articula spicula asquilonis, glumis duabus conaceis et convexis sub'lenteque adpressis birtulis plinnem apice obtusis vis, et brevissime membranaceis squilonis floaculos paulo sperantibus rachidi arcte adpressis alter! pauli angustior, flosculis binis rarioribus solitaris, paleis squilonis albis-membranaceis lanceolatis-Hneanbus obtusiusculis glaberrimis.

Hab in *Persia australi* Auctor N° 2914

Planula habitu spicae rectis cylindricis 3-4 pollices longis *L. cyndrium* referens sed statim ab eo glumis bivariis distinguenda. Spicula biflora in subgenere *Pholiuro* prope *L. pannonicum* collocanda qui a nostra specie glaberrima, rachide spicae multo teniori, spiculis a rachide aejunctis nee eadem exacte arctis-incumbentibus minoribus, paleis apice bidentatis nee integris facile dignoscitur.

AHTUBITIBIA BHAGHYANIHA BOISS

A pereome glauca radice fibrosa caespitosa, caulis erectis simplicibus teretibus flavidis foveosis parte superioribus obtuse angulatis, foliis Hneanbus planis rigidulis membranaceis secus vaginas superioribus ad basin lacinis spicam setis longis et tuberculo orbis obsitis margine et ad nervos scabris, ligula brevi truncata fibrillata, fasciculis spicularum 4-8 pedunculo fibrillis suffultis infimo remota castens terminalibus omnibus nutantibus singulis spatula glabra lanceolata acuminata plicata. suffultis iterum in tres-4 glomerulos spathis lanceolatis dimidiis minoribus suffultis divisa, glomerulorum 1 vel 2 et spiculis hermaphroditis masculisque catena et spiculis neutris muticis tantum constrictis, spiculis neutris vel masculis sessilibus basi glabris, glumis exterioribus viridibus oblongo-lanceolatis cucullatis aculis dorso univulvatis margine rufescenti-membranaceis superne sellis nonnullis et tuberculis crassis utris obsitis, glumis interioribus hyalinis, spicala hermaphroditica pedicello longè rufescenti barbato suffulta ad apicem pedicelli 9 apiculis abortivis subulatis vix iterum pedicellatis aucta biglumi, glumis asquilonis oblongis obtusis auriculatis eitenori apice breviter puberula internodum arete involventi, anthera flosculi rostrata contorta inferne hirsuta spiculas multoties sperantibus spatula fasciculorum fere longioribus

Ifab. in siccis duinosis Syria littoralis ad radices atisrales jugi Cassii inter Laodiceam et Suadieh Legi Junio 1846.

Circ tripedalis. folia radicalia ferè seaquilinram lata 4-6 pollices longa, spicularum neutrarum bracts 5 *ifi-h* tineas longs, arista sesquipollicariB

AHTHISTIBIA SYBIACA Boias.

A. perennis glauca radice . ., culmis parcè ramosis infernè obtusè supernè aculiusculè angularis suprâ nodos incrassalH, folua glaberrimiB hneanbus plants rigidulis utnquè scabridis, ligulâ brevl ovalâ limbnaâ, fasciculis pedunculis filiformibus suffullis nntantibua 4-H in culmi parte supenon, infenon remuto, omnibus spalliâ lanceolalo-Imeari long6 acuminatâ plicalâ infern6 inargnñbiis ciliatâ suflullis ilerAm e 5-4 glomerulis coiistanlibus, gloraerulis omnibus e spiculu marginalibiis neutri9 sessilibos cenlraliqae pedicellato lieraiaaphrodito conBlandbus singulis spalhâ lanceolatâ rainon eis paulb longion spatia, Bpicularum neutraruin glumu eitenonbus oblongo-lanceolajis acutis vindibua iuullin«rviis margine membranaceis superirt setts parciBsimis e tuberculo ortis obsilia, glumis inlerionbaa hyalino-membranacew,spiculâ liermaphrodita ad pedicelli rufoseto&i apicem S spiculis quoque pdicellalia rudimentariis neulna vindibua lanceolatu obsita, glamisalbidisconaceis squilongiBobtusiB exteriorl apice blrto-acabrida inliorem arclè involvenli, ariBIAflosculi contorts, rafescentl spleulis multo longion spalbain fasciculorum osquanti.

Hab. *fi* regione sylvaticâ Infernon jugt *Ca&sii* in *Qyrid bomali* ubi legi uon procul a prscedenli Jun 1846.

Planla proccdenh major, folia longiora semper globra, fasciculorum apalha 3-4 nee bipolllcans margine infernè cillala nee glaberrima, glums spieulanini nealrarum niajorea acutiores B-fl lineas longn setta parcfBsimis e tuberculo minori ortis, spiculs neutrse biqas ad basin floris liermaphroditi »IUB lanceolate nee Bubulats *A. glauca* Desf. huic speciei affinis differt culmo compresso, glumis florum neiilronim pneler cilia nonnalla ad apicem sita tuberculis proratus destUdta glaberrimis, pihs secuB pedicellum floriB liermaphroditi silia nullò bre-Tionbus alusqne nolis. A punctate Hochstetter ei Abysslmi affinis quoque, spatbw undique hispidis pills e tuberculls nlgrls ortiB, glumia longè pilosis, etc , stalim distinguilur.

EWENDANDA ET ADDENDA

AD DIAGNOSES SEHIEI PHIOHI9.

- Diagn I pag 8 *Potygala pruinosa* Dele ex habilatione locos in Graciã indicates et vide Diagn. Sericm secun- dara N° I.
- » K 17. *Saponaria thymifolia* var. *ocellata*. Vide Diagn. Ser 9, N°1
- » • 35. *Silene rhynchocarpa* B est *Silene stentoria fetal* in Kolschy Pl. Tauri.
- » • 86 *LinumAnalolicum*B est variolas Z» *Mrsutih*. Vide Diagn. Ser. S, N° 1
- » 69. *Aplophyllwn* lege *Baplophyllhim*.
- • 69 *Barbarea Jngtutana* lege *Augustana*
- Diagn. II p. 18 *Cornfçma pseudocytism* B. est tytfsojMb do- rycniifolia Jaub. et Spach. Illustr. lab. 84
- H • 17 Trtj/oneita Sprunneriana lege *Spruneriana*
- * 90 TWgonelfa elliptfca Boiss time at synonymon adde *Bolryolotus Persicus* Jaub et Sp Illustr. pi Or. lab 65.
- > 73. *Astragalus Friwaldskyanus* B. est *A phym- ealyx* Pisch Griseb. Spic Rumel I p 38.
- • 79. *Astragaliu Sprunneri* B. lege *Spruneri*.
- • 90 *Tavemieraglabran*. Adde synonymon *T.ephe- droidea* Jaub el Spach. Illustr. lab. 69.
- » • 90 *Taverniera incana* B. Adde synonymon *T. go- noclada* Jaub. et Spach Illustr. tab 61.
- • 98. *Ebenus barbiger*a B. Adde synonymaon *E. po- gonotropis* J. et Spach. Illustr. tab 9B2.
- > • 99. *Ebeniia laguroides* B. Adde synonymon *E Mont- brelii* Jaub et Spach. Illustr. tab 950.
- • 100 *Ebeniu stellata* B Adde synonymon *E traqa- canthoidea* Jaub et Spach. Illuslr. lab 9ft
- Diagn HI p. K9 *Mericarpea vaillantoides* Adde synonymon *Galiitm cristatum* Jaub. el Spach Illuslr pi Orient, tab. 194.

- Thagn V p K4 *Euphorbia sessiflora* lege *sessiliflora*
 84 lii descriptio *Euph macroclada*; addc »glandulis scinilunibus basi truiicalis cornubus breubnsdivergentibus linearibus non mcrassalis •
- Diagn VI p SG *Ifjpericopste Persica* Adde syionymon *FrankemaPersica* Boiss inKotsch pi. Pcrs. Jaub clSpach Illusr lab 188
- Diagn VII p 30 *Rindera Graca* B et II cst *Matlia Gntca* A' DC l'rodr
- Didgn VIII p. 83 *Polygonum tubulosum* lege *tubulosum*
 • 118 *Erodio tuberoso* Boiss addcsynon *Er hirtum* Willd non lloiss Vo> Esp Vide Pugill pi nor. Af bor. pog 96.
- Uiagn IX p 1 Im 6 add« **TEIEBINTIAGE**«
 • .100. pro *Hedysai am Kol&chy* pone *Kolschy*
 D • ~~100~~ lin 6 pro gluscosis Icgc glaruosib
- Diagn X. p 107 pro *Cheiolapis* pone *Cheiolapts*
- Diagn XI *Kcelpinia sessilin.* Haic planta quain ex habilu *Koslpiniis* simillimo lime gencri infauslo adnoineravi ab CLS et a Cichoraccis florpm ci fructus characleribus ahliorret et Galendulaceis adiumcrandd csl. Pro *ch* pone **DIPTEROCOME PUSILLA P** et M Ind Scm Pctrop 1838 - DC. Prodr VII. p. 28S - *Jauberlia Kcelpinioides* Jaub. et Spach Illustr. pi Or lab. 389.
- p 90. Im. 9ft pro *Pfiloligo* lege *Nilotico*.
- Diagn.XH. p 51. *Scrophularia eriptophilla* ~~leg~~ *cvryptophila*
 • > 76. *Sidentto Cassia* lege *Slaehys Cassia*
 • p 96 lin. 6. Locovar S legevar \$
 • p ill.lin.6. *NotadaniaWyeNotadeniQ*
- Diagn XII p. IS *Cephalanlera* Icgc *Cephalanlera*
 » p 18 *Paneralium* lege *Panocratium*.
 • p. 61. Im. 11 pro *Catapodium Siculum* Link pone *Caiapodium Siculum* Link.



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AD DIAGNOSES PLANTARUM ORIENTALIUM

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