



IGURES

Of the moft BEAUTIFUL, USEFUL, and UNCOMMMON

The GARDENERS DICTIONARY,

EXHIBITED ON

Three Hundred COPPER PLATES,

':Accurately ENGRAVEN after DRAWINGS taken from NATURE'

WITH

he CHARACTERS of their FLOWERS and SEED-VESSELS, Drawn when they were in their greattft Perfection,

To which are added,

heir DESCRIPTIONS, and an ACCOUNT of the CLASSES to which they belong, accurding to jRtfy's, Tournefori's, and Linnaus's Method of Clafling them.

By

PHILIP

MILLER,

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In TWO VOLUMES.

VOL. Π.

LONDON:

Printed for the AUTHOR;

And sold by JOHN RIVINGTON in St. Paul's Church-Yard A. MILLAR, tl. V.'OODFALL, J. WHISTON and B. WHITE, J. HINTON, G. HAWKINS, R, BALDWIN, J. RICHARDSON, W. v KN-TON, S. CROWDER, P. DAVE Y and B. LAW, T. CASLON, and R. and J. Does LEY.

M.DCC.LX.









P L A T E CLI.

HYPERICUM, Tourn. Inft. R. H. ° 54.. Tab. 131. Lin.Gen. Plant. 808. St. John's-wurt; in •>nch, Millepertuis.

HIS Genus of Plants is ranged in the Fourth Se&ion of *Tournefort's* Sixth Ciafs, which includes the Herbs with a Rofe Flower, whofe Pointal becomes a Fruit with many Capfules. *Linnaus* range\$\(\frac{1}{2}\) in the Third Seftion of his Eighteenth Clark, intitukd, *Polyadelphia Polyandria*, from the Flow, -s having many Stamina and Styles \(\frac{1}{2}\) and to tiiis Gei/is he has joined the *And%of<emum* and *Afcyrum* of *TournefoH**

The Species here reprefented are

Fig. 1. HYPERICUMfioribustrigynis, calycibusacutis,fta
s minibus corolla brevioribus, caule fruticofo, Lin. Hort.

Cliff. 380. St. John's-wort with Three Styles in each
Fiower, acute Empalements, the Stamina fhorter than
ihs Petals, and a fhrubby Stalk. This is the Hypericum orient ale fioremagno ^ Tour n. Cor. 19. Eaftern St.
John s-wort with a large Flower; and the Hypericum
inontis Olympic Wheel. Itin. 222. St. John's-wort of
Mount Olympus.

This Plant grows naturally on Mount *Olympus*, where it was difcov\v-d by Sir *George Wheeler*, in his Journey through the Eaft •, who fent the Seeds to the Botanic Garden at *Oxford*, where the Plants were raifed. It was afterwards found by *Tournefort*, who fent the Seeds to the Royal Garden at *Paris_x* where they fucceeded; and from thence moft of the Gardens in *Europe* have been fulfilled with this Plant.

It hath a thick tufted fibrous Root, from which arife iT4_vny upright Stalks, about One Foot high, which are ligneous, and covered with a brown Bark: Thefe put out Two or Three {hort Branches toward the Top, but rarely have any below. They are garnifhed with fmall ftiff Spear-fhaped Leaves placed oppofite, fitting clofe to the Stalk: X' oy are Three-fourths of an Inch ,'ong, and One-fourth broad in the Middle, of a bright green Colour. The Flowers are produced at the Top of the Stalks: Thefe are composed of Five large yellow Petals, which are concave, and obtufe, included in a five-leaved Empalement, which is pointed, as is reprefented at a. The Petals of the Flower are flewn at by and within thefe are fituated many Stamina, reprefented at c, which are fhorter than the Petals. From the Middle of thefe arife Three Styles, which are reprefented at d'i thefe fit upon the Germen, which aftei » wards becomes a dry Capfule, haying Three Cells filled with fmall Seeds.

This Plant begins to flower about the Middle of *June*, and continues flowering till the Middle or latter End of *Anguft*, and in warm Seafons produces ripe Seeds in *England*. As this Plant will live in the open Air in this Country, and requires but little Culture, (0 it may be allowed a Place in every good Garden.

Fig. 2. HYPERICUM floribus monogynis ftaminibus corolla longioribus, calycibus coloratis caulefruicofo. St. John'i:wort with a Flower having One Style, the Stamina longer than the Corolla, the Empalement coloured; and a fhrubby Stalk,

This Plant grows naturally in *China*, from whence the Seeds whe brought to his Grace the Duke of *Northumberland*, which werefown in his Grace's curious Garden at *Stanwick*, where they fucceeded, and, by his Grace's Generofity, the *Chelfea* Garden was furniflied with this and many other curious Plants.

The Root of this Plant is composed of many ligneous Fibres, which ftrike deep in the Ground; from which arife feveral fhrubby Stalks, near Two Feet high, covered with a purplifh Bark, and garnifhed with ftiff fmobth Leaves, about Two Inches long and a Quarter of an Inch broad, placed by Pairs oppofite, fitting clofe to the Stalk: They are of a lucid green on their upper Side, and grey on their under, having many transverse Veins running from the Midrib to the Border. The Flowers are produced at the Top of the Stalks, growing in fmall Clufters, each (landing upon afhortdiftinft Footftalk: Thefe have an Empalement of One-Leaf, divided into Five obtufe Segments, reprefented at a> which is of a deep purple Colour. The Flower is compofed of Five large obtufe Petals of a bright yellow Colour, reprefented at b and c •, thefe are concave; and in the Center is fituated an oval Germen fupportin&* fingle Style, reprefented at d, which is attended by great Number of Stamina, flewn at e, which are long than the Petals and terminated by roundifli Summit

This Plant *ontinues in Flower great Part of the Year, which planted in a open Art* but thofe Plants which ftand abroad will not flower in Winter, as thole do which are removed into Shelter in the Autumn.

p L 4 T E CLII.

JACEA, Tourn. Inft. R. H. 443. -Tab. 254. Centaurea, Lin. Gen. Plant. 880. Knapweed \ in French, Jacee.

Genus he has joined the Centaurium tnajus, and the Cyanus of Tournefort.

HIS Genus of Plants is ranged in the Second Seftion of Tournefort⁹^ Twelfth Clafs, which in-Herbs with aflofculous Flower, whofe Seeds have Down. Dodtor Linnaus ranges it in the Third Seftion of his Nineteenth Clafs, intituled, Syngenefta Pogamia Frujlranea. The Plants of this Seftion have ivlo^trs whofe Difk or Middle is composed of hermaphrodite Flowers, which are fruitful, and the Border, or Keys, of female Florets, which are abortive. To this NUMB. XXVI.

The Species here reprefented are,

Fig. 1. JACEAarborea, argentea Ragufwa, Zan. Hift. 107. Silvery Tree Knapweed of Ragufa. This is the Jacea Epidaurica>candidiflima&tomentofa> Teurn. Tnft. R. H. 445. Knapweed of Mauritania with hoary woolly Leaves. Doftor Linnxu\$ titles it Centaurea calycibus ciliatis, foliis tomentofis pinnatifidis, foliolis obtufis ovaus integerrimij, exterioribus majoribus, Hort. Cliff. 422.

D d Cencaury

Centaury with luiry Empalements, woolly Leaves with winged Points, and the Lobes oval, obtufe, and larger on che outer Part of the Leaf.

This Plant grctos naturally on the Borders of the Mediterranean Sea, both on the African and European Shores; but hath been long cultivated in the curious Gardens in every Part of Europe, for the remarkable Whitenefsof its Leaves. This feldom rifes more than Three Feet high in England., with a fhrubby perennial Stalk, which divides upward into feveral Branches: Thefe have each One Head or Clufter of Leaves, having long Footftalks arifing from One Center, which are divided into frveral obtufe Parts quite to the Midrib, fo as to have the Refemblance of a winged Leaf, 'as is reprefented at d_y and are very hoary, and foft to the Touch. From thefe Heads or Clutters of Leaves arife the Footftalks'of the Flowers, which are garnified with a few whire Spear-fhaped Leaves, which are intire, as is at b\ which is composed of many Florets, as is reprefented at d\ the Border or Rays being composed of female Florets, reprefented at *, which are barren \ but the Diflcor .Middle is compofed of hermaphrodite ^'lotets which have Tubes, as is (hewn at/, which are cut into Five Parts at the Top, out of which the Style arifes, which is bifid and ri-flexedi as is reprefented at£; thefe fit on the Germen £, which afterwards becomes an oblong Se^Ad f, crowned with Down. It flowers'in J«/y, :s Seeds in England. The Flowers are but rardy of a bright $\dots w_{\%}$ and" the Leaves being as it were candied, the Plants make a pretty Appearance.

Fig. 2. JACE Acalycihus capillaribus recurvatis, verticillatoyoliofiSifoliis radicalibus ovatc-oblongis, caulinisdentatis.

Knapweed with hairy Empalements, which are recurved, and have a Whorl of Leaves under the Head. the lower Leaves at the Roof being of an oblong oval, and thofe on the Stalks are indented.

the Seeds were fent me by Robert Moore, Efq; with icveral other curious So**, oi Seeds and Roots. This PloiiJ: is biennial, rhe *• oot always perifhing foon after t. Seeds are ripe Tht Leaves which first arife are 6f aa oblong oval Shape; but thofc which come out afterwards are di/ided. The Stalks rife upwards of .Two Feet high, and are garnifhed with long narrow pointed Leaves, which are indented on their Edges, and frequently grow in Clufters, as is reprefented a: a: Thefc Stalk divide into feveral Branches, which are garnifh;cl wit1 Leaves of the fame Shape, but fmaller; and arc teiminated by Heads of purple Flowers, tte-Borders-cf which are composed of female barren Flowers, reprereprefented at r, and is terrr nat£d by One Head oV dent£<3aGfcA whildxare deeply cut at the Top into Five Flowers, inclofed in a hairy fealy Empalement, as fhewm ^acu^^p?^r?lsVrepkferft«d 4 * ^ 'elkifeVbnta the Rays of the Flower, and (land on (hort Footftalks, without the Empalement of the Flower, represented at d, which is composed of many Scales, edged about with Kig Hairs which turn downward; under which isfifuated i Whorl of long Leaves of the fame Form with the'.e which grow on the Stalks. The Center or Difk-of the Flower is compofed of many ^hermaphrodite Plorets, reprefented at e, which are tubulous, and cut into Five Parts at the Top; thefe fit on an oblong Germen* marked g, having Five Stamina, which are fhorter than the Tube, furrounding a bifid Style, marked h, which rlit> above the Tube: The Germen afterwaiJ" be.com s a a oval Seed crowned with Down, reprefented at /, This Plant flowers in June and July, and the Seeds ripen in the Autumn.

JACEA, C 5. P. 272. Centaurium majus^ Tourn. Inft. R.H. 449. Centaurea, Lin. Gen. Plant. 808.

p HE Charafters of this Plant- are the fame as thofe of the former Plate; and it is ranged by Doftor Linnaeus under the fame generical Title •, but Tcurnefort feparated those Species with large Flowers from the Jacea, and conftituted & Genus, by the old Title of Centaurium ma jus.

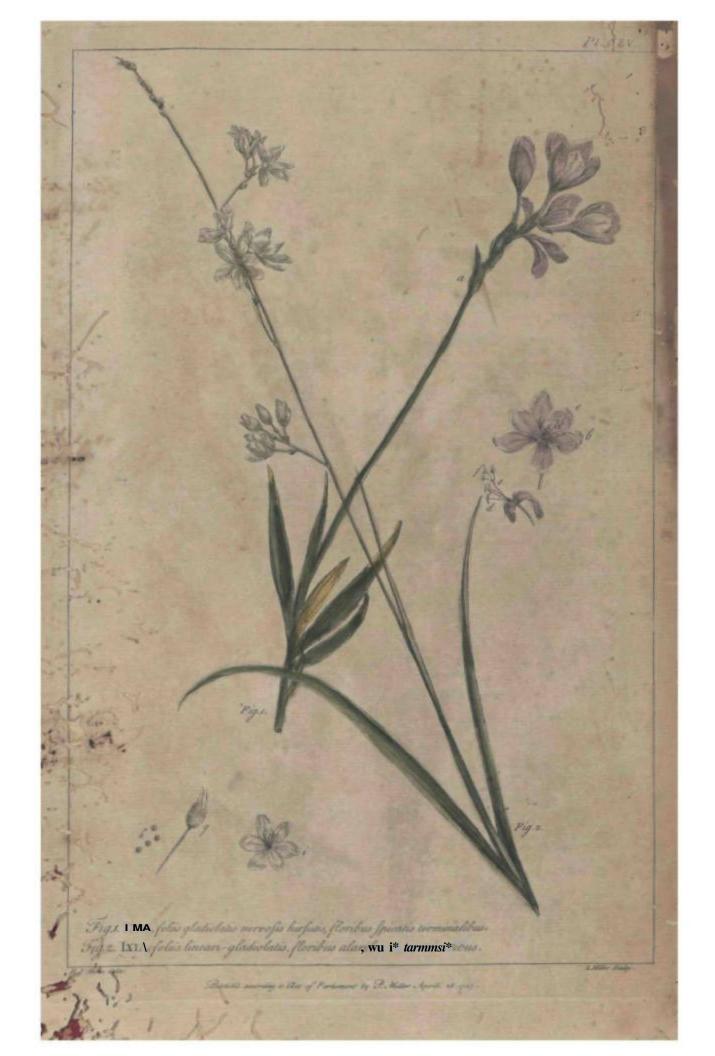
The Sort here reprefented is,

JACEA montana^ intana, capite Pint, C. B. P. 272. Hoary Mountain Knapweed with the Head like a Pine-cone. This is the *Jacea montana*^ *capite magnojtrobyli*^ *J. B.* 3. p. 30, Mountain Knapweed with a large Head like a Cone. Tturnefort titles it Centaurium majus incanum, burntle9 enpite Pini> lnji, R. H. 449. Hoary Dwarf Grrater Centaury with the Head like a Pine-cone. r ^r Van Roy en titles it Centaur ea calycibus fquamojis* joins \text{ mentofis} \text{ radicalibus lanceolatis} \text{ caulinis finnatifidis, caulefimplici, Prod. Leyd. 142. Centaury with a fcaly Empalement, woolly Leaves, those at the Bottom being Spear-fliaped, and those on the Stalks having many winged Points, and a fingle Stalk,

This Plant grows naturally on the Mountains in the Sou'th of France and in Italy. The Seeds of it were fent me from Verona, near which Place it grows in Plenty. It hath a perennial Tap-root, which runs deep into the 3round like a Carrot, but becomes woody by Age, fending out many Fibres from every Side, which annually decay, and new ones are produced every Spring. Thefe put

out feveral long Spear-fiiaped Leaves, reprefented at a, which are of a pale green on their upper Side, and are covered with a little foft Down, but their under Sides are very white and downy: Thefe are Five Inches lono-, and almost Two broad toward their Bafe, ending ?rl acute Points. The Stalks are fingle, and rife about Fifteen Inches high, which are garnifhed with long Spear* fhaped Leaves, regularly indented on both Sides', fomewhat like a winged Leaf, and the Indentures end in acute Points as is fhewn at b. The Stalks are ftifT, and channelled, and are terminated by one large pyramidal Head, marked c, having a broad fealy Empalement, the Scales being convex, and difpofed imbricatim, like the Scales of Fifh, or the Tiles of a Houfe, lapping over each other: At the Top of this fcaly Empalement the Florets just peep out, as is represented at d^{\wedge} for the Empalement is cl^^lv flut at the Top, and being very long, the uppp- °..- of use Florets only appear: Thefe Florets fit u on the Emb-yo, as is reprefented at e_{π} rifing with a flendci' 'ube, which enlarge* above, and is deeply cut into Five Segments reprefented at/; within the Tube are fituated Five Stamina, and out of tfv Middle arifes a long Style, marked g. The Germ which is fituated at the Bottom of the Empalement, aiterwards becomes an oblong angular Seed crowned v ith a Down, as reprefented at£; But thefe Seeds rarel<r ripen in England; for unlefs the Seafon is very dry in the Months of July and August, which is the Time of their flowering, and the Formation of the Seed, there * can be no Expectation of any good Seeds; for the WVt« which gets in at the Top of the Empaiernen", being cfc * tained by the Down on the Top of the Germen, c-au^ them to rot.





IRIS, 7W/*. Injl. R. H. 338. Tab. 186, 187, 188. Lin. Gen, "Plant. 57. Flower-de-luce; inFreffech, Flambe.

THI S Genus of Plants is ranged in the Second Section of Tournefort's Ninth Clafs, which incudes the Herbs with a Liiy-Flower of One Leaf cut itp Six Parts, whose Empalement becomes the Fruit. Oo&or Linnaus ranges it in the First Sattion of his Third Clafs, intitJled, Triandria Monogynia, from the ·lower having Three Stamina and One Style. To this Jenus he has joined the Xiphion, Sifyrinchium, and Her-'uodattylusi oiTournefort. The Characters of this Genus are exhibited in the Gardeners Dictionary.

¹ The Species here reprefented is,

IRIS corollis barbatis, ger minibus trigonis^foliis enfifor mibus Umgijjimis^ caule foliis longiore bifloro* Flower-deluce with bearded Petals, three-cornered Germen, very long Sword-fhaped Leaves, and a longer Stalk, with Two Flowers.

The Seeds of this Plant were brought from CamieJa by the lr.;e Right Reverend Dr. Fccock. Bifhop of OJfory\(^\) who found the Plants growing there naturally: .Thefe were fown in the Cheliea Garden, where they fucceeded very well; and the Plants have been fince communicated to many curious Gardens in Europe.

This Plant hath a thick flefliy Root, divided into many Knots or Tubers, which fpread and multiply in the Ground: Thefe fend out many ftrong thick flefhy Fibres, which ftrike deep in the Earth, puttingout feveral fmaller Fibres from their Sides. From thefe Roots arife Clutters of flat Sword-ihaped Leaves of a deep green Colour,

which are pore than Three Feet long, and little more than One Inch broad in the broadeft Part, ending in Points: Thefe Leaves are connected together at their Bafe, into feveral Heads or Bundles, wrapping over each other; and between thefe arife the Flower-ftaiks, which grow Four Feet high, and are jointed, having very long Spathse or Sheaths at each of the upper Joints, which include the Flowers. Thefe Stalks do generally fuftain Two Flowers, One coming out of each Sheath or, Spatha; thefe ar\$; permanent, and, 'when the Flowers are paft, do cloilly cover the Seed velTel. The Flowers are divided into Nine Leaves; Thr je of thefe (land ereft, which are white, and Six turn down: Thrfe arc joined together at their Bafe-, the lower fpreading out into a broad, obtufe, reflexed Fall, having a Beard, reprefented at £, which is of a bright yellow Colour: The upper Segment is arched over the lower, fo as to form a fort of Lip, which is reflexed backward, as is (hewn at a: Between thefe is fituated an oblong three-cornered Germen, reprefented at f, which afterwards becomes an oblong, fwoln, three-corngred Seedveffel, ending in a long Point, as reprefented at d_9 which opens into Three longitudinal Cells, in which the Seeds are ranged, as reprefenied at e\ thefe are angular and comprefied, as is (hewn at/. This Plant flowers the latter End of Juke, or the Beginning of July, and the Seeds ripen in the Autumn. . It is very hardy, and thrives well in the open Air without any Proteftictol The Leaves decay to the Root in the Autumn, and new ones arife in the Spring. The Roots also propagate very faft, when they are in a light moift Soil •, fo that it may foon be had in Plenty, without waiting for Plants from Seeds.

IXIA, Lin. Gen. Plant. 54, Sifyrinchium, Com. Hort. Amft.

E have no English Title to this Genus.

The Characters are,

The Flowers are included in Sheaths or Covers^ jlanding. at a Diftance, which are permanent. The Flowers have Six equal Petals' which are oblong and concave: They have each a red Skin, which is about the Size of a fmall Sprint Three Stamina, which are Jfrfrter than the Petals*, termi* natedby oblong Summits. At the Bottom of the Flower is fituated a three cornered Germen, Jupporting a Jingle Style, divided into Three Parts at the Top, which are crewned by Three roundijh Stigmas. The Germen afterwards becomes an oval three-cornered Seed-vejfel, having Three Cells, which upward, like the Sticks of a Fan. Between thefe Leaves are filled with roundifh Seeds.

This Genus of Plants is ranged in the First Sestion vflJnnxus⁹* Third Clafs, intituled, Triandria Monogynia, from the Flowers having Three Stamina, and but One n-Stylr>: And this is frparated from the Gladiolus by the Form of the Flower •, the Gladiolus having an irregular or ringent Flower, whose Petals are unequal, and the Ixia hath a regular Flower with equal Petals.

The Species here reprefented are,

Fig. 1. IXIA foliis gladiolatis nervojts, hirfutis, floribus fpicatis terminalibus. Ixia with Sword-fhaped nervous hairy Leaves, and Flowers growing in Spikes at the End of the Stalk.

This hath a round, comprefifed, bulbous Root, with Crocus Root •, from which arife Five or Six Sword-fhaped Leaves, which are hairy₅ and have many longitudinal Furrows: They are from Two to Four Inches long, and One-third of an Inch broad, of a dark green Colour, fitting clofe together at their Bafe, but fpread open arife the Flower-ftalk, which is Six or Eight Inches long, naked to the Top, where it is terminated by a Spike of blue F.owers, each having a Spatha, or Hood, which remains after the Flower is decayed, as is reprefented at a; thefe dry, and cover the Seed-veflel. The Flower hath Six obtufe Petals, reprefented by c and d; thefe are concave, and equal in Size and Pofnion: At the Bottom of the Petals are inferted Three Stamina, marked^, which are not fo long as the Petals: And

from the Germen, which is fituated below the Flower, arifes a Style, which is the Length of the Stamina reprefented at?, where it divides into Three Parts, each being crowned by a roundiffi Stigma. After the Flower is paft, the Germen becomes an oval three-cornered SeedveffTel, having Three Cells, which are filled with roundiffi Seeds. This Plant flowers in *May*, and the Seeds ripen in *July*; foon after which the Stalk and Leaves decay to the Root, and new ones arife the following Spring.

Fig. 2. IXIA foliis lineari-gladiolatis floribus alaribus & terminalibus. Ixia with narrow Sword-fhaped Leaves, and Flowers growing from the Side and at the Top of the Stalks.

This hath a round bulbous Root, about the Size of a grey Pea, from which arife Four or Five Leaves,

which are Seven or Eight Inches long, ending in acute Points, and about a Fifth Part of an Inch broad in the Middle, having Two (harp Edges, like a Sword: Between thefe Leaves arife the Flower-(talk, which is round, very (lender, and about Nine Inches long; from the Side of which is produced Two or Three ^iort Footftalks, each fuftaining Four or Five Flowers growing in a Clufter: and the Stalks are terminated by loofe Spiles of the fame Flowers, which are compoled of Six equal white Petals* as is reprefented at i: The Stamina and Style of the e Flowers are not more than half the Length of the Petal,. When the Flowers decay, they are fucceeded by roundifli Seed-vefiels, furrounded by the Spatha or Sheath; thefe have Three Cells, whigh are filled with roundifli Seeds, reprefented sit h.. This Plane flowen and feeds about the fame time as the former, and the Staiks decay in like manner.

$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E} \ \mathsf{CLVI}.$

Fig. i. IXIA foliis gladiolatisglabris, fioribus corymbofis terminalibus. Ixia with fmooth Sword-(haped Leaves, and Flowers growing in round Bunches at the End of the Stalks.

THIS hath an oval, compreficd, bulbous Root, reprefented at *, where there are Two Roots, to fhew the upper and under Side: From the Root come out Three or Four fmooth Sword-fliaped Leaves, near a Foot long, and a Quarter of an Inch broad, having Two (harp Edges ., they are of a deep green, and end ';n acute Points. Between thefe arifes a (lender (liff Stalk, a Foot and a Half long, naked to the Top, where it is terminated by a round Bunch of Flowers, each being inclofed in an oblong Spatha or Sheath, which is permanent, and fplits open on one Side. The Flowers are fuftained by (hort Footftalks, and have each Six oblong concave Petals of a deep yellow Colour, each having a dark purple Bottom, reprefented at a and b. In the Center of the Flower arifes the fhort Style, fupporting a trifid Stigma, as (hewn at c: This is attended by Three fhort Stamina, terminated by fmall Summits. the Flowers decay, the Germen becomes a roundifli Capfule, with Three Cells filled with roundifh Seeds, 'his Sort flowers at the fame time with those beforeuientioned, and the Stalks decay in the Autumn.

Fig. 2. Ixi A foliis HnearibuStfloribusfpicatisfeflilibus. Ixia with very narrow Leaves, and Flowers growing in clofe Spikes.

This hath a fmall, round, bulbous Root, from which

arife Three or Four long, narrow, grafly, Leaves of a deep green, and fmooth: Between thefe the* Flowerftalk comes out, which rifes a Foot and a half high, is very (lender and (tiff, having no Leaves on the Side, and is terminated by a clofe Spike of white Flowers, each having a permanent Spatha or Sheath, which covers the Seed-veffel after the Flower is fallen. The Flowers are compofed of Six oval Petals, which are equal in Size and Situation, as is reprefented at e; thefe have Three fhort Stamina, which are terminated by fmall roundifli Summits; and from the Germen arifes a fingle Style, the Length of the Stamina, fupporting a trifid Stigma. The Germen afterwards becomes a fmall roundifli Capfule with Three Cells, each containing Two or Three fmall round Seeds. This Sort flowers the latter End of May, and the Seeds ripen in July> foon after which the Stalks decay to the Root.

Thefe Plants grow naturally at the Cape of Good Ktyeofrom whence I received their Seeds, with many other Sorts, fome of which have flowered in the Chelfea Garden, where there are many different Kinds which will (hew their Flowers this Scafon; fo that we may expe£t a great Variety of diffined Species among them: And as very few of thefe Plants have been mentioned by any of the Writers on Botany, fo 5, we have exhibited a greater Number of Species here, than we fhould otherwife have done, had the Plants been more known in Europe; and it is much to be wondered, that they have not been long introduced into the European Gardens, fince they are in fo great Plenty at the Cape of Good Hope, as to be eaten as Food.









P LA T E CLVIL

LACTUCA, Lin. Gen. Plant. 814. Tourn. Inji. R. H. 473. Tab. 267. Chondrilla, C.B. P. 130. Raii Meth. Plant. 29. Lettuce \ in French, Laitue.

H1S Genus of Plants is ranged in the Firft Seftion of Linn<usia Nineteenth Clefs, intituled, Syngenefia Polygamia JEqualis in which Clafs and Sedtion he includes thofe Plants which have compound Flowers, ipade up of hermaphrodite Florets, which are fruitful. Tourncfort places it in the Firft Section of his Thirteenth Clafs, which includes the Herbs with a flofculous Flower, whofe Seeds have Down. Mr. Ray places it in the Firft Section of his Sixth Clafs, which includes the Herbs with a compound Flower, whofe Rays are plain, and the Plants have a milky Juice.

The Characters of this Genus are exhibited in the Gardeners Dictionary.

The Specie here represented is,

LACTUCA foliis linearibus dentato-pinnatis; laciniis furfum dentatis Lin. Hcrt. Cliff. 384. Lettuce with narrow Leaves indented like winged Leaves, whofe upper Segments are indented. This is the Lattuca perennis humilior, fiorecceruleo Tourn. Inji. R. H.4.J3. Low perennial Lettuce with a blue Flower! Cafpar Bauhin titles it Chondrilla carulea alter a Cichorii Jylvejlris folio Pin. ijp. Another blue Gum-Cicory, with a Leaf like the wild Cicory,

This Plant grows naturally in Aufiria, France, and Italy \ and is here frequently preferred in Gardens for the fake^of Variety. It hath a perennial Root composed of many long fleshy Fibres, which abound with a milky Juice. These spread pretty far in the Ground, and frequently put out Plants at some Distance •, so that it is frequently propagated by these Suckers. From the Root arise /;veral strong Stalks, which divide, towards the Top,Hnfo several Branches. The Leaves, which are near the Root, are Nine or Ten Inches long; and have Six or Seven deep Jags almost to the Midrib, whereby

they have foirie Rcfembi-nce to winged Leaves. Thefe Jags are indented, on their upper Side into acute Points* The Leaves are fhorter which grow upon the Stalks, and have fewer Jags; and those immediately below the Flower-Stalks are almost intire. The Flowers are produced at the Top of the Staljts, (landing upon (lender branching Footftalks: Some of thefe fuftain Two, others Three, and fome Four Flowers. Thefe Flowers have a fcalyEmpalement reprefented at a -, the lower Scales are fhortj the other are oblong, and end in acute Points. This common Empalement includes feveral Florets, or hermaphrodite Flowers, marked $b \setminus$ the Border or Rays which are placed circularly round the Difk, are plain* ending in obtufe Points, as is fhewn at/; thefe are of a d^cp Purple or blue Colour. The Middle, or Difk, represented at d, is composed of long tubulous Flowers, which are cut into Five Parts at the Top •, each of thefe Florets has a Germen fituated at the Bottom of the Tub£, reprefented at e, which is crowned with a Down, as is (hewn at/; This Germen afterwards becomes the Seed; and the feathery Down, which is fitui^L on the Top, difperfes the Seeds, when ripe, to a confiderable Diftance. The -Florets which compofe the Border or Ray, are also hermaphrodite \ these have a Germen fituated at their Bottom, as is reprefented at $h\$ but as the Tube of thefe Rays is fhort, fo the Down fits immediately on the Top" of the Embfyo or Germen; and the Stile, with the forked reflexed Stigma, rifes confiderably higher, as is flewn at g; whereas in those Florets which compofe the Difk, the Down is fituated near the Top of the Tube.

This Plant flowers in *June* and *July*, and the Seeds ripen in *September*, which are foon difperfed by the Wind, when they are ripe •, for the Down which before was clofely united, now is expanded to its full Length; and the Tube of the Flower which covered the Organs of Generation, now fhrinks and falls down, fo as to leave the Seeds naked, by which every Gale of Wind carries them off as they are ripened, and the Down will fapport the Seeds in the Air, till they are difperfed to a •confiderable Diftance from the Plants.

P L A T E CLVIII.

T. CHURK, Raii Melh?Plants 63. Melijfa Tottrn. Inji. R> H. 183. Tab. 91, Melittis Lin. Gen. Plant. 650. Dead Nettle,

HIS Genus of Plants is ranged in the Fifth Section of Mr. Ray's Fourteenth Clafs, which includes is the Herbs whofe Leaves and Flowers grow in Whorles round the Stalks. Tournefort places'this Plant under his Genus of MeliJfa^ or Baum; but as the Flowers of Baum grow in Bunches fuftained by a common Footafilk, and those of this Plant arise fingle from the Joints the Stalks, it should not be put under that Genus. Dostor Linnaeus has constituted a new Genus for this Plant, to which he gives the Title of Melitis. but the Characters which he exhibits of that Genus, do by no means agree to those of this Plant; therefore it may be doubted, if he knows this \ for he mentions it as a native \ \text{NUI.}

Plant in England, Germany, and other Places, where it was never feen, except in Gardens; nor is it often to be found in them; fo that I believe he never faw it: For \ this Plant cxadUy agrees with all his Characters of Lamium* except that of the upper Lip being intire in Lamium> and in this it is indented in Three Parts,

The Sort here exhibited is,

LAMIUM montanum Melijfa folio, C. B. \ Mountain Dead Nettle with a Baum Leaf. Tournejort titles it, Melijfa humilis, latifolia, tnaximo jlore purpurafcente Inji. *A. R. II. 192. Low broad-leaved Baum with a large purplifti Flower. John Bauhin titles it, Melijfa adulterina quorundam, amplis foliis & Jloribus non grati odoris, Hijt. vol. ii, p. 233. This is the Melijfa Tragi Hijl. 11. and the Melijfa Fucbfii Lob. Icon.

E e This

ThisPlanthafhaperennial Root, and an annual Stalk. The Root is composed of thick ftrong Heads, which fend out a great Number of Fibres, which extend to a confiderable Diftance every Way: From thefe Heads arife, in the Spring, a Number of Stalks, in proportion to the Size of the Roots -, for if the Roots are large and ftrong, they will fend out Eight or Ten Stalks j but fmall Roots have feldom more than Two or Three. Thefe Stalks arc ftrong, fquare, and rife a Foot and Halfhigh, growing upright, and never branch: Thefe are garniihed at sach Joint with Two heart-fhaped Leaves placed oppofite, which are Four Inches long, and near Three Inches broad in the wideft Part, rerminacim; with an acute Point: Thefe are deeply fawed on their Edges, and their upper Surface is very much veined, of a dark green Colour, and ftand upon long Footftalk; which have a deep Channel on their upper Side. Clofe to die Bafe of the Footftalks come out the Flowers, (landing in Wiiorles cloie to the Stalks at every Joint, where the Stalks are of a deep purple Colour. The Empalemen: of the Flower is of One Leaf; the lower Part is tubulous, and a little recurved; the upper Part fpreads open, and the Style arifing between them; and and is divided into Five acute Parts: The upper Parts the Four Seeds taken out of the Empaieplaced oppofite, which are Four Inches long, and near and is divided into Five acute Parts: The u merit Hands erect; those oi each Side fit d Tube of the Flower; the Two lower Segment rfiexfd. The Flower is of the Kind which Doftor titles riugtnt, or grinning, fiom die upper Part Oduur as the com me:

of the Flower refembling the Chaps of Animals. It hath but One Petal: The k tubulous, • tubulous, • tifes above the Empalement; then it is fwelled out greatly at the Chaps, and is divided into Two Lips; the upper Lip rife -above the Jower, and is arched at the Top, as is reprefented at a; this Is flighily ind in Th::

Extremity, and is covered fide, as at b; the Four Stamina h are ii!"o arched, and terminal

The lower 1.; ot repmfnts the Four Seeds taken out of the Empaie-

. Tlui Plant flowers in April and May, and the Seeds ripen in July. The Leaves and EJowers have the fame

LAPPA, Toufit. Inji. R.H. 450. Tab. 256. Raii Meib. Plant. 41. ArMium Lin. Gin. riant. \$30. Burdock; in French, Berdane cu Gkutenn.

HIS Genus of Plants is ranged in the Second Seftion of Teuntef^-f's Twelfth Clafs, which includes the Herbs with a fiofculous Flower, whole Seeds have a Down adhering to them. Mr. Ray places it in theFirft Section of his Ninth Ctafs, which contains the Herbs with compound Flowers collected into Heads, Doctor *Unn,ms* ranges it in the First SoSlion of hrteenth Clafs, intituled, Syngtnefia Polyxsmia A,-. The Plants of this Clafs and Section have their Flowers composedofall hermaphrodite Florets which

The Characters of this Genus are exhibited ii Gardeners DiSontvn-, under the Article of Aretium.

The Species here repreftnted are,

LAr'i"A major tnoxtmsa, capital:! tomsnlqfis. Jive Ar\$Hut:t Di&fcoridii C.B. P. 198, Greater Mountain Burdock with woolly Heads, or the Aretium of Dieftmdes. This is the Aretium foliis ccrdalis imrntibm., cspitulis major-bus ttmcr.tc-rcticiihtu ofThe Gardenas Difltoiiary; i. e. Burdock, with heart-lhaped Leaves without Spines, and larger Heads which have downy Net-work.

Doftor Linitaiti has given but One Specie of the common Burdock, by which it appears that he fuppofcs but One diftinft Sort i but I have cukivat which have always retained their Difference Twenty Ye'rs; fo I have enumerated them as !b mar diftinft Species in the Gardentrs DiUienary. Th. alfo a woolly-heat: id Bttri&ck which grows naturally in England, but is very different from this which is here reprefented; The Heads of that are fmaller, rounder, and not fo woolly as this. That I fuppofe to be only a Variety of the common fmall-headed Burdock; ac lead the Sreds which 1 fowed in the Garden produced Plants of both Sorts: But I have cultivated this Sort above

• v Years, during which Time I never have Sj:r:id

This Plant is bi-most the Plans which arifi from Seed, do not flower til. : Year; and -. have perfed :eds, the Root'do Leaves of this Plant a :s: They are of : 1 On their there are then and to 'hy, rounded on men une. Side, but are the second of the control of the pure of the control of the contr l.eaves wh; and between thefe come out the near Four! Pith within, covered with a channelled Bark

Thefe are;; of the Shape wi but irc much ring.

The J growing ih loole Clufl of thi is finely km wxi, as is thewn at a and h. is flewn a: a; and h. -.
placed all over it: Th

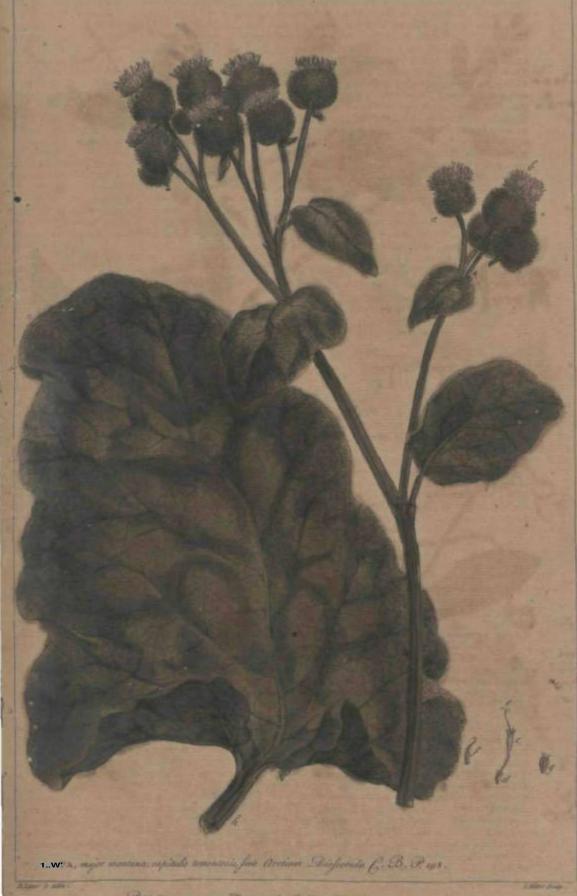
Number of hermaphrodite Florets oi a purj represented at b; aire enlarged upward, ; of which is fituated t!v is crowned ivii !i fnurt I of the Garmon

ma, reprefented at e-, thil W ^ ^ H y i Oior: St. :,ina, which are fituated witL::! &x Tulr.; c!ii Germen afterward becomes an oval-cornered bted,

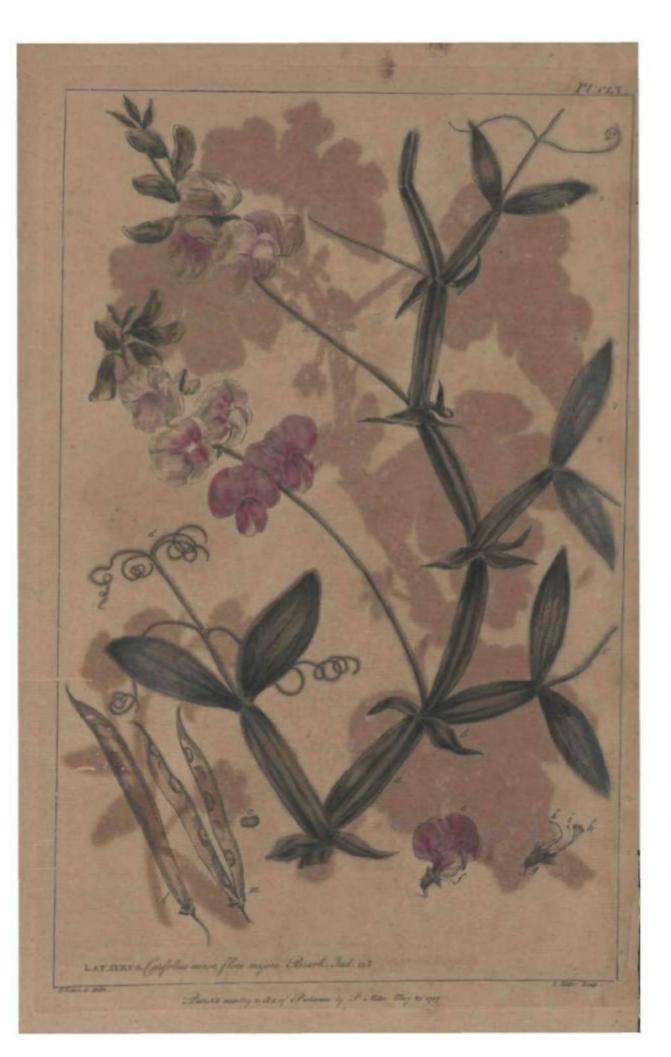
d witii a fhort Down, as is reprefented tig.
""WBM¹?'"-'^ anl ocilC Seeds ripen in Scptembtr;
after whilsiSne Root decays: But if the Seeds :tre permitted to featter, the Plants will come up the following Spring, and thnve withcin any Care.

PLATZ

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Descring to be of the same of the line . by \$5.00.

LATH vans, Tcum. Inji. R. H. 394., Tab. 217. Rail Mctb. Plant. 10^. Lin, Cm. Flam. 781. Chichling or Everlafting Pea; in French, Gtifc.

Genus of Plants is ranged in the Second J Section of rWajfafe, Tenth Clals, which includes he Herbs with a papilionaceous flower, whufj Point.il urns into a long unicapfdar Pod. Mr. Ray places it n the Firll Section of his Twenty-firft Clafs, in which he ranges the Herbs with a papilionaceous Flower, which are not trifoliate, having fingle Pods, not jointed. Doctor Linnarxs ranges it in the Third Seftion of his teventeenth Chfs, intituled, DiaddphiaTiecandria. The Flowers of this Clafi and Seftion have Ten Stamina, Nine of winch are joined, and One ftantls firtgle: To which Genus lie has joined the *Apbata* and *Cfytm-sum* ot *Twrnifvrt*, and the *Nijjolia*.

TI.e Chi'.rafters of this Genus are exhibited in The lardsners jD

The Specie here reprele.-itcd is,

.ATHYKV- ki nor, fiert majort Baerb. Ind. Alt. 2. 58. Smaller fc 1 Chichling or Everlafting .'ea wir!

This pirticui; Source and members by any other , Author than Doctor Boerbaave; fo that many have fupaccidental Variety from the rommune accidental variety from the ro • m Seeds, continue the fame with the Patent l'Unt; (b that I am certain of its (being a diffinft So; t; for I have fown the Seeds of the common Sort, and of another which approaches near SSeeds, reprtfented at n. to the common, ibvcral Times, and have never found them vary. The common

Side: Fran the Crown of the Roots arife feveral trailing herbaceous Stalks, which grow about Three Feet high, dividing into fiveral Branches: Thefe have Two J leafy Wings or Membranes which run along the Stalks betweei the John-, as is fliewn >t a, and are connected with Two membranaccous L/.nivs. whichj^ome out on h is much larger her, both ending h arc $KJ \bullet b$; Juft above thele Tv iges; thefe luv-; fpejr-maped Leaves, between Ctafijer or Tendril, marked c, which is turn poled of Two Pair of Tein-fenced at d, which fatten themfelves to . mr-* ing Prop, whertby their Branches arc falling'to the Ground. On the oppofice Side F the Flowers, which ii about Nine Incl. Parts t-f which MI: naked; but they are eerminited I loofe Spike or Thyrfc of Flo

:ftalk s thefe are^WR^®iitt rfiyor^JHj
conliiting of a larg , ...-!, calleX
:efented at e, which is of a beaurii';.! Itd Colour, and of the Kee! which is repreterted at /, which Wof a whitifh Colour, and Two red Wings which jyin on e;;ch Side the Keet > thefe are fixed in a (hort ijtnenapivided into F"ive acute Part?, as is reprefrrired at g -, thi- Nine Stamina which coalsfce, are fhewn :ab; and the lingle one which ftands apart, at/; the oblong Uermen is fituated in the Bottom of the Fiower, fupports a (ingle Style, crowned by an oblong Stigma, is flown at k: The Germen afterward becomes a long Pod, reprefented at /, which opens with Two Valvesj [hewn at m, attaining One Row of Kidney-fhajjed •

This Plant flowers the latter End of Jim; and if the salor; is not very warttit it will continue till the End of and the Seeds ripen in September \ When thefe eirrbis dipbyllis, falielis W^^^^Kf''' *- arc properly difpofid in a Garden, and th:ir Hurt. Cliff. 367. Chichling with many Flowers on a *eanches are fupported by Stakes they make a very Tootfalk, aTwo-leravi r-lhaped Li fgood Appearance during and Membrane* running between the Joints.

This Plant hath a ti they will injure the Plant or Ft)Mr Feet into the Ground, not feveral ilrong Fibres, which extend the roti every fgood Appearance during the they are a Flower but if their Branches are

i L A v A T E B Hen. 1 j-66. Gen. ATMT. 10.

HIS is one of the malvaceous Tube, which, ac cording '.. the Sixth Section^H ,-hich includes the Herbs with .1 bej lower of On;; 1 .i-af, from the Bottom of whole Tube ariies a Pdntil, which bet a Fruit with many Capfules. Ddfior *Limucus* ranges it in *the* Thi Sixterneh ClaTs, intituled, del\$iffiityattdriiq^Bv\awers having many Sta-(nina, which adhere to rne Style, and together form a fort of Column.

The Species here reprefented ate)

Fig. 1. LAVATERA foSis quinqmiffiaiis birfu/ii, tank •treito frutkofa, Lavatera whole Leaves have Five "Lobes 3|d are hairy, with an upright rtirubby Stalk.

Plant grows naturally from whence the Seeds i at *Amfterdmn*, where they Seeds, Part of which Sturm, who has tlv

. ith a. flirubby Stalk to fflit fending out many Side-bran dies,

d vetb large hairy Leaves, di d vetb large hairy Leaves, di
re indented on th: i
;;re r,f a lively <
d 3«HRte, Handing upon f
Stalks are covered with a bro M^^
the Flowers come out fitigly from thtas is reprefented at c; tlic^flHl
the outer is compofed of ^I/HLeaf, cut at
liree Parts -, the inner is of OIH- Leaf, cut liito Five
Parts at the Top : both thefe are permanent. The Parts at the Top; both thefe are permanent. The Flower ii compoied of Five or Six heart-iliapfd Petals, which are joined at their Bale, reprdemed $u \in A$ thefe are of a recldifa purple Colour, and it the Central states the Column, flown at e_y in which the Organs of Generation are joined into one Body: After the Flower is paft, the Germen becomes a compreffed Five-cornered Fruit, reprefented at l, having Five Capfules, each containing. One kidney-flaped Seed, reprefented at l. This Genujpiffers of l and l the outer Empalement, being cut only l Three Parts, whereas that of l althae is cut ir l and the Seeds of l avatera have a Cover befr l, but those of l are open like the

Fig. 2. LAVATERA foliis glabris, caule fcabro herbaceo, fiori & k later alibus fedunculis longijfmis. Lavatera with fmcKh Leaves, a rough Stalk which is herbaceous, and Flowers growing from the Side of the Stalks on very long Footftalks. This is the Lavatera Africana fore pulcherrimo Boerh. Ind. Ah. i. African Lavatera with a most beautiful Flower.

This is an annual Plant, which rifes with an herbaceous branching Stalk, about Two Feet high, garnifhed

with One Leaf or each link. The lower Laures are roundifh-, and those which are placed a little higher, have an Angle on each Side; but the upper Leaves are Ibaped like the Point of an Halbert, and have Ihort Footftalks; whereas those on the lower Part are vefy long and (lender. They are fmooth, and of a light greeny the Flowers ftand upon very long Footftalks, which come out from the Wings of the Leaves; fometimes Two arife from the fame Joint* but in general there is only One. The outer Empalement of the Flower is fhort, angular, and flightly cut into Thr'je Parts; the inner rifes above this and is pointed, being cut into Five acute S^ments. The Flower is for the moft part composed of Five large heart-fhaped Jpetals, which air joined at their Bafe, and fall off together j fo the Flower is termed Monopetalous, or of One Petal. It is of a beautiful Rofe Colour with a purple Bottom, from which are fpread a few purple Streaks, as is reprefented at a: After the Flower is paft, the double Empalement becomes the Fruit marked b, composed of many Cells, in which the Seeds are placed, as is reprefented at f, where tjie Cover is taken off to fhew how they are ranged.

- ty

PLATE CLXII.

LEONILJRUS, Town. Inft. R. H. 187. Tab. 87. RailMeth. Plant. 64. Phlomis Lin. Gen. 642. Lions-tail j in French, Queue de Lion.

HIS Genus of Plants is ranged in the Second Seftion of Tournefort's Fourth Clafs, which includes the Herb with a Lip-Flower of One Leaf, whofe upper Lip is hollow, like a Spoon. Mr. Ray places it in the Fifth Se&ion of his Fourteenth Clafs, in which he joins the Plants whofe Flowers grow in Whorles from the Wings of the Leaves. Doctor Linnaus has joined the Plants of this Genus to those of Phlomis, and h&s given the Title of Leonurus to the Cardiaca; but if he had joined the Leonurus to the Cardiaca, their Characters agree bettafetfaan those of

The Speck here reprefented is,

Fig. 1. LEONUR US minor, Capitis Bomfikei vulgo Boerb. Ind. alt. 1 So. Smaller Lions-tail of the Cape of Good Hope. This is probably the Leonurus Americanus, Nepet < e folio, fore phxnicio minore, Breyn. Prod. 2. i.e. American Lions-tail with a Catmint Leaf, and a imaller fcarlet Flower. But this Plant is not annual, nor was it brought from America •, fo that it doth not igree with that Title; yet by the Defcription given of it, this Plant is undoubtedly what they meant; for Breynius\ 1V? ... — given from a dried Specimen, and .ving Plant; fo he might be eafily not from t. deceived; eipecially as he received"it by the following Title: Cardwica Americana annua Nepet* folio^ fioribus brr::b:i~ pfojeniceis H. L. i. e. Annual American Motherh a Catmint Leaf, and a ftiort fear-Flower.

This Plant rifes with a fquare ligneous Stalk about
Feet high, dividing into (hort Branches, which
Tifhed with ftiort crenated Leaves, reprefented at
•arance of thofe of Catmint;
tiiele arc plucea opponce, and at the Bafe of the Footftalk arife Two fmall Branches let with very fmall
Leave Shape. Throwers grow in Whdrles
round the 5ra;k, as is reprefented at£, fitting very clofe
without any Footftalks s the upper Lip of the Flower is
ftretched out to a great Length, and is fet with Hairs
on the Infido, as is reprefented at c \ the lower Lip is
very fhort, and is divided into Three Parts, as is fhewn
at d \ the Four Stamina are reprefented at e; Two of
which are a Jitde Ihorter than the other. Between thefe

arife the Style, marked./; an^i ^ flews the upper Lip turned back, reprefenting the hollow Spoon-fhape: The Four-cornered Empalement is reprefented at h and l, and k flews the Four Seeds which fucceed each Flower-This Plant flowers in Q\$&ber and November, when it makes a fine Appearance in the Greenhoufe.

Fig. 2. JLJGUSTRUM, Tourn. Jnft. R*H.,596. Tab* %6j. Lin. Gen. Plant. 18. Privet -, in French, Troene.

Totirnefort ranges this Genus of Plants in the First. Section of his Twentieth Clafs, which includes the Trees and Shrubs with a Flower of One Petal, whose Pointal turns to a fost Fruit with hard Seeds. Doctor Linneus ranges it in the First Section of his Second Clafs, intituled, Diandria Monogyyiia, from the Flower having Two Stamina and One Style.

The Specie here reprefented is,

LIGUSTRUM, J. B. 1. 52S. Common Privet. This is the Liguftrum Germanicum C.: B. P. 475., German

Privet

This Shrub 'grows very common in the Hedges in moft Parts of England; but being placed as a medicinal

most Parts of *England*; but being placed as a medicinal Plant in the Dispensary, we have exhibited a Figure of it. This rises with many shrubby Stalks to the Height of Twelve or Fourteen Feet, dividing into ieveral Branches which are garnished by narrow Leaves placed opposite; the Flowers are produced in Panicles at the End of the Branches, as is represented at $a \setminus One$ of these taken from the Bunch is represented at b, and the Two Stamina are shewn at $c \setminus the Four-cornered Empalement is shewn at <math>d$, and the fame reversed at $e \cdot the first Appearance of the Fruit at <math>d \cdot the four-cornered Empalement is shewn at <math>d \cdot the four-cornered Empalement is she$

This Shrub flowers in *June*, and the Berries ripen in the Autumn. As the Flowers of this are of a pure white,* and the Berries are black when ripe, there is little Reafon to doubt, that *Virgil* alluded to the Flowers and the Berries of this Plant in this Line,

Alba Ligufira cadunt, vaccinia nigra leguntur -, rather than fuppofe he alluded to the Flowers of one, and * the Berries of another •, for the Berries of the *Privet* were formerly ufed in *Italy* for making of Ink^ and alfo for dying.



Peters ways as of the way of the time they so yet.





$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E} \ \mathsf{GLXIII}.$

EILAC, Town. Inft. R. H. 601. Ran Meth. Plant. 158. I Syringa, Lin. t^en. PL 22. The Lilac.

\ The Chafa&ers of this Genus are exhibited in the gardeners DiW v rj.

Tb S" jes nere reprefented are, -4 ++<*

rejaturalepurpureo, Tourn, Inft. R. H. 602. Li-LIL A :h a deep purple Flower. This is titled in the lac gue of the Edinburgh Garden^ Syringa feu Li-Ca lac ? faturate' purpureo. Pipe-Tree or Lilac, with a d purple Flower. As this is the First Book in this particular Sort is mentioned, fo it has obht Name of Scotch Lilac_% that Garden being the fii⁴ in which it was here known. Doctor Linand in an winder it was nere known. Doctor Lin-men he supported the White, the company Blue, and the liberty be at Que Subject and has given it too tollowing Tries; private Junio Bondetis, that, Cliff, 6. Blue, Touristand Junio Bondetis, that, Pipe-Tree with oval Heart-lhaped Leaves. Thefe Three approach very near each other in their effential Characters, yet their Seeds do conftantly produce the fame Sort, for which Reafon I chufe to mention this as a diftind Speties from the other.

This Shrub hath a ftrong woody Stem, which divides into many Branches, at afmall Diftance from the Root, and thofe Branches do fubdivide again into fmaller Branches; thefe generally grow ereft, fo as to form a pyramid, like many Sorts of Pear-trees, and in good Ground, where the Shrubs are permitted to ftand, they

will rife to the Height of Twenty Feet or upward: The Branches are very fubjeft to fpik where the Shrubs are expofed much to ftrong Winds, but efpecially in Summer when they are cloathed with Leaves, which being pretty large, the Wind has great Force againft them. Thefe Leaves pulh out early in the Spring -, and the Shoots of the fame Spring are terminated by the Bunches of Flowers, fo that the whole. Shoot is made in Jefs than Three Weeks •, and the Buds for the next Year are formed by Midfummer, which grow to be large before the Leaves fall off in the Autumn. The Leaves are placed oppofiteon the Branches, having (lender Footftalks; they are Heart-fhaped, fmooth, and end in acute Points. The Shoots and Leaves of this Sort are of a dark Green, inclining to Purple, by which the Plants may be diftinguiflbed when they are deftitute of Flowers The Flowers of this are placed much clofer together in the Bunches than those of the other blue Sort, and their Colour being brighter, renders this Sort much more

a Reprefents the lhort Empalement of the Flower, which is of One Leaf, divided at the Top into Four Parts, b (hews the Petal of the Flower, whin hath a long (lender Tube, and is cut at the Top into Four Parts, which fpread open-, c (hews the Petalfreverfed, and d the Tube of the Flower drawn out of the Empalement, leaving the Two Stamina, e is a Flower cut open longitudinally to fhew the Pofition of the Two Stamina-, /reprefents the Seed-veflel intire;^ (hews it as it opens on the Side, for the Top and Bottom remain joined after the Seeds are feattered -, h reprefents a Seed-veffel cut through horizontally, to fhew the Two Cells in which the Seeds are lodged; and hews One of the winged Seeds taken out of the Pod.

This flowers in May^{\wedge} at which Time there are few Shrubs which equal k for Beauty. The fine green Leaves being intermixed with the large Bunches of Flowers, renders it very pidturefque; and the Flowers having a very agreeable Odour, makes it worthy of Cultivation in every good Garden.

PLATE CLXIV.

LILAC, fourn Inft. R. H.601. RaiiMetb. 158. Syringa, Lin. Gen. Plant. 22. The Lilac or Perfian Jafmine.

Fig. 1 E Plants which are here reprefented being of the fame Genus with that in the former Plate, I ihall not trouble the Reader with a Repetition of the gaffes in which they are ranged in the different Syftems { Botany,

*->. 1. LILAC ligujirifolio_y Tourn. Injl. R. H. 602. Lifac with a Privet Leaf. This is the Jafminum Per/Icum foliis non lacmatis Hort. Edinb. and the Syringa foliislknceolatis inikris. Hort. Cliff. 6. Pipe-tree, with entire Spear-fhapea Leaves.

This Shrub grows naturally in *Perjia*, and was introuced to the *EngBJh* Gardens about 140 Years paft •, but now become one of the moft common flowering >rubs which is cultivated for Sale in the Nurferies. NUMB. XXVIII.

This was generally known in the Gardens by the Title of *Perfian Jafmine*, which was applied to it by *Sutherland*, in his Catalogue *of the Edinburgh* Garden: And to this Day it paffes, among the Generality of Gardeners, jun-#der that Appellation. Some indeed calf it the *Perfian LilaCy* to diftinguish it from the common *Lilac*.

The Stems of this Shrub are woody, covered with a brown Bark, and are fmooth; the Branches are long, (lender, and frequently bend downward if they are not fupported. Thefe feldom rife above Six or Seven Fe'rt high, and are garni(hed with fmall Spear-lhaped Leaves about Two Inches and an half long, and Three-fourths of an Inch broad, ending in acute Points; they are placed oppofite on the Branches, and have Footftalks. The Flowers are produced in loofe Bunches at the End of the Branches, which are fmaller than thofe of: he common Lilac; they are of a pale purple Colour, and have a very agreeable Odour: Thefe appear in $May_{\%}$ foon after the common Sort, and continue longer in

F f

Beauty,

Eeauty. a, Reprefents the Empalement of the Flower; b, flews a firgle Flower expanded, cut into Four Parts at the Brim •, c, is a Flower cut open longitudinally, to fhew the Situation of the Two Stamina •, and d, reprefents a Flower drawn out of the Empalement, with the Two Stamina left, which were hid in the Tube of the Slower; e, (hews an entire Seed-vefiel; /, the fame, opening lengthways, g, one cut horizontally to flew the Cells •, and h, one of the Seeds.

Fig. 2. LILAC laciniatofolio^Tourn. Inft. R. H. 602. Lilac, with a cut Leaf. This is the Agent Lilac Per/arum, Corn. 189. Perfian Lilac, or Agem of th'Perfians. Cafpar Bauhin calls it Liguftrum foliis laciniatis, Pin. ^476 •, and Doctor Linnaeus titles it Syringa foliis lanceolatis integris dijjeftifque laciniata, Hort. Cliff. 6. But in his Species of Plants he fuppofes this to be only a Variety of the former, though there are fuch Differences between them, as, 1 think, are fully fufficient to

make them diftin6l Species. For the Leaves of this Sort, which are intire, are of the oval Spear-fhape, and do not run out to acute Points, as in the former: The Leaves come out in Clutters from the Joints; the Branches are weaker, and have a darker coloured Bark; the Flowers are finialler, and have a deeper Colour, as is reprefented in the Figure; to which we muft add, that moft of the Leaves are cut into Three, Five, or Seven Segments, almost to the mid Rib.

This Sort was introduced to the Gardens before the other, but on its first Arrival did not flower for fome Years, whicj^occafioned the Title of *Liguitrum* being applied to it, tute Leaves of this having a Refemblance to those of Privet. But afterward it became hardy, arid produced it's Flowers in plenty every Year, and is cultivated with as little Trouble as any of the common flowering Shrubs which are propagated for Sale in the Nur-

Surviva Buther it is

LILIUM, Tourn. Inft. R. H. 369. Tab. 195 &? 196. Rait Meth. Plant, 118, Lin. Gen. Plant. 371. Lily; in French. Lis.

HIS Genus of Plants is ranged in the Fourth Se&ion of Tourneforfs Ninth Clafs, which includes the Herbs with a Lily Flower of Six Petals, whofe Pointal becomes a Fruit. Mr. Ray places it in the Third Se&ion of his Twenty-third Clafs, which contains the flowering Grafs-leaved Plants, whose Flowers have Six Petals. Doftor Linnaus ranges it in the Firft Seftion of his Sixth Clafs, which includes thofe Plants whofe Flowers have Six Stamina and one Style.

The Char afters of this Genus are exhibited in the Gaydenm Dillucts.

The Species here reprefented are,

Fig. V. LILIUM foliis verticillatis brevibus corollis campa-LiJy with very fhort Leaves growing in WfiorJes 0Hround the Stalks, Bell-fhaped Petals, whofe Bafesare very narrow, and ereft Flowers.

The Root of this Flower was fent me by Mr. John Bartram from Philadelphia, who found the Plant growing naturally in that Country. This hath a fmall white fcaly Root, from which comes out a fingle upright Stalk, which rifes about a Foot and a Quarter high, having Four or Fives Whorles of (hort obtufe Leaves placed at Dlftanccs round the Stalk. This is terminated by Two blowers v hich ftand ereft upon fliort diftindt Footftalks; they*are of the Bell Ihape, the Petals (landingereft, which' are very narrow at their Bafe, but widen in the Middle, and terminated in acute Points, as is flewn at a. They are of a very bright purple Colour, and are marked with many dark Purple Spots towards their Bafe, as is reprefented at b. In the Center of the Flower arifes the Style and Six Stamina, as is fhewn at c: The Stamina are not equal in Length, as reprefented at d, and are terminated by oblong Summits, as may be feen at e. In the Center

of the Flower is fituated a Three-cornered Germen, reprefented at g, fupporting a fingle Style which is longer than the Stamina, crowned by a globular Stigma, which is flewn at/. This flowers in July, but produces no Seeds in this ∢Coun≰nc r

Fig. 2. LILIUM fol/is fparjis fubulatis, Jloribus reflexis, corollis revolutis, Hort. Cliff. 120. Lily with Awl-fhaped Leaves growing without Order, and re *Hexed* Flowers whofe Petals turn back. This is the Lilium Byzantinum 1 miniatum^ C. B. P. 78. Carmine Lily of byzantium% commonly called Scarlet Mart agon.

This hath a pretty large yellow feaiy Root, from¹ which arifes an upright Stalk near Three Feet high, garniihed with long narrow Leaves, which are placed Iparfedly all round the Stalk; they are almost triangular, having a Ridge on their under Side running longitudinally, where the Leaves are much thicker than on nulatis, unguibus petalorum anguftioribus, fioribus ereftis. their Sides. They are of a deep green, and terminate ip acute Points. The upper Part of the Stalk divides intt Four or Five Footllalks, each fuftaining a fingle FJower which is reflexed downward, the Bale or Tub-bein^ contra&ed; but the upper Part is divided, and the Pe^ tals are rolled backward, as is reprefented at a. Thtfe are of a fine carmine Colour, and have a few fmall darkcoloured Spots fcattered over them. Out of the Center of the Flower arifes the Six Stamina, with their Suni* mits joined to the Style, as is fnewn at b; thefe are teii-. J minated by oblong rifing Summits, as is reprefenced at *; c; and at d, is flewn the Germen, which rarely fwells in this Country.

This Sort flowers in July, and when the Seafon is not very warm, the Flowers will continue a coniiderable Time in Beauty. It is pretty common in the Englijb Gardens at prefent, where the Roots are propagated ix Sale; but the first Sort is very rare in England xxr the are not any of the Roots here, but those which hav been fent by the above-mentioned Mr. Bartram froi Penfylvania.



PI CZXVI



Farlivana, Maw. <>nw'n' mw «v*»^1(me for floring, public string, labor more purposes Ty a 2 Nove and policy apartings classes, folio daran landicis units melles come fificiarie.

Bother working in said Hallower by F. Miller Jane 1949.

LINARIA, TW//. Injl. R. H. 168. Tab. ?6. Raii Meth. Plant, 90. Antirrhinum* Lin. Gen. Plant. 668. Toadflax b in French, Linaire.

AHI Scraus of learn is ranged in the Fourth cludes the Herbs with a-tubulous, anomalous, perfonated Flower of One Petal. Mr. Ray places it in the Second Section of his Nineteenth Clafs, which contains the Herbs with a Jabiated Flower, having Spurs or Heels. Dodor Linnaus has joined this Genus to the Antirrhinum₉ in which I think, he has erred; for as there are feveral Species on each Genus, fo when there is fuch a diftinguifhin|*Character as that of the Flowers of the Linaria having a Spu: or Heel, which is not in thdfeof the Antirrhinum, they fliould be kept under their former Titles to avoid Confusion. He places this Genus in the Second Seftion of his Fourteenth Clafs, which includes the *lants whofe Flowers' ^veTwolongandTwofhorter StaLnina; and the Seeds are contained in Capfules.

The Species here reprefented are,

Fig. 1. JLINARIA Hifpanica procumbenSy foliis uncialibus glauciso flore flavefcente pulchre Jlriato labits nigro purpureis, AfttReg, Lond. ij. Trailing Spanijh Toad-flax with glaucous Leaves an Inch long, yellow Flowers beautifully ft 'ped, and a black-purple Lip. This is. 'he Linaria trt, xis Hifpanica Hort. Elth. 201. Mournful Spanijh Toa 1-flax. Doftor Linnaeus titles this AnneSlari.s fubulatis of loribus fubfejjilibus of Hort. Cliff. 498. Snapdragon with Spear-fhaped Leaves placed fparfedly, the lower being oppofite, an Awl-fhaped Ne<5tarium, and Flowers fitting clofe to the Stalks.

* This Plant grows naturally on the Rocks about Gibraltar₉ from whence the late Sir Charles Wager brought the Seeds, which were fown in his Garden at 'ParJons Green, ntzxFulham9 where they fucceeded, and many of the curious Gardens were furnished from thence with the Plants. The Root is perennial, fending out many fucculent Stalks, moil of which trail on the Ground, but those from the Center do often rife Nine or Ten Inches high •, they are garnifhed with fhort fucculent Leaves, about an Inch long and One-fifth of an Inch broad, of a Sea-green Colour; the Flowers are produced at the End of the Branches, thefe have a long Heel or Spur, reprefented at a_9 of a darkifh yellow Colour, with fome purple Lines; the lower Lip of the Thower, marked \hat{b}_9 is of a dark Purple, and the upper Jp, reprefented at c_9 is of the fame yellow Colour as the Heel, and marked with dark Lines in the fame manner: This Plant flowers in June andja/y, but doth not produce Seeds in England.

ng. 2. luinvMyTourn. Injl. R.H. 339. Tab. 176. Raii Meth. Plant. 112. Lin. Gen. Plant. 349. Flax; in 'j French, Lin.

- ""V.s Genus of Plants is ranged in the First Sedlion of Tourneforfs Eighth Clafs, which includes the Herbs with a Clove Gillyflower Flower, whofe Pointal becomes JL Fruit, Mr. Ray ranges ic in the Second Se&ion of his Twenty-fecond Clafs, which contains the Plants whofe Flowers are regular and have Five Leaves, and whofe Leaves are placed alternate upon the Stalks. Linnaus places it in the Fifth Seftion of his Fifth Clafs, which includes the Plants whofe Flowers have Five Stamina* and Five Styles*

The Species here reprefented is,

LINUM calycibus capfulifqiie obtufis9 foliis alternis lanceolatis9 acutiS) caulibus ramojijfimis. Flax with obtufe Empalements and Capfules, Spear-fhaped acute Leaves placed alternate, and very branching Stalks, commonly called Siberian Flax. This is probably the Li num calycibus capfulijque obtufis9 foliis alternis lanceolatis integerrimis, Lin. Sp. Plant. 277. Flax with obtufe Empalements and Capfules, and intire Spear fhaped Leaves placed alternate, but the T3octor has added a Synonima of M&riffon to it, by which he makes it the fame with our English Perennial, from which it differs in having very branching Stalks, longer and broader Leaves, larger Flowers, and the Seed vefTcls are much larger and more obtufe. Thefe Differences are permanent when the Two Sorts are cultivated on the fame Soil and in the fame Situation, therefore 1 conclude they are fpecifically different.

This hath a perennial Root, which will abide feveral Years, fending out many Stalks in proportion to the Size of the Roots: Thefe in a rich moid Soil, will tirrhinum foliis lanceolatis sparsis •, inferioribus cppositis9 grow from Four to Five Feet high, but in very middling Ground will be Three Feet high -, they are ftrong, and divide upward into many Branches; thefe are garnifhed with narrow Spear-fhaped Leaves placed alternate •, they are little more than One Inch long, and Oneeighth of an Inch broad, of a deep green Colour, ending in acute Points. The Flowers are produced toward the End of the Branches, coming out from the jSide of the Stalk, having pretty long Footftalks; thefcare compofed of Five large roundifh Petals, markecJ *z, wkich A. are of a fine blue Colour; in the Center of the Flower are fituated Five Stamina and Five Styles, which are reprefented at b q the Petals of the Flower are a little indented at the Brim, as is flevvn at $c \setminus$ and at d; the Reverfe of the Flower is reprefented to fhew the Empalement: e_9 flows the Five Stamina terminated by round Summits; g_9 reprefents the Capfule intire; h_9 the fame cut transverfly to flew the Ten Cells; i9 the fame opened lengthways; k9 One of the Cells Separated from the Capfule; and /, is One of the Seeds taken out of the Capfule. • This Plant flowers in June and July and the Seeds ripen in Auguil and September.

> As this hath a perennial Root, fo it may be well worth cultivating for Ufe, because it comes fo much earlier in the Seafon than the annual Sort which is generally cultivated in England, which is a great Advantage, for the Autumns frequently prove fo wet, as to render it difficult to get the late Crops of Flax properly houfed. Befides the Produce of this Sort is much greater than of the other, and although the Threads of this are not fo fine, yet for the common Purpofes it is full as good, and the Threads are ftronger, therefore may be of great Service to the Public, if it is cultivated in Quantities_fufficient for Ufe.

P

LONICERA, Lin. Gen. Plant. 210. Chamacerafus^ Tourn. Inji. R. H. 609. Tab. 379. Rait Meth. Plant. 145. Upright, or Fly-Honeyfuckle.

HIS Genus of Plants is ranged in the Firft Section of Linnaus's Fifth Clafs, which includes those Plants whofe Flowers have Five Stamina, and but One To this Genus Do£tor Linnxus has added the 'Caprifolium, Periclymenum and Xylojleum of Tournefort, ana die Sympboricarpos "of Dillenius; but from the Structure of their Flowers and Fruits, fome of thefe fhould be kept feparate. Tournefort places it in the Sixth Seftion of his Twentieth Clafs, which contains the Tress and \Shrubs with a Flower of One Petal, whose Empalement turns ro a Berry. Mr. Ray places it among the Trees which bear umbilicated Berries having feveral Seeds.

The Chara&ers of this Genus are exhibited in the Gardeners Dictionary.

The Species here reprefented are,

Fig. 1. LONICERApeduncults bifloris, baccis diJlinClis^foliis integerrimis pubefcentibusy Prod. Leyd. 238. Lonicera with Two Flowers on each Footftalk, diftinfl Berries, and intire Leaves, which are woolly. This is the Chamacerafus dumdorum fruftu gemino rubro, C. B. P. 451. Dwarf Cherry with a double red Fruit, commonly called the Fly Honeyfuckle. John Bauhin titles it Periclymenum reSlum^fruffu rubro, Hiji. 2. p. 206. Upright Honeyfuckle, with red Fruit.

This grows naturally upon the Alps, and in Woods in many of the cold Parts of Europe, but has been long cultivated, as a flowering Shrub, in the Nurfery Gardens. It rifes with a thick woody Stalk to the Height of Five or Six Feet, and divides into many Branches, which have a fmooth Bark, and are garnifhed with oval Leaves which are intire; they are of a pale Green, and are covered with foft Down, thefe are placed oppofite, having fhert Footftalks. The Flowers come out on each Side the Branches upon flender Footftalks, each fuftaining Two Flowers, as is reprefented at a; thefe have but One Petal, which is divided into Two Lips. In the

Center of the Flower are fituated Two Germina, marked b, having a fhort Style, which is attended by Five Stamina, reprefented at c; thefe are terminated by oblon* Summi^, which are fbewn at e: Both thefe Flowers are clofely joined at their Bafe, as is reprefented at d. The Two Germina afterward are turned to Two Berries marked e_i which when ripe are red. It flowers in Mayand the Berries ripen in August

Fig-2. LoN 1 cERAj>ed'unculis biflons, baccis coadunatis didymis, Lin. Sp. Plemt. 174. Lonicera with Two Flow* ers upon a Footftalk, and Two Berries/ which are joined. This is *\\tCham<ecerafus Alpha, frufiu rubro gemino, duobus punflis notato, C. B. P. 451. Dwari Cherry of the Alps, with twin red Fruit marked with Two Points, commonly called Red-berried Upright Honeyfuckle.

This rifes with an upright woody Stalk about Four Feet high, fending out many Branches, which grov, ereft, and are garnifhed with oval Spear-fhaped Leaves Three Inches long, and an Inch and half broad, ending ir acute Points. They are of a dark Green, and are placed by Pairs opposite, ftandingupon fhort Footstalks: The productive d on the Side of the Branches, landers. The Footftalks arise on each side of the branches, from the Wings of the Leaves; they are Two Inches **4**7... long, but very flender. The Flowers have but One Petal, which is divided into Two Lips, as is reprefented at a; they are of a purple Colour: The upper Lip is indented at the Brim, but the lower Lip is intire. In the Center arife the Five Stamina, which are terminated by oblong purple Summits. When the Flowers first appear they ftand ere<5t and are closed, as is flewn at c_9 where the Backfide of the Flowers are reprefented, but afterward they open and lhew the Stamina. After the Flowers decay, the twin Germina, marked \checkmark , turn to Two red Berries, which are joined together. This flowers about the fame Time with the former, and the Seeds ripen in the Autumn. It grows naturally on the Alps* but is propagated for Sate in the Nurfery Gardens as a flowering Shrub.

E CLXVIII

LOTUS, Lin. Gen. Plant. 803. Tourn. Inft. R. H. 402. Rail Metb. Plant. 108. Birdsfoot Trefoil j in French, hotter.

THIS Genus of Plants is ranged in the Third Seftion of Linn < em\ Seventeenth Clafs, which includes those Plants whose Flowers are of the Butterfly Kind, and have Ten Stamina, Nine of which are joined, and One (lands feparate. Tournefort places it in the Fourth Se&ion of his Tenth Clafs, which contains the Herbs with a Butterfly Flower, which are three-leaved. It is ranged in the Second Section of Mr. Rafs Twentyfirft Clafs, which includes the leguminous Plants which are three-leaved.

The Characters of this Genus are exhibited in the Gardeners Dictionary.

The Secies here reprefented is,

Us HnearibuS) Lin. Sp. Plant. 775. Birdsfoot Trefoil, with Pods growing by Threes, an upright herbaceous Stalk and very narrow Leaves. This is the Lotus angujtifolia, flore luteo purpurafcente, ex InfulafanRi Jacobi, Hcrt. Amft. 2. D. 165. Narrow-leaved Birdsfoot Trefoil from the Ifland of Saint James, with a purple yellow Flower,

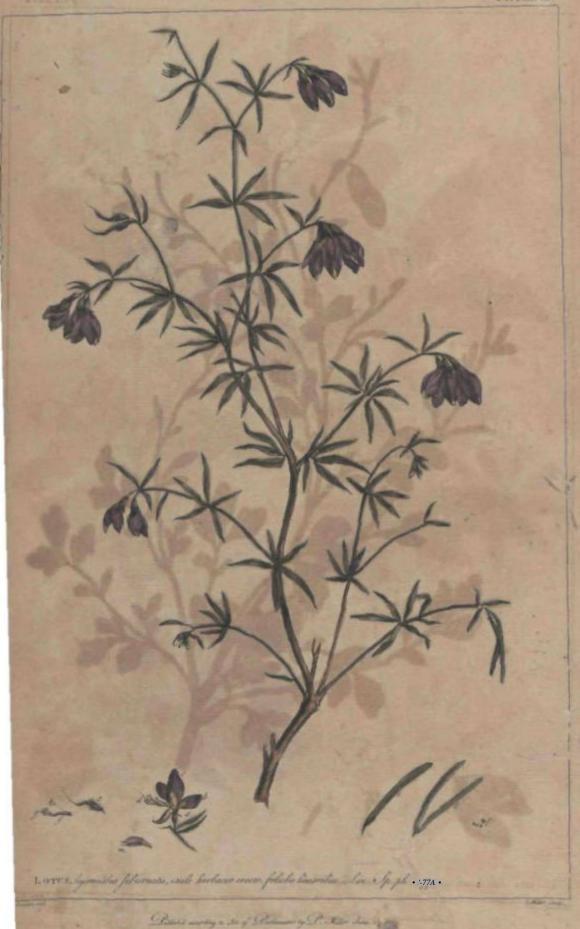
This hath a flender ligneous Stalk, which divides into many flender Branches, which are herbaceous; thefe rife noar Three Feet high, and are garnifhed with very narrow Leaves, which are fometimes by Threes, but generally Five upon each Footftalk. They are of a pale to Green, inclining to a hoary Colour, and fit very clare to the Branches. The Flowers are produced at the End of the Branches by Two, Three, or Four in each Clufter: They are of the Butterfly or Pea Bloom Kind, having Four Petals. The lower, which is marked a, is the Keel (Carina); the Two Side Petals, marked b, are the Wings $(AU) \setminus$ and the upper Petal, marked c, is the Standa?d (Vexillum). In the Center of the Flower is fituated the Stamina and Style, which are included in the Keel; thefe are reprefented at d. The Style rifes from the narrow oblong Germen, marked e> fituate within the Empalement, but is reprefented at /, where it is feparaced from it, and the Nine Stamina which are joined, arc reprefented at £, with the fingle One ftanding feparate, LOTUS leguminibus fubternatis $^{\circ}$ caule herbaceo eredo, folio- marked b. The Germen afterwards turns to a (lender Pod, marked /, which opens with Two Valves, as is reprefented at k, containing One Row of fmafi Seeds marked /.

> This Plant, when properly managed, continues flowering almost through the Year, and will produce Plenty of good Seeds.



Buss way a say Premi y P doe In 17.712







$\mathbf{P} \quad \mathbf{L} \quad \mathbf{A}' \quad \mathbf{T} \quad \mathbf{E} \qquad \mathbf{CLXIX}.$

LUNARIA,' Tourn. Inft. R. H. 218. Tab. 105. Rait Metb. 95. Cardamine, Lin. Gen. Plant. 727; Moonwort, Honefty, or White Sattin. In French, Lunaire or Bulbonac.

HLS Genus of Plants is ranged in the Third

1 Se&ion of Tournefor*s Fifth Clafs of Plants,
JL *which includes the Herbs with a Crofs-fhape
io- hofe Pointat turns to a Fruit, with Two Pavalv-2s, divided by an intermediate Partition Mr.

.:ay places it in the Firft Seftion of his Twentieth Clafs,
/hich contains the Plants whofe Flowers have Four
Petals, and are Tucceeded by Pods with Two Cells,
divided by a membranaceous Partition. Do&or Linnans ranges it in the Second Section of his Fifteenth
Clafs, which includes thofe Plants whofe Flowers have
Four lon£ and Two Shorter Stamina, and are fucceeded
by Pods. The Characters of this Genus ^are exhibited
in the Gardeners Dictionary.

The Species here reprefented is,

LUNARIA, foliisfupradecompofitis, foliolis trifidis, filiqiiis cblongis penduliSy Moonwort or Honefty, with decompounded Leaves, whofe Lobes or fmall Leaves are trifid, and oblong hanging Pods. This is the - Cardamine foliis fupradecompofitis, filiqiiis unilocularibus fendulis. Lin. Sp. Plant. 656. Ladies Smock, with decompounded Leaves and hanging Pods with One Cell.'

This is an annual Plant which grows naturally in £. gypt, from whence the Seeds were brought a few Years fince to the Royal Garden at Paris. This rifes with a fmooth branching Stalk about Fifteen Inches high, garnifhed with winged Leaves, reprefentedattf. Thefeare composed of feveral Pairs of Lobes set along the Midrib, and terminated by an odd one. Thefe Lobes are of different Sizes; fome are almost intire, but the greater Part of them are cut at their Extremity into Three Parts, as is flewn at $b \setminus$ they are fmooth and of 3. lucid Green. The Flowers are produced from the Side of the Stalks, and also at End of the Branches, each ftanding upon a fhort feparate Footftalk •, thefe have an Empalement: of Four Leaves, which clofely embrace the Petals, reprefented at c, which falls off with the Petals. Flowers are composed of Four roundish Petals, indented at the Top, reprefented at d; thefe are of a purple Colour, and fpread open above the Empalement. In the Tube of the Flower is firua-ed an oblong Germen, as is flewn at e. upon which are fixed the Four long Stamina marked/-, and below thefe the Two (horter marked £. In the Middle of thefe is (ituated a (lender Style, crowned by an erect narrow Stigma. When the Flowers fall away, the Germen becomes an oblong compreffed Pod which hangs downward, and is firft Green; ' but, when ripe, turns to a feuille-mort Colour, opening with Two Valves, as is reprefented at h and $i \cdot$, in which are lodged Three or Four roundish compreffed Seeds, fattened to the Side of the Pod. This Plant flowers ir. June and July, and the Seeds ripen in September and the Plants foon after periih*

P L A T E CLXX.

LUPINUS, Tourn. Inji. R.H. 392. Tab. 213.- Rait Metb. Plant. JQ4. Lift. Gen. Plant. 774. Lupine, in French, ALupin.

THIS Genus of Plant is ranged in the Second Section of Tournef or t's Tenth Cla^f Plants, which includes the Herbs with-a Butterfly*Flower, whose Pointal becomes a long Pod with One Cell. Mr. Ray places it in the Second Sestion of his Twenty-first Clafs, in which he ranges the Plants with a Pea Biosibm and handed Leaves, which do not climb. Dodtor Unnaus ranges it the Third Sestion of his Seventeenth Clafs, in which he includes the Plants whose Flowers have the Stamina joined in Two Bodies. The Characters of this Genus are! exhibited in the Gardeners Diffionary.

Thz Species here reprefented at Fig. 1. is, *

FIN us, radice reptatrice perenni, Prod. Leyd. 53 T. apine, with a perennial creeping Root. This is the *Lupinus *ccendeis minor ferennis, Virginianus repens, Mor. Hift. 2. p. 87. Seff. 2. Tab, 7, / 6. Small, blue, perennial-, creeping Lupine of Virginia. Dodtor Linnaus titles it, *Lupinus > calycibus alternis inappendiadatis, labio fitperiore emarginato* inferiore integro, Lin. Sp. Plant. 721. Lupine, with alternate Empalements, having no Appendices, and the upper Lip indented, NUMB. XXIX.

but the under intire. In the Flora Virgir.ica it is titled, Lupinus, calycibus alternis^ radicepzrenni repente > 172. Lupine, with alternate Empalements, and a perennial creeping Root,

This Plant grows naturally in Virginia, and other¹ Parts of North America, from whence the Seeds were*^ brought to Europe. It hath a perennial Root which run\$ ^ very deep into the Ground, and fpreads to a great Dif¹ tanceeach Way. The Stalks rifeaFoot and a Half h^h, which are garni fhedwith Hand-fhaped Leaves, compofed of feveral fmall Leaves (or Lobes) arifing from One Center, from Five to Ten in Number; thefe are oblong, and rounded at their Ends. They are fuftained by long Footflalks which come out by Pairs oppofite and are of a pale Green. The Flowers terminate the Stalks in long Spikes; they are placed on every Side" the Stalks, fometimes by Pairs •, at other times Three or Four Flowers come out at the fame Joint. They are of a pale blue Colour, and fhaped like the Flower of Peafe as is rf presented at a •, which (hews the Front of a finc^I Flower feparated from the Spike, b reprefents ?h' roundifh Heart-fliaped Standard, whose Sides are reflet ed, and the End is indent W^SThcTwo Wings, which a almost as long, a* thjsi ^ndard, are (hewn 'at c and*!? The Sickle-fliapsd Kjk\ is r^prffented at $e \cdot$, which is f parkted from the Two Wiugs^to which it hjoined in their natural Pofition. In the Keel are fituated the Stamina, with their Style, as is reprefented at /. Nine of thefe Stamina, with their Summits, are joined in One Body, as is (hewn at g\ and One Staftiina ftands feparate, as at h. The Germen, which is fituated in the Emp^letpenr, fupporting a flender Style, is reprefented at l; this afterward turns to a flat oblong Pod, with the Style at the Point, as is fhewn at k. Thefe Pods, when ripe, twift up in Two Valves, as at l; and caft out the reundiih compreffed Seeds, tharked m, with an Elafticity. This Plant flowers in June, and the Seeds ripen in August.

Fig. 2. LYCHNIS, Tourn. Infl.R.H. 333. Tab. 175. Raii Metb. Plant. T09. Lin. Gen. Plant. 22. 517. Catchfly, or Campion.

This Genus of Plants is ranged in the Firft Se&ion of Tournefort's Eighth Clafs of Plants, which includes the Herbs and Under-fhrubs with a Clove Giilifiower Flower, whofe Pointal becomes the Fruit. Mr. Ray places it in the Firft Se&ion of his Twenty fecond Clafs, which contains the Plants with Flowers of Five Petals, whofe Seeds are inclofed in a Capiule. Doctor Linnaus ranges it in the Firft Section of his Tenth Ciafs, which includes the Plants whofe Flowers have Ten Stamina and Five Styles.

The Characters of this Genus are exhibited in the Gardeners Diftionary.

The Plant here reprefented is,

In the Signature of the Signature of the Flower cut into Segments.

In the Signature of the Signature of the Flower cut into Segments.

The Leaves of this Plant are oblong, narrow, and blunt-pointed, and come out ill Clutters, formed into feparate Heads, which fit near the Ground; from the Center of which arifes an upright Stalk about Nine Inches high, garnifhed with Leaves like thofe below, but fmaller and are more pointed; thefe are placed oppofite. The upper Part *&Oz Stalk branche° out into fmaller Fobtftalks; fomeorthefefuftainTwo, and others but One Flower; thefe have Empalements, which are tubu'ous, and cut into Five acute Points at the Top, as is reprefented at a. They have feveral longitudinal Stripes running through them; the Flower is double, fo has none of the Parts of Generation; butinftead of thefe, a Multiplicity of Petals, as is reprefented at b. Thefe Petals are deeply cut into feveral Parts, as is (hewn at c and d\ they are of a bright purple Colour, and continue long in Beauty. This Plant was brought from Portugal; but from what Species of fingle Lychnis this double one was produced is hard to determine, for we have not any one in the English Gardens which will agree with this. It is a perennial Root, and flowers at different Seafons of the Year. I was favoured with this Plant by John Brownings Efq; of Lincoln Inn.

P L A T E CLXXI.

LYCIUM, Lin. Gen. Plant. 232. Jafminoides, Nijfol. Att. R. Par. 1711. Rbamnus, C. £, P. 477. Boxthorn,

THIS Genus of Plants is rangod in the Firft Section of Linn < eus *\$ Fifth Clafs of Plants, which includes those Plants whose Flowers have Five Stamina and Ong Style. These Plants have by some been ranged un ter the Genus of Rhamnus; but Nijfol of Montpelier constituted a Genus by the Title of Jasminoides, under which he ranged them. But Do&or Linnaeus has applied the Title of Lycium to this Genus, and has properly exhibited the Chara&ers.

The Species here reprefented are,

Fig. 1. LYCIUM foliis lineari longioribus, tubo florum longiori, fegmentis obțiifis. Boxthorn with longer narrower Leaves, and a longer Tube to the Flower, with obtufe Segments. This is the Lycium foliis lineafibus, Hort. Cliff. §y. Boxthorn with very narrow Leaves. Boerhaave titles it Rbamnus afer fpinis lonps, corticealbo, fruftu cccruleo, Ind. Alt. 2. p. 212. African Rhamnus with long Spines, white Bark, and a blue Fruit. Nijfol calls it Jafminoides Africanum, J a/mini aculeati foliis & facie, A51. Reg. Par. ijn. Baftard African Jafmine with the Leaves and Appearance of prickly Jafmine.

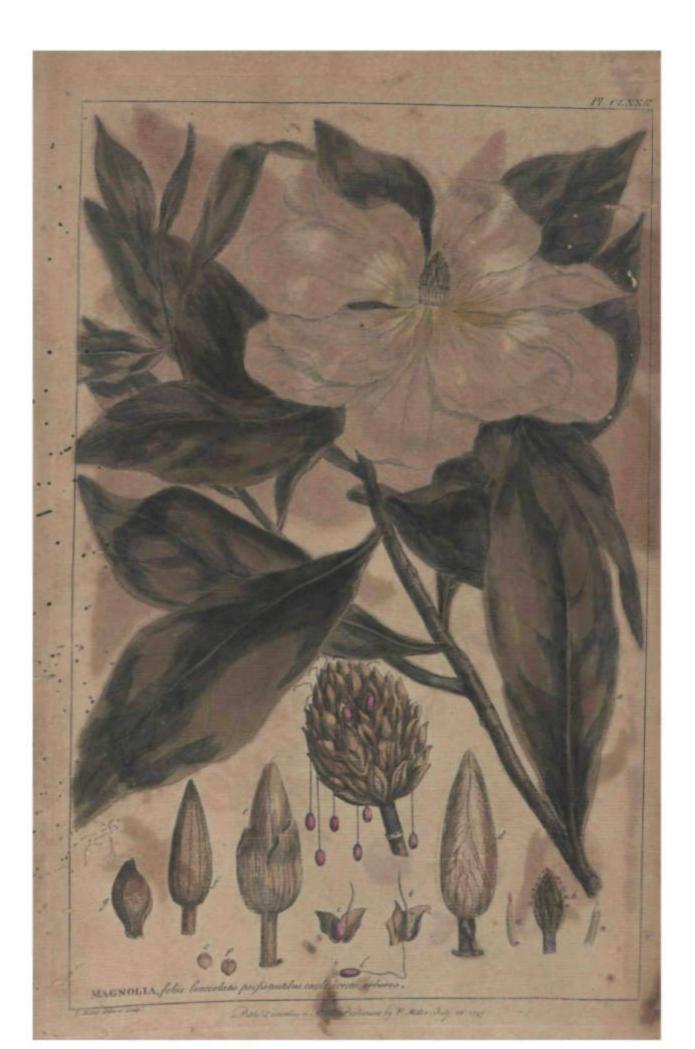
This Plant grows naturally at the Cape of Good Hope, and also in Portugal, from whence I have received the Seeds. It rifes with a shrubby irregular Stalk to the Height of Ten or Twelve Feet, fending out several ligneous Branches, which have a white Bark, and are armed with longsharp Thorns, upon which growsfmall Clusters of long narrow Leave; Some of these Thorns put out One or Two smaller -tro. The Titheir Side, which have Leaves fet on them in the tame Manner as the la;0-er. The Flowers are produced from the Side of the Branches, standing upon short Fcotstalks; they have a

fliort permanent Empalement of One Leaf/which is cut into Five acute Segments at the Top. The Flowers have a long Tube, which is cut into Five obtufe Sco-r ments at the Brim, a is reprefented at a; and b flows One of the Flowers cut open longitudinally, which dif-Covers the Situation of the Stamina with their Summits: Three of Which are left in their natural Pofition, and Two are taken out, as is reprefented at cc. The Germen at the Bottom of the Tube, with the Style arifing from it, is flewn at d d. The Empalement, which inclofes the Germen, is reprefented at e\ and the bifid Stigma upon the Top of the Style is fhewri at/ The Germen atterward becomes a roundifh Berry, marked^,11 which is cut transversiy at b, shewing the Position of the Seeds \bullet , and at i the outer Cover is taken off, whereby the Seeds are flewn lyir.g round an oval Placenta. k reprefents the Seeds of their natural Size, and / One of them magnified. This Plant continues flowering moft Part of Summer, and the Seeds ripen in Autumn!

Fig, 2. LYCIUM foliis Uneari~brevioribus,tubofiorumbreviori, fegmentis ovalibus patentijfimus. Boxthorn with fhorter narrow Leaves, a fhorter Tube to the Flower, and the Segments at the Brim oval, and fpread quite open.

This Sort was raifed in the Chelfea Garden a few Years Paft, from Seeds which came from the Cape of Good Hope. It is of humbler Growth than the Firft •, the Leaves ani fhorter and a little broader; the Spines are garnifhed with Bunches of Leaves in the fame Manner. The Flowers are fmaller, have fhorter Tubes, and their Brim cut deeper into oval Segments; the Fruit is alfo much fmaller; but in other Refpefts they approach near ro each other. This Sort flowers great Part of Summer, and the Fruit ripens in Autumn. All the Plants which have been raifed from the Seeds of this do continue the fame without any Alteration; and there is a Third Sort, with narrower Leaves, very near a-kin to thefe.





P L A T E CLXXII.

GNOLIA, *Plum.Nov.Gen.*38.tab.7.Hort.Elth. 168. in. Gen.Plant. 610. The Laurel-leaved Tulip-tree.

F *"IJSIS Genu^ of Plants is ranged in the Seventh ^JL Se&ion of Lin?i<eus*\$ Thirteenth Clafs, which inc ides those Plants whole Flowers have many Stamina ai:. Styles. "»

T e Characters of this Genus are exhibited in the Gave ners Diltiorary.

^ The Species .here reprefented is,

MAGNOLIA foliis lanceolath perfiftentibiis, cattle tretto Arboreo. Magnolia with evergreen Spear-fhaped Lea^jg*, and an upright Tree-ftalk. This is the Magnolia altijjima, flore ingenti candido, Catefb. Carol. 2.p. 6,1. Talleft Maş lolia with a very white Flower.

This Tree grey s naturally in South Carolina and George, where it :ifes with an upright Trunk to the Heigtft of Seventy or Eighty Feet, dividing into many spreading tranches, fo as to form a large Head. The (Branches are garniflied with large Spear-fhaped Leaves, wtecMfe Nine oWTen Inches long, and Three Inches broad in the Middle -, they are of a thick Confiftence, and a little waved on their Edges, ending in acute Points'; and are placed without Order on every Side the Branches, to which they fit clofe, having no Footftalks, as is reprefented at a. Thefe Leaves continue Green lirough the Year, and only fall off as the Branches exrend in Lengtl, and new Leaves are produced. The ^Flowers are produced at the End of the Branches; fchefe are compoled ot Eight or Ten Petals, reprefented at b; 'i ch arc narrow at their Bafe, but broad at their Ex^rttity, jiiere they are rounded and a little waved; ltheyjbrgaeTopen very wide, and are of a fine white Cojfourin the Center of the Flower are fituated the numerous Stamina, with the feveral Styles, fattened to One cdrhmon Receptacle, as is reprefented at c. The Bud K^{C} the $^{\ }$ | ?wer₃ diverted of its Empalement., is flown at

d, just before it expands, and e reprefents it with the Empalement \$ / is the fame at its first Appearance, when included in the Empalement. g is a Part of the Empalement taken off from the Flower; h exhibits a View of the Germen with the Styles, which are recurved; 7 (hews One of the Cells opened, with the Seed in its natural Pofition; k reprefents the lame, with the Seed difebarged, hanging out by a (lender Filament as at l; m and n reprefent the Scales of the Fruit, 0 and pthe Two Kernels of the Seeds, and q the whole Fruit with the ripe Seeds hanging out; which is reprefented fmaller than Nature, to bear a Proportion to the Size of the Leaves and Flowers, which are too large to be contained of their natural Size in the Compass of this Ptate. This Tree flowers with us in July, but in its native Country there is a Succeflion of Flowers for Two or Three Months.

This Tree is one of the greateft Ornaments to the Woods in its native Place of Growth; and if it can by Time be brought fo hardy as to refift the Cold of our Winters in England, will be the fineft Ornament in the Englijh Gardens; for its noble ever-green Leaves make a fine Appearance in every Seafon of the Year; and when the Trees are covered with large Flowers in Summer, there is fcarce any Tree of equal Beauty. There are at prefent feveral Trees in the English Gardens, which have for fome Years paft produced Flowers; the First of these is in the Garden of Sir John Collelon, Bart, in Devonjhire; there is another in the Garden of Mr. Chriftopher Gray, Nurfery-man, near Fulham; and there was Ohe a few Years fince in the Garden of Sir Charles Wager 1 at Parfons Green, which flowered feveral Years: But there are fome of thefe Trees in the Garden of his Grace the Duke of Richmond at Goodwood, in Suffix, which thrive better than any 1 have yet feen, and have produced Flowers fome Years. But our Seafons are not warm enough to bring the Fruit to Maturity; fo that we can never hope to fee the Trees adorned witn them* which is a great Beauty to them in their native SojL

P L A T E CLXXIII.

M*NDR*GORA> four*. Inft. fi. H. 76- tab. 12. Rait

'Meth. 74. Lin. Gen. Plant. I21. Mandrake, in trench,
Mandragore.

HF^HIS Genus of Plants is ranged in the First
\ . Sestion oitournefort's First Class, which includes
Herbs with a Bell-shaped Flower of One Leas,
one Pointal turns to a soft thick Fruit. Mr. Ray
Places it in his Seventeenth Class, which contains those
Plants whi^a bear Berries, and are thinly placed. Doctor Linrueus ranges it in the First Seaion of his Fisth
Class, in which those Plants are contained whole tlowers have Five Stamina and One^Style,

The Species here r'pwfented are,

ANDRAGORA, Hort. Cliff. 57, Mandrake. This is the MarJragora fruffu rotundo>C. B. P. 169. Mandrake with a ound Fruit. John Bauhin titles it, Mandragora mas, Hijl. 3. 617. Male Mandrake.

There are fome other Varieties of this Plant enumerated in Books, but I have not as yet feen any other than is here reprefented. Doftor *JJnnaus* fuppofes them to be but One Species, and herein I believe he is right; for the Diftinftioris which are made are chiefly in the Colour of their Flower or Fruit, and the Size of their Leaves, which may be only accidental; that Sort, with pale blue Flowers, is titled, *Mandragora foemina9* by *John Bauhin* •, but for what Reafon I cannot fay, for both thefe produce Fruit equally.

This Plant grows naturally in *Spain, Italy-*, and the Iflandsof *the Archipelago*. It hath a thick, flefhy, taper Root, which runs deep in the Ground, fending out a great Clufter of long, rough, gi*een Leaves, which at firft ftand ereft, but after a little Time fpread near die Ground, as is reprefented at b. In the Middle of thefe come out feveral Bell-fhaped Flowers, cut into Five Parts, as is reprefented at a; thefe rife each with a long. Footftalk immediately from the Crown of the Rot)t; they have an Empalement which it deeply divided into

five

five Segments, as is fhewn at c. The Petal of the Flower is a! fo cut into Five Parts, as at $d\Lambda$ and in the Center are Five Stamina, reprefented at e, fituated at the Bafe of the Petal. At the Bottom is fituated a round Germen, which afterward turns to a large, round, flefliy Fruir, fitting in the Empalement of the Flower, as is reprefented ac /-, this is first green, but when ripe changes to a ydlowifh Colour. AfhewsOne of the Fruit cut tranfVerfiy, wherein the Seeds are reprefented in their natural Position; and h flows One of the Kidney-fhaped Seeds taken out of the Fruit. This Plant flowers the Beginning of April, and the Seeds ripen in July.

The Roots of thefe Plants are of long Duration: I have known fome of them above Fifty Years, which were feveral Years old before 1 was acquainted with them, and thefe are vet very vigorous, 1 have traced

Two or Three of these Pnnsc in the GroZd, in a more aconsider Thicknds: 1L which k but of few Years the St. L. The S low, fo has no Reterence of the shape been reported. For those IW as fuch by cumping It is which have been the white I tells have been brooght to that Shape by ;alide as are in'ed by the [mage-crok. re-Roots of Bridly, fallening them well togeth at a as the Rous entreals in Size, fo they are comprehen by the Form deligned: And are then taken. about by Meonghanks, to impule on the credulous.

MEADIA, Cat eft. Carol. App. 2. Tab. x. Dodecatheon^ Lin. Gen. Plant. 183.

HIS Genus is ranged in the First Section of hnnam's Fifth Clais, which includes those Plants «hofe 1'lowers have Five Stamina and One Style, It

We know but One Species of this Genus; viz.

MEADIA, Cat'AW. Card. App. x-rdb. i. Meadia. T.«s is titled by Doftor Plukenet, Auricula Urfi Virgtmana floribus boraginis inftar rojiratis, Cyclaminum more_refiexu? Aim 62. Tab. 79. f. 6. Bears-ear of Virginia, with a Flower having a Beak like Borase and are reflexed like the Cyclamen or Sowbread.

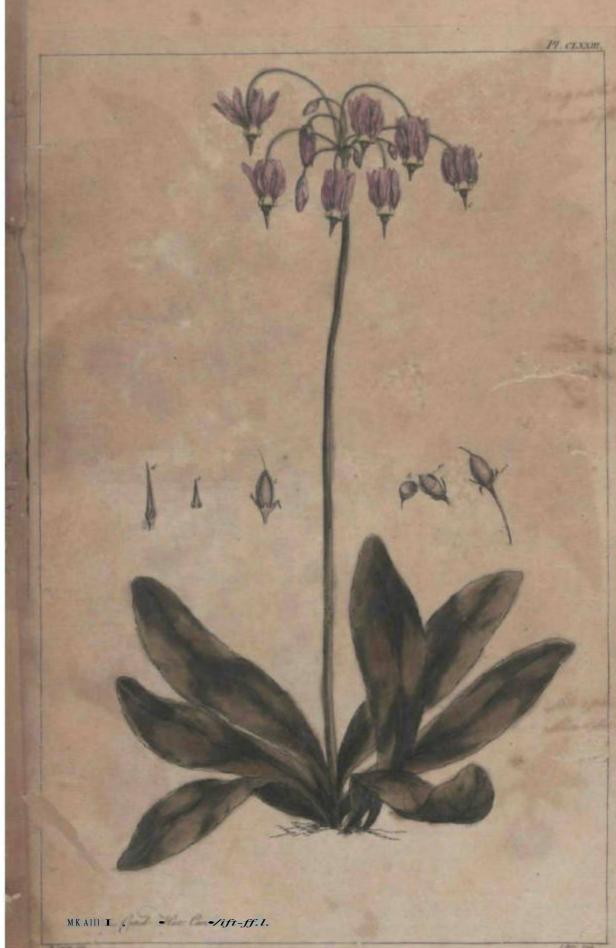
It hath a perennial Root, which puts out feveral lon^ frnooth, green Leaves in the Spring, as arereprefentS at a. From between thefe arife One, Two, Three, or

Four spright Stalks, in Proportion to the Size of the Recor; thefe rife Light or Mice Inches high, are naked Smooth, and remainsted by a Chaffer of Flowers, each having a premy lo g Cem'er Foothaik, which are recurved, to that the Flowers hang downward. The whose I lowers have Five Stamma and One Style, had the Title of Meadia applied to it by Mr. Mark Cctefiy.Y. R.S. in Honour of Dodor A/^who was a pnerous Encourager of every useful Branch of Science; but, being himself no great Botanist, Doftor Linnxus would not allow any Plant to bear his Name, fo would not allow any Plant to bear his Name, fo has fen tedil in a form a Sort of A which equivalently which is deeply custom I in a writing the property of the second of the property of Flower has One Puest, which is desply out into Five

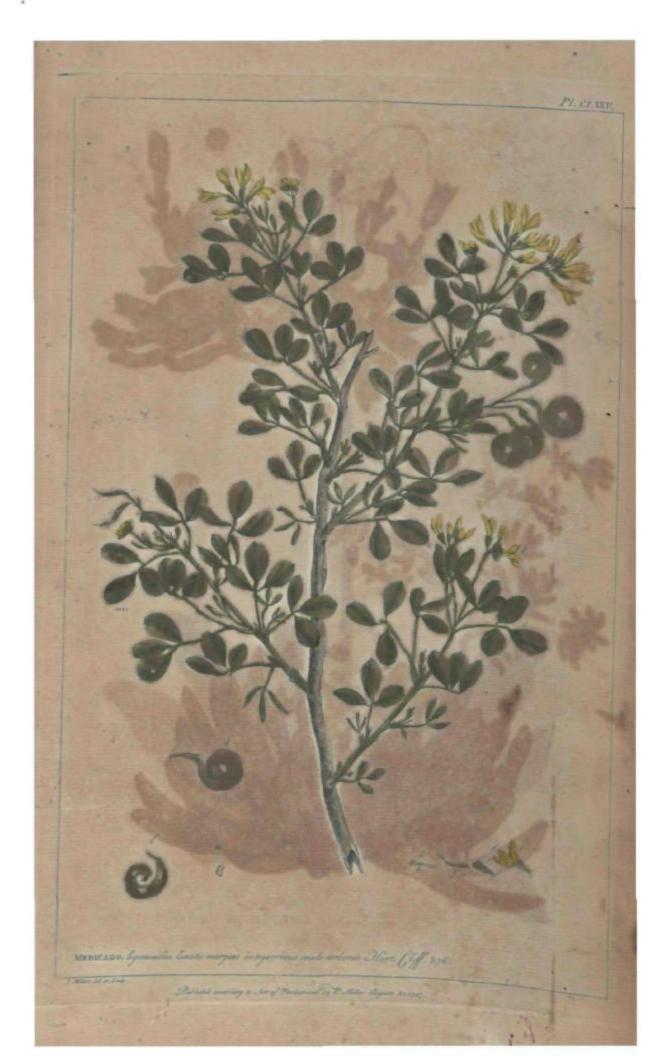
oral sociating in the Empalement of the Flower, with the permanent dryle at the Tops represented at forms the majority and it the Top taken off a the forms can transverify, and if the Vericle our longitudinally desired to the forms who fould have been sented as a considerable of the terms of the found of the terms o thewing the (mail Seeds failtook round the ovel P

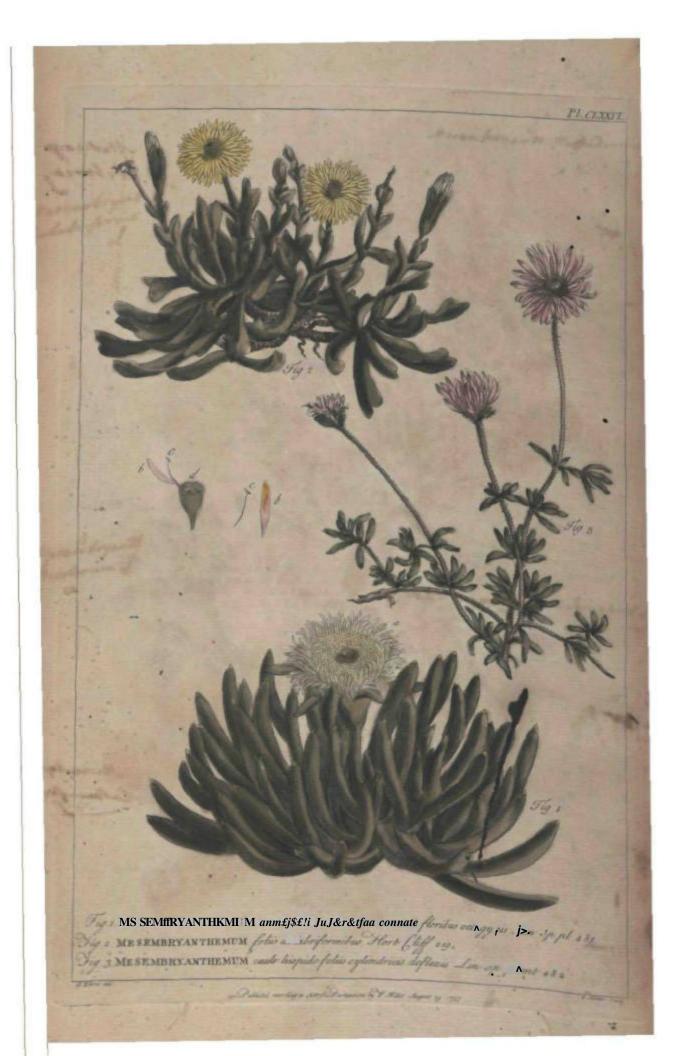
This Plant grows naturally in Vergicia, and other Parts of Norch America, From whonce it was font by Bangler, interf Years fince, to Dr. Compton, Billing.

London, in which curious Guiden I first tow this Plant Longer, in which was in the Year 1709; but of !...
Years it both oven propagated in greater Plency in !
Lond. Inflowers in April, and the Seeds ripenia July.



Description of Salary V. Hat. Sof 1200





P. L. A. ..T E CLXXV.

MEDIC AGO 7W#. /#/?. £. #. 412. Ttf£. 213. Lin. Gen. Plant. 805. Raii Meth. Plant. 108. Moon-trefoil, or Cytifus of P/Vg//.

HIS Genus of Plants is ranged in the Fourth Section of Tournefor?% Tenth Clafs, which includes the Plants with a Butterfly Flower, whofe Leaves are trifoliate. Doftor *Linnaeus* places it in the Third Section of his Seventeenth Clafs, which contains thofe Plants which have Butterfly Flowers with Ten Stamina, Nine of which are joined together, and One ftands feparate. Mr. Ray ranges it in the Second Se&ion of his Twenty-first Class, which includes the leguminous Plants with Three Leaves.

The Characters of this Genus are exhibited in the Gardeners Dictionary.

The Species here reprefented is,

arboreo Hort. Cliff. 376. Moon-trefoil, with moonfhaper Pods, whole Borders are intire, and a Treelike Stalk. This is the *Cytifus incanus*^*filiquisfalcatis*, C. B. P. 389. Hoary Cytifus, with fickle-fhaped Pods. John Bauhin titles it Cytifus filiqud incurvd folio candicante Hifp. 1. 361. Cytifus with incurved Pods, and a

This Plant grows naturally in Abruzzo, and alfo in the Iflands of the Archipelago, where the Cattle browfe on the Branches; and the Stems are used by the Turks for Handles to their Scymetars. It riles with a woody Stem Four or Five Feet high, fending out many ligneous Branches on every Side, fo as to form a large bulhy Head, where Cattle are not permitted to feed on it. Thefe Branches are garnifhed with trifoliate Leaves, reprefented at a> which Hand on pretty long Footftalks, and arc of a deep Green on their upper Sides, but are hoary on their \mdef Sicfat thefe bSntraft the mfelves of May

Evening, and, in cold Weather, turning their undef Side outward, the Flowers are produced in Clutters at the End of the Branches, as is lliewn at £, Itanding upon pretty long Footftalks, each fuftaining Four or Five^ Flowers of a deep yellow Colour; they are of the Butterfly Kind, having an oval intire Standard, marked c, whofe Edges are inflexed •, but the whole is reflexed, with Two oval Wings marked d> which are closely that together, and a Keel marked e, which is oblong, bifid, and inflexed: Thefe Flowers have Nine Stamina, which are joined, as is reprefented ati?; and the other ieparates from them at the Top, as is {hewn at*. The Style is flut up in the Standard, where it is twifted, but is reprefented ftraiter at £, in the Manner it extends when taken out. The Germen is fituated in a tubulous Empalement, reprefented at/, which is cut at the Top into Five acute Segments. The Germen afterwards turns to a compressed Sickle-shaped Pod, marked k, in which are Three or Four Kidney-fhaped Seeds, as is (hewn at /, MEDIC AGO leguminibus lunatis margine integerrimis cattlewhere the Pod is fplit open^to reprefent how the Seeds are lodged \setminus and m flows a fingle Seed taken out of the Pod.

> This Plant begins to produce its Flowers in April, and continues a Succeflion of them till the hard Froft puts a Stop to them •, fo that, in a moderate Climate, it will continue flowering all the Year. The Flowers are fucceeded by comprefled incurved Pods, which ripen in Succeflion, as they are produced all the Summer. The Plants are propagated by Cuttings or Slips; thefe, when young, are frequently deftroyed by Froft; but when they have acquired Strength, they will live through the Winter in the open Air, provided they are in a dry Soil, and a flickered Situation,

If the Tops of the Shoots are bruifed between the Fingers, they emit a ftrong Odour, fomewhat like the Rocket; but they have a fweet leguminous Tafte like the Tops of *Peafe*, fo are certainly a good Feed for mod Sorts __ of Cattle in those Countries where it naturally grows i but it is too tender for that Purpofe in England^

MESEMBRYANTHEMUM Dill Gen. Plant. 9. Lin. Gen. Plant. 552. Ficoides Herm. Tourn. A3. R. Scien. 1705. Raii. App. 193. Fig Marygold.

HIS Genus of Plants is ranged in the Fourth Section of LinH*eus's Twelfth Clafs, which includes thofe Plants whofe Flowers have about Twenty Stamina and Five Styles. Tournefort and Ray range this with the Plants whofe Flowers are fucceeded by feveral Capiules. Doftor Herman gave the Title of Ficoides to this Genus, from the Similitude between the Fruit of this Plant and the Fig; in which he wak followed by Tournefort, Ray, and Boerhaave: But Doftor Dillenius gave the Characters of this Genus, in the Appendix to his Catalogue of Plants which grow naturally about Giffam in Germany', under this Title of Mefembryanthemurto Holland, where it was cultivated \ and in the Year 1718 which has been adopted by mod of the late Writers on was brought to England. This Plant never rifes with a Botany.

The Characters are exhibited in the Gardeners Dic-

tionary.

The Species here reprefented are,

Fig. 1. MESEMBRYANTHEMUM acaule, foliis fubteretibus < connatis^flonbus ottagynis Lin. Sp. Plant. 481. Mefenv bryanthemum without a Stalk, taper Leaves joined at C their Bafe, and Flowers with Eight Styles. This is the Ficoides Capenfis humilis, cep& < e folio, flore firamineo Brad. Succ. 2. p. 10. f. 19. Dwarf Cape Fig Marygold, with an Onion-Leaf and a Straw-coloured Flower. This is titled by Doftor Dilkuius, Mefembryanthemum folio calamiforme Hort. Elth. 239. Mefembryanthemum with a quill-ihaped Leaf.

This Plant grows naturally at the Cape of Good Hope among the Rocks and Sand, from whence it was brought Stalk, the Leaves growing always clofc to the Ground; thefe are about Three Inches long, taper, excepting on the upper Side, where,"toward their Bafe, they are a liule

NUMB. XXX.

little flatted. They are of a dark Green, and full of lioifture, (landing by Pairs, with their Bafe joined, fo that the Stalk feems to perforate them. The Flowers Aand upon fhort thick fucculent Footftalks, which do Dor rife above the Leaves, fupporting one large Straw-coloured Flower at the Top, with pale purplifh Rays or * Borders, marked a. Thefe Flowers appear at different Times of the Year, fo are not conftant to any Seafon; ^ and fometimes the Seeds ripen in warm Seafons.

rig. 2. MESEMBRYANTHEMUM foliis dolabriformibus Hort. Cliff. 219. Mefembryanthemum with an axe-/haped Leaf. This is the Ficoides Afra^ folio triangulari, fecuris forma^ flcre aureo jlellato Bocrb. Ind. Alt. Sp. 290. African Fig Marygold, with a triangular hatchet-fhaped Leaf, and a ftarry gold-coloured Flower. Bradley * in his Decades of fucculent Plants, titles it Ficoides Capenfis humilis, foliis cornua cervi referentibus petalis luteis^ noElifiora. Dec. Sp. 11. Dwarf Cape Fig Marygold with Leaves like Stag's Horns, and yellow Petals, which expand at Night.

This Sort hath ligneous Stalks, which rife Three or Four Inches high, and divide into feveral fhort Branches, which are garnifhed with fucculent Leaves, that are thick t)n their upper Edge, having Two obtufe Angles; and the lower Edge is thinner; the Ends of the Leaves are bljnt, and fome of them are fhaped like an Axe; they are of a pale green Colour, and embrace the Stalks

with their Eafe. The PU Footftalks at the End O M E V "? roduced un flort deep yellow Colour and \ Branches Areare of * feting* it flowers L V_{ad} from the Sun is near Fg 3 uZ^{t}

cylindrical and d file of The Nowers are produced on thing naked hairy Pootfalks at the lines of the Branches; the Margin like Rays, which are about and blur, at the Margin like Rays, which are about and blur, at the Margin like Rays, which are about and blur, at the Margin like Rays, which are about and blur, at the fact the file of the fi

P L A T E

CLXXVII

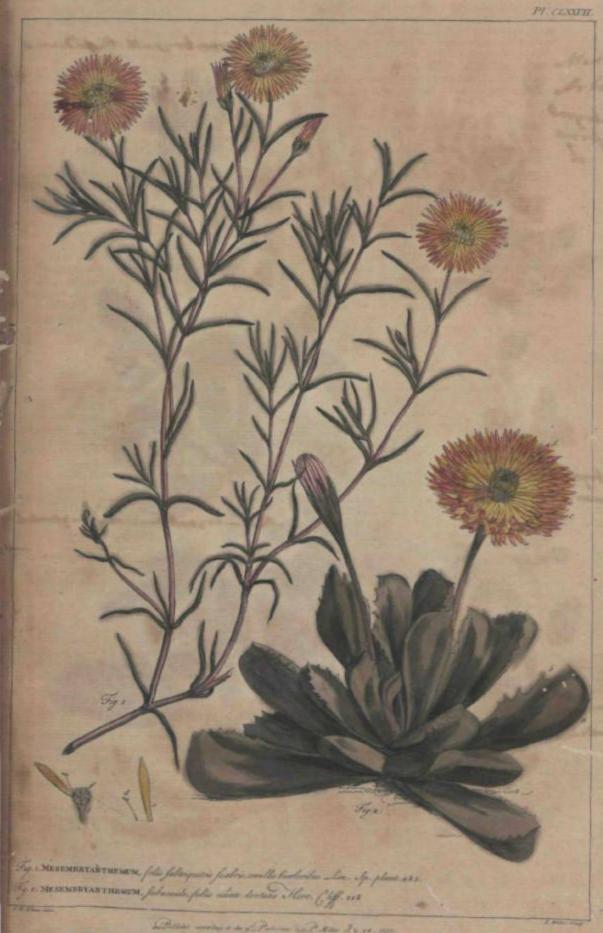
^rig. i, MESKMBRYANTHEMUM foliis fubtriquetris fcabris, corollis bicolcribus Lin. Sp. Plant. 485. Mefembryanthemivm with rough three-cornered Leaves, and the Petals of the Flower of Two Colours.

HIS is the Ficoides^ feu Ficus Africana^ folio longo Lenuiifiore aurantio. It hath flender ligneous Stalks, which rife Two Feet high, fending out many Branches, which are garnifhed with long flender three-cornered fucculent Leaves of a light green Colour, which are placed by Pairs, embracing the Stalks with their Bafe. From the Bofom of theie are produced Clufters of fmaller Leaves of the fame Form -, and from the Wings of the Stalk are produced fmaller Branches, which are garnifhed with the like Leaves. The Ends of the Stalks are terminated by Flowers, which are radiated like the other Species, and are pretty large. The Petals are long and narrow, of a gold Colour below, but are tipped with Purple, as is reprefented at a and b; they are broader at their Bafe than their Points, as is flewn at c, which is One of the ^Petals feparated from the Flower. In the Center are fituated a great Number of flenrW RtiTM nationated by blund Somenits, as is represented and, Under the Flawer is frauted an oblining Genuica, which afterwards becomes a flefliy fucculent Capfule, marked having Five Cells, as is fhewn at/, which are filled with fmall Seeds. This Plant flowers at different Seafons; but the mcft ufual Time of its flowering is the latter End of May, and in June; and thefe are often fucceeded by Fruit which ripen their Seeds in the Autumn, when the Seaform are favourable. The Plants do also flower again in Aurum

Fig. 2. Manually and the time interests, folia citiate. former any Stalk, and the Melenthyry effection with an Hair. This is the Melenthyry otherway titiate with piants referred five, fath, 2a.t. commonly called by the plants, either the Fields, and commonly called by the plants, either the Fields, for the Decades of factalene has prope familiation desirable, fore interests the fields of includes the prope familiation desirable, fore interests the proper familiation desirable, fore interests the proper familiation desirable, fore interests the proper familiation desirable and the stringgale Leaf Linears supposes, this, and what is easiled the Cafferboth. Plants, to be only Varieties, that whoever the both Plants, takend doubt of their being difficults.

This hath very thick forenteer Leaves of a grey Culcur, which are triangular at their Ends; but their lower Part is convex and rounding. Their upper Side is Edges like Teath, narrhed §. The Ends in the Leaves to the Ground, having no Footfalks, and from the Root divide into itparate Heads. The Flowers rise they grow close Root divide into itparate Heads. The Flowers rise they grow should be footfalks from the Center of the Heads; pellow Flower, like those of the other Species; They









l maiymtiuj it*ifr/t-f*Tz/M nir-

CLXXVIII

MESPILUS Tourn. Inft. R. H. 641. Tab. 410. Rail Meth. Plant. 143. Lin. Gen. Plant. 549. The Medlar or Hawthorn.

THIS Genus of Plants is ranged in the Ninth Se&ioft of Tourneforfs Twenty-first Class, which includes the Trees and*Shrubs with a Rofe Flower, whofe Empalsment becomes a Fruit with hard Seeds. Mr. Ray places it in the Appendix to his Method^ with the Trees that produce umbilicated Fruit with feveral Seeds. Doftor Linnaeus ranges it in the Fourth Section of his Twelfth Clafs, which includes those Plants whofe Flowers have about Twenty Stamina and Five Styles, and feparates those which have only Two Styles to his Genus CraUgus -, those with Three under Sorbus; and those with Five under Mefpilus. But these Diftinstions are not permanent, fo muit not be followed; for the Number of Stamina and Styles differs in the Flowers of the fame Tree.

The Chara&ers of this Genus are exhibited in the Gardeners Dictionary.

The^Plants here reprefented are,

4****
Fig. 1. MISPILUS inermis, foliis ovalibus ferratis^ caulicu-Us hirfutis Lin. Sp. Plant. 478. Medlar without Spines, oval-fawed Leaves, and hairy Stalks. This is the Mefpilus folio rotundiori, fruffu nigro fubdulci Tourn. Inft. 642. Medlar with a rounder Leaf, and a black fweetish Fruit. Caspar Bauhin titles it Alni effigie^ lanato folio minor Pin. 452. The Amelanchier, by fome called New England Quince.

* This Plant grows naturally in France and Germany^ where it rifes with a fhrubby Stalk Five or Six Feet high, with a fmooth purplifh Bark, which in the young Shoots is covered with a hairy Down; thefe are garnifhed with oval Leaves, which have a thick white Down over their under Side, but are fmooth above, and (lightly fawed on their Edges. The Flowers are produced from . the Side of the Stalk,, in loofe Spikes at every Joint; * thefe are composed of Six narrow white Petals, as is reprefented at #, where the Front of the Flower is exhibited to View-, and b Ihews the back Part of the Flower. Thefe have an Empalement of One Leaf, which is tubulous, and cut into Six Segments at the Top, as is reprefented at c and $d \setminus e$ reprefents One of the Flowers taken from the Spike, which has but Five Petals, for they are not conftant in their Number. In the Center are fituated the Stamina, with their Summits, which are not longer than the Tube of the Flower; thefe immediately furround the Styles which arife from the Germen, fituated under the Flower, and, after the Flower is paft, turn to an umbilicated Fruit reprefented at/; this turns black when ripe, and is divided into Two Cells, as is fhewn at£, where the Fruit is cut hori-

zontally, to flew the Two hard Seeds marked h9 as they lie in the Fruit.

This Shrub flowers in May^ and makes a fine Appearance in the Garden when intermixed with other Shrubs of the fame Growth; the Fruit ripens in September, but the Birds often get thefe as foon as they ripen.

There is another Sort of this which came from America^ and has been fuppofed to be the fame with this, but the Leaves are of a different Shape, being narrow at their Bafe, but broad and round at their Extremities; thefe are almost intire and fmooth on both Sides, (landing upon (lender Footflalksj fo that it is undoubtedly a diffindt Species from this.

Fig. 2. MESPILUS foliis lanceolatis ferratis, fpinis robuftioribiis^ floribus corymbofis. Medlar with fpear-fhaped fawed Leaves, very ftrong Spines and Flowers growing in a Corymbus. This Ifuppofe to be the Mefpilus Pruni foliis', fpinis longifjimis fortibus^fruffu rubro magno Clayt. Flor. Virg. \$5.

This Sort grows naturally in North America; the Fruit of it was fent me from Philadelphia. It rifes with a ftrong Stem to the Height of Ten or Twelve Feet; the Bark of the Stem is rough when it becomes large, but that of the Branches is fmooth, and of a reddiih Colour. The Branches fpread flat, and intermix with each other very irregularly -, thefe are garnifhed with fpear-fhaped Leaves about Three Inches long, and One broad in the Middle; they are fawed on their Edges, and are of a lucid Green, placed alternately on the Branches; but at many of the Joints there are fmaller Leaves, which come out in Clufters; and under the Leaves come out very ftrong Thorns, which are Two Inches long, and very ftrong; fo that a Hedge planted with this Sort cf Trees would be one of the fecureft Fences for Inclo-The Flowers are produced from fLe Wings of the Stalk in roundifh. Bunches, as is reprefented at a; thefe are composed of Five roundish Petals marked $c_{\%}$ which are white, with a Blufh of Red. There are gene-, rally Two Flowers upon each Foolftalk, as is reprefented at b. The Flowers have Ten Stamina in each, which are terminated by roundifh Summits of a bright red Colour; thefe fpread open in the fame Manner as the Petals, and between them arife Three Styles, reprefented at $d \cdot$, thefe ftand upon the globular Germen, which is fituated below the Flower, and afterwards turns to a globular umbilicated Fruit of a fine red Colour, as is fhewn at e_y which is cut horizontally at l, to (hew the Seeds g, which are hard, and but Two in each Fruit.

This Sort flowers in June^ at which Time it makes a fine Appearance, as it also does in the Autumn wh.en the Fruit is ripe, fo is worthy of a Place in every Garden where there is Room for a Plantation of Trees and Shrubs.

CLXXIX.

MESPILUS foliis cordato-ovatis acuminatis, acute ferratis^ ramis fpinojis. Medlar or Hawthorn, with oval heartfhaped pointed Leaves, which are fharply fawed on their Edges, and Thorns on the Branches.

HIS Sort was raifed from Seeds in the Chelfea

came from the Fruit of those were the fame, without Variation, we may put it down as a new Species.

It rifes with a ftrong woody Stem about Four Feet high, fending out many fpreading Branches, which incline to a horizontal Pofition; thefe are garnifhed with Leaves differing in their Form; fome are indented at Garden in 1738, which came from North Ame-- the Footftalk, like heart-fhaped Leaves, but others are rica, by the Title of New Haw. As all the Plants which not; they are about One Inch and a half Hong, and nearly



nearly of the fame Breadth in the Middle, ending in acute Points; and their Borders are cut into feveral acute Parts, which are fliarply fawed; they are of a bright Green, and (land on very (lender Footftalks, which are about One Inch long •, the Branches are armed with a tew pretty long flender Spines; the Flowers come out in frnall Bunches from the Side of the Branches, and are composed of Five roundish Petals, which spread open, as is reprefented at a; thefe have Eight Stamina which fpread on the Petals, as is Ihewn at b; and in the

Middle of the Flower a*; v ** $c \wedge c$. 1. A representation of the front of the first of the c, where only 0. (c) the flage in Soft ke Flower is one into live Sugments at the Total is thewn at A Africa the Flawer is part, the Germen becomes a round nimbilicated Proje, représented at f, which is our rhicogé lusricescally at g, in which are currented Two hard Sords, marked b. This Sort Bowers the latter Red of Yore, and the Fruit ripens in the Autumn

JASMINUM Tourn. Inft. R. H. 597. Tab. 368. Rail Meth. Plant. 154. Lin. Gen. Plant. 17. Jafmine.

THIS Genus of Plants is ranged in the First Section of Tournefort's Twentieth Clafs, which ineludes the Trees 2nd Shrubs with a Flower of One Leaf, whofe Pointal becomes a foft Fruit, inclofing hard Seeds. Mr. Ray places it among the Trees which have Berries inclofing Two Seeds. Dodtor Linnaeus ranges it in the First Sedion of his Second Class, which includes those Plants whofe Flowers have Two Stamina and One Style, and feparates many of the Species which have been ranged under this Genus to a new one, which he has conftituted with the Title of Nyttanthes.

The Species here reprefented is,

curious Garden of Richard Warner, Efq-, at Woodford, in Effex, who was fo obliging as to favour me with Branches of this curious Plant, with Flowers, to make the Drawing. It is a Plant unknown to the Botanifts, having never been defcribed in any of their Books; nor was the Plant known to the Perfon who has the Care of the Dutch Garden at the Cape of Good Hope, though it was found growing but a few Miles from it. This Plant approaches near to the Nandi Ervatum major of the Malabar Garden, but differs from it in the Shape of the Leaves, and allb in having but One Flower upon each Footftalk; nor is there any other of the Jafmines which comes fo near this Plant.

The Stem of this Plant is very large and woody, fending out feveral ftrong ligneous Branches, which are firft green, but afterward have a fmooth afh-coloured Bark; thefe come out oppofite, and have very fhort Joints. The Leaves also are placed by Pairs opposite, fitting clofe to the Branches; they are Five Inches long, and Two Inches and a half broad in the Middle, leffening to both Ends, terminating in a Point; they are of a

Incid ieverst consverse v produced at the End of die tonche, to die tonche deep into Five Parts of tonche die t hour the have but One Petale to be made on our com-

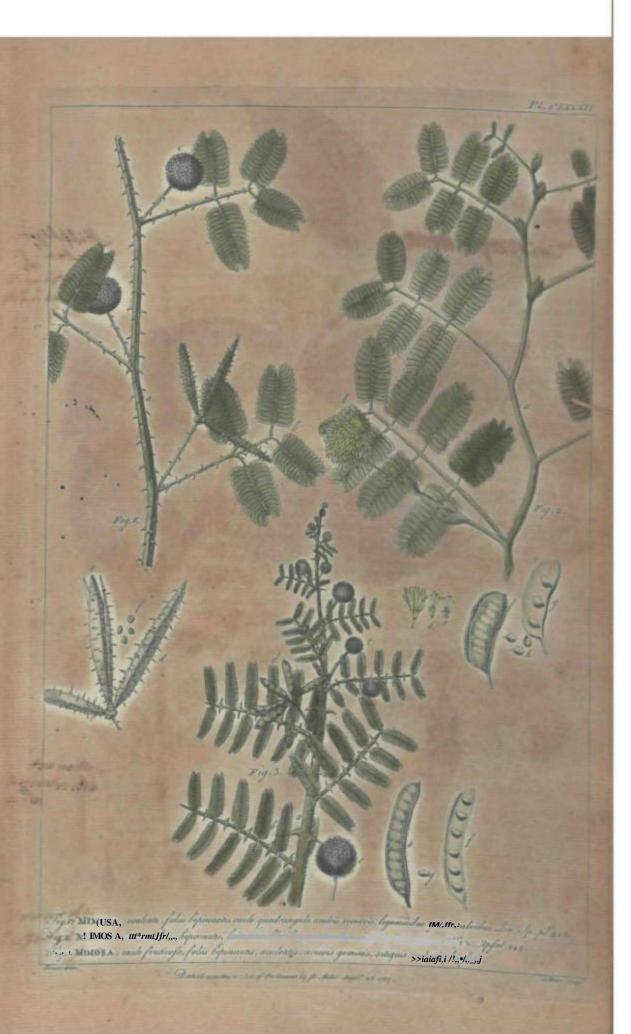
Flower is Ihewn, with the Triangle Hitt, and the men. The Flowers are fome m_U ch m^{S} " P A the Germ

-Wch are let double, i S T ^ **. c&fc Flowers which I have examined We" 8.21 ns. -AU the JASMINUM fotiis lanceolatis oppofitis integerrimis > calycibus may be occasioned by the Finin r no Stamina J which may be occasioned by the Finin r no Stamina J which well known that many o h f A h ? W s > * * neither Stamina or Style- 1 i ? blowers have with its bifid Stigma in r v * h f Flowers * * Style fented at * and / f i F Flowers * * Style fented at * and he arrived in a coldClimate, when the $u^{\sigma T \wedge tU1}$ its Growth.

> As this Plant is here infert pri we have hitherto purfued, fo I toulers an Apollo-good Drawing of this Plant in prone T
>
> have been introduced in its proper TaL
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> T' fould for curious and boing on a state of the proper Tau T' fould fo curious, and being an undefcribed Plu 38 this is our Purchafers will met beedriffes d - SSA We ho Pe J here. And thousand any, bed there of here we have the fame for though it findly not exhall that the fame for the Courfe of though it findly not exhall that the fame for the Courfe of though it findly not exhall that the fame for the Courfe of though it findly not exhall that the fame for the Courfe of though it findly not exhall that the fame for the Courfe of the fame for the courfe of the fame for the as we fhall be careful not to ex^oPf to be ocufed Bounds: And, by adding a c o ^ d ^ intended







P L A T E CLXXX

MALPIGHIA, Plum. Nov. Gen. 46. Tab. 36. Lin. Gen. Plant. 508. Barbadoes Cherry.

f ft HIS Genus of Plants is ranged in the Third Sedlion of Linn^eush Tenth Clafs, which in-JL eludes those Plants whose Flowers have Ten Stamina ast Three Styles. Plumier places it in the Sixth Seftion of Touryefort's Twenty-first Clafs, in which he ranges the Trees and Shrubs with a Rose Flower* whose Pointal becomes a flesslip Fruit inclosing hard Seeds.

The Stries has represented the second of the

Fig. i. MALPIGHIA foliis fblongo-ovatis acuminatis fctis pungentibus, pedunculis unifloris verticillatis. Malpighia with oblong oval-pointed Leaves fet clofe with flinging Briftles, and Footftalks with One Flower growing in Whorles round the Stalks.

The Seeds of this Plant were fent me by Mr. Richard, Gardener to the King of France at Trianon, by the Title of Bois de Capitain, about Four Years paft; and from them feveral Plants were raifed, which have flowered the Two • laft Years in the Chelfea Garden. This Plant rifes with a ftrong upright Stem about Three Feet high covered vdf^dfown Bark, fending out feveral Side Branches i^yhich grow ereft, and are garnifhed with oblong oval EXeaves ending in acute Points •, thefe fit clofe to the Branches, and are clofely covered with fine Briftles which do not appear, unlefs clofely viewed; but, upon handling any of the Leaves, they flick into the Skin, and fling as bad as Cow-itch, fo that it is very troublefome to handle the Plants. The Flowers come out upon long flender Footftalks, each of them fupporting One Flower -, they rife from the Wings of the Stalk at each Joint, Four, Five, and fometimes Six of thefe come out from the fame ⁹ Joint, ftanding round the Stalk in a Sort of Whorles, as $\overline{i}s$ reprefented at a and b. The Flower hath a fmall permanent Empalement, which is cut into Five Parts, as is ihewn at c; arid Five oval Petals, reprefented at d, which fpread open; and at their Bafe have Two oval convex Honey-Glands adhering to them. In the Center arife Ten flat awl-fhaped Stamina, which join and form a Cylinder, as is reprefented at e_{-9} thefe are terminated by fmall heart-fhaped Summits. At the Bottom is fituated a roundifh Germen fupporting Three Styles, as is fhewn at * and g; thefe ftand apart, and are crowned by fmall obtufe Stigmas. / reprefents the Germen cut through longitudinally, with One of the Styles extended beyond the Stamina; h flows one of the Stamina as it is fituated on the Side of the Germen, and adheres to the Bottom of it with its Bafe. This Plant flowers in July and August, but has not as yet perfected Seeds in England.

This is very different from Plumier'% Malpighia I'ail² folia, folio fubtus fpinofo, in the Size and Shape of the Leaves. The Leaves of this are more than twice the Size of thofe, and are armed on both Sides with thofe flinging Briftles, whereas the other have them only on their under Side; and Plumier's Plant rifes with a much taller Stem than this, and but feldom flowers here; there are Plants of it in the Chelfea Garden Ten Feet high* which have not as yet flowered, tho' they thrive, and are in perfedt Health -, but the Sort here reprefented flowers annually.

Fig. 2. MALPIGHIA foliis ovatis integerrimh giabris% pedunculis umbellatis, Hort. Cliff. 169. Malpighia with frnooth, oval, intire Leaves, and Footftalks fupporting Umbels of Flowers. This is the Malpighia Mali punici facie, Plum. Novi Gen. 46. Malpighia with the Appearance of Pomegranate. Commeline titles it Cerafus Jamaicenfis fruftu tetrapyreno, Hort. Amft. Sp. 145. Jamaica Cherry with -a Fruit having Four Seeds.

This Sort grows plentifully in moft of the Iflands int the Weft Indies, but whether it is natural there, or has been lately introduced into thofe Wands, is not eafy to determine* for the Birds who devour the Fruit, have carried the Seeds all over thofe Iflands; fo that the Trees grow in fuch Plenty, where they are permitted to ftand* as if they were Natives of the Place.

This Sort grows to be a Tree of middling Size in America[^] and we have feveral Plants in England which arc upward of Ten Feet high, with ftrong woody Stems* which are well furnished with Branches covered with & dark brown Bark, and garnifhed with fmooth oval Leaves which are intire; they are placed by Pairs oppofite, fitting clofe to the Branches. The Flowers are produced in Umbels from the Side and at the End of the Branches, ftanding upon flhort Footftalks, as is repre^fented at a; thefe have Five oval Petals, ranged in the fame Order as those of the former Sort, but are of a brighter red Colour, and are waved on their Edges, as is reprefented at b: Thefe Flowers are fometimes fucceeded by Fruit in England, which are about th£ Size of grey Peafe, having a thin red Pulp covering Three of Four rough angular Seeds.- The Flefh is of a pleafant'tart Tafte, and is fo very thin as to be of little Efteem 5 but in the Weft Indies, the Fruit is ferved up at their Tables for want of better.

This Sort flowers usually here in *March* and *April*, but those Flowers are feldom fucceeded by Fruit*, they alib flower a^ain in *July*, and when the Seasons' are warm, from these Flowers there is often Fruit produced 5 for at that Time of the Year the Plants are usually removed into the open Air.

P L A T E CLXXXII

MIMOSA, Tourn. Inft. H.H. 60s* And 375- Raii Gerli Plant. 161. Lin. Gen. Plant. 597. The fenfitive Plant.

H IS Genus of Plants is ranged in the Fifth Seetion of *Tourneforfs* Twentieth Clafs, which includes the Trees and Shrubs with a Flower of One Petal, whofe Pointal becomes a Pod. Mr. *Ray* places it among, the Trees which bear I^ds, whofe Flowers are not of the Butterfly Kind. Doctor *Linn<eus* ranges it in the Firit Seftion of his Thirteenth Glafs, which includes thofe Plants whofe Flowers have many Stamina and but One Style-, and under this Genus he ranges the *Acacia* of *Tounefort* and the *Inga* of *Plumier*. But as the Species of *Acacia* are very numerous, fo it is better to ireep them feparatc, efpecially as thereby the officinal Name of *Acacia* will be preferred to the Genus.

Nega XXXI.

The Species here reprefented are,

Fig. 1. MIMOS A aculeata, foliis bipinnaiis, caule quadrangulo, acukis recurtis, leguminibus quadrivahibus, Lin. Sp. Plant. 522. Prickly fenfitive Plant with doubly-winged Leaves, a fquare Stalk, recurved Spines, and Pods with Four Valves* This is the Mimofa herbacea procumbens & fpincfa, caule quadrangulo, filiquis quadrivaU vibus, Houft. MS. Trailing herbaceous and prickly fenfitive Plant with fquare Stalks, and Pods with four Valves.

This Sort of/enfitive Plant was difcovered by the late Dr. William Houftcun at La Vera Cruz, in New, Spain's from whence he lent the Seeds which fucceeded in feveral Gardens here. This hab han herbaceous prickly Stalk;•

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the Spines are ail recurved, as is reprefented at a. As thefe Stalks are too weak to fupport themfelves when grown to a Length, fo they decline to the Ground; thefe are garnifhed with winged Leaves, compofed for the most part of Two Pairs of Pinna*) or Wings, as is lhev/n at b. From the Wings of the Stalk arife the Footftalks, each fuftaining One globular Head of purple Flowers, reprefented at c; thefe are fucceeded by long, Four-cornered prickly Pods, reprefented at d\ which open with Four Valves, as is flown at $e \setminus \text{filled}$ with angular Seeds, as is fhewn at/. This Plant hath a perennial creeping Root, by which it multiplies greatly in the Places where it grows naturally, fo that it fpreads over the Sands all round the Town of Vera Cruz. It is One of those Sorts which is generally diffinguished by the Title of humble Plants, because the whole Leaf, with its Footftalk, falls away from the Touch. This feems to be the Caaeo i. of Pifo, p. 202.

Fig. 2. MIMOSA inermis, foliis bipinnatis, fpicanimfioribus pentandris) inferioribus plenis, Hort. Upfal. 145. Senfitive Plant without Spines, doubly-winged Leaves, Spikes of Flowers with Five Stamina, the lower being double. This is the Mimofa non fpinofa palujlris & berbacea procumbens fore luteo pleno, Houfi. MS. Marth trailing herbaceous fenfitive Plant without Spines, and a yellow double Flower.

This Sort was also discovered by the late Do&or lloufioun at La Vera Cruz, growing in ftagnate Waters, where the Stalks floated on the Surface of the Water, and were flat; but, when it was cultivated on dry Ground, the Stalks grew more ereft, and were round, in like manner as the perennial Arfefmart •, which in Water floats like the Pond Weeds, but in dry Ground the Stalks are ereft. The Stalks are fmooth, herbaceous, and have bending Joints, as is reprefented at a. From each of the Joints comes out One winged Leaf, composed of Three or Four Pairs of fingle-winged Leaves, reprefented at b-, and below the Footftalk of the Leaf comes out that of the Flower, which grows Three or Four Inches long, having Two Appendages of Leaves (or Brafiea) at about an Inch apart; and at the Top fuftains a large Head of Flowers, which are yellow, and of different Form's and Nature; those on the upper Part of the Spike, or Head, have no Stamina, but are full of broadiih Leaves of a yellowifh Green, as is reprefented at $c \rightarrow$ thefe when growing together in the Head have much the Appearance of the other, but are more fpecious; those Flowers which are fituated in the Middle are wholly Male, having Five Stamina and no Embrio, or Style, as is reprefented at $d\lambda$ but the lower Flowers are Hermaphrodite, having each Five Stamina terminated by obtufe Summits, with a fmall five-pointed Empalement, reprefented at e\ in which is fituated aGermen fupporting a fhort Style, crowned by a fquare Stigma.

Germen afterwards becomes a broad comprefled Poreprefented at/; which opens lengthwife^wkh Two Valve, as is flewn at^, in which £ lodged One Row of fmooth comprefled Seeds, as is repressed at h

tsveet in which the state of th

upright, and the Leaves are We fl A from Years much larger and the Pods arctSermy by a Friend, Hnce I had fome Seeds of this Sort fapit in the I hand of no near a Branch of the

probably prow in full Vigour: So this Plant they probably prow in function the other librarie.

Fig. 3. William the property of the color libraries and the season control of the color libraries and the season color li

Plan: with a feubby Stalk, doubly—
which are nrrl-hr «l« e · 7 Jymgcu jueav:
which are prickly, the Spines growing by Pairs, an
hairy Pods fpread open like Rays. This is the Mmoj.
frutteefa fpinafa > filiquis latis, hirfutis ^ & ? articulate
Houfi. MS. Shubby prickly fentime Plant, with broac
hairy, and jointed Pods; and the JEfchynomena fpinoj
4. five foliolis Acacia angufiioribus, frondibus valid? I',
mas jpinas habentibus, Breyn. Cent. 1. 43. The FourL
prickly fentitive Plant with narrow Acacia Leaves
very clofely armed with Spines.

This Sort was difcovered growing naturally a*. 7 Vera Cruz by the late Doftor Hcujloun, who fent the Seed to England. This rifes with a woody Stalk Five or Six Feet high, fending out fome Side Branches; thefe, and alfo the main Stalks, are armed with ftrong white Spines, which are broad at their Bafe, but narrow and recurved at their Point \ they are placed by Pairs oppofite, and ftand alternate with the Leaves 5 the Stalk is alfo hairy.> as is reprefented at a. The Leaves are placed alternately on the Stalks, and are composed of Five or Six Pairs of fingle-winged Leaves, reprefented at b; thefe have very narrow Pinna^ or Wings \ and between each Pair of thefe come out from the Midrib Two fhort Spines oppolite, fhaped like those on the Branches, but are fmaller and not bent, fo ftand horizontal with the Leaves. The Flowers are collefted into a round Head, as is fhewn at cy they are of a bright purple Colour, and ftand upon ftrong Footftalks, which arife from the Infertion of the When the Flowers decay, they are fucceeded Leaves. by long comprefled hairy Pods, which are jointed, reprefented at e; thefe are fpread open like Rays, as is fhewn at d. When the Pods are ripe, they open with Two longitudinal Valves, having One Seed lodged in each Joint, as is reprefented at/5 the Seeds are oval and com-It grows plentifully in the prefled, as is flewn at g. rich moift Ground about the Town of Vera Cruz?

PLATE

Manauto A, Lin. Gen. Plant. 34. Leonurus, fourn. Inft. R. H. 187. Tab. 87. Origanum, Cornut* 13. Monarda, fcarlet Leonurus, and Ofwego Tea.

THIS Genus of Plants is ranged in the Firft Section of *Linnaus's* Second Clafs, which includes thofe Plants whole Flowers have Two Stamina and One Style. *ffournefort* joins the Firil Sort to his Genus of *Leonurus*, which is ranged in the Second Seftion of his Fourth Clafs, in which he places the Herbs with a Lip Flower of One Leaf, whose upper Lip is hollowed like a Spoon, •

The Species here reprefented are,

Fig. 1. MONARDA capitulis terminalilus, caule obtufangulo, Hort. Upfal. 12. Monarda with Heads terminating the Stalks, which have obtufe Angles. This is

CLXXXIII

the Leseurus Consierus

II. 187. Counder Line?

It is by Cornetes titl d. Evigitum Management Considerate

Plant. Considerate titl d. Evigitum Management Considerate

by fome called the ffarieff L. 117 of Canad

Ofwego Tea, from the Use which the Conadian counter

or this Plant.

It hath a perennial Root computed of many first productions, which can state Ferrian flethy flour the interest of the Ferrian Roby flour the interest of the Number P">ponk, naT_tTM Jfc Root land we many these are hong, have four obwse An * of *e Roots* **

are garnified with obling coal Leaves, placed appoint





Fig. S. MONARDA capitales terminalibes come charf-angule Hort Upfel as.

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Pl CEXXXV



Try o Mentres lanfolis Thomas 6.29 168.

Character of young & and was

by Pairs; they have feveral Veins running from the Midrib to the Border, and are flightly crenated on their Edges. They are of a light Green, and, when rubbed* emit a wry grateful refreshing Odour. From the Wings of the Stalks come out Two or Three fmall Branches^ which are garnifhed With Leaves df the fame Shape with the others, but are fmaller. The Flowers come out in thick Whorles, or Heads, on the Top of the Stalks; and out of the Center of the First Head arises a naked Footftalk, about Three Inches long, fuftaining another Head of Flowers, which is fmaller than the First. Thefe Flowers have 'out One Petal, which is tubulous at Bottom, as is reprefented at a-9 but divides at the Top into Two Lips, r*M. Ihewn at b and c; the upper Lip b is hollowed like a Spoon, but is narrow and intire; the under Lip c is broader, reflexed* and trifid, the middle Segment being the broadeft, as is reprefented at /. The Flower has but Two Stamina* which are longer than the upper Lip, as is reprefented at $d d^{\wedge}$ which are terminated by comprefTed Summits. In the Bottom of the Tube are fituated Four Germina, fupporting a (lender Style, as is l'ewn,! $^{\prime}_{v}$ growfi $^{\prime}$ i by a bifid Stigma, reprefented at $e \setminus \text{miff} \ \pounds^{3}$ fepraeffi \pounds t!he $^{\prime}$ fits. This Plant is now cultivated as an Ornament to the Pleafure Garden; it flowers in July and Augujt^ but feldom produces good Seeds in England. The green Leaves of the Plant are by many Perfons ufed for Tea •, and are preferred to Baum, and mod other Herbs, for that

Fig. 2. MONARDA floribus capitatis fub-didynamis^ caule acutangulO) Lin. Sp. Plant. 22. Monarda with Flowers growing in Heads which have Two fhort and Two long Stamina, and an acute angular Stalk. This is the Monarda fioribus capitatis verticillatifque^ caule

acut-angub) foliis lancebtati-ferratis glaUis, tZuiln. iiGi Monarda with Flowers growing in Heads and Whorles^ (harp angular Stalks, and fmooth fpear-fhaped fawed (Leaves.

This hath a perennial Root, as the forrher, but does hot fpread fo much. The Stalks rife from Two Feet and a Half to Three Feet high, fending out a few Side Branches; thefe have Four fharp Angles, and are garnifhed with fmooth fpear-fhaped Leaves, placed by Pairs oppofite. The Flowers grow in Heads' and also in Whorles, round the Stalks; for there is often a large Whorle of Flowers under the principal Head. Thefe Flowers have an Empalement of One Leaf* as is reprefented at a; which is cylindrical, and cut into Five acute Segments at the Brim. The Flower has a long (lender Tube* which is bent, and is divided at the Top into Two Lips; the! upper Lip is narrow* ereft* and intire* as is reprefented at c; the under Lip is reflexed* and indented in Three Parts\$ the Middle one being the At the Bottom of the Tube are fituated Four Germerij fupporting a long (lender Style* .reprefented at dj which is crowned by an obtufe Stigma* Aid within the Tube there are Four Stamina . Two of which are fhort, and fade foon after the Lips of the Flower expand; the other Two, which are reprefented at e, are almost equal in Length to the upper Lip* and are terminated by globular Summits. After the Flowers are paft, the Four Germina become fo many oval fmooth Seeds* fitting in the Empaleiiient. This Plant flowers in July and August \ and if the Season is favourable, will perfedt its Seeds in the End of September. As this Flower is purple* fo it makes a pretty Variety when intermixed with the foregoing Specie.

$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E}$

Mrr. 1. ft, Tourn. Injl. R. H. 640. Tab. 409. Raii Meth. Plant. 146. Lin. Gen. Plant. 543. The Myrtle*, in French, Myrte.

THIS Genus of Plants is ranged in the Eighth Section of *Tournefort's* Twenty-firft Clafs, which includes the Trees and Shrubs with a Rofe Flower, whofe Empalement becomes a Fruit with many hard Seeds. Mr. *Ray* places it among the Trees which have an umbilicated Fruit or Berry inclofing feveral Seeds. Dodtor *Linnaus* ranges it in the Firft Seftion of his Thirteenth Clafs, which includes thofe Plants whofe Flowers have about Twenty Stamina and but One Style.

The Species here reprefented are, #

Fig. 1. HVIYRTUS latifolia Rotnana, C. B. P. 468. BfoacP leaved Roman Myrtle. This is the Myrtus altera, Dod. Pempt. 772. The other Myrtle.

This Sort of Myrtle grows naturally about Rome> where it rifes to a confiderable Height; but in this Country, it is feldom more than Eight or Ten Feet high; for as it is too tender to live in the open Air, unlefs planted againft a warm-afpefted Wall, and covered in very hard Winters, fo there are few Places fo well fituated as to admit of their growing much taller; but where there are high Walls fituated to the South* and in a warm flickered Situation, they will rife much taller, efpecially if they are protedted in Winter. For I have feen Walls near Twenty Feet high, which were clofely covered with Myrtle of various Sorts to the Top •, but thefe were covered with Glafles in the Winter, and in hard Froft the Glafles were covered with Straw or Mats to keep out the Froft. The Leaves of this Sort arc broader than of moft other Species, and end in acute Points \ thefe are placed by Pairs oppofite, and fit clofe to the Stalks. The Flowers are, produced from the Wings of the Stalks, each (landing upon a flender Faptftalk > there arc feme-

CLXXXIV

tittles Two* and at others Four, of thefe arififtg it £ådt Joint/from the Infertion of the Leaves. Thefe are composed of Five obtuse Petals, represemed at b; having a great Number of slender Stamina rifing out of the Empalement* as is (hewn ate; which are terminated by roundilh yellow Summits; The Empalement, marked ds incloses the Germen, from whence arises the Sty !e h; which is crowned by an obtuse Stigma •, this is represented. magnified at g. The Empalement afterward turns to art oblong oval Berry, represented at e; which changes black when ripe, and incloses Five or Six hard kidney-shaped Seeds, as is represented at t* and t shews the Seeds ta,ken out of the Berry.

Fig. 2. MYRTUS fldre pleno, Cornut. Cdnad. 203. The double flowering Myrtle.

This feems to be a Variety of the common Italian Myrtle, Which was firft difcovered growing naturally iri Languedocj and has been propagated in fo great Plenty as to be now common in most of the curious Gardens in Europe •, where it is planted for the Sake of its Flowers. This Sort rifes with a woody Stalk to the fame Height with the former; the Leaves are much narrower,- and have not fo ftrong an Odour. The Flowers com£ out on fhort Footftalks from the Infertians of the Leavesj as is reprefented at $a \setminus$ thefe are full of Petals, as is fhewn at 1pb have neither Stamina* Germen* or Style,- and eonfequently have no Fruit fucceeding, them,- for the Multiplicity of Petals occupy the Place of the Parts of Generation. But as most double Flowers are in greater Efteem with the Generality of Perform than the fingle, fo this Sort of Myrtle is generally fold at a greater Price, tho' it may be propagated with the fame Facility as the common Sort.

The Berries of Myrtle are fometirtes used in Medicine, and are reckoned to be drying and binding , fo are thought to be good for a Diarrhea or Dysentery.

P

NICOTIANA, Tourn. Inft. R. II. 117. Tab. 4.1. Rail "Mcth. Plant. 81. Lin. Gen. Plant. 220. Tobacco, in French^ Nicatiane, ouTabac.

THIS Genus of Plants is ranged ifi the First Section of Tourneforfs Second Clafs, which includes the Plants with a funnel-fhaped Flower of One Petal, whofe Pointal turns to a Fruit. Mr. Ray places it in the Firft Section of his Nineteeth Clafs, in which he ranges the Plants with a regular Flower of One Petal, which is fucceeded by Capfules. Do6lor Linnaeus ranges it in the Firft Seftion of his Fifth Clafs, which includes those Plants whofe Flowers have Five Stamina and One Style.

The Species here reprefented are,

cibus acutis, tubo floris longiffimo. Tobacco with fpearfhaped Leaves ending in acute Points fitting clofe to the Stalks, fharp-pointed Empalements, and a very long Tube to the Flower. This is the Nicotiana major anguftifolia, C. B. P. 170. Greater Tobacco with a narrow Leaf. This Sort of Tobacco grows naturally on the Coaft of Guiney, from whence I have received the Seeds •, it also grows in the Brafiks, where it is cultivated, and fent to Europe by the Title of fweet-Tented Tobacco.

This Sort rifes with an upright branching Stalk Four or Five Feet high, garnifhed with Leaves which are more than a Foot and Halflong, and Four Inches broad in the Middle, ending in acute Points. They are a little waved on their Edges, and have many deep transverfe Veins going from the Midrib to the Edges, and in warm Weather fweat out a clammy Juice •, the upper Leaves are much narrower and fhorter. The Flowers are produced in loofe Bunches at the End of the Stalks-, thofe which come out from the Wings of the Stalk ftand on long Footftalks, which do each fuftain Four or Five Flowers; but those at the Top of the Stalk fit very close; thefe have Empalements, which are cut into Five acute

Segments. The Tube of the Flower is very long, as b reprefented at a; and at the Top is divided into Five Angles or Points which fpread open, as is reprefented at b\ where the Flower is cut open longitudinally to flew the Situation of the Five Stamina •, Four of which, marked c_y are longer than the other; thefe are terminated by oblong ereft Summits. At the Bottom of the Empalementj marked e, is fituated the Germen, fupporting a long (lender Style d) crofome by an obtufe Stigma; which afterward becomes a conical Veffel, as i> reprefented at /, with a longitudinal Furrow on each Side, reprefented at£, opening at the Top; having Two Cells, as is flewn at h and \dot{z} , where the Capfule is opened longitudinally, and cut transversly to shew the Situation of the small Seeds $k \bullet$, One of which is magni-Fig. 1. NICOTIANA foliis lanceolatis acutis, feffilibus, caly-fied at /. This Plant will live thro' the Winter if it is protected from the Cold \ but as the Seeds ripen annually, fo there are few Peribns who are at the Trouble-to profeso men Nicotiana Pusilla d

Fig. 2. NICOTIANA foliis ovato-lanceolatis, obtufis, rugofis, calycibus breviffimis. Tobacco with oval fpear-fhaped Leaves, which are obtufe and rough, and very fhort Empalements to the Flower. This is the Nicotiana humilis, primula veris folio, Hcuft. MS. Dwarf Tobacco with a Primrofe Leaf.

This Plant was difcovered by the late Do&or Houftoun at La Vera Cruz, from whence he fent the Seeds to England. It hwh a thick Tap Root which runs deep, into the Ground, fending out fome fmall Fibres fron Ahe Sides; and from the Top come out Six or Seven oval fpear-fhaped Leaves, which fpread near the Ground They are about the Size of those of the common Primrofe, but of a deeper Green. The Flower Stalk rifes about a Foot high, branching into Three or Four Divisions, each of which is terminated by a loofe Spike of tubulous fmall P lowers of a yellowifh-greenColouiyfitting in very fhort Empalements. Thefe are fucceeded by fmaB oval Capfules with Two Cells, filled with fmall Seeds

VINCA, Lin. Gen. Plant. 261. Pervinca, Tourn. Inft. R. II. 119. Tab. 45. Clematis Daphncides, Rait Meth. Perriwinkle; in French^-gtmenche.

THIS Genus of Plants is ranged in the Firft Section of Linnaus's Fifth Clafs, which includes those Plants whofe Flowers have Five Stamina and One Style. Tournefort places it in the First Sedion of his Second Clafs, which contains the Herbs with a funnel-fhaped Flower of One Leaf, whose Pointal becomes the Fruit. Mr. Ray puts it in his Eighteenth Clafs, which contains the Plants with a regular Flower which is fucceeded by Two Pods.

The Sptcies here reprefented is,

VINCA foliis oblongo-ovatis integerrimis, tubo floris Icngif-Jimo* cattle ramofo fruticofo. Perriwinkle with oblong oval intire Leaves, a very long Tube to the Flower, and a branching fhrubby Stalk.

The Seeds of this Plant were brought from Madagafcar to Paris, and fown in the King's Garden at im&Mn, where they fucceeded; and from thence I was fui^Med with the Seeds, which fucceeded in the Chelfea Garden. It rifes with an upright branching Stalk to the Height of Three or Four Feet; which at firft is herbaceous and fucculent, covered with a fmooth purplifli Skin, but afterwards it becomes ligneous and tough. This divides upward into feveral Branches, which are garnifhed with oblong oval fmooth Leaves, which are fiefly and intire. At the Bafe of the Leaves come out One Flower with a very long Tube •, which is divided at the Top into Five broad obtufe Segments, which fproad open flat, and are of a bright Peach Colour on their upper Side, as is reprcfented at a -, but of a pale Blulh Colour on the under, as

is flewn at b. Thefe have a very flort Empalemenr which is cut at the Brim into Five acute Segments is reprefented at c; and at d, the Flower \mathbf{E} $\mathbf{c}_{\mathbf{k}}$

not tribe departed from its per Tandut Petal To a set to the Mooth of the Tip J palement which is intentile Style, adSagm-III'IL, I, lews a_e seem when ripe cut open longitudinally, and m JZ. f intire $_5$ n, flews the Seeds taken out of ts $Sf^{2/6}$ * If the Flowers of this Plant are closely $f_1^{h \wedge h}$

the Flowers of this Frant are concluded, her had been as a limit of the beautiful but and the flowers on the Plants for the Months in the Year; for they beginning of Apr. I have make a fine Appearance in the Months in the make a fine Appearance in the Months is Winter they make a fine Appearance in th^M

been exhibited by any Peribn,

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NIGELLA, Tourn. Inft. R. H. 258. fab. 134. Raii Metb. Plat. in. Lin. Gen. Plant. 606. Fennel Flower,, $\ \ r$ Devil in a Bufli.

THIS Genus of Plants is ranged in the Fourth Seftion of Tourneforfs Sixth Oafs, which includes the Herbs with a Rofe Flower, whofe Pointal turns to a Fruit with many Capfules. Mr. Ray places it in the Second Section of his Twenty-fecond Clafs, which contains the Herbs with an uniform regular Flower of Five Petals, whofe Seeds are included in Capfules. Do6lor Linnaeus ranges it in the Fifth Section of his Thirteenth Clafs, which includes those Plants whofe Flowers have many Stamina and Five Styles.

The Species here reprefented are,
Fig. i. NIGELLA piftillis denis corolla longioribus^ Hort. Cliff. 215. Fennel Flower with Ten Pointals which are longer than the Petals. This is the Nigella Orientalisfloreflavefcente^feminealatoplano^ Tourn. Cor. 19-. Eaftern Fennel Flower with a yellowifh Flower, and a flat winged Seed. Doftor Morrifon titles it, Nigella Chalepenfis lutea, corniculis longioribus, Hift. 3. p. 516. Yellow Fennel Flower of Aleppo with longer Horns.

This Plant grows naturally in the Cbrn Fields about J^pught to Years in fome curious Gardens. It is an annual Plant which rifes with a branching Stalk a Foot and Half high, garnifhed with pretty long Leaves, which are diyided into many long narrow Segments to the Midrib. Thefe Segments are again divided into Two, Three, or. Four Parts at the Top •, the Flowers are produced at the End of the Branches. They are composed of Five oblong yellow Petals ending in acute Points •, and at the Bafe of thefe are placed Eight Ne&ariums, with a great Number of Stamina arifing between them, as is repre-

ftnted at a; and between thefe are fituated fometimes Five, at others Eight, Nine, or Ten Germina, which are oblong and comprefled, terminating with fo many Styles* to which the Stigmas are fattened longitudinally, as is (hewn at; b. The Germina afterward turn to fo many horned Capfules, reprefented at c9 which join at their Bale -, having Two longitudinal Seams, as is fhewn at $d \cdot$, the outer one opening as reprefented at £, flowing how the compreffed Seeds are ranged within. / {hews one of the Stamina with its Summit magnified, and g, one of the natural Size, h flews a fingle Petal taken from the Flower, and *, one of the Neftariums or Honey

Cells.

Fig. 2. NIGELLA pefalis tricujpidatis^ foliis fubpilofis^
Hort. Vpfal. 154. Fennel Flower whofe Petals end with Three Points, and the Leaves are a little hairy. This is the Nigella anguftifolia* flore majore cceruleoy C< B. P. 145. Narrow-leaved Fennel Flower with a larger blue Flower.

This is an annual Plant which grows naturally in feveral Parts of Afia \ it rifes with a branching Stalk near Two Feet high, garni(hed with Leaves which are finely cut like those of Fennel. The Flowers are produced at the End of the Branches,, as those of the other Sort. Thefe are compofed of a greater Number of Petals than the other, but have no Neftariums. They have a great Number of Stamina, and the Petals end with Three acute Points, as is reprefented at a -> but the inner Petals end with One Point, as is fhewn at b. At c, is One of the Stamina with its Summit of the natural Size; and dfhews One magnified. At e are reprefented the Five Capfules, which in this Sort are fwollen, and cut tranfverfely •, and/is One of them feparated; thefe are filled with fmall angular Seeds, reprefented at£. Thefe Plants produce their Flowers from June to September in a Succefiion, fo are cultivated in the Flower Gardens for Ornament. Their Seeds ripen in the Autumn*

OENOTHERA, Lin. Gen. Plant. 424. Onagra^ Tourn. Inft. R. H. 302. Tab. 156. Lyfimachia JUiquofa Rail Metb. 100. Tree or Night Primrofe.

HIS Genus of Plants is ranged in the First Section of Linn < eus\ Eighth Clafs, which includes those Plants whose Flowers have Eight Stamina and One Style; Toumefort ranges it in the Ninth Sestion of his Sixth Clafs, which contains the Herbs with a Rofe Flower whofe Empalement becomes a dry Fruit. Ray places it in the laft Sedtion of his Twentieth Clafs, which includes the Herbs with a Flower of Four Leaves, which is of an anomalous Figure.

*The Species here reprefented is,

OENOTHERA foliis radicalibus ovatis, caulinis lanceolatis9 obtoffis, capfulis ovatis fulcatis. Night Primrofe with NUMB. XXXII.

oval Leaves at the Root, those upon the Stalk fpearfliaped and blunt-pointed, and oval furrowed Seed-

This Plant grows naturally in Canada^ from whence the Seeds were brought to the Royal Garden at Paris; and P^rt of the Seeds were fent me by Mr. Richard^ the King's Gardener at Trianon, which have fucceeded in the Cbelfea Garden, This is a perennial Plant with a fibrous Root, from which come out many oval Leaves which fit clofe to the Ground, as is reprefented at a. From between thefe arife One or Two (lender branching Stalks, which grow near a Foot high, garnifhed with fpear-fhaped Leaves ending in blunt Points, as is fliewn at b; thefe are of a light Green, and fit close to the Branches. The Flowers come out fingly from the Wings of the Leaves, as is reprefented at c. Thefe have an Empalement of One Leaf, cut into Five acute K k Segments

Segments which are deflexed, as is fhewn at &\>. The Flowers are compofed of Four oval Petals, which are indented at their Points. They are of a bright yellow ^cCofour; and within the Petals are fituated Eight Stamina, which are terminated by oval Summits, as is reprefented at e\\cdot thefe fpread open, and are little more than Half the Length of the Petals. Under the Tube of the Empalement is fituated an oblong Germen, fupporting a {lender Style, which is fhorter than the Stamina, and is crowned by a four-pointed Stigma, reprefented at//* The Stigma is oblong, thick, and fpreads open, lying upon the Four Petals of the Flower when it is fully blown; but, after the Petals fall off, thefe are

contra&ed before they drop. The Germen, which is fituated below the Tube of the Empalement, afterward turns to an oval furrowed Capfule, reprefented 2X g\ having Four Cells, opening with Four Valves, as is fhewn at $h_{\%}$ inclofing many angular Seeds adhering to a four-cornered Column in the Center. f (hews the Capfule cut transverfely; £, the Seeds of their natural Size; and f, fhews One of them magnified A This Plane begins to (hew its Flowers in June, and the Naturn f, and the Seeds ripen about Two Months after the Flowers have fallen, in the fame Succeflion.

\mathbf{F} 'y '' \mathbf{A} " T $\mathbf{E}_{\mathbf{v}}$. $\mathbf{CLXXXIX}$.

OEKRIPATA, Lin. Gen. Plant. 424, &?r. Tree Primrofe.

HESE Plants are of the fame Genus with that in the former Plate; fo the fame References to the Claffes of the different Authors will do for this.

The Species here reprefented are,

Fig. 1. OENOTHSRA foliis lanceolatis dentatis, caule hif pido. Tree Primrofe with fpear-fhaped indented Leaves, and a prickly Stalk. This is the Oenothera foliis lanceolatis, capfulis acutangulis, Lin. Sp. Plant. 346.

* Tree Primrofe with fpear-fhaped Leaves, and Capfules with acute Angles. Tournefort titles it, Onagra angulifolia, caule rubro, flore minori, Injt. R. H. 302-Narrow-leaved Tree Primrofe with a red Stalk and a fmaller Flower,

This Plant grows naturally in *Virginia*, from whence the Seeds were firft brought to *Europe* •, but having been long cultivated in Gardens, the Seeds have feattered, and thereby propagated the Plants in fo great Plenty, as to appear as if it was a Native of *England*; for where any of the Seeds have been accidentally feattered upon Dunghils or wafte Spots of Ground, the Plants have come up in Plenty the following Spring.

This Sort is a biennial Plant, which rarely flowers the fame Year the Seeds are fown. The First Year there are a great Number of pretty broad fpear-fhaped Leaves produced, which fpread flat on the Ground in a circular Order, like that of a full-blown Rofe'. The Spring following arifes an upright red Stalk near Three Feet high, having many rough Prickles the whole Length, and garniflied with fpear-fhaped Leaves, which are a little indented on their Edges, ending in acute Points. The Flowers are produced fingly from the Wings of the Leaves; which are composed of Four oval Petals, indented at the Top, as is reprefented at a. Thefe are of a bright yellow Colour, and have an Empalement of One Leaf, cut into Four acute Segments, which are deflexed, as is fhewn at b. From the Tube of the Empalement arife Eight Stamina, reprefented at $c\ c$ -, which are terminated by oblong proftrate Summits. In the Center arifes a Style, which is fituated upon the Germen

at the Bottom of the Empalement-, it is fhorter thari

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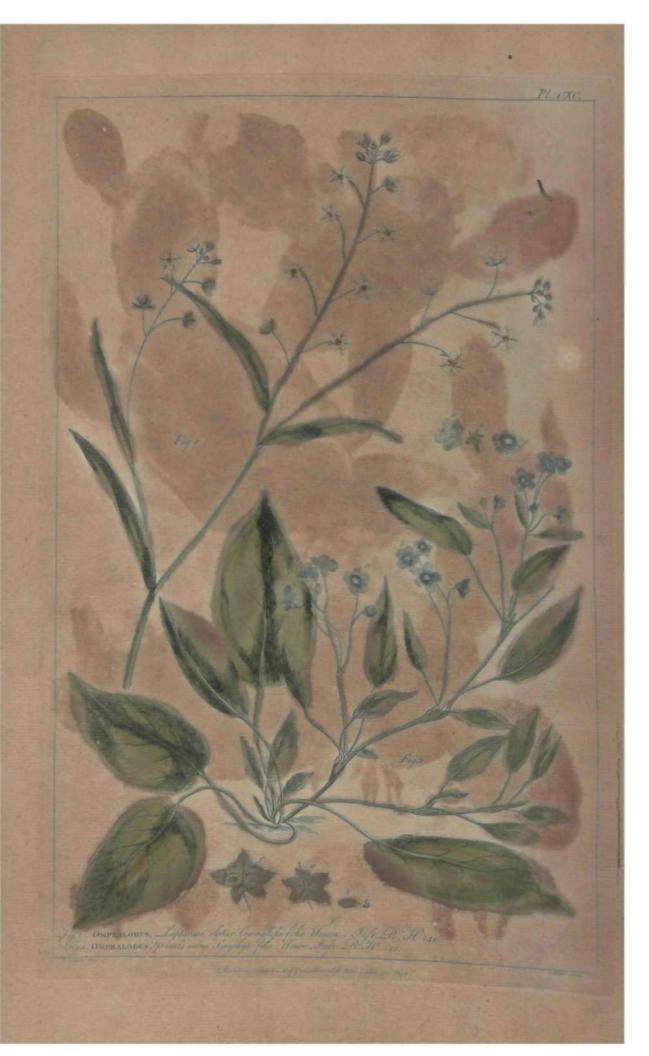
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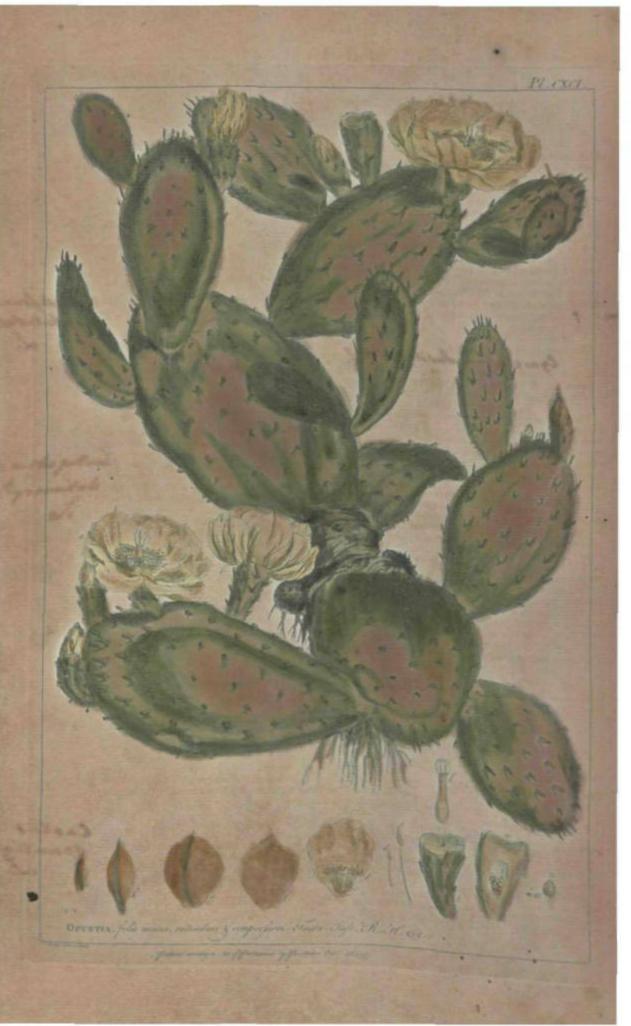
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OMPHALODES, Tourn. Infi. R. H. 140, Tab. 58. Linum umbilicairm, Raii Metb. Plant. 5J. Cynogloffum, Lin. Gen. Pl'M. 168. Venus Navelwort.

HIS Genus of Plants is ranged in the Fourth Section of Tournefort's Second Clafs, which includes the Herbs with a funnel or wheel-fhaped Flower of One Petal, whose Pointal arifes from Four Embryos, which turn to fo many Seeds that ripen in the Empalement. Mr. Ray, places it in his Thirteenth Clafs, which contains the Herbs with rough Leaves whofe Flowers are fucceeded by Four naked Seeds. Doftor Linnaeus places it in the First Sestion of his Fifth Class, which includes thofe Plants whofe Flowers have Five Stamina and XfUu Style#; and he joins it to the Genus of Cynogloffum, or Hound's-tongue.

The Species here reprefented area Here was identity

Fig. 1. OMPHALODES Lufitanka elatior, Cynoglojji folio», Tourn. Infi. R. H. 140. Taller Portugal Navelwort with a Hound's-tongue Leaf.

This Species is generally confounded with the Omphalodes Lufitanka lint folio, Tourn. Inft. 140. Portugal Navelwort with a Flax Leaf; which is titled by Parkinfon, and other old Authors, Linum umbilicatum \ and in Englijh is called* Venus Navelwort. But the former old Sort, which was cultivated in the Gardens, is almost loft in England; for the Sort here figured being a larger Plant, and making a better Appearance, has been generally cultivated fince it was introduced* and the old one has been •negledted. Thefe Two Sorts grow naturally in Portugal, but were not diftinguished till Tournefori was there, who observed their Difference, and inferted them in his Institutions as diffinft Species, which they undoubtedly are •, for I have many Years cultivated them both, and have never found them vary.

This riles with a branching Stalk Eight or Nine Inches high, garnifhed with fpear-fliaped narrow Leaves; but the Bottom Leaves are much broader- They are of a grey Colour and fmooth. The Flowers grow in a loofe Bunch at the End of the Branches; they are white, and composed of Four roundish Petals spread open. Thefe have an Empalement of One Leaf, cut almost to

the Bottom in Four narrow acute-pointed Segments; which fpread open between the Petals. In the Tube of the Flower are fituated Five fhort Stamina, terminated by roundifh Summits. In the Center are fituated Four roundifh depreffed Germina, from which arifes an awlfhaped Style, crowned by an indented Stigma; the Germina afterward become Four deprefled concave roundifh Seeds fitting in the Empalement. This flowers in June, and the Seeds ripen in the Autumn, and then the Plants decay. It is titled by Doftor Linriaus, Cynogloffum foliis Uneari-lanceGhtis glabris, Hort. Cliff. 47. i. e. Hound'stongue with fmooth narrow fpear-fhaped Leaves.

Fig. 2. OMPHALODES pumila verna, Symphyti folio, Infi. R. H. 140. Low Spring Navelwort with a Comfrey Leaf. This is by Cafpar Bauhin titled, Symphytum minus Boraginis facie, Pin. 259. Smaller Comfrey with the Appearance of Borage. John Bauhin call it, Symphytum pumilum repens, five Borago minima Herbariorumi Hi/I. 3. 597. i.e. Low creeping Comfrey, or the leaft Borage of the Herborifts. Doftor Linnaeus titles it, Cynogloffum repens, foliis radicalibus cordatis, Hor^ Cliff. 47* /. e_% creeping Hound's-tongue with heart-fhaped lower Leaves.

This is a perennial Plant with trailing Stalks, which put out Roots from the Joints by which it propagates. The lower Leaves are heart-fhaped, rough, and like thofe of Borage-, the upper are fpear-fhaped. The Flowers ar^* produced upon branching Footftalks from the Side of the Stalks. Thefe divide into Four or Five fmall ones, each fuftaining a blue Flower of One Petal, as is reprefented at a, which has a fhort Tube •, but is divided above in Five roundifh Segments, as is flewn at b and c. Thefe fit in an Empalement, which is cut into Five acute Segments, reprefented at e, and d flews the hinder Part of the Flower with the Tube, taken out of the Empalement. After the Flower is paft, the four Germina, fituated in the Empalement, turn to Four concave/ roundifh, depreffed Seeds, as is reprefented at/; g fhews the Empalement after the Seeds are fallen, h lhews a fingle Seed taken out of its Cover magnified, and /, of the natural Size. It flowers in April and May, and delights in a moift fhady Situation.

OPUNTIA, Tourn. Infi. R. H. 239. Tab. 123. Opuntia feu Tuna, Raii Meth. Plant. 144- CaRus, Lin. Gen. 539. Indian Fig or prickly Pear; in French, Raquette, ou

r T ^ H I S Genus of Plants is ranged in the Second 1 Se6t ion of Tournefort⁹ s Sixth Clafs, which includes the Herbs with a Rofe Flower, whose Pointal or Empalement becomes a Fruit with One Capfule. Mr. Ray places it among the Trees which have a large, foit, umbilicated Fruit. Doftor Linnaeus has joined this Genius, and the Cereus, Melocaflus, and Perejkia together, making them Species of the fame Genus, and ranges it

in the Firft Seftion of his Twelfth Clafs, which includes thofe Plants whofe Flowers have about Twenty Stamina and One Style.

The Species here reprefented is,

OPUNTIA folio minori, rotundiori, £5? compreffiori, Tourn. Infi. R. H. 239. Indian Fig with a fmaller, rounder, and more compreffed Leaf. This is the Ficus Indica feu Opuntia folio minori, rotundiori, £s? compreffiori, H. Indian Fig or Opuntia with a fmaller, rounder, and more compreffed Leaf.

This Plant grows naturally in the more northern Parts of America. It was brought from Nova Scotia, where it is faid to grow common; but has been many Years preferred in the English Garden, where it has feveral Years flood in the open Air without Shelter, upon a dry Soil, and ia a warm Situation. This Species has been generally confounded with the Ofuntia Herbariorum, J. B. which is a much larger Plant, and armed with flronger Prickles. The Fruit is also much larger and of a deeper purple Colour. The Leaves, or rather the Divisions of the Branches between the Joints, are rounder and more compressed in this Sort. Besides, that Sort is not near so hardy as this, nor do the Branches spread on the Ground, but grow more erest.

This hath a Root composed of a great Number of Fibres, which finke down deep into the Ground where they do not meet with Obstruction. The Branches are oval and compressed they are steps, fucculent, and covered with a tough herbaceous Skin, out of which come small Leaves at Distances all over their Surface and from the same Points there are several small altnoss imperceptible Spines come out; which, on the Branches being handled, fallen themselves in the Skin, and are very

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P L A T E CXCII

ORNITHOGALUM, Tourn. Injl. R. H. 378. Tab. 203. , Rail Meth. Plant. 119. Lin. Gen. Plant. 377. Star of Bethlehem.

fTTi H1S Genus of Plants is ranged in the Fourth J[Seftion of Tournefort's Ninth Clafs, which includes the Herbs with a Lily Flower of Six Petals, whofe Pointal turns to a Fruit. Mr. Ray place's it in the Third Seftion of his Twenty-third Clafs, in which are contained what he ftyles, the flowering grafs-leaved Plants ^hich have Six Petals. Doctor Linnaus ranges it in the Firft Section of his Sixth Clafs, which includes those Plants whose Flowers have Six Stamina and One Style.

The Species here reprefented is,

ORNITHOGALUM racemo ccnico laxo, pednnculis longiffimis, florihts erettis. Star Flower with a loofe conical Bunch of Flowers, which grow ereft upon very long Footftalks.

This Plant hath a round, flefhy, bulbous Root, about the Size of a Marble, covered with a white Skin; from which arife Four or Five Leaves, which embrace each other at their Bafe. They are flat, fmooth, of a deep Green, and intire; about Eight or Nine Inches long, and Half an Inch broad in the Middle. From between the Leaves come out One, Two, and fometimes Three Flower Stalks, which rife about a Foot high. They are naked up to the Flowers, under which are fituated Three or Four Leaves, as is reprefented at a; thefe fit clofe

end in acute Poini ^ S . p? 6** the y are broadeft, and long Footftalks; thev L their first Appearance, expanded if the &anns composed of Six oblong c X w T * at C. The feare which are of a pure White Six Stamina, which aw nlr w 10 ? n these as fituated of tte Petals, as a f t ^ Half ^ Length roundim Summits. AtZ iLi ______ T te^inated by atedaroundifhGermen L ? Length of the Pe * is fituated of the other foon falls off ^ 1 - 1 Length Permanent, bun and the other when S! ^ r manent one is marked fittle to a representation of the state of the other foon falls off ^ 1 - 1 Length of the fear of the other foon falls off ^ 1 - 1 Length of the fear of the other foon falls off ^ 1 - 1 Length of the fear of the f

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P L A T E CXCIIL

OROBUS, Tourn. Infl.R. H. 393. Tab. 214. Raii Meth. 104. Lin. Gen. Plant. 780. Bitter Vetch in French, Orobe.

i HIS Genus of Plants is Ranged in the Second SefHon of fourkefort's Tenth Clafs, which includes the Herbs with a Butterfly Flower, whofe Pointal turns to a long Pod, with One Capfule. Mr. Ray places it in the Second Seflion of his Twenty-firft Clafs, which contains the leguminous Plants with winged Leaves which do not climb. Doftor Linnaeus ranges it in the Third Sedtion of his Seventeenth Clafs, which includes the Plants whofe Flowers have Ten Stamina joined in TWo Bodies.

The Species here reprefented are,

Fig. 1. OROBUSfoliis pinnatis ovato-oblohgis, Jlipulis rotundato-lunatis dentatis, caule Jimplici Lin. Sp. Plant. 728. Bitter Vetch, with oblong oval winged Leaves, roundifh moon-fhaped indented Stipulse, and a fingle Stalk.

This Plant grows naturally in Siberia, from whence the Seeds were brought to the Imperial Garden at Peterfburgh\(^\) where they fucceeded; and from thence the Seeds were fent me a few Years paft. This hath a perennial Root, and an annual Stalk, which decays early in the Autumn. In the Spring there are Three or Four Stalks which rife from the Root, in Number proportional to the Strength and Age of the Roots. Thefe are near a Foot long; they are herbaceous, fmooth, and, if not fupported, decline toward the Ground. The Leaves come out from the Joints of the Stalk •, they are winged, and composed of Four or Five Pair of oblong oval Lobes, as is reprefented in the Figure; thefe are of a yellowifh green Colour, contracting every Afternoon, and in wet Weather, but expand in the Morning. The Flowers come out from the Wings of the Leaves upon Foot-

ftalks, which are about Three or Four Inches long; and divide into fmaller, each fuftaining One purple Butterfly Flower, with a fhort tubulous Empalement, cut at the Top into Five acute Segments, reprefented at a, out of which arifes the Flower, composed of a broad reflexed Standard, represented at b, and an oval concave Keel, marked c. The Two Wings are fmall, and alrhbst hid by the Keel, represented at e, where they are contrasted; but One of them is stiewn at d, which is spread open -, / fliews the Stamina with their Summits, and the Style with its Stigma. These Flowers appear towards the End of Aprils and are succeeded by long Pods, represented at h, which open lengthways, as is represented at u and contain one Row of roundish Seeds Which ripen in July.

Fig. 2. OROBUS foliis pinnatis ovatis acutis, quatuor jugatis, caule Jimplici. Bitter Vetch, with oval acute winged Leaves, having Four Pair of Lobes, and a fingle Stalk. This is the Orobus Venetus Cluf. Hift. 232. The Venetian Vetch.

The Title of this Plant upon the Plate was, by Miftake, transposed from another Drawing •, fo the Reader is defired to correct it, as it was occasioned by the Change of our Engravers.

This hath a perennial Root, from which arife Two or Three fingle Stalks about å Foot long, garniflied with winged Leaves, compofed of Four Pair of oval Lobes ending in acute Points. They are fmooth, of a yellowifh Green, and Hand pretty far diftant upon the, Midrib. The Flowers come out from the Wings* of the Leaves upon (lender Footltalks, each fuftaining Four or Five purple Flowers, fhaped like thofe of the firft Sort, but fmaller, and not fo openly expanded. Thefe Flowers appear toward the End of March, and continue great Part of April, but feldom are fucceeded by Seeds in England.

P L A T E Q&QIV.

JSTEOSPERMITM, Lin, Gen. Plant. 887. Chryfanthemoides Tourn. Aft. R. Par. 1705. Monilifera Vaill. Ati. R. Par. 1720. Hard-feeded Chryfanthemum.

THIS Genus of Plants is ranged in the Fourth Section of Linn<zus\ Nineteenth Clafs, which rtcludes thofe Plants with compound Flowers which lave hermaphrodite Flowers in the Center that are barren, and female Flowers in the Margin which are fruituii.

The Species here reprefented is,

Fig. 1. OSTEOSPERMUM foliis laficeolntis acute dent at is, caule fruticcfo. Hard-feeded Chryfanthemum, with fpear-fhaped Leaves acutely indented, and a fhrubby Stalk.

This Plant grows naturally at the Cape of Good Hope, from whence I received the Seeds. It rifes with a fhrubby Scalk Four or Five Feet high, dividing into many Branches towards the Top, which fpread out flat on every Side; they have a purplift Bark, and are gar-NUMB. XXXIII.

niflied with fpear-fhaped Leaves, which have feveral acute Indentures on their Edges, reprefented at a •, thefe this this confidence, and fucculent, francing alter-mately of the Branches, having year Milion Footbalks and are of a light eeVtfoldur; tney are from Kvo to Three Inches long, and One Inch broad in the Mid-* die, leflening gradually to both Ends. The Flowers ftand fingle upon long Footftalks, which arife from the Wings of the Leaves, and have a feW very fmall Leaves growing alternately their whole Length \ and at the Top comes out the Flower, which appears clbfed, as is reprefented at b, in a fingle hemifpherical Empalement* conipofed of many fmall awl-lhaped Leaves. Flower is radiated, the Border being compofed of feveral female Half-Florets, reprefented at $c_{\%}$ which fpread open, and are fruitful. The Center of the Flower is composed of hermaphrodite Florets, reprefented at d> which are tubulous, and indented at the Top in Five Parts, but thefe are barren. The female Half-Florets have a globular Germen, which afterward turns to an oval Berry, reprefented at e_2 which is first green, then red, but, when fully ripe, of a dark purple Colour, having a thin Pulp, which covers One hard Seed* L 1 repre-

teprefented at / and g; the latter being of the natural Size, but the former is a little magnified.

This Plant approaches near to the OJleofpermum frutefcens^ fubrottindis foliis, ad or as dentibus rubris notatis Burm. Plant. African. P. 169; but the Leaves of this are fhorter, rounder, and n?ore indented on their Edges, and have longer Footftalks. The Flowers have a much greater Number of Rays, which are fhorter and more obtufe than those of our Plant > fo that we may pronounce it a diftindt Species.

The Plant here figured continues in flower great Part of the Year; and those Flowers which appear early in the Spring, are frequently fucceeded by Fruit which ripens in the Autumn.

OTHONNA Lin. Gen. Plant. 888. Jacob&a HorL Arnft. Jacobteajlrum Vaill. Aft* R. Par. 1720. Baftard Rag-

This Genus of Plants is ranged by Doctor Linnaus in the fame Section and Clafs with the former.

The Species here reprefented is,

Fig. 2. OTHONNA foliis pinnatifidis^ laciniis linearibus paralklis Hort. Cliff. 419. Othonna with wing-pointed Leaves, whofe Segments are narrow and parallel. This is the Jacobtea Ajrkana frutefcens, foliis abfinthii umbel'liferi incanis Hort. Amji. 2. P. 137. Shrubby African Ragwort, with hoary Leaves like, the umbellated Wormwood.

This Sort rifes with a fhrubby Stalk from Two to_v Three Feet high, fending out feveral Branches toward the Top, which are closely exami(hed with hoary Leaves Handing without Order. They are cut into many narrow Segments almoft to the Midrib, and thefe are indented at the Top, as is reprefented at a. The Flow* ers ftand upon long naked Footftalks, which arife from the End of the Branches \ thefe have an Empalement of One Leaf, divided into Eight or Ten Segments, which are obtufe at their Bafe, but end in acute Points, reprefented at c. The Flower is composed of feveral female Half-Florets in the Border; and the Diflc or Middle is made up of hermaphrodite Florets, reprefented at[^]. The female Half-Florets, or Rays, are indented at their Ends . in Three Parts; they are of a bright yellow Colour, and are fucceeded by Seeds; but the hermaphrodite Flowers in the Center are barren. This Plant flowers in March, April** H ^ > t y ^ S S ^ gtC^fiedfl^by Seeds in England. It is a very ornaftier Plant in the Greenhoufe -, for its filvery Leaves continuing all the Year, make a vgry fine Variety when intermixed with other foreign Plants; and as thefe produce their Flowers early I in the Spring, fo at that Seafon they are beautiful.

CXCV.

OXALIS, Lin. Sp. Plant. 515. Oxys Tourn. Inft. R. H. 88. (AL15, Lin. 5p. 1 tank. 515. Copy 15 Copy 1 Wood Sorrel; in French, Alleuia.

HIS Genus of Plants is ranged in the Fifth Section of Linn eus's Tenth Clafs, which includes the Plants whofe Flowers have Ten Stamina and Five Styles. Tourncfort places it in the Third Seftion of his Firft Clafs, which contains the Herbs with a bell-fhaped Flower of One Leaf, whose Pointal turns to a dry Fruit oi Head) with feveral Capfules. Mr. Ray ranges it in his Nineteenth Clafs, where he places the Herbs with a Flower of One Petal, which is fucceeded by a Fruit with many Cells.

The Species here reprefented are,

Fig. 1. OXALIS Scapo u^j^Uf^vo^foliis ternatis bipartitis Lin. Sp. Plant. 434. Wood Sorrel with an umbelliferous Stalk, and trifoliate Leaves divided into Two Parts. This is the Oxys Africana bulbofa^ fioribus ampiłs luteis^ foliis minimis hirfntis Raii Hifl.JIfA* 94*#
* U+ ***** /C*v* *£

This Plant grows naturally at the Cape of Good Hope, from whence the Roots were fent me. It hath a fmall bulbous Root, covered with a purplifli Skin, from which come out feveral trifoliate Leaves upon very long Footftalks; thefe are fmall, hairy, and indented at their Ends in Two Parts, as reprefented at a, of a bright green Colour. The Flowers ftand upon very long Footftalks, which divide at the Top into fmaller, as is flewn at b; each of thefe fmaller Footftalks fuftain One bright yellow Flower, reprefented at c, which is cut into Five obtufe Segments. In the Center of the Flower is fituated the Germen, furrounded by Ten Stamina, as is fhewn at d', thefe arise from the Side of the Column, as prefented at e. The Column is terminated by Five Stiles, as is flewn at/; thefe are magnified, and at g they are reprefented of their natural Size, h flews the Fivecornered Capfule fully grown; and /is One cut through transversely to shew the Five Cells -, and at k are Two of fla; Seeds taken out of the Capitale. This Plant Rowers

Fig. 2. Oxacle feago anillero, felis ternata, radice fqua-Superinsta Herr, Chif. 175. Wood Sound with One Flower upon a Stalk, tabilize Leaves, and a squamon joined Root. This is the Copy fore ally Towns. Ing. R. H. 85. Wood Sound with a white Plean. Take Bankin with a Copy for Stalk Plean. Plemer. Yoka Backin vites in Ones for trifations acidens Ihis, v. 487 : Oxys, or Sower Teclail. It is the Projection designme trajecte, Acre lastes C. B. P. 330. Common three-leaved Social with a milk-white-

tralis acc This Plant grows negatively in randic thody Woods in oth Parts of England; and Years in has been most Parts of England; and as a Stillad Hern.

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being finall and tender mix Letter with the line of this, of I hich Sallets are uffoall to sallets. The sallets are uffoall to sallets are uffoall to sallets. The sallets are uffoalled by arSe; and db line of the line of the diffinguished from Le yellow Ari to sallets. The sallets are sallets are uffoalled by the sallets are sallets are sallets are uffoalled by the sallets are sallets are sallets are uffoalled by the sallets are sallets are sallets are uffoalled by the sallets are **ftands upon** a feparate FootftalkTr] f''_{TM} **? of this as do also the Flowers whichT com g^{-1}_{TM} the Root in. Lh.

would alt open and to a pfull-524 Colour within, and have linne purplich Stripes on the Outlide, as is represented at b. Tooks are succeeded to pyramidal Projectatored Captules, represented at a which have Fire Cells, so is thewo at a chele are offed with faialt oval Seeds, as is shown at a. When the Seeds are tipe, the Captions, on being touched, fixing open with an Electricity, and cust our the Sands to a conflicter able Dillage. The Leaves of this Plant are used in

with repoplaries POPZ OXALIS



P L A T E CXCVL

PADUS Theoph. Lin. Gen. PL ed. prim. *Cera/us Tottrn. Infi. R- H. 625. "tab. 401. Padus Ran Meth. Plant. 150. Prunits Lin. Gen. ed. 5. The Bird Cherry, vulgo; in French^ Bois de Sainte Lucie.

THIS Genus of Plants is by Tournefort joined to the Cherry, and is placed in the Seventh Sedlion at his Twenty-firfl. Clafs, which contains the Trees and Shrubs with a rofe-fhaped Flower, whose Pointal turns to a Fruit inclofing a Stone. Mr. Ray ranges it among the Trees with a moift Fmit inclofing a Stone, which grow in long Bunches. Doftor Linnaus^ in the laft Edition of his Genera Plahtarum, and in his Species Plantarum₉ has joined the Plants of this Genus to the Plumbs, as he alfo has all the Species of Cherry. But as the Fruit of thefe and the Cherries are remarkably different in their Shape from the Plumb, and neither of thefe will grow when grafted or budded upon Stocks of the other Sorts, fo there appear a natural Separation between the Plumb and the Cherry; and as the Flowers of this Genus are difpofed in long Bunches or Spikes; fo that is a very obvious Mark of Diffindtion from the Cherry, which fhould not be omitted.

The Species here reprefented are:

Fig. 1. PADUS foliis oblongo-ovatis^ fempervirentibus eglandulofis\ Padus with oblong-oval evergreen Leaves, which have no Glandules to their Footftalks. This is the Lauro-cerafus Lufitanica minor Azarero Lufitanorum Tourn. Infi. R. H. 628 •, Small Portugal Laurel, by the Portuguese called Azarero. In the Hortus Cliffortianus it is titled, Padus foliis fempervirentibus ovatis* p. 185; and in the Hortus Upfalienfis* Padus foliis glandula dejlitutis^ p. 126; Padus with Leaves having no Glandules. In the Species Plantarum it is titled, Prunus floribus racemofis^ foliis fempervirentibus eglandulofis, p. 473; Plumb-tree with Flowers in long Bunches, and evergreen Leaves without Glandules. It is commonly known among the Gardeners by the Title of Portugal Laurel or Cherry,

This Tree is fupposed to grow naturally in *Portugal*; but I rather believe it has been imported from some other Country, for it is rarely found there but in Gardens. It rifes with a strong Tree-like Stem to the Height of Twenty Feet or more, fending out many Branches on every Side, which have a shining purplish Bark, and are garnished with strong evergreen Leaves standing upon short Footstalks. They are of a lucid Gnien, about Three Inches long, and an Inch and half brdad in the Middle; they are sometimes (lightly sawed on their Edges, but generally they are intire. The Flowers are produced in long Spikes, as is represented at $a \setminus b$ they are composed of Five roundish Petals, which expand in Form of a Rose, represented at b; within these ar Stuated about Twenty Stamina, which are half the J Jhgth of the Petals, and terminated by obtuse

Stamina, as is reprefented at*/; thefe ftand about an oval Germen, which fupports a Style the Length of the Stamina, crowned by a roundifh Stigma, The Germen afterwards turns to a roundifh pulpy Berry, reprefented at £, which when ripe is of a dark purple Colour, inclofing an oval Stone, reprefented at/, in which there is inclofed a Kernel of the fame Shape.

This Plant flowers in *June*, and the Berries ripen ia *Ottober*[^] which fhould be gathered as foon as they are ripe, otherwife the Birds will devour them.

This is one of the moft beautiful Evergreen Trees which we have in the *Englifh* Gardens, efpecially when it is planted in a loofe moift Soil, where it rifes with a very thick Stem; the Branches are covered with a bright purple Bark, which, together with the fhining green Leaves* make, a fine Appearance; and when the long Spikes of white Flowers are thruft out from the Branches, they greatly add to its Beauty; and as it is very hardy* being very rarely injured by the fevereft Cold of our Winters, fo there is not any Tree which better deierves our Care to propagate.

Fig. 2. PADUS foliis lanceolato-ovatis deciduus, petiolis biglandulofis; Padus with fpear-fhaped oval Leaves which fall off in Autumn, whofe Footftalks have Two Glandules. This is the Cerafus ractmofus Jyhefiris fruflu non eduli rubro H. R. Par. Wild Cherry whofe Flowers are difpofed in long Branches, and a red Fruit not eatable: And the Ceracia racemofa rubra Tab. Icon. 987; Red racemous Cherry* commonly called Cornift Cherry in the Gardens.

This has been generally confounded with the Common Bird Cherry; but most of the late Writers on Botany have supposed they were the same, differing only in Culture; but I have raised both Species from Seeds, and have always found the young Plants keep the Difference of the parent Plants.

It rifes with an upright Stem to the Height of Eighteen or Twenty Feet, fending out Branches on every Side at the Top, which form a regular Head; whereas the Common Bird Cherry rifes with feveral Stems, the Branches grow diffufed, and cannot be regularly trained. The Leaves of this are more of an oval Shape, and not fo rough as thofe of the other; the Spikes of the Flowers are fhorter, and the Flowers ftand mucH clofer in the Bunches; the Petals of the Flower are rounder, as is reprefented at 0, and the Fruit is much larger, as is fhewn at b. Thefe are not fo greedily devoured by the Birds as thofe of the common Sort, which do feldom remain on the Trees to be perfectly ripe.

This is raifed in the NurferieS, and fold as a flowering Shrub for Ornament* and is much preferable to the common Sort, becaufe it grows regular, and does not intermix its Branches with the neighbouring Trees. It flowers in May, and the Fruit ripens in AuguJL

PANCRATIUM, Lin. Gen. Pldnt. 365. Narcijfus *Tbnrn. tnji.R. H. 353. Tab. 185. Rail Metb. Plant. 116; Sea Daffodil

THIS Genus of Plants is ranged in the First Section of Linn.rus's Sixth Clafs, which includes thole Plants whole Flowers have Six Stamina and One Style. Tournefort places it in the Second Section of his Ninth Clafs, which includes the Herbs with a Lilly Flower of One Leaf cut into Six Segments, whofe Empalement turns to a Fruit. Mr. Ray ranges it in his Twenty-third Clafs, which contains the bulbous-rooted Plants whofe Flowers fit on the Top of the Fruit.

The Species here reprefented is,

latis Lin. Sp. Plant. 291; Sea Daffodil whofe Spatha or Sheath inclofes many Flowers with plain Petals, and Leaves which are tongue-fhaped-This is the Narcijfus maritimus C. B. P. 34; Sea Daffodil. Clufius titles it, Hemejrocallts Valentina Hijfi. Sp. 167. and John parva Hijl. 2. 611; Montpelier Sea Daffodil[^] and by fome, Small White Squill.

This Plant hath a large oblong bulbous Root, refernbling that of the Squill, but fmaller, covered with a Brown Skin, and within white, compofed of feveral Coats like those of the Onion, -which are pellucid and

gently ftriped, vifcid, and full of a clammy Juice, bitter to the Tafte without Acrimony; from thefe arife Seven or Eight Leaves (in full-grown Raots) which are Twelve or Fourteen Inches long, flat* of a gray Colour, and rounded at their Ends •, between thefe arife a flrong Flower-ftalk a Foot and an half high-, naked to the Top, where in a membraneous Sheath are inclofed many Flowers. This Sheath divides into Two Parts, which turn backward to let out the Flower buds. The Flowers are of One Leaf, cut into Six fpear-fhaped Segments almost to the Bottom, as is represented at a, so as to appear like fo many diffinft Petals; but they are joined together at their Bafe. In the Center there is a cylindrical Nedtarium of One Leaf, which is cut into Ten Segments at the Top, which fpread open, in which are in-PANCRATIUM fpatha multiflora\(^{\text{petholis plants}}, foliis linguing letted the Six long Stamina, which lie incumbent on letter line Six long Stamina, which lie incumbent line six long Stamina, which line six long Stami the Segments of the Petal, and are terminated by decumbent rifing Summits, reprefented at c c. The Germen is fituated under the Flower, as is Ihewn at b^* from the Top of which arifes the Style d, which is crowned by a fmall oval Stigma •, the Germen e afterwards turns Bauhin, Pancratium Monfpefulanium, multis -9 Scilla alba to a roundish Three-cornered Capfule, with Three Cells filled with large black Seeds. This Plant grows on the Sea Shore in the South of France, Spain, and Italy.

There are fome Species of this Genus which are Natives of *America*, whofe Germen or Receptacle turns to Bulbs, as is reprefented at /; and others with an ovalflefhy Capfule, as is Ihewn at g, which include fmall Seeds, fhewn at h.

CXCVm

THIS Plant is joined to the common Horfe-chefnut by Doftor Linnaeus, who ranges it in the Firft Seftion of his Seventh Clafs, which includes those Plants whofe Flowers have Seven Stamina and One Style. This was feparated by Doftor Boerbaave from the Horfe-chefnut, because the Flower is contracted like a Beak, and the Cover of the Fruit is not prickly. "There is but this One Species at prefent known.

PAVIA Boerh. Ind. alt. 2. p. 260; Scarlet Horfe-chefnut. This is the Saamouna Pifonis filiquifcra Brajilitnjis arbor, digitatis foliis ferratis, fioribus Teucrii purpur eisPluk. Aim. 326. Doftor Linnaeus titles it, JŜfculus fioribus o'clandris Sp. plant. 344; Efculus with Flowers having Five Stamina.

This Tree grows naturally in Brazil and Carolina, where it rifes with a woody Stalk Eight or Ten Feet high, covered with a fmooth Bark, and divides into feve* ral Branches, which are garnifhed with hand-fhaped

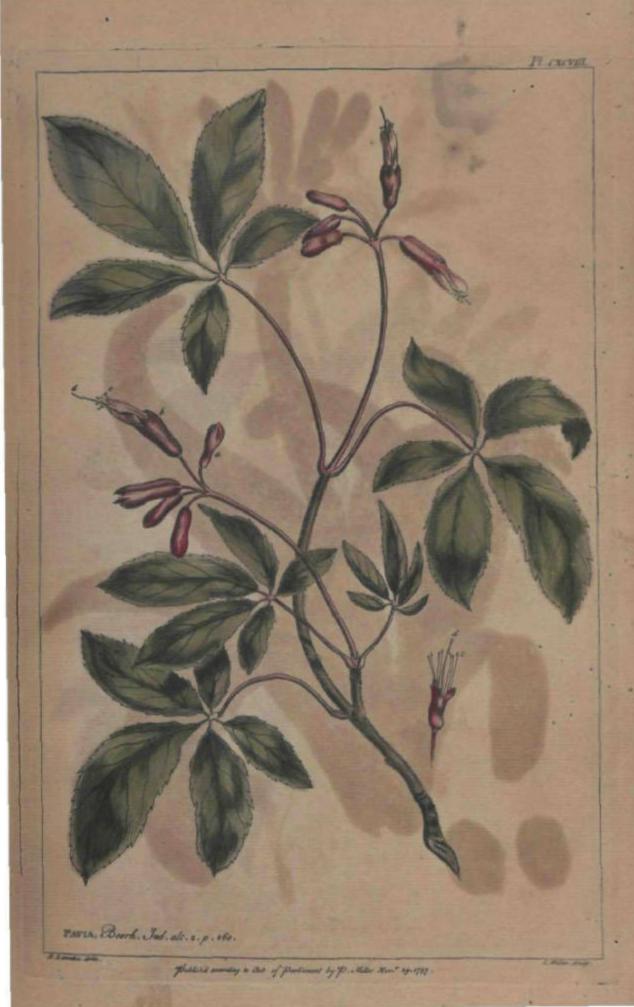
PAVIA, \Boerh. Ind. alt. 2. p. 260. Efculus Lin. Gen.

Plant. 420 -. The Scarlet Horfe-chefnut.

Leaves, composed of Five fixer-Origed Labra units at diric lieft, where they join the Fourfalk. They the fawor on their Edges, are of a light Green, and tree placed copolite on the Branches, flanding upon long Foodbacks. The Blowers are perdured areen the End of the Branches upon iony, nakoal Fractales, each fictioning Pour or Five Plawers; these are tubelous, as is represented or a and b, opening a little of the Tops where the Stamina peep (ort, as is there at a c, which are terminuted by roundally Sammira, thefe are Sammiras stren, and st ght, in Number. In the Midstren, and st ght, in Number. In the Midet the Style d, which is much
red Col
fucest, for in February are of a bright
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The first in February are of a bright
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The collection the contents of the collection of the collection. set of presiding about the colpution is the mail: conuman Method of Hode-c copaging the Trees Lerc), they grow to a greater Propagating on Their man Room; but as the Graft never being pace in Growth with the Sanck, so they appear unlightly, and are frequently blown out by firong



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PEUNTA, Tourn. Inji. R.H. 273. Tab. 1-46. Rait Meth. Plant. 77. Lin. Gen. Plant, 600. Piony •, in French^

HIS Genus of Plants is ranged in the Sixth Section of Tourneforfs Sixth Clafs, which includes the Herbs with a Rofe-flower, whofe Pointal afterward turns to a Fruit composed of feveral Capfules. Mr. Ray places it in the Second Sedtion of his Eighteenth Clafs, which contains the Herbs with many Pods and regular Flowers, whofe Leaves are narrow and lefs fucculent. Dr. Linnaeus ranges it in the Second Section of his Thirteenth Clafs, which includes the Plants whofe Flowers have many Stamina and Two Styles. The Charafters of the Genus are exhibited in the Gardeners Dictionary.

The Species here reprefented is,

PAUBI foliis difformiter lobatis pubefcentibus. Piony •With difform lobated Leaves, which are downy.

Of this there are Two Varieties, one with a fingle and the other with a double Flower. The Seeds of this Sort were brought from the Levant; and both the fingle and double Flowers were produced from the fame Seeds. The Roots of this are compofed of a great Number of oblong flefliy Tubers, which are joined to the Crown of

the Root by fmall Strings of the fame (^olour with th* Tubers. The Leaves are very irregular in their Form, fome being composed of Eleven, and others of Thirteen Lobes. The Footftalk feparates into Three Divifions, as is reprefented at a: The Two Side Divifions next the Stalk are, for the most part, compose of Three Lobes; but the middle one, which is extended in Length, is commonly composed of Seven Lobes, as is (hewn at b. Thefe Lobes are narrow, fmooth, and intire on their Edges: They are fmaller than those of the common Sort, and are covered with a foft hairy Down. The Stalks do not rife fo high as those of the common Piony, feldom being more than a Foot and a Half long: They are terminated by One Flower, of a bright red Colour, as is reprefented at c. Thefe are fmaller, and lefs double, than those of the common Piony; and have generally Three, fometimes Four, and at others Five, Germina in their Center: Thefe afterwards turn to fo many downy oblong Capfules, reprefented at d-9 Two or Three of which are much larger than the reft: Thefe open longitudinally, as is fhewn at e, difplaying Two Rows of ihining black Seeds, which adhere to a deep-red flefhy Placenta. The Seeds are oval, terminating in a Point at the End," which is fattened to the Placenta, as is reprefented at e.

The Flowers appear in June^ and the Seeds ripen in September. This Sort is not fo hardy as the common Piony, nor do the Roots increase fo fast.

PENTAPETES, Lin. Gen, Plant, 757. Pterofpermadendron Amm. Ruth. Scarlet Ketmia vulgo.

HIS Genus of Plants is ranged in the Third Seftion of Linn<€its^y% Sixteenth Clafs, which includes those Plants whose Flowers have many Stamina joined in One Body. The Characters of this Genus are exhibited in the Gardeners Dictionary.

The Species here reprefented is,

PENTAPETES foliis haftato-lanceolatis ferratis Lin. Sp. Plant. 698. Pentapetes with arrow fpear-lhaped fawed Leaves. This is the Blattaria Ceylanica^ flore amplo cocdneo Hort. Amil. 1. Tab. 6. Moth Mullein of Ceylon with a large fcarlec Flower. Mr. Ray titles it Hifi. Supp. 523. Indian Vervain Mallow with a ihining arrow-fhaped Leaf, and a fcarlet Flower like the Moth Mullein. Dr. Plukenett has given a very bad Figure of this Plant in his Phytographia, Tab. 126. /• 4. by the Title of Alcea fruticofa, pentaphylloides by Vervain Mallow, emulating the Baftard Cinquefoil, with a beautiful red Flower, and the Empalement ftretched out.

The Figure of this Plant, which is engraven in the r lrft Volume of the Amfterdam Garden, is far beyond NUMB. XXXIV.

Nature: The Leaves of the Plant are near twice the Size of thofe of the moft vigorous Plant I have yet feen, and the Indentures on the Edges are much deeper than they ever appear in Nature; but yet we may be' allured of that being intended for the Plant here exhibited. Indeed, many of the Figures in that Volume do greatly exceed the Plants, when growing in their native Soil. The Figure of this Plant, in Plukenett's Phytcgrapbia₉ is, oil the contrary, as much too fmall; and the Leaves of the Plant are not a Third Part fo long as* they are in Nature. That which is here exhibited is as true a Reprefentation of the Plant as can be given.

It grows naturally in India, from whence I have feveral times received the Seeds, This is an annual Plant, with an upright Stalk, from Two to Three Feet high, fending out feveral Side Branches from the lower Part Alcea Indica^lucido h afi at 0 folio ^flore Blattaria Phcenicio of the Stalk: Thefe are garnifhed with fhining greenP Leaves; fome of which are cut into Three Parts toward their Bafe •, the Two Side Segments being fhort, and acute-pointed: The middle one is extended to a great Length beyond them -» fo that thefe Leaves are formed like Points of Arrows, or those of Huberts: Others <emula,floribus amcsniffime rubellis^calyce produtlo. Shruthave no Jaggs on their Sides, but are oblong and fpear-</p> fhaped: They are fome of them (lightly fawed on their Edges, and their Surface a little rough, (landing alternate on the Branches: Their under Surface is of a pale green, and a little hairy. From the Wings of the Stalk come out the Flowers: Sometimes there are Two arifing from the fame Footftalk of the Leaf; but in M m general

general they are fiflgle, each {landing upon a diftindt Footftalk. The Empalement of the Flower is of One Leaf, cut at the Top into Five acute Segments, which are extended almost the Length of the Petals, and fpread open every Way. The Flower has but One Petal, which is cut into Five obtufe Segments, reprefented at a: Thefe are divided almost to the Bottom; but as they are joined at their Bafe, and fall off without feparating,* fo it is called a Flower of One Petal. There are Fifteen fliort Stamina fituated in the BlofTom of the Flower, which are narrow, and are terminated by oblong ereft yellow Summits; and between thefe arife Five large red Stamina, which are barren, reprefented at b -, one of thefe rifing between every Three of the fliort Stamina, as is fhewn at J, where there are Two of the barren Stamina reprefented, with the Three fliort ones between, in the Manner they are con-

nected_together. Between thefe arife a (ingle Style, which is longer than the coloured Stamina, crowned with a thick Stigma, as is reprefented at c. The Germen, which is fituated in the Center of the Flower, afterward turns to a roundifh Capfule, which is fhewn at e, fitting in the Empalement of the Flower: This is divided into Five Cells, as is reprefented by/andg which opens into Two Valves - each Cell containing Two Rows of oblong Seeds, which are narrowed ac their Bafe, reprefented at h.

This Plant muft be raifed on a Hotbed, and brought forward in the Spring, otherwife it will not perfedt S<£ds here 5 and, when it is fo managed, it will flower in July, and there will be a Succeffion of thefe Flowers till Autumn: But those Flowers only will be fucceeded by good Seeds, which flower early in the Summer.

PER sic ARIA, Tour. Iuft. R. II. 509. Tab. 290. Raii Metb. Plant. 21. Polygonum Lin. Gen. Plant. 445. Arfmart -, in French', Perficaire.

THIS Genus of Plants is ranged in the Second JL Seftion of Tournefort's Fifteenth Clafs, which includes the Herbs with a ftamineous Flower, whofe Pointal turns to a Seed wrapped up in the Empalemeot. Mr. Ray places it in the Second Section of his Fifth Clafs' which contains the Herbs with ftamineous Flowers' which are joined to the Fruit. Dr. Linnaus has joined this Genus, with the Bifiorta and Fagopyrum of Tournefort* to the Polygonum; which he ranges in the Third Sedtion of his Eighth Clafs, which includes those Plants whofe Flowers have Eight Stamina and Three Styles.

The Specie here reprefented is,

V ERSICARI A foliis ovato-lanceolatis acutis, floribus pent an-• driSj caule erefto. Arfmart with oval fpear-fliaped acute-pointed Leaves, Flowers with Five Styles, and an eredt Stalk. This is the Perficaria Orientalis^ nicotians folio, calyce forum purpureo Tourn. Cor. 38. Eaftern Arfmart with a Tobacco Leaf and a purple Empalement to the Flower. T)r. Linnaus titles it ereUlo, Jlipulis hirtis Sp. Plant. 362. Knot-grafs whofe Flowers have Seven Stamina and Two Styles, with oval Leaves, an ere-5t Stalk, and hairy Stipule. And in the Catalogue of Clifford"s Garden, he titles it Perficaria florum flaminibus fex pluribufque, flylo duplici, 42 Arfmart with Six and more Stamina in the Flower, and a double Style.

The Seeds of this Plant were, first fent to Europe by Dr. Tournefort, who faw it first growing in the Prince of Teflis's Garden in Georgia, and afterwards in the Garden of the Monks of the Three Churches near Mount Ararat \ but ha could not learn where it grew naturally. They cultivate thL Plant in the Gardens of Georgia and Armenia, not only for the Beauty of its Flowers, but alfo for the Virtues with which the, Plant is pofleffed;

which are nearly the fame with those attributed to the common Arfmart of Europe.

The Root of this Plant is composed of many ttron-, Fibres, which grow in Tufts, and extend to a gre* Length from the Center. The Stalk is joined in tUe fame Manner as those of the common Sort: It riles Eight or Ten Feet high: The lower Part of the Stallbecomes ligneous, and as thick as an ordinary Walking* Cane, of a fine green, and a little hairy. The Leaves come out alternately at the Joints, which are often a Foot long, and Six Inches broad in the Middle, leflening toward each End, and terminating in acute Points: They have One ftrong longitudinal Vein running throu the Middle, and feveral tranverfe Veins, which run upward toward the Point: Their Surfaces are a little hairy; the upper being of a bright green, and the un-der of a pale Colour. The Footftalks of the Leaves are broad, and at their Bafe half embrace the Stalk* The Flowers are produced in Spikes at the Top of the Stalk, and the Ends of the Branches, in clofe Spikes* which are Seven or Eight Inches long, hanging dowiv ward. The Flower has fometimes Five, at others Six* and fometimes Seven Stamina, terminated by final' Summits: Thefe are included in what fome Botanifts Polygonum floribus heptandris digynis, foliis ovatis, caule call an Empalement, and others a Petal, of One Leai" (for as thefe are coloured, fo that is a Diftin&ion made by fome between the Petal and Empalement); but as the Flowers of this Specie have a two-leaved Empalement* reprefented at a, which foon falls off, fo I lliall chute to call the other a Petal. This is cut into Five Segments, as is reprefented at $b \cdot$, and between thefe are the Five Stamina, which fpread open in the fame manner as the Petals, as is $\{\text{hewn at } c.\}$ In the Center of the Flower is fituated the Germen, fupporting a double Style, as is reprefented at d_y crowned by obtufe Stigma's, and furrounded by the Five Styles, which are inferted in the Receptacle of the Flower, as is reprefented at e^* The Germen afterward turns to an oval Seed, wrapped up in the Petal of the Flower, as is reprefented at f and at g and b are Two Seeds flewn, taken out of their Covers. This Plant begins to Ihew its Flowers in Jufy* and continues in Beauty till the Froft puts a Stop to them i and foon after the Plant decays.







P L A T E CCII.

^ **,r- r a i? W iT7 tab 82. Rail Meth.**PHLOMIS, fottm. Lift. R. H. 177- 2 *_{Mem} Sao-e
Plant. 58. Lin. Gen. Plant. 642. Jeiufalem ba_oe,
or Mullein.

Till Is Genus of Plants in ranged in the Boll Section of Tearsefort's Fourth Clais, which includes the Helps with a Lip-Euser of Ood Leef, whole upper Lip is booked, or behavioraped. Mr. Ray ranges it in the Buff Section of his Fourteenth Clais, which contains the Plants with whose of Rowers, would have throughly Stalks. Dr. Liment ranges it in Section of his Fourteenth Class, which in Plants whose Fowers have Two long and

Two fhort Stamina.

The Specie here reprefented is,

Philodes faith shange-no sheir faither teachings, took fouries. Jerufaken Sag' with heart-fraged. Leaves, fouries. Jerufaken Sag' with heart-fraged. Leaves, which are woolly us their to see and a fluidity rec. Stalk. This is the Phone. 10th R. H. " bby faith responding to, there had R. H. " bby faith responding to, there is a purple flower in a rounder Jerufaken Sage with a purple flower in a rounder Leaves. Dr. Phone, by the Title of Sakaia right false had income, faither purposes. Phys. sidi false had income, faither purposes. Phys. f. 6. Sarubby Sage with a Rusk-role Leaf for body, f. 6. Sarubby Sage with a Rusk-role Leaf for body, about faith faith pin, 24th. Mullein with a roundiff Sage Ltaf.

with a foft Down, Reprefented at a-, and are giuiui^c with oblong heart-fhaped Leaves, which are woolly on their under Side, reprefented at b. The upper Parts of the Stalks and Branches are lefs woolly, and the Leaves are. longer and narrower than thole below: They are placed by Pairs, fitting pretty clofe to the Stalks 3 and at each Joint, dole to the Footftalks of the Leaves, the Flowers come out in Whorles round the Stalks, as is fhewn at c: Thefe have a tubulous Empalement of One Leaf, having Five acute Angles, and are cut at the Brim into Five acute Segments, reprefented at d and e. The Flower hath but One Petal, which is divided into Two Parts: The upper Part, which is called the Galea, or Helmet, is arched, Handing ereft, as is (hewn at / and g: The former reprefents the Backfide, and the latter the Front. This refts at the Bale upon the lower Lip or Beard, which is hollowed like a Spoon, and is indented in Three Parts, the middle one being longer than the Two Side Segments. The Flower has Four Stamina[^] Two of which are longer than the other, reprefented at $h_v h$; the Two fhorter are marked f, %; Thefe are in their natural Pofition, fituated under the Helmet of the Flower, and are hooked in the like Manner: They are terminated by oblong Summits. In the Bottom of the Empalement is fituated a Germen with Four Parts, fupporting a (lender Style, reprefented at £, and / j the former flews it inclofed in the Empalement^ and the latter when taken out. The Style is terminated by an acute bifid Sr.ygma. The Germen afterwards turns to Four oblong naked Seeds fitting in the Empalement, One of which is reprefented at $m \setminus and n$ flows the Style reverfed, with the Germen at the Bafe

This Shrub flowers in *June* and *July* \ but the Seeds feldom ripen here,

p L A T E can

<r>
PHLOMIS, four?..; -7r im
642. Jeruialem Sage.
•-, Tab. 82. Lin. Gen. Plant.

Graius with the former under which

different Botanifts have ranged it.

The Specie here reprefented is,

PHLOMIS joins /«,•,•,—/ plant 8 jerufa-volucrh fetaceis &»»>*£ filfw Leases, but those lem Sege with ^ ^ / S 1 briffly downy found* the F ^ s X S t ^ W » Clufriifi^ volucrums. This is TMy b fm ankty Jits Jalvix joins Cafpar Bauhtn titles it ^f^ caie. Lelves. And

fib*, Icon. 55*- W! a his Fkra Monspelients, titles it Leaves. Sauvages in fib*, Icon. 55*- W! a his Fkra Monspelients, titles it rabs invo-Fhlomts folns hngtdatis utrwell film are with tori fetaceis / / Joolly on eve?y Side,

This Plant grows naturally in the South of France, in Spain* and Italy. It hath a perennial Root, and an anmual Stalk which decays every Autumn. From this Root the Leaves come out in Tufts, being inveloped at their Bafe by a common Covering: Thefe are long and (lender, as fe reprefented at *q*-, and are foft down/, and reflexed. By the Side of thefe comes out the Stalk, which is tender, and near Two Feet long, garnilhed with Two oval Leaves at each Joint* which embrace the Stalk with their Bafe, as is reprefented at *. The Whorles of Flowers are encompafied by theie Leaves, within which, is fituated a radiated briftly Involucrum, as is flewn at c: Thefe are represented taken out of the Leaves at d and e. f, and g, flew both Sides of the Galea or Helmet •, h, reprefents the under Lip or Beard. and u the Four Stamina, with their Summits; *, and-/, the Style reverfed, with the Germen at the Bafe; and m {hews it in its natural Pofition.

'This Plant flowers in *June* and *July* i but feldom produces good Seeds in *England*.

P L A T E CCIV.

is, Tourn. Infi. &c.

THIS is of the fame Genus with the Two former Plates; but as I have never feen a Reprefentation of it in any of the Books of Botany, fo we have reprefented here.

The Specie is,

PHLOMIS fdliis Tadhalibus cordatis, utrinque fomentofis villo/tSj Lin. Sf. Plant. 585. Jerufaiem Sage whofe lower Leaves are heart-fhaped, and woolly and hairy on both Sides. This is the Phlomis orient atis, foliis auriculatis incanis, flore luteo Niffbl. Eaftern Jerufaiem Sage with hoary-eared Leaves and a yellow Flower.

This Plant grows naturally in the *Levant*, and alfo in *Sfain*₉ from whence the Seeds were fent me. It hath

It I SEL The Leaves of the Root, and an em Leaves of the Cheffers from the Root, as is flown as a sing tipnin pretry long lairy Footkellas; They are shaped, as is flown as 5, and would stall hairy. The Stake come out from the Side of the Leaves, and rife near Two Feet high, dividing upward into Two or Three final Braches: These are garnified at each Join; by Two rarrow speechinged Leaves, represents of at the Flowers takes from the Leaves come out the Plowers, in final Whorks, as is therm at d. At 2, is One of the Flowers takes from the Whorks, it and g, they the Two Sides of the Gales or Helmet; at E, somewhat at at a flow the Foot booked Statuins, with their German; k, repreferts the five-positive limital continuation.

German : k, typreficits the favo-pointed Empelement.
This Pleat flowers at the fame time with the farmer;
but felcom produces good Sucts in England.



principal years with the South of the



Fig. 9 m. 12 ft. la tamba i frantes dem ad ring tis. 1/2 plus 1/2. Fig. 2 West file lander major I also mysle major Sin if plus 12.

your wings is follow by the Sur wight



parameter of principles and

PLATE GGV.

The Ceii. each

PHLOX, Un. Gen. Plant, i?;- Lychnidea, Hurt. Elth. 203. Tab. 166. Baftard Lychnis.

those Plants whose Flawers lave three Stamins and One Style. According to Mr. 809's System it must be placed in the First Seition of his Nicoreach Clais, which includes the Herbs with a regular Power of One Petal, whose Seeds are inclosed in a Capitile.

The Characters of this Genus are*

The Empdement of the Flower is cylindrical, and cut into Five acute Segments at the Top, as repnfentedat b.TM is p>rmanent The Flower is of the Salver Shape, with One J&ZbSk <*>« cylindricalTube, "f*%" IM* bollom, and higher wed, whith \$100 is the Bollom, and higher wed, which for the Bollom, and higher wed, which for the County of the Salver Stanning in block the first of the Stanning in block the bollom of the Two also bollom prolate Suthmet Bottom of the Tube is fitned a conical Gem"* if it is the salver which is Uger than the Stamina

containing One oval Seed, reprefented at g.

Fig. Par.ox fabis into-lencedatis, inferioribs, alrevait, cases rango, Lin. Sp. Plant, 152. Phlox, with Israed ipear-shaped Leaves, whole lower on alternate, and This is the Leaves of the fraction for the factorial for inramulos divaiteatis, Plant Adam, 121. Virganian Based Lychnis, with Leaves like Winter Chick weed, and Flowers growing from the Division of the Branches.

This Plant grows naturally in feveral Plants merica, but particularly in Virpm* It has merical theory.

Alternation and increase in the common which will be a purple Colour, and are garnxfled wun fpear-lhaped Leaves, about Two Inches and

long, and Three Quarters of an Inch broad at their Bafe^nending in acute Points: Thofc on the lower Part of the Stalk are placed alternate 5 but above they are oppofitej fitting clofe to the Stalk, They are of a lucid Greeny and turn backward. The Stalk divides toward the Top into feveral Branches, which are terminated by Flowers of a light blue Colour: They are falver-fhaped, and have very (lender Tubes. The Segments of the Petal are large, obtufe, and a little indented at their Points: Thefe are of a very thiri Confidence •, fo are not of long Duration. They appear in May^ long before any of the other Specie3 of this Genus.* But this Sort does not produce Seeds in England.

Fi°- 2 PHLOX foliis lanceolatis margine fcabfis, corymbis lompofitis, Lin.'Sp, Plant. 151. Phlox with fpearfhaped Leaves having rough Borders, and a compound Corymbus of Flowers. This is the Lynchmdea Virziniana* umbellata maxima* Lyfimachi* lute* foliis ampltoribus, binis ex adverfo pcfitis, Pluk.Mant. 121. G£ateft umbellated Virginian Baftard Lychnis, with iarge Leaves, like the yellow Loofeftrife, placed oppofite.

This Plant is also a Native of North America^ from whence it was brought into the English Gardens. The Root of this is perennial* compoled of many ftrong Fibres, which fpread in the Ground •, fo propagate pretty freely. The Stalks rife from Two to Three Feet high according to the Soil in which they are planted: For, if they are in a rich moift Ground, or the Plants are duly watered in dry Weather, they will grow more than Three Feet high; but in dry or poor Ground they will hot rife above half that Height. Thefe are garnifhed with fpear-fhaped Leaves, placed oppofite at each Joint: They are from Three to Four Inches long, and One broad in the Middle: Their Edges are rough, and fometimes the upper Surface of thfeir Leaves have feveral fmall rough Protuberances; and their Underfide is a little hairy. From the upper Part of the Stalky immediately under the principal Corymbus of Flowers, come out Two fm&ll Branches on each Side the Stalk, oppofite; terminated by a fmall Corymbus of Flowers. The Flowers are of a light purple Colour, and appear in July* when they make a fine Appearance in the Borders of the Pleafure Garden: If the Seafon is not very hot and dry, the Flowers will continue in Beauty a Month* and are fometimes lucceeded by Seeds in England.

P L A T E CCVI.

Prevents, Lie, Gee, Plant. 203. Alchemi, Tolers. Ind. R. H. 155. Tol. 6a. Anchone len Sound hybracole. Reif Math. Plant. 74. Winter Cherry: in Franch, Coqueret.,

HIS Genus of Plants is ranged in the First Sention of Lauras a Fifth Class, which includes those Plants whethe Flowers have Fire Stations and One Style. Tournefort ranges in the account of his account Class, which includes the Herbs with a wheelth age Flower of One Leaf, whole Pointal be fon's of *£. Fruit. Mr. Ray ranger it in the I bird Section or ms NUMBJXXXV.

Seventeenth Clafs, vrhere he places the Berry-bearing Herbs, growing fparfedly. The Title of Alkekengi, which hat generally been applied to this Genus, being barbarous; Dr. titmaus has altered to Phyfalis, which fignifies a Bladder; the Fruit of this being always included in a Bladder.

The Characters of the Genus are,

The Empatement of the Flower, a, is of one Leaf, fwelU i_m like a Bladder, cut into Five acute Segments, at the Top* and is permanent: The Flower has One Petal, which is

tabel Aspet, with a very fact Take, represented at he like that of the Common Winter Cherry, and force other mtidkjr amend, and from open at the Cop, as in Species of the Genta.

The Species here regationers ser,

honorabitis scate dealers. Wiezer Cherry, with a •Sun:, mJ l''pt»r- Qujni Lena, which are disreply thousand

The Study of this Plant were feat me from Philadelphia by Dr. Band, who found it growing naturally there,

topus : The German afterward runn to an always plainter Fruit, p. Aring on the Supplement, being The Call,

Fig. 1. Physanty and believe smile, four costs-

s different from all the Species of this Green »hi<M«

H VI«

I follow it here. In both a perconal Rocc, temporal of theme Fibres. The Stalk is here, and be realist or as every fair stant from the Grown Teo Labor and a Half hard, and the stant of a Half hard.

XI, on the of a pair value Cours when the area into .rtdecn^i.

Fig. 1. Percents false every-sections religious of profirst, and framed. Papille, with intere evel from
flavor Leaves, planed appears, and a thrubby Scatt.
The se the offering factorized, and a thrubby Scatt.
The se the offering factorized, and a thrubby Scatt.
The section, open are purposed, Houl, Mill. Tere
observes Winter Cherry, with a spherical recommon Winter Cherry, with a spherical recommon to a series of the section with a familiary Scatt Ten or Twelve Feet high a
deviating toward the Top into feveral familiary toward the Top into feveral familiary toward the Top into feveral family Branches,
covered with a grey Bark, and a little hary. These are Fig. 1. Persant false energiamiles integering oppo-

garaffied with oval fpear-fluged Leaves ; which, en the The part are placed alternate; but nevert the upper Wrirtts: These have Footbalks, sear Two Isthes long:

ned b rest to rest. ••re liairy. The Flower corned s, toward the End of

Rutting dark purp Badder. It find B here in

PH VT 0 L A CC A ^ ^ ^ 1 GV».

in thr Eighth which includes which includes hi. H I R a wiit i' lower, \v licit: J^omiiJ or Eropalc-IE uris o x fofi Fniit. Ur. *ljuatus* ranges it in chc his entli CiaB, which contains thofc I^Jlanti, wflofi: Klowtn havfl'cn Swmina am! Ten Styles. Mr. . it in the Second Sefiion oi his fhich contains the Herbs which bear Berrj; growing in long Bunclici.

The Charliers an- ^

while a spen which he of Retton faced, and crowned, and crowned in representation nu triicuki- dtt»;!T, ¬V^--tofrdhHl FSTT *» "prejtrt Ud at f.

Disc of *mijbnxiit* MONZ TON

B f "**

D 322 12-

the et a. It a Longth with mtb>

The Species here repreferued is, ^

f^olacca, wit}j the longer space of Figure 2

fwai"Vi "*

f j. jj,j^r#

the Seed of this Plant was brought from th? Coaft 'of Malabar; which fucçeeded in the Cbelfea Garden, where the Plants have been feveral Years cultivated. The Root of this is annual, in which it differs from the common Sort, which hath a perennial Root. The Stalk rifes from Two to Three Feet high, having feveral longitudinal Furrows, and is marked with Purple: It is garnifhed with fpear-fliaped Leaves, Six or Seven Inches long, and Three broad in the middle, ending in Points: They are of a 'dark Green, and placed oppofite, having very fhort Footftalks. The Flowers are produced in Spikes, which are Nine or Ten Inches longs in which it differs from all the other Species. Thefe have very

fhort Footftalks: They are white within, of an herbaceous Colour on their Brims, and the middle is purpk: There is not always the fame Number of Stamina in them; fome having Eight and others Nine: Thefe are terminated by roundifh Summits. It flowers in July, and after the Flowers are pad, the Germen becomes an orbicular comprefied Berry, divided on the Outfide into Ten-Cells by longitudinal Furrows, each of thefe inclose One mining smooth black Seed. Thefe Berries have a fine purple Juice, which stains Paper or Linen of a beautiful Colour; but it is not permanent. The Root of this Sort decays foon after the Seeds are ripe.

P L A T E CCVIII.

PINUS, Tourn. Inft. R. H. 585- ^- 355- Raii Math. Plant. 138. Lin. Gen. Plant. 956- The Tree; in French Pin.

nn\ H I S Genus of Plants is ranged in the Third 1 Sedion of Tournefort's Nineteenth Clafs, which includes the Trees and Shrubs with amentaceous t lowers, growing at feparate Diftances from the Fruit on the lame Tree, and a fealey Fruit. Mr. Ray places it in the FirftSe&ion of his Clafs of Trees, which bear Cones at ieparate Diftances from the Male Flowers on the fame Tree. Dr. Uwgus ranges it in the Ninth Seftion or WsTwenty^BrClafs, which includes the Plants with Male Flowers and Fruit on the fame Plant, whole Stamina are joined in One Body.

The Characters of this Genus are,

The Male Flowers are collected into a conical fealy Bunch: thefe have no Petals; but have many & min£."Tim* "? connected at their Safe, but divide at their Points terminated by ereEl Summits. Thefe are included in ^e Scales, which fupply the Want of Petals and Empdement? he female Flowers are colWed in One common oval Cone, at a feparate Diflance from the Male on the fame Iree* Under each Scale of the Cone is produced Two Flowers, fx. bit In no Petals, but a finall Germen, fupporting anawl-fiaped Style crowned by a Jingle Stigma. The Germen afterwardbecomes an oblong Nut, crowned with a Wing, included in the rigid Scale of the Cone.

The Specie here reprefented is,

PJNUS foliis geminis tenuiffimis, conis obhifis, ramis patulis. Pine Tree with Two very narrow Leaves coming out of each Sheath* obtufeCones, and fpreading Branches* This is the Pinus Hahpenfis, foliis tenuibus Uvt vindibus Rand. Hart. Chelf. Cat. 158. A* Pine Tree, with narrow light-green Leaves.

The Seeds of this Tree were fent me 'tm' Aleppo by Conful Cox, in the Year 1732; from which 1 railed many of the Plants in the Chelfea Garden* fome ot wmen

were grown upward of Eight Feet high by the Year 1740, when they were most of them destroyed by the severe Frost. But Two of the Plants which I had presented to the late Duke of *Richmond* in 1738, which were planted at *Goodwood* in *Sufex*, were very little injured by the Cold: For as they had been lately removed, fo they had not so well recovered as to have made any Shoots, whereby the Frost had little Effect on them. It was from One of those Trees this Branch, with the Cone growing on it, was taken, which is here represented.

This feems to be a Tree of low Growth, branching out greatly on every Side, almost from the Ground. The Bark of thefe Trees is as yet fmooth, and of a light' Brown •, the Bfanches are flender and weak; the Leaves are long and narrow, Two coming out from each Vbeca (or Sheath) as is reprefented at a: Thefe are of a light Green; and, if bruifed, emit an Odour of Turpentine: The Cones come out from the Sides of the Branches, as • is fliewn at b: Thefe are not fo long as those of the Pineafter, and end in more obtufe Points: The Scales of the Cones are also more obtufe -, and have a greater Refemblance to those of the True Or Garden Pine, in thefe Refpefts \ but are not more than half their Size : Thefe are composed of hard Scales; under each of thefe are lodged Two fmdl Seeds, reprefented at c: Thefe are crowned with broad Wings, as is fliewn at d; which are of ufe to carry the Seeds to forifc Diftance, when they fall out of the Cones.

I have lately received fo'me' Cones' of a *Pine Tree** which were brought from *Aleppo* by Dr. *Ruifel*, who had been feveral Years Phyfician to the *Englijh* Fa&ory there v from which I have raifed many of the Plants, which have a near Refemblance to this here fignred at prefent; but the Cones were more pointed, and the fcaley Protuberances fharper than thofe of the Cones which grew at *Goodwood*; fo that I fufpedt they may be different: For the Seeds Which came from Conful *Cox*, and from which the Trees at *Goodwood* were raifed, were taken out of the Cones abroad •, fo that until the Trees had produced their Cones here, I was at a lofs to know the Specie. I do imagine thefe Cones brought by the Dofter to be of *Tournefort's Pine*; which he titles *Pinus Orientalis*, *fotiii durioribus umaris fruftu parvo peracuto*. *Cor*. 41.

P L A T E CCIX.

Gen. Plant. 200. Valeriana Gr^eta, R&ii Meth. Plam. 8.5. Greek Valerian, or JacoFs Ladder.

THIS Genus of Plants is ranged in the Sixth Section of *Tout-nefort's* Second Clafs; which includes the Herbs with a wheel-fhaped Flower of One Lveaf, whofe Pointal becomes a dry Fruit. Dr. *Linrueus* ranges ic in the Firft Seftion of his Fifth Clafs, which contains tbofe Plants whofe Flowers have Five Stamina and One Style. Mr. *Ray* places it in his Nineteenth Ciafs, which includes the Herbs with a Flower of One Petal, whofe Seeds are included in a Capfule.

The Chara&ers of this Genus are,

"The Empakment of the Flower is permanent, of One Leaf, jgnd is cut into Five Segmettts, as is reprefented at a: The Flower is of One Petals with a Tube fborter than the Empalement; but is divided into Five Segments at the Top, which fpread open, as is feezvn at b. Thefe Segments are broad and cbtuje, as is reprefented at c* // hath Five jlender Stamina^ which are inferred in the Valvis of the Tube* as is jhnvn at c -, which are inclined^ and fborter than the Petal: Thefe are terminated by roundiff Summits, as iffeen at i. In the Bottom of the Tube is Jituated an acute oval Germen^ f*poporting ajlender Style, the Length of the Petals us is jht&n at g. The Germen afterward turns to an oval

three-corneredtapfule, reprefented at h •, which have Three Cells, as is Jhezvn at i, which are filled with irregular acute-pointed Seeds, reprefented at k; One of which is magnified at 1.

The Specie here reprefented is,

POLE MOW IUM fdiis pinna tis, radicibus reptatricibus Flor. Virg. 22. Greek Valerian, with winged Leaves and a •creeping Root.

This is by fome Authors fuppofed to be the fame with the common Greek Valerian: But no one who has eyer compared them together, can doubt of their being diftina Species. For this Plant has creeping Roots which the common hath not: The Stalks of this branches out wide; whereas those of the common arc erect, and never branch. The Leaves of this have but 1 nree Fair of Lobes, ending with an odd one, as is reprefented at d; but those of the common Sort havti Seven or Eight Pair of Lobes, which are placed much clofer together on the Midrib. The Flowers of this are fcattered fcolely at the End of the Branches; whereas thole or the common Sort are clofely fet together, and are larger. This Sort grows naturally inVtf** Amente • but the common Sort is found growing natm rally m iomc. Places in the North of England.

P L A T E CCX

Роциятия Lin. Gen. ed. 4. Crimm? ed. 5, Hyacinthus Breyn. African blue umbellated Hyacinth.

THIS Genus of Plants is ranged in the Firft Section of Linn<eus Sixth Clafs, which includes the Plants whofe Flowers have Six Stamina and One Style. In the former Editions of his Genera Plant arum* and in the Catalogue of Clifford's Garden he joined this Plant to the Tuberofe, under the Title of Pofyanthes; but in his lad Edition he has feparated it from that, and has joinf d it to his Genus of Crinum with whofe Characters it agrees.

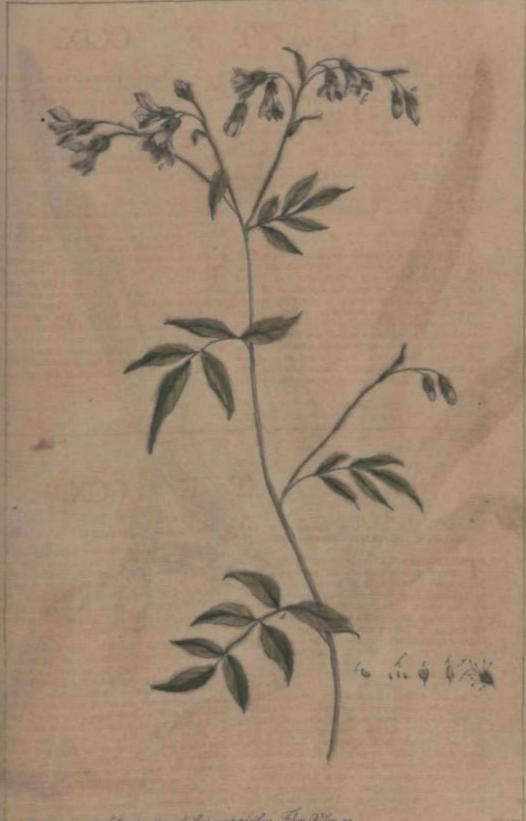
The Characters of this Genus are,

"TheUmbel of Flowers is included in a two-leaved Sheath\
which afterward dries, and is reflexed* as is reprefented at
d. Whe Flower is fiimnl-jhaped' of One Leaf with an
oblong cylindrical inflexed Tube, whose upper Part is cut into
Six obtuse Segments, as is sheven at e. It hath Six awlJhaped Stamina\ which are joined to the Petal from their
Base almost their whole Length*, and are terminated by
oblong narrow Summits, represented at f. The Germen is
Jituated at the Bottom of the Tube, stipporting an awlJJjdped Style, represented at g. The Germen afterwards
turns to an almost oval Capfule, zvitb Three Cells filled with
Seeds.

The Specie hfere reprefented is,

Pour anymos finites articlishis, Vin. Phil. 29. Het. Cif. 226. Polyanthes with unbellated Flowers. This is the Crimer folio fillentealarlis condits abugic, Fin. 59. Phil. 201. Crimers with spear-shaped philin Leaves, and abugic Petals to the Flower. Bryoper takes it He. 22 fillent twie the flower. Bryoper worked of PloTTpf flower twie the, five extrade worked of PloTTpf flower twie the, five extrade worked to ploTTpf flower.

large as a Man's S Fin e Titled 10% fibres as Ground, and are united Taf A hich arife the Leav! function at the Hower-field fibre and for the Flower-field, S e d r. The feethigh, round, ^a £ toth total the Flower-field, S e d r. The feethigh, round, ^a £ toth total the Flower-field, S e d r. The feethigh, round, ^a £ toth total total total for the Winter fibre, and as 'arge as blue Flowers, w f g ^ A total total fibre, and as 'arge as blue Flowers, w f g ^ A total fibre, and as 'arge as blue Flowers, w f g ^ A total fibre, and as 'arge as blue Flowers, w f g ^ A total fibre, and so which ripen ater m the Attumn, they will for the Winter, and Sake Vine A pearance in the Green-house during that Time'



POLF words fole po *_ * radiales reprovides Flor Viry . s.

pier my and of framing p. the Suny w. 1752.



Pt.ccxi.



ly.cexa. PULMINANIA official official 4>,£ lo look'tii * for la ^-yife as.

PTELEA Lin. Gen. Plant. 141. Carolina Shrub Trefoil

The Characters are,

"The Flower hath four oval fpear-Jhaped Petals, which are thick, plains and fpread open; thefe are longer than the Empalement a. The Empalement b is cut into four acute Parts, which are finall: The Flower has four awljhaped Stamina, terminated by roundiff Summits •, */ hath a roundiff tened at their Bafe to a fliort Empalement, cut into compreffedGermen, fupporting afloort Style, crowned by Two Four Segments, almost to the Bottom. In the Center cbtufe Stigmas. The Germen afterwards becomes a membraneous roundifh Capfule, as is reprefented at c, Jianding perpendicular, having Two Cells, each containing One obtufe cular, fupporting a very fliort Style, crowned by obtufe Seed, fajtened to the Bafe of the Capfule.

THIS Genus of Plants is ranged in the Firft Sedion of Linn < eus\ Fourth Clafs, which includes those Plants whose Flowers have Four Stamina and One Style.

The Specie here reprefented is,

PTELEA foliis ternatis Lin. Sp. Plant. 118. Ptelea, with trifoliate Leaves. This is the Frutex Virginianus trifolius, ulmi Samaris Banifteri Pluk. Aim. 159; Virginia Trefoil Shrub, with Seeds like those of the Elm Tree, commonly called by the Gardeners Carolina Shrub

This Shrub rifes with a Stem about Three Inches Diameter, to the Height of Five or Six Feet, dividing into feveral Branches, which are covered with a fmooth greyifh Bark, and are garnifhed with trifoliate Leaves, Handing upon long Footftalks. The Lobes are oval Ipear-fhaped, fmooth, and of a deep Green 5 thefe come

out late in the Spring, and about the fame time the Bunches of Flower-buds appear, which is in June. The Leaves are then but fmall, and afterwards increase in their Size, and do not arrive to their full Bignefs till the Flowers are decayed. The Flowers come out in large Bunches at the End of the Branches \ they are of a whitifh green Colour, and composed of Four or Five fliort Petals, which end in acute Points; thefe are fafof the Petals are fituated the Germen and Stamina. The Germen is roundifh, compreffed, and ftands perpendi-Stigmas: This is furrounded by Four fliort, coloured Styles, which are terminated by roundifh Summits. After the Flowers decay, the Germen turns to a roundifli Capfule with Two Cells, having a leaiy Membrane round it, like the Seeds of the Elm Tree. In each Capfule is included One Seed..

This Plant grows naturally in Virginia, where it was difcovered by, Mr Banifttr, who fent it to England; and many Years after Mr. Catcfby fent over the Seeds of this Plant from *Carolina*, where it was found growing in plenty. It iiowers \\\\June\\\\\ and in warm oeafons^\(^1\) the Seeds will fometimes ripen here the Beginning of Sep-

This Shrub is hardy enough to thrive in the open Air in England, provided it is planted in a dry Soil, and a warm Situation'; but in ftrong Land, where the Wet is detained in Winter, the Plants are frequently destroyed by fevere Froft.

There is no great Beauty in the Flowers cf thi* Shrub; but those who are curious in collecting rare Trees and Shrubs, preferve it in their Gardens for the fake of Variety.

PULMONARIA Tourn. Inft. 136. Tab. 55. Raii Meth. Plant. 56. Lin. Gen. Plant. 169. Lungwort; in French, Pulmonaire.

THIS Genus of Plants is ranged in the Fourth Sedtipn of Tourneforfs Second Clafs, which includes the Herbs with a funnel, or wheel-fhaped Flower of One Leaf, whose Pointal is encompassed with Four Embryo's, which afterward become fo many Seeds, that ripen in the Empalement. Mr. Ray places it in his Thirteenth Clafs, in which he ranges the Herbs with rough Leaves, whose Flowers are fucceeded for the most part° by Four naked Seeds. Dr. Linnaeus ranges it in the Firft Sedtion of his Fifth Clafs, which includes thofe Plants whofe Flowers have Five Stamina and One

The Characters are,

The Flower is of One Petal, having a cylindrical Tube, as is reprefented at c; the Brim is obtufe, erett, and fpreading; the Chaps are perforated. This fits in a Five-cornered cylindrical Empalement of One Leaf, which is permanent, reprefented at d. The Flower has Five fhort Stamina in-NUMB. XXXVI.

eluded in the Tube, as is fhewn at e, terminated by ere£l Summits, as is reprefented at f. There are Four Germina fituated in the Empalement g, between which arifes the Pointal, which is terminated by an indented Stigma. The Germina afterward become fo many roundifh Seeds fitting in the Empalement.

The Species here reprefented is,

 $PULMONARIA\ calycibus\ abbreviatis, foliis\ lance olatis\ obtu$ ftufculis Lin. Gen. Plant. 135. Lungwort with a fhorter Empalement, and fpear-fliaped Leaves ending in very blunt Points. This is the Symphytum f Pulmonaria non maculofa, foliis glabris Americana, fiore patulo caruleo Pluk.'Aim. 359. American Comfrey or Lungwort, not fpotted, with fmooth Leaves, and a blue fpreading Flower. In the Flora Virginiana it is titled Pulmonaria cafyce tubo corolla breviore, perianthiis \uinquepartitis 20. Lungwort, with an Empalement fliorter than the Tube of the Petal, and divided into Five Parts at the^rim.

This Plant grows naturally on the Mountains in North America. The Seeds of this were fent from Virginia by Mr. Banifter many Years fince \ and fome of

the Plants were raifed in the Garden of the Bifliop of London at Fulham, and in fome other curious Gardens near London. -It has a perennial Root, but the Stalks and Leaves are annual, always decaying toward the latter Part of Summer. In the Beginning of March the new Leaves appear out of the Ground; thefe at first are fmall, but grow to the Length of Four Inches, and are Two Inches and a Half broad in*the broadeft Part, which is toward the Footftalk, as is flewn at $a \setminus b$ they are fmooth, of a light Green, and have Footftalks an Inch and a half long: From each Root come out Five or Six of thefe Leaves; and between them arifes the Flower-Stem, which grows a Foot and half high, dividing at the Top into Four or Five Branches, each having

One fhorter Leaf, as is reprefented at b. The Branches are terminated by Four or Five funnel-fhaped Flowers, ftanding upon fhort Footftalks, thefe have very more Empalements. The Tube of the Flower is pretty long, and fpreads open above in the Form of a Funnel. The Brim is flightly indented in Five Parts. The moft common Colour of thefe Flowers is blue •, but fome of them vary to purple, and others are white; but thefe •Varieties arife from the fame Seeds; the Flowers generally nod downward. They appear toward the latter Und of April, and if the Seafon is moderate, or the Plants grow in a fhady Situation, they will continue in Beauty great Part of May, and fometimes they are fucceeded by Seeds which ripen in August.

PUNICA Tourn. Inft. R. H. 636. Tab. 407. Lin. Gen. Plant. 544. Tunica Mains Rail Meth. Plant. 143. Pomegranate -, in French, Grenadier.

HIS Genus of Plants is ranged in the Eighth Seftion of *Tourneforfs* Twenty-firft Clafs, which includes the Trees and Shrubs with a Rofe Flower, whofe Empalement becomes a Fruit pregnant with hard Seeds. Dr. Linnaus ranges it in the Firft Sedtion of his Twelfth Clafs, in which he places those Plants whofe Flowers have about Twenty Stamina, which are inferted either in the Empalement or Petals of the Flower. Mr. Ray places it in his Clafs of Trees with umbilicated Fruit, having many Seeds.

The Charafors are,.

The Flower has a bell-fhaped coloured Empalement of One Leaf cut at the "Top into Five or Six Parts, as is reprefented at b, which is permanent. The Flower hath Five roundifh ereft fpreading Petals, fhewn at c, which are inferted in the Empalement; and a great Number of hair-like Stamina, which are inferted in the Empalement, as is reprefented at e, terminated by oblong Summits. The Germen, marked f, is fituated under the Petals of the Flower, fupporting a Jingle Style, terminated by a headed Stigma, reprefented at h in its natural Size, and magnified at g. The Germen afterwards becomes a large Fruit almost globular, as is shewn at d, crewned by the Empalement, which has a new Situation, as is reprefented at i. The Fruit is divided into feveral Cells by membraneous Partitions, as is flewn at k; thefe are filled <toith roundiflo fucculent Seeds, marked 1.

The Sorts here reprefented are,

Fig. 1. PUNICA flore pleno majore C. B. P. Pomegranate with a larger double Flower. This is the Mains punica, flore pleno H. R. Par. The double flowering Pomegranate. John Bauhin titles it Balaufiia Hifpanica 1. 82. Spanifh Balauftium.

This Sort grows naturally in Spain and Portugal^ where it rifes with a woody Stalk, dividing into many Branches from the Bottom to the Height of Eighteen or Twenty Feet, From the Branches come out a great

Multiple of flexler Twigs, havin S a Aw Thorns, and here and full in Incl. broad, of a % * Green, let on by Pairs uppalie.

Comelit from the Areprefented at! The Flowers from the Areprefented at! The Flowers from the Sides Si . 14 one is fallen.

The Buck on the Richard Within the Buck on the Richard Within the Buck on the Twigs, but East of a potential within the Buck on the Richard Within the Buck on the Richard Within the Buck on the There will be a Surra Ford of a bright there will be a Surra Ford of the Flowers the ater End of the Flowers the ater End of the Flowers the Buck of the Flowers the Balaufita of the Shape.

Fig. 1 Funite and 1 for the Flowers and the Balaufita of the Shape.

Fig. 2 Funite and 1 for the Flowers and the Pomegranate.

Fig. 2 Funite and 1 for the Flowers and the Pomegranate.

Fig. 2 Funite and 1 for the Flowers and the Pomegranate.

Fig. 2 Funite and 1 for the Flowers and the Pomegranate.

Fig. 3 Funite and 1 for the Flowers Number of flexier Twigs, $_{\rm havin}S$ $^{\rm a}$ ^w Thorns, and

Spain*g and if o in Several Varieties of this Fruit Adiffer in Aeir Size there are fome oT a vinous there are form of or others four Fruit A and fweet or four, but have T The Trees do no Siffer that The

well in the oprnli at J⁶. Flov are will thrive tolerably of Flowers, but when S "*"* Seafons produce plenty to a good Afpeft, they will J A trained againft Walls the other Sort is planfed at Trin Sreater plenty. If was a Altered Situation, Sf ta Auth-afpefted Wall, Size in warm Years builded Will Srow to a larger become palatable will for Trarely ripen fo well as to







P L A T E CCXIV.

QUAMOCLIT Tourn.InJl. R. H. u6. Tab. 39. Rah. A\$p. Meth. 190. Ipemaa Lin. Gen. Plant. 199. Scarlet Convolvulus, or Sweet William.

HIS Genus of Plants is ranged in the Firft Section of *Twrneforfs* Second Clafs, which includes the Herbs with a funnel-lhaped Flower of One Petal, whofe Poirital becomes the Fruit. It muft be ranged in Mr. *Ray's* Firft Sedion of his Nineteenth Clafs, which includes the Herbs with a uniform regular Flower or One Petal, whofe Seeds are included in Capfules Dr. *Linnxus yhccs* it in the Firft Sedbon of his Fifth Clafs, which contains thofe Plants whofe Flowers have Five Stamina and One Style.

The Characters are,

The Flower is of One Petal, which is funnel-fiafed, having a long cylindrical Tube cut into Five Parts at the Top Jhichfpreadopen, asis reprefented at a It hath biveawl-haped Stamina, whicf> are almoft the Length of the Petal, terminated by roundifh Summits as ts &**«**a"J" roundifh Germen fituated at the Bottom of the 'marhd e, fupporting a Style which is longer than the Staminadined by a roundifh Stigma, reprefented at h, thefe are included in a fmall Empalement cut foFiveJartj '%£ fented at f •, and at g are fhewn the Vtve 'minafpread ifunder. he Germen afterward turns to an oval Capjule, t which hath Three Cells, reprefented at i, each containing One oblong Seed, marked 1.

The Specie here reprefented is,

QUAMOCUT foliis tenuiterincifisff?"M«*foutMi 2d 17? H 116 Quamoclit with Leaves finely cut ana winged. This is the Quamoclit f Jafminum America-

num Cluf pofi. 9. Quamoclit, or Ameruan Jafmine* Cafpar Bauhin titles it Jafminum Millefolii folio Pin* 391. Jafmine with a Milfoil Leaf. Dr. Linnaeus titles it Ipomoea foliis pinnatifidis linearibus, floribus folitariis Sp. Plant. 159. Ipomoea with linear wing-pointed Leaves, and Flowers ftanding fingly.

This Plant grows naturally in both Indies, from whence the Seeds were first brought to Europe, where it has been long cultivated in the curious Gardens. It is an annual Plant, which rifes with Two oblong pretty broad feed Leaves, which remain a confiderable time before they fall off. Between thefe come out One or Two flender twining Stalks, which fallen themfelves about any neighbouring Support, and will rife to the Height of Four or Five Feet, fending out feveral Side Branches, which twine about each other, and alfo about the principal Stalk. Thefe are garnifhed with winged Leaves, placed alternately, reprefented at a, which are compofed of feveral narrow Lobes or Wings, marked b, placed oppofite along the Midrib \ they are of a bright green Colour, ftanding upon pretty long Footftalks. The Flowers come out fingly from the Side of the Stalks, ftanding upon flender Footftalks: They have a long flender Tube, which is enlarged toward the Top, where it is cut into Five Segments, which fpread open in Form of a Star. They are of a beautiful red Colour, and appear in July and August, continuing in Succession great Part of September. Thefe are fucceeded by ovalieed Veflels having Three Cells, each containing One oblong Seed, which ripen in the Autumn.

The Inhabitants of the *Britifli* Iflands in *America* call this Plant *Sweet William-*, I fuppofe, for the Beauty of its Flowers, for they have no Scent. It runs up the Hedges in those Countries to a confiderable Height, and makes a fine Appearance*

P L A T E CCXV.

QUBICITS Tourn. Infi. R. H. 1. Rei Math.
Plant. 140. Lin. Gen. Plant. 949.

HIS Genus of Plants is tanged in the Second Section of Secretaria Numerous Claix, which includes the Trees and Shrubs with ropy Flowers, growing at Separate Diffusions from to Tree, whose Pruic has a leader) Mr. Ray places it omoting the Trees, whose many in grow at superstee Diffusions from the Frees, whose interior Kernel is first, and the Shell kathers. Dr. Limnou tanges it in the Kighth Section of his I wency-first Class, which includes the Plants with Male and Fensale Flowers on the Sange Plant, whose Male Flowers have many Staming.

The Characters are,

The Male Flowers are difpofedloofely, inform of a Rope, as is reprefented at a: Thefe have no Petals; but an Empalement of One Leaf cut into Four or Five acute Points, as

is fhewn at b, in which are a great Number of fhort Stamina, terminated by large twin Summits. The Female Flowers fit clofe to the Branches on the fame Tree: Thefe have a hemifpherical rough Empalement, which afterward become: the Cup of the Fruit marked c: They have no Petals, but a fmall oval Germen, fupporting a fingle quinquefid Style, crowned by fingle Stigmas. The Germen afterward becomes an oval Nut, reprefented at &, fixed at the Bafe to the Cup* which was the Empalement.

The Specie here reprefented is,

QUERCUS foliis ovato-oblongis glabris ferrato-repandis Lin. [Sp. Plant. 996. Oak with oblong oval fmooth Leaves, fawed on their Edges, whofe Serratures turn back-ward. This is the Quercus calyce echinato, glande majore C. B. P. 420. Oak with a large Acorn, having a prickly Cup. Bodonaus titles it Mgilops five Cerris majore glande Pempt. 831. Egylops or Cerris, with a larger Acorn.

This Tree grows naturally in the *Levant*, from whence the Fruit are brought annually for Dyeing: Thefe are called *Velaniy* and the Tree *Velanida*, by the *Greeks*. It is one of the faireft Species of Oak in the World: The Trunk of this rifes as high as the common Oak: The Branches extend very wide on every hand; thefe are 'covered with a greyifh Bark, intermixed with brown Spots: They are clofely garnifhed with oblong oval > Leaves about Three Inches long, and almofc Two broad, which are deeply fawed on their Edges: Moft of the Serratures or Teeth turn backward, and terminate in a brown Point: Thefe Leaves are ftifF, of a pale Green on their upper Side, and covered on their under with an almoft imperceptible hoary Down. The Acorns are very different from those of the common Oak, having

very large fcaly Cups which almost cover the Acorn, the Point of which only appears out of it, which is hollowed like a JSTavel: The Scales of the Cups lie over each other like those of Filh, but end in rough blunt Ridges, which are raifed a Quarter of an Inch high. These Cups are, some of them, as large as small Apples: The i^corns are ftiorter than those of our common Oak; they are broad and flatted at the Top, but narrower at their Base, as is represented at /; and at g and e the Fruit is lhewn cut open longitudinally.

This Tree thrives very well in the open Air in *England*, and is never injured by Froft; but there are but few of them at prefent here, the greateft Part of which were raifed in the *Chelfea* Garden in 1748.

PLATE GCXVI.

RANUNCULUS *Tourn. Infl. R. H.* 285. *Tab.* 149. *Rait Meth. Plant. 6y. Lin. Gen. Plant.* 619. Crowfoot[^] in *French*, Renoncule.

THIS Genus of Plants is ranged in the Seventh Section of *Tournefort*\(\) Sixth Clafs, which includes the Herbs with a rofe Flower, whofe Pointal turns to a Fruit, composed of several Seeds gathered into a kind of Head. Mr. *Ray* places it in his Fifteenth Clafs, with the Herbs whofe Flowers have Five Petals, which are fucceeded by many naked Seeds. Dr. *Linnaeus* ranges it in the Seventh Sedtion of his Thirteenth Clafs, which includes those Plants whose Flowers have many Stamina and Germina.

The Characters are,

The Empalement of the Flower, is composed of Five oval Leaves', marked a, which are concave, and fall away. The fingle Flowers have Five obtuse neat Petals, b, with small JTails, each having a NeSlarium rijing from a Hole on the upper Side of the Tail. In the Center of the Flower is fituated a great Number of Stamina, about half the Length of the Petals, represented at c, and a great Number of Germina collectied in a Head, as is fiewn at d: These have 710 Styles, but have small reflexed Stigmas. The Germina afterward become so many naked Seeds Jlanding on small Footslaks, represented at c, which are safiened to the Receptacle st. The Seeds are of uncertain Figures, and are reflexed at their Points, as is shewn at m.

The Specie here reprefented is,

RANUNCULUS foliis ternatis biternatifque, fdiolis trifidis inctfts^caule inferne ramofo Lin. Sp. Plant. 552. Ranunculus with trifoliate, and twice trifoliate Leaves, whose Lobes end in Three Points, which are cut; and the Stalk branches from the Bottom.

This general Title includes all those Varieties of *Perfian Ranunculi*, which are to be found in the *European* Gar-

dens: For all the beautiful Flowers with which the FJorifts Gardens are now ftored, have been produced from Seeds of fingle Flowers originally; but by Culture have been fo much improved, as to vie for Beauty and Fulnefs of Flowers with any of the flowery Tribe. But as thefe are only feminal Variations, fo they fhould be kept under this fpecific Title.

The Flowers here exhibited are fuch as the Florals term femi-double -, and from the Seeds of fuch all the most valuable Flowers are produced; fo I chofe rather to take the Figures of these, than of the most double Flowers, because in thest the Characters are almost as perfett as those of the fingle Flowers, and these are wanting in the very full Flowers-, to that these exhibit the Kepresentation of perfect good Flowers

The Root of this Plant, reprefented at h/h composed of many thick fleshy Fangs or Fibres, which unite at the Top into a Head: From these are sent forth many (lender long Fibres, finking deep in the Ground 5 and from the Head anse several Leaves, which are composed of Three Six, or Nine Lobes of irregular Forms, and cue the Total of Variable Segmats. Between these arise the Flower-stalks, which are about a Foot high, taper, hairy, and branching out at a little Distance from the Root: They are garnished with Leaves, standing on

Stalks; the Leaves divide firft into Three Parts, which are again divided or cut, as is flewn at *, and thefe are generally terminated by trifid Points, as is reprefented $\mathbf{i} \cdot \mathbf{i} \cdot \mathbf{j} \cdot \mathbf{k}^{\text{aves}} \wedge \mathbf{k} \rightarrow \mathbf{j}$ those on the lower Part of the Stalk are much larger, and more compounded, than the upper Jeaves. The Flowers growon the Top of the Stalk, which is naked a confiderable Length below: They are of various Sizes and Colours The Outfide of the Petals being often of a different Colour from the Infide, as is ihewn in the Figures • They are pear in May, and in moderate Seafons, or whereth? y are flaaded from the Sun in the Heat of the Day, there $\mathbf{k} \cdot \mathbf{k} \cdot \mathbf{k}$. The Seeds ripen in July. Beauty at toft * Month. The Seeds ripen in July.

PLCCXVI.



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P L A T E CCXVII

Rissua Tom., Inf. R. B.M. « • 238. Raji Mali. Plant. Hi . Un. Gen. Plant. 535-

HIS Genes of Plants is ranged in the First Section of Tepracian's Element Class, which includes the Herbe with an anomalous Flower the wild with the second Division of Section of his Twenty-ferred Class, which contains the Plants with an irregular different whole remains the Flower, whose Seeds grow. The second Class, ranges it in the Third bedien with an irregular different whole includes those Plants whole: The second Class, which includes those Plants whole: The second Class, and Three Myles.

The Characters of the Genus are,

The Emparature of the Flower is of One Ford, car just in process. The morest, across, and a second of the Flower is to majorial in Fords; it has a blain blain, and advantage terminal flower process in has a blain forces are the flower to the agent and of the flower Peter between the Flower to the agent and of the flower Peter between the Flower to the agent and of the flower point Staming, and a gibbous Germen fitting upon very flowt Styles, crowned by Jingle Stigmas, The Germen afterwards turns to an angular gibbous Capfule, opening between the Styles, with One Celly filled with angular kidney-foapedSeeds, faftened to the Capfule.

The Specie here reprefented is,

Resea tribelione, forder terrograis. Baiterd entire and three-laked Leaves, and
Flor ur Styles; community collect fraces
Refeda, or Mignonette d'Egypte.

This Plant is fupofed to be a Native of Egypt, from whence the Seeds were brought to the South of France. The Seeds of this were fent me from Leyden[^] by Dr. Adrian Van RoyeH, which fucceeded in the Chelfea Garden, and foon after the Seeds were brought from the South of France by the Right Honourable the Lord Bateman. This Plant fends out from the Root many Stalks, which lie proftrate on the* Ground, and divide into many diffused Branches, fpreading on every Side more than a Foot from the Root; they are fometimes intire, but generally are divided into Three Lobes, as is reprefented at g\ thefe are of a light Green, and are placed without Order, having very fhort Footftalks. The Flowers are produced in loofe Spikes at the End of the Branches, each ftanding upon a fhort Footftalk. They are of an herbaceous white Colour, composed of feveral fmall triad Petals, reprefented at <?, in the Center of which is fituated the Germen, as is (hewn at b) furrounded by many fhort Stamina, and Four Styles crowned by ereft Stigmas marked c. Thefe Flowers have an Odour like that of frelh Rafpberries, for which the Plants are cniefly efleemed: After the Flowers fade the Germen turns to an oblong angular Hufk, reprefented at d, opening toward the Top, having but One Cell as is fhewn at e9 including many fmall Seeds reprefented at'/. Thefe Plants flower mod Part of Sum* mer, and, if they are placed in a good Green-houfe, they may be preferved One Winter, and continue flowering till the Spring. The Seeds ripen in the Autumn.

This Plant is fo like the common fmaller *Refeda* in its Appearance, as fcarcely to be diftinguished from it -9 but the Flowers of the common Sort have no Scent: And I believe that the Seeds of that have been fold for the *Mignonette*^h which has occasioned fome Persons to suppose that the *Mignonette* had loft its Sweetness.

L A T E CCXVIII.

: nH M Un. Gen. Plant. 454- Bbabarb*m Towns. Inft. R. H. 89. tab. 18. Rhubarb.

HIS Genus of Plants is ranged in the Second T Section of L/«Ws Ninth Claft, which includes those Plants whose Flowers have N «e Sfflmj^ Three Styles. *Tournefcrt* places it m the Fourth Section of his First Clafs, which contains the Herb wth a bell-fliaped Flower of One Leaf, whose Pointal turns to a fingle Seed.

The Charafters of this Genus are,

VbeFlower has no Empalement; it hath One Petals whofe Bafe is narrow and impervious, cut at txjTiptntti Stxobtufe Segments, as is reprefented at a, as-The firft is of the natural Size, the other is magnified. Thefe are fpread op?n atb. It hath Nine hair-like Stamina reprefented at c, which are inferred in the Petal, and are of the fame Length NUMB. XXXVII.

as is fhewn at A, d, terminated by oblong Summits reprefented at e. In the Center is fituated a three-cornered fhort Germen, with no vifible Style, crowned by Three feathered reflexed Stigmas: The Germen afterward becomes a large "three-cornered pointed Seed, reprefented at f, having membranaceous Borders as is fhewn atg: In the Center of this is lodged the oblong Germ h.

The Specie here reprefented is,

RHEUHT foliis ctra^tis glabris, marginibus finuatis, fpicis divifts nutantibus. Rhubarb with fmooth heart-fliaped Leaves, finuatedon their Borders, and divided Spikes of Flowers which nod.

The Seeds of this Sort were fent me from *Peterjburgh* for the true Rhubarb, and fo far as I can judge from the Appearance of the Root, it approaches nearer to the foreign Rhubarb than any of the Plants which have

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yet been introduced for it; but as the old Roots are much better than, the new, fo there muft be Time allowed for their Growth, before it can be determined whether it is the true.

The Root of this Plant is very thick and flefhy, and divides into feveral thick taper Roots, as large as a Man's Finger, covered tvith a reddifli brown Bark, and is of a yellowifh red Colour within; thefe ftrike pretty deep into the Ground, and early in the Spring fend up many Leaves, which at their firft Appearance are clofely folded up, but afterward expand. They are heart-fhaped, fmooth, and have many deep Veins •, their Borders are finuated and a little waved, and they are a little downy on their under Side: They are near Two Feet long, and a Foot and a Half broad at their Bafe, where they are rounded to the Footftalk, and end in an obtufe Point. The Footftalks are Seven or Eight Inches long, rifing immediately from the Root: They are as large as a Man's Finger, flatted and channelled on their upper Side, but convex on their lower, of a purplifli red Colour, and an acid Tofte, The Flowerftalks arife immediately from the Root, between the Leaves; they are as large as a common walking Cane, and rife Three Feet and a Half high, of a pale herbaceous Colour, and have feveral Joint's: At each of thefe is placed One Leaf, of the fame Shape with those at Bottom, but fmaller, and fit close to the Stalk, the Two Ears at their Bafe almost embracing it. The upper Part of the Stalk divides into fmall Branches, which are again divided into Footftalks, which are terminated by long clofe Spikes of Flowers which divide into fmaller; the Flowers are of a yellowifh White within, having One Petal, which is divided into Six oval Segments at the Top, and within are Nine Stamina, nearly of the fame Length, terminated

by oblong Summits: Thefe furround the Germen, which is three-cornered, and is crowned by Three feathered Stigmas. 'After the Flowers fade, the Germen fwells to a large three-cornered bordered Seed, fliaped like thofe of the Docks. This Plant flowers early in *June*, and the Seeds ripen in *Auguft*.

As there is yet great Doubt which of the Species now growing in the Englijh Gardens is the true Rhubarb, or if either of them is fo, I fhali not take upon me to determine this. All I can fay at prefent is, that the Seeds of the Plant here figured were lent me from the Academy or Sciences at Peterfburgh for the true Rhubarb, and a young Root, which I took up and dried, had more Appearance of the foreign Rhubarb, and approached nearer to it in Quality, than those of any other Sort I have yet leen. But Dr. Linnaus has fuppofed another Specie to be the true, which he titles Rheum foliis fubvillofis, petiohs * mahbus. Sp. Plant. 372. The Seeds of this Sort were fent me in the Year 1734, by the late Dr. Beerhaave from Leyden, by the Title of Rhabarbarum Chinenfe verum •, and afterward there were Seeds of the fame brought to England by others, and the Plants have been cultivated by feveral Perfons in different Parts of England but the Roots of this are not better than those of the Rbapontic; fo that I cannot believe that to be the true Rhubarb. I am also in Doubt if that is not aVanety, and not a diffinft Specie; for from the Seeds of it there have been Plants produced, whose Leaves have been very different; and from Seeds of the Rhapontic I have railed fome Plants which could not be diftinguiihed from that of China Rhubarb. However, it is to be hoped the Sort will be foon known, as there are many Perfons who are fearching to find it.

$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E} \ \mathsf{CCXIX}.$

RICINUS Tourn. Injl. R. H. 532. Tab. 307. Rail Meth. Plant. 20* Lin. Gen. Plant. 962. Palma Chrifti, or Oil Seed \in French. Ricin.

THIS Genus of Plants is ranged in the Fifth Sedion of *Tournefort's* Fifteenth Clafs, which includes the Herbs with Flowers having no Petals, growing feparate from the Fruit in the fame Plant. Mr. *Ray* places it in his Fifth Clafs, which contains the Plants with ftamincous Flowers, growing feparate from the Fruit on the fame Plant. Dr. *Linnaeus* ranges it in the Ninth Seftion of his Twenty-firft Clafs, which includes ftee Plants* with Male and Female Flowers on the fame plant, whose Stamina are joined together in several Bodies.

The Characters of the Genus are,

It hath Male and Female Flowers, difposed in the same Spike: The Male Flowers, which are situated on the lower Tart of the Spike, have Empalements of One Leaf, cut into Three Parts, a* is /hewn at a \ these Segments are oval and concave: The Flowers have \ no Petals, but a great Number of/Under Stamina, which are joined in various Bodies, terminated fry roundish Twin Summits. The Female Flowers, which are sit tinted on the upper Part of the Spike, have Empalements of One Leaf, which are cut into Five Segments, and are armed with Prickles on every Side, as is represented at c. These Flowers have no Petals \ but in the Center is situated an oval Germen, which is closely shut up in the Empalement \ a, /upporting Three Short Styles, which are bifid* represented at L, slanding out beyond the Empalement. The Germin afterward turn to a rounds of the Fruit,

with Three deep Furrows, having Three Cells, as is (hewn at d and e, which in many of the Species are armed on every Side with Thorns, opening with Three Valves, as is reprefented at f and g, each Cell containing One oblong almo/l oval Seed, /haped like the In/eft called a Tick, repre/ented at h.

The Specie here reprefented is,

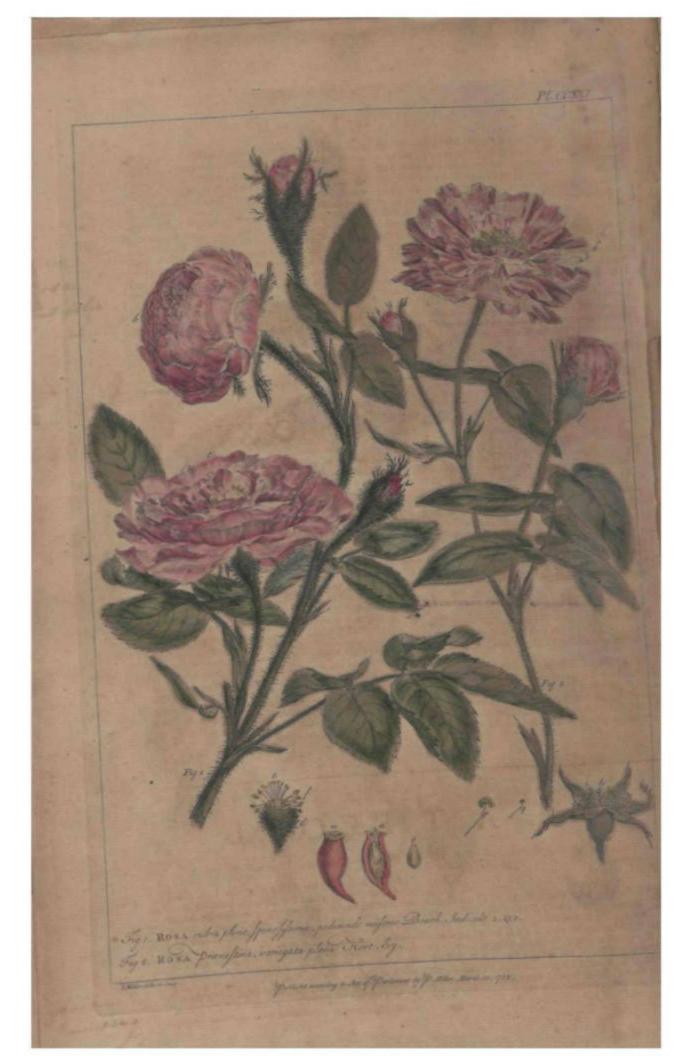
Receius folie pite inequaliter foracti, englate bifeifawed, and prickly Capitals. This is the Ricinal faweicas Palma Christi, what a greenally Stalk,

This Soir has been furguish to be only a Variety of the common Riams; but I have propagated it more than Thirty Years, and have never observed it to after, to that I make no Doubt of its being a diffinit Specie: And secture has been no good Figure of this Plant yet exhibited. I have chosen to give one. The Plants of this Group have been as ill ditinguished by Bocasilla, and as little known, as of any one Gents yet treated of; that can they be affectained, unless they are contained propagated, to see which of them will after it for the contained been as here it is the second of the contained been as here it is the second of the contained been as here it is the contained been as the contained between the con

on Botany, I fixal offit of the grant of the state of the

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This Sort grown naturally in the 8% d Jacks. It is an unnual Plante, the 5ts k is thick, derbaceous, and of a ageinder as thinle or the Grant of the Top into Three or Four final Branches, Side, evilti on thist Green on Eight freu-The Postunder, and are deeply the allo) Sev. the Post-faller based ships in the Post-faller based ships in the Post-faller based ships in the case of the page to the faller based ships in the case of the page to the faller based ships in the case of the page to the faller based ships in the case of the page to the there is a Ffollow like a Navel on the upper Side, from which Content at the Medicine of the Segments, and from the Mid; as there are many transverile Vides, topming to their Bottiers, where the Segments are unequally independ, like the Testh of a Saw: The Pootflaks which full sin the Leaves foresel out since hoersontally than those of the common Sort, and are much thorter. The princi-[4] Stalk and also the Branches are terminated by Joule

Spikes of blowers; thiofe on the lower Part of the Spiks are Male; thefe have ftnoothEcnpalements, which open and expose to View the great Number of Stamina which are collected into different Bodies, and are terminated by whitilh oblong Twin Summits: Thefe Flowers tail away foon after they have caft their Farina. The Female Flowers occupy the upper Part of the Spike; thefe have prickly Empalements, which are closely flut, fo that no Part of the Flower is vifible but the Three Styles, which are ftretched out beyond the Empalement, unlefs the Empalement is opened. The Male Flowers appear firft, and then the Female come out above them; and thefe are fucceeded by roundifh Capfules, divided into Three Cells, each containing One oblong brown Seed, with fome yellowifh Marks. This Plant flowers in *July* and August) and, if the Autumn proves favourable, the Seeds will ripen in Oftober*



P L A T E CCXX.

Recivits Tears. 198. R. H. 532. Tab. 307. Reli. Meth. Plant. 20. Lin. Get. Plant. 952. Palies Christi, or Oil Seed j in French Rivin.

1 H I S being of the fame Genus with the former, the ChanSeS are the fame; but as there are feveral Species of this Genus whofe Empalements of the Flowers K Pickles, fo I have given *** $W^*\&2^\wedge t$ them as there has been no-Notice of this Difference in any of the Books, though it is permanent; for I have feveral Years culrivatecfThree Species, which have always proved the fame, without the lead Variation.

This is, fe+C+w4 $C?>\sim'>*''$ «

RICINUS folus peltatis ferratis, capfulis rugofts non echi-X Palma Chrifti with target-fhaped Leaves which are fawed, and rough Capfules which have no Prickles.

This Sort growt naturally in the Spanijh Weft Indies, from whence I received the Seeds. This is also an an-

of this are father fLder than in the other Sort; the

Leaves are of a deeper Green on their upper Side, but are paler on their under. The Segments of the Leaves have their Edges more regularly fawed. The Male FJowers have a greater Number of Stamina •, their Empalements are cut into Three Parts, which are of a yellow Colour, and the Seed-VeTcls are larger, oval, and have no Prickles. Thefe Differences are permanent.

Fig. #, tf, reprefents the Male Flowers, One as they are fituated on the lower Part of the Spike, the other is feparated from it, to flew the Empalement, which is cut into Three oval concave Segments* b flews the Female Flowers on the upper Part of the Spike, with the Three Styles ftanding out beyond the rough Empalement c; thefe Flowers are fucceeded by oval rough Fruit, reprefented at d_2 having Three deep Furrows which feparate the Three Cells, and have the Three Styles on the Top: Thefe outer Covers fall off, and difclofe a Nut with Three Cells reprefented at e and /, each Cell containing One oblong brownish marked Seed* as is shewn at g. The Footltalk of the Leaf is reprefented at £, as it is inferted in the Middle of the Leaf; i flews One of the Segments with One of its Edges turned up: k flows a Leaf with its upper Surface fully expanded; and / fhews one reverfed, with the under Side outward.

P L A T E ccxxi.

ROSA Tour*. Inft. R. H. 636. ***. 40S. Rm Meth. Plant. 144. Lin. Gen. Plant. 556. The Rofe; in French, Rofier.

H I S Genus of Plants is ranged in the Eighth Seftion of *fourneforfs* Twenty-firft Clafs, which includes the Trees and Shrubs with a Rofe Flower, whofe Empalement becomes a Fruit with hard Seeds. Mr. *Ray* places it among the Apple-bearing Trees, with an umbilicated Fruit. Dr. *Umaus* ranges it in the Fifth Se&ion of his Twelfth Clafs, which includes thofe Plants whofe Flowers have from Twenty to Thirty Stamina, which are inferted cither into the Empalement or the Petals, and have many Styles.

The Chara&ers of this Genus are,

The Empalement of the Flower is of One Leafa which at the Bafe is of a globular Bell-fhap, but is divided above into Five long narrow Segments^ having an Appendix on each Side, as is reprefented at a: "The Jingle Flowers have but Five Petals, of a round Heart-fhape, inferted into the Em* palement; but the double Flowers are composed of a great Number of Petals', of the fame Shape as is shewn at b: In the Center are fituated a great Number of port Stamina, which are inferted into the Necks of the Petals^ terminated by three-cornered Summits, represented at c*, which are represented without the Petals at d, e, and f. In the Bottom of the Empalement g are fituated many Germina, having

each

each a fhort hairy Style inferted in the Side of the Germen^ crowned by obtufe Stigmas, reprefented at i and k. Empalement afterward turns to a foft [Fruit with One Cell, which is coloured when ripe, reprefented at m. The Fruit cut open lengthways is reprefented at n, and o Jhews One of the Seeds, p and q fhew the Style, which at p is magnified, and q is of the natural Size.

The Sorts here reprefented are,

Fig. i. ROSA rubra plena, fpinofiffima, pedunculo mufcofo. Boer. Ind. alt. 2. P. 252. The molt prickly double red Rofe, with a moffy Footftalk, commonly called the Mofs Provence Role.

This Rofe has not been many Years known in England: The first time I saw it was in the Year 1727, in the Garden of Dr. Boerhaave near Leyden, who was fo good as to give me One of the Plants •, but from whence it originally came I could not learn. It is probably a Variety which was obtained by Seeds from fome other double Rofe •, for I have frequently raifed Rofes from Seeds, and have always found the Seeds of double Flowers produce others with double Flowers, and thofe of fingle Flowers always produced the fame •, but thofe from the double Flowers produced Variety of-different coloured Flowers, fcarce any of the fame Colour with those of the Parent Plant. This Sort fends out but few-Stalks from the Root, Thefe are covered with a dark

brown Bark, and clofely armed with fharp Thorns •, the Leaves are composed of Five oblong oval Lobes, which are hairy and fawed on their Edges -, the Footftalks of the Flowers are ftrong, {landing ereft, and are covered with a dark green Mofs, as is alfo the Empalement of the Flower, The Flowers are of the fame Shape and Colour as the common Provence Rofe, and have the like agreeable Odour. It flowers in June and July i but is not fucceeded by Fruit.

Fig. V7 ROSA pr<eneftina, variegata plena. Hort. Eyji. The double variegated Rofe, commonly called the York and Lancafter Rofe.

This is certainly a Variety of the Damafk Rofe, the Plants being in Stalk, Leaf, and every Part the fame, differing only in the Colour of the Flower, those of this Sort being variegated with white Stripes, and the others are plain. There is another Variety of this which is called Mrs* *Hart's* Rofe, which only differs in having the white Stripes morgxliftinct. As the Flov/ers of this are lefs double than of many other Sorts, fo they are frequently fucceeded by Fruit, and have ripe Seeds, from which fome Varieties may be obtained. The Stalks of this Sort rife Six or Seven Feet high, and are fo like thofe of the Damalk Rofe, as not to be diftinguished from it-, fo there needs no Defcription of this, as the other is fo generally known.

AGAVE Lin. Gen. Plant. 390. AloeToarn. Inft. R. H. 366. Tab. 191. Raii Meth. Plant, 117. Aloe-, in French Aloes.

HIS Genus of Plants is ranged in the First This commission in the section of th Heleparatesu ; are ubt'us-Aloe because the Segments of the relation whereas those of the Aloe are entry which the betal, whereas ""FX.: the Herbs with a-Lily Flower of One Petal, cut One Petal * cut into Six Parts, fitting upon the Top of the Fiuit.

The Chara&evs of this Genus are,

The Viewer has no Empalement, as is fhewn at a >, it bath One funnel-Jhaped Petal, cut at the fop into Six equal Parts, which Jiand mil, as at b., It has Six Jlender eretl Stamina, represented at c, which are twice the Length of the Petal, terminated by linear Summits, which may be turned round reprefented at d; under the Flower is fituated an oblonz Germen e, which is narrowed at both Ends, fupportinz a Style the Length of the Stamina, as is Jbewn atj . cramedb a three-cornered Stigma, reprefented at g: The Cermen afterward turns to an oblong three-cornered Captith a doubleTier of fiat Seeds, reprefented at k.

The Specie here reprefented is,

ArAY£ foliis angufiioribus, dentato-fpinofis, fcapo divifo, rands ereSimlms. Agsve with narrower Leaves, whole

Indentures have Spines, a divided Stalk, and ereft Branches.

The Plant here represented Tituvvcicu m m^Chelfea Garthe laft Summer, Anno 1757; and being a very different Specie from the common American Aloe, and not mentioned in any of the Botanic Books, I have here given a Figure of it , hoping it will not be unacceptable $_{.6}$ the curious : And as there have been many Figures ^ Defeript jons of the common Aloe exhibited of late

Years, fo I ftall only mention how this differs from that. The Leaves of this are narrower, of a paler Green, and the Indentures on the Edges are not fo deep-, the Spines at the Indentures are fhorter, and not fo ftrong: Sfr Rat Dlace's it in the Second Seftion of his Twenty- The Leaves do not grow fo ereft, and are drawn in much tW. Clafs which contains the Herbs with a Flower of narrower toward their Points. The Stalk anfes from the

Center of the Plant, growing ereft-, this was *Ten Inches in Circumference below, gradually diminiftiing like a Column, to the Height of Eight Feet, where it divided into feveral Branches; those in the Middle grew Three Feet high v the others .were Ihorter -, but they all grew ereft: Whereas those oi the common Sort are horizontal, turning upwards at their Ends, like the Branches of a Chandelier. The Flowers of this were collefted in clofe Bunches orClufters, at the End of the Branches, ftanding ereft •, but thole of the common Sort grow in Clutters, from the Side of the Branches, and alfooat their Extremisort but are rather larger. Weeks growing to its full Height-, and the Flowers began to open about a Month after; a Succession of the Ode as at h opening in Three Cells, as is fhewn at i, filled was continued near Six Weeks, and the Germina ward grew to their full Size, many of them ftill coiing upon the Plant, and may probably perfed their Seeds. There was another Singularity in this Plant, which was, many of the young Suckers from the Root flowered aC* the fame time with the old Plant...





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P L A T E CCXXIII.

RUBUS Tourn. Infi. R. H. 614. Tab. "385. Raii Meth. Plant. 156. Lin. Gen. Plant. 557. Rafpberry; in French, Ronce,

The Chara&ers of this Genus are,

The Flower bath a permanent Empalement of One Leaf, cut into Five oblong Segments, which 'fpread open, a; it hath Five roundifh Petals b, which are inferted in the Empalewent, and fpread open\and a great Number of Stamina c, which are much Jhorter than the Petals, and are inferted in the Empalement\terminated by roundifh compreffed Summits. It has a great Number of Germina, with fmall hair-like Styles on their Sides, crowned by permanent Stigmas. The Germina afterward become a Fruit, compofed of many Acini d, collected in a convex Head, which is concave on the under Side\each Acinus f, has One Cell, containing One kidney-floaped Seed e.

HIS Genus of Plants is ranged in the Second Se6lion of *Tournefort's* Twenty-firft: Clafs, which includes the Trees and Shiubs with a Rofe Flower, whose Pointal becomes a Berry, compoied of feveral fmall ones.

Mr. Ray places it among the Trees and Shrubs, whofe Fruit is composed of many fmall Acini or Berries.

Doftor *Linnaeus* places it in the Fifth Seftion of his Twelfth Clafs, which includes those Plants whose Flowers have many Stamina, which are inferted in the Empalement, and many Styles.

The Specie here reprefented i%

RUBUS foliis fimplicibus pdlmatis, caule inermi multifolio multifloro, Lin. Hort. Cliff. 192. Rafpberry with fingle hand fhaped Leaves, an unarmed Stalk with many Leaves and Flowers. This is the Rubus odoratus Corn. Canad. 149. Tab. 150. Sweet Canada Rafpberry, commonly called the Flowering Rafpberry.

This Plant was first brought to Europe from Canada* where it grows naturally \ as it also does in many other Parts of North America. The Root is perennial, and creeps far on every Side, fending up many Stalks, fo propagates itfelf very faft -, the Stalks rife from four to feven Feet high, according as the Soil is ftrong and moift, for in dry Ground they are but fliort, and the Leaves fmall, but in moift rich Land they will grow very tall. The Stalks are about the Size of a Man's little Finger, they are covered with a fmooth tiark, of a light brown Colour, and branch out a little toward their Tops. The Leaves are Six Inches long, and Seven broad, cut into Three, Four, or Five angular Lobes, ending in acute Points, in fome meafure refembling a Hand fpread open. They are fawed on their Edges, and have feveral Veins which arife from the Mid-rib, running upward diverging toward the Borders. upper Sides of the Leaves are of a deep Green, but their under Sides are of a light Green and fmooth; their Footftalks are Four Inches long and come out alter-, nately from the Stalk. The Flowers are produced in loofe Bunches at the Top of the Stalks, each {landing upon a longFootftalk; they are composed of Five large roundifh Petals of a light purple Colour, which fpread open like a Rofe, and within are fituated a great Number of Stamina, which are inferted in the Empalement, terminated by roundifh comprefled Summits, \vec{c} . 1. is one of thefe Stamina of the natural Size, and c. 2. is one magnified, b reprefents one of the Germina magnified, and d {hews one of the natural Size. After the Flower is decayed, the Germina fwell to fo many fucculent fmall Berries, reprefented at/, which are collefted in a Head* as is Ihewn at d, in Shape like the common Rafpberry\ -This Plant begins to flower early in July, and there is commonly a Succeffion of Flowers upon them till the Autumn; fo that it is cultivated for the Sake of its Flowers, and is fold among flowering Shrubs by the Nurfery Gardeners: For the Fruit is of little Value^ having no Flavour \ nor do the Plants always produce

P L A T E CCXXIV.

RUDBECKIA' *Lin. Gen. Plant.* 878. *Obelifcotheca Vaill* male Half-Florets, which are barren, and form the *Act. Par.* 1720. *Bobartia Pet. Muf.* Dwarf Sun-Rays or Border; and the Difk is formed of Herma-flower. phrodite fruitful Flowers.

The Characters of this Genus are,

The Specie here reprefented,.Fig, 1. is*

of feveral female Half Florets, which form the Rays or Border b; thefe are fir etched out on one Side like a Tongue,

' ve One or Two Indentures at their Points. Thefe have

' _ 'icn under the Flower, which is abortive. The Hermaphrodite Flowers form the Dijk c, which is xonical; they are fmall, tubulous, and Funnel-fhaped, indented in Five Parts at their Brim; thefe have Five hair-like Stamina, terminated by cylindrical tubulous Summits. The Germen is fituated in the common Empalement, fupportingaflender Style, crowned with a revolved two-parted Stigma. The Germen afterward becomes a fingle oblong four-cornered Seed, crown-

The common Empalement is composed of Two Orders of

Leaves, which are fart and plain; the Flower is composed

n p H I S Genus of Plants is ranged in the Third X Seftion of *Linn<etis*\$* Ninteenth Clafs, which includes those Plants whose Flowers are composed of Fc-NUMB. XXXVIII.

ed by its proper Cup, which has Four Indentures.

RUDBECKIA foliis lanceolato-ovatis alternis indhifis, petalis radii integris, Flor. Virg. 181. Rudbeckia with oval fpear-fhaped Leaves, which are intire and alternate, and the Rays of the Flower are intire. This is the Chryfanthemum helenii folio, umbone floris grandiufculo prominente Pluk. Aim. 99. Tab. 242. Corn Marygold with an Elecampane Leaf, and the Middle of the Flower large and prominent. Doftor D/£ lenius titles it, Obelifcotheca integrifolia, radio aureo, umbone atro-rubente Hort. Elth. 295. Tab. 218.: Obelifcotheca with an intire Leaf, yellow Rays to the Flower, and a dark-red Middle.

This Plant grows naturally in *North America*; the Root is perennial \ the Leaves are oval, hairy,* and intire, they are about Four Inches long, and Two broad in the Middle; the Stalks are fingle, a Foot high, having Two or Three Leaves toward the Bottom, which are

Placed alternate •, the Stalks are terminated by One Flower, fhaped like a fmall Sun-flower, compoied of feveral yellow Petals or Rays, which are intire; and the Difk or Middle of the Flower is very prominent, which is compoied of many hermaphrodite Florets, of a dark-red, or purple Colour. The Flowers appear in July, and there is a Succeffion of them on the Plants, till the Froft flops them.

The other Plant, Fig. 2. although by the alphabetical Order observed in this Work, it is at a great Diftance from the First, yet, according to the Characters of the Flowers, is very near allied to it, and being a Plant not yet figured, we have added it here.

This is the COREOPSIS foliis linearibus integerrimis, caule erefto Flor. Virg. 181. Coreopfis with linear intire Leaves, and an ereft Stalk.

The Charadlers of this Genus are,

The common Empakment is double; the outer one a is rough, and the inner fcaly; the Flower is composed of Female tongue-Jhaped Half-Florets b, which form the Rays, and Difk of hermaphrodite Florets d\ the Female Half-Florets have a Germen c, but no Style or Stignta; the hermaphrodite Florets

have Five JLcrt hair-like Stamina, terminated by cyli, Summits, and a comprejied Germen, fupporting a j Style, crowned by a bifid Stigma -, the Germen aftc, «***- turns to a fingkfour-cornered Seed f, having a membranaceou Sheath e furrounding it.

This Genus of Plants is ranged in the Third Sections, Linriteus's Nineteenth Clafs, which includes those Plan whose Flowers are composed of female barren Flower and hermaphi'Qdite Flowers, which are fruitful.

This Plant grows-naturally in Virginia^ and otlv Parts of 'North America \ the Root is fibrous, but doss rtot continue long, feldom furviving Two Years. The Stalk is erect and fmooth; it rifes a Foot and half high, dividing upward into many fmalier Branches -5 it is garnifhed with narrow rough Leaves g, which are Thre: Inches long, fet oppofite without Fcotftalks. The Branches divide again at the Top into long fle-nder ere. Footftalks, each fuftaining One yellow radiated Flo we, composed of Female Half-florets, which are the Ray > or Border of the Flower, and a convex Difk or F " " of a dark purple Colour, composed of hermaph Florets. This Plant flowers in August and Sept but unlefs the Season proves very favourable, the See will not ripen in England.

P L A T E CCXXV

SALVIA fctum. Lift. R. H. 180. Tab. 83. Raii Meth. Plant.-58. Lin. Gen. Plant. 36. Sage; in French, Sauge.

The Charafters of this Genus are,

The Empakment of the Flower a is tubulous, of One Leaf which enlarges upward, and is cut into Four Parts at the Brim. The Flower is of One Petal, divided into Two Lips b and c 5 the upper Lip b is concave, compreffed, incurved, and a little indented at the Point. The lower Lip c is broad, reflexed, and for the moji part trifid. It hath Two Stamina terminated by profirate Summits d, and a quadrifid Germen fupporting a long flender Style c, crowned by a bifid Stigma. The Germina afterward become Four naked Seeds f, fitting in the Bottom of the Empakment g. Thefe Seeds are reprefented at h, taken out of the Empakment.

JTTMIIS Genus of Plants is ranged in the Firft J[Seftion of Tournefort's Fourth Clafs, which includes the Herbs with a lip Flower of One Petal, whofe upper Lip is hollow like a Helmet, and arched. Mr. Ray places it in the Firft Seftion of Fourteenth Clafs, which contains the Plants with woody perennial Stalks\(^\) whofe Flowers grow in. Whorles. Doftor Linmeus ranges it in the First Sestion of this Second Class, which includes those Plants, whose Flowers have Two Stamina and One Style. This is an Example of one Imperfection in his Syftem •, for by ranging the Plants according to the Number of Stamina in their Flowers, he has icparated a Clafs, which by all former Syftems wasjudicioufly kept intire, a Part of which are here placed in his Second Clafs; and the greater Part of the Genera compose the First Section of his Fourteenth Class; the Flowers of thofe having Two long and Two fliorter Stamina.

The Species here reprefented are,

Fig. 1. SALVTA foliis fubrotundis ferratis, bafi truncatis dentatis Hort. Cliff. 18. Sage with roundifh fawed Leaves/ whofe Bafe is truncated and indented. This is the Salvia Africana frutefcens, folio fcorodonU, fiore violaceo Hort. Amft. 2. p. 18 x. Shrubby African Sa^e, with a Wild Sage Leaf, and a Violet Flower.

This grows naturally at the Cape of Good Hope, fro] whence it was brought to the Gardens in Holland, ab Fourfcore Years ago, and hath fince been difperfed moil of the curious Gardens in Europe. It rifes with Ihrubby Stalk, Four or Five Feet high, dividing into many Branches, which are garnifhed with oval fawed Leaves, which have One or Two Indentures at their The upper Bafe, which appear as if they were torn. Leaves are more intire and much fmalier, fitting clofe to the Branches; they are greyifh, and have fmall Leaves coming out juft above their Footftalks. The Flowers come out toward the End of the Branches, ac each Joint, in the fame Manner as the other whorled Flowers; but there is feldom more than Two at the fame Joint, One on each Side the Stalk, and often but One: Thefe are fhaped like thofe of the common Sage, having a hooked upper Lip, and a recurved lower Lip, which is broad, and indented in Three Parts at the End, the middle Segment being larger than the other. The Flowers are of a bright blue Colour, having Two long Stamina, which are terminated by oblong Summits lying proftrate fattened in the Middle to the Stamina; rhefe lye under the upper Lip of the Flower •, and with thefe arifes a long hooked Style, crowned by a flender Stigma. After the Flower is paft, the Four Germina become Four naked Seeds fitting in the Bottom of the Flower-cup. This Plant continues flowering from June

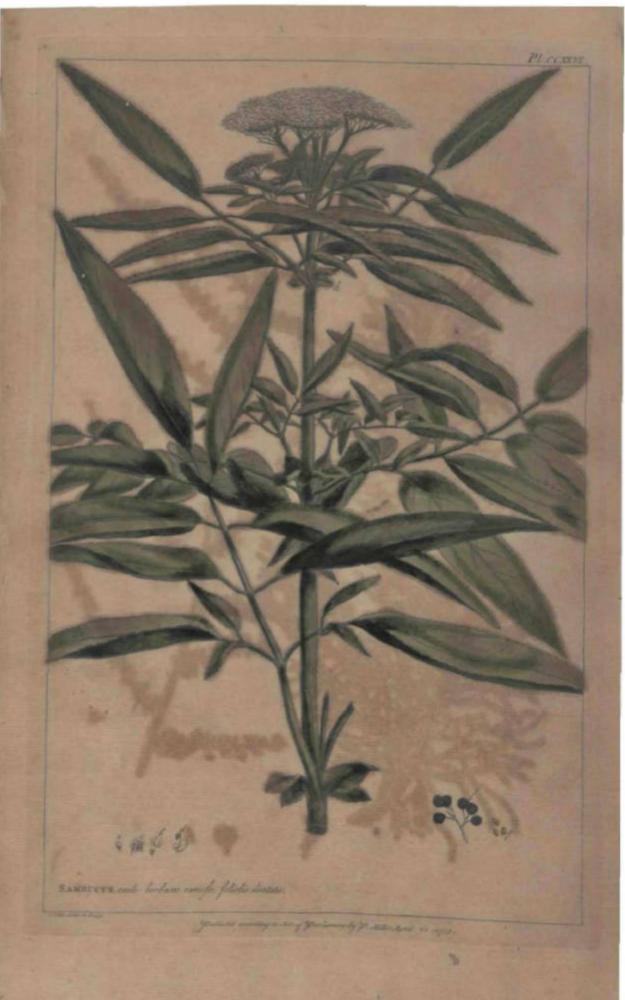
Fig. 2. SALVIA foliis oblongo-ovatis integerrimis, calycibus patulis coloratls.* Sage with oblong-oval intire Leaves, and fpreading coloured Empalements to the Flower.

to O&ober; and the early Flowers are often fucceeckel

by Seeds, which ripen in the Autumn.

This Sort I received from *Holland* without any Title, but that of a *new Sage from the Cape*. It has a great Refemblance of the Firft, but the Shoots are ftronger, the Leaves longer, and not fo broad j the Flowers grow chiefly at the End of the Branches, and the principal Stalks terminate in a Sort of loofe Panicle of Plowers. The Ernpalement of the Flower is large, intire, ami of a pale blue Colour, fpreading open flat; fo that after the Flowers are fallen, thefe have the Appearance at a simall Diftance of a belt-fhaped Flower. This Plant continues





PURCXXVII e securios injula completa progesto, folio lacados confere. ers we the winds to refer profits brooks he spokes. who may - and figures to fine the state of spice of

jjflgfgSJ^eds^gre. ^ . ^^ Var a∧

i niTm fupjxn^cFtty b^dn^MP %cadeh\al Variety of the First Sort which has rifen from Seeds. It may be fo. All I can fay of it is, that the Seeds of this came from

in Flower great Part of the Summer; but it has not the Cape of Good Hope a few Years paft, as a new Sort; and alfo, that I have frequently raifed Plants of the First Sort from Seeds, but have never found any Variation in them.

SAMBUCUS Tourn. Infi. R. H. 606. Tab. 376. Rail Meth. Plant. 145. Lin. Gen. Plant. 3U. Elder; in French,

The Characters of this Genus are,

The Flower hath a fmall permanent Empalement a, which is of One Leaf cut into five Parts at the Top. The Flower b is of the concave fVheel Shape, of dne Petals which is obtufe, five-pointed, and reflexed. It hath Five awUJhaped Stamina c, which are terminated by roundifh Summits d, and an oval obtufe Germen e, fituated under the Flower, having no Style? but a bellied Glandule crowned by Three obtufe Stigmas. The Germen afterward turns to a roundifh Berry f, with One Cell, inclofing Three angular Seeds g, which are convex on their outer Side.

t M'\HIS Genus of Plants is ranged in the Sixth J[Section of Tournefort's Twentieth Clafs, which includes the Trees and Shrubs with a Flower of One Petal, whofe Empalement turns to a Berry. Mr. Ray places it among the Trees with an umbilicated Fruit or Berry, inclofing feveral Seeds, Dodor Linnaeus ranges it in the Third Sedition of his Fifth Clafs, which includes thofe Plants whofe Flowers have Five Stamina, and Three Styles.

The Specie here reprefented is,

SAMBUCUS caule herbaceo ramofo, foliolis dent at is. Elder with a branching herbaceous Stalk, and the Lobes of the Leaves indented. This is the Sambucus humilisjive Ebulus. C. B.P. 456. Dwarf Elder or Ebulus. John Bauhin titles it, Ebulus Jive Sambucus herbacea, Hift. JU 546. Doftor Linnaus calls it in his Species of Plants, Sambucus cymis tripartitis, Jlipulis foliaceis. 269. Elder whofe Tops divide in Three Parts, and a leafy Stipula. It is titled in the Shops Ebulus and Cham < eafie. In Engliflh, Dwarf Elder, Danewort and Walwort.

This Plant grows naturally in England, particularly in Bedford/bire, Northampton/hire, and Leicejter/bire, where it is frequently a troublefome Weed in the Corn-fields. It hath a creeping Root, which fpreads far under the Surface of the Ground. The Stalks rife from Three to Five Feet high, according as the Soil is where it grows. Thefe are garnifhed with winged Leaves, composed of Six or Seven Pair of Lobes, terminated by an'odd one; they are about Four Inches long, and One broad near their Bafe, but end in acute Points; they are of a deep Green, indented a little on their Edges, and ftand by The upper Parts of the Stalks branch out, and are terminated by large Umbels of whiti/h Flowers tpp'd with Purple; they have One Petal, which is cut into Five obtufe Segments; thefe are reflexed backward, and Five Stamina, which ipread open upon the Segments, Vvith an oval Germen in the Center, which afterward turns to a roundifh Berry, which when ripe is black, and filled with a purple Juice. At the fetting on of the Leaves, there are feveral fmall Leaves fet clofe to the Footftalks reprefented at h, which Dottor Unnous. titles StipuU. The Plant flowers in July, and the Seeds ripen in September. This Plant is ufed in Medicine; it purges ferous watery Humours by Stool, and is therefore much recommended for the Dropfy, in which Diforder I have known the Juice of it taken Three times a Week, Two Spoonfuls at each Time, perform Wonders. It is also efteemed good for the Gout, and fcorbutic Diforders.

The tender Shoots of the Common Elder Tree are fre*,, quently fold in the Markets for this, from which it may be eafily diftinguifhed by the Number and Shape of the Lobes on each Leaf. The common Elder having rarely more than Two Pair of Lobes, which are broad and fhort when compared to this, which has feldom lefs than Five, and frequently Seven Pair of Lobes terminated by an odd one.

S. 47 DLIVA Tauro, Inf. R. H. 460, Tab. 260. Barthuris Att. Par. 1719. Coma aureaCom. Hort. Amft. 2. p. 99. Lavendar Cotton, or Goldylocksj in French Gårdtrobe.

The Characters of this Genus are.

1.// hath a common hemifpherical Empalement a, which isfcaly he Flower is compofed of many hermaphrodite Florets b, hich are uniform and longer than the Empalement. Thefe

Funnel-ffjaped c, and cut into Five Parts at the Top,

nch fpread open\ they have Five very Jhort hair-like terminated by cylindrical Summits, and a three-

CXXVII.

HIIS Genus of Plants is ranged in the Third Section of Thermford's Twelvin Class, which inciudes the Herbs with a florenicus Flower, whole Seeds have a Dong. Doffer Lieunt places it in the First Section of his Ninerecuth Class, which contains thate Planta whole Plowers truite | Flureta unly, are composed of Hermapharodice

The Species here reprefented are,

Fig. L. SANTOLINA torymbisfimplicibusfaf.lgiaiis, foliis tinearibus confertis. Lavendar Cotton wini fingle Heads of Flowers gathered in Bunches, and linear Leaves in Clufters. This is the Coma aurea Abrotani folio annua Ponted. Annual Gpldylocks with the Leaf of Southernwood.

This Plant grows naturally on the African Side of the Mediterranean -, it is annual -, the Stalks rife about Two Feet high; they are ftiff, but herbaceous, fending out many fide Branches their whole Length; those from the lower Part of the Stalks are Four or Five Inches long, but they are gradually fhorter to the Top. The Leaves come out in fmall Clufters from the Joints; they are very narrow and Ihort; fome of thefe end in Three Points, others are fingle: The Branches are terminated by Clufters of Flowers of a bright Yellow, each Corymbus ftanding on a fhort Footftalk - the common Empalement is oval and fealy -, the Flowers are composed of a great Number of hermaphrodite Florets, which are longer than the Empalement; they are equal, in Size, and have each Five fhort Stamina. Thefe Flowers appear in Auguji, and continue till the Froft

deftroys them; but the Seeds do not ripen in England. The whole Plant has a fine aromatic Scent.

Fig. 2. SANTOLINA corymlisfimplical fajligiatis, foliis femhrifidis linec.ribus, Lin. Sp. Plant. 843. Lavendar Cotton with fingle Heads of Flowers in Bunches, and linear Leaves, which are half their Length trifid. This is the Coma aurea Africana fruticans, foliis crithmi rncrmi Hort. Amjh 2.p. 99. Doftor Plukenett titles it, Jacob/eq MthiGpica, foliis abrotani trifidis, fummo caule capitulis pa?vis glomeratis. Aim. 194, Ethiopian Ragwort, with trifid Southernwood Leaves, and fmall Heads in Bunches at the Top of the Stalks.

This Sort grows naturally at the Cape of Good Hope, but has been long an Inhabitant of the curious Gardens in. Europe. It riles with a fhrubby Stalk Five or Six Feet high, clofely garnifhed the whole Length, with narrow Leaves about Two Inches long, which are divided half their Length into Three Parts, as is reprefented at $h \setminus$ they are of a grey Colour, and are a little fucculent. The Flowers, grow in large Clufters at the End of the Branches, as is flewn at g; thefe are of a deep yellow Colour, and are continued in Succefiion moft of the Summer Months \ but the Seeds do rarely ripen ia England,

KALMIA Lin. Gen. Plant. 482. Chamarhododendros. Tourn* Inft. R. H. 604. fab. 373. The Rofe Laurel, or Mountain Laurel.

The Characters of this Genus are,

The Empalement of the Flower is finally permanent^ and cut into Five roundish Segments a, which spread open; the Flower is of One Petal, with a very fhort Tube, fpreading cpen, and cut into Five roundifh Segments b •, it hath Ten awlfiaped Stamina c, which fpread and rife upward, terminated by roundish Summits d. In the Center of the Flower isfituated an oval Germen, fupporting a Style longer than the Petal e, crowned by an obtufe Stigma. The Germen after-* ward becomes an oblong Capfule f, having Five Cells g, which talks, and are placed without Order; at the End of the are filled with fmall Seeds h.

HIS Genus of Plants is ranged in the First Sedlion of Linn < eus's Tenth Clafs, which includes thofe Plants whofe Flowers have Ten Stamina, and One Style. Tournefort places it in the Fourth Section of his Twentieth Clafs, which contains the Trees and Shrubs with a Flower of One Petal, whofe Pointal becomes a Capfule with feveral Cells.

The Specie here reprefented is,

KALMIA foliis lanceolato-ovatis nitidis fubtus ferrugineis, foribus corymbofisterminalibus. Kalmia with neat fpearihaped oval Leaves, of a rufty Colour on their under Sides, and Flowers in round Bunches terminating the Branches. This is the Chamarbodcdendros laurt 3. p. 17. Dwarf Rofe Bay, with a Bay-leaf Evergreen, and ftudded Flowers in round Bunches. Doctor

Linnaus titles it, Rhododendron foliis nitidis ovalibus, margine acute reflexo Sp. Plant. 392. Rofe Bay, with neat oval Leaves, whose Borders' are acutely reflexed. Commonly called in *America*, *Rofe Laurel*\ or *Mountain*

This grows naturally upon Rocks and barren Soils in many Parts of North America, where it rifes with a fhrubby Stalk, Fifteen or Sixteen Feet high, fending out a few Branches toward the Top, which are garniflied with ftiff, fmooth Leaves, Six Inches long, and Two broad, of a lucid Green on their upper Side, and pale on their under Side while young; but afterward change to a rufty iron Colour: They have fhort thick Foot-Branches between the Circle of Leaves, the Buds for flowering are formed, which fwell during the Winter and Spring Months, till the Beginning of June, when, the Flowers burft ouc from their Covers, and form a roundifh Bunch (or Corymbus) fiting clofe to the Branch; the Flowers have but One Petal, which is cut almost to the Bottom, into Five obtufe roundifh-Segment, One of which hath many Protuberances or Studs; fome of thefe are yellow, others green, and fome are purplifh and hairy; the Petal is of a pale Colour. When the Flowers are paft, the Germen becomes an oblong VefTel with Five Cells -y but thefe do not ripen here. This Shrub, in its native Country, continues flowering great Part of the Summer, and is a great Ornament to the barren Rocks; and if it could be got to thrive well in England, it would be one of the greateft Ornaments here. As this was the Firft Shrub of the Kind which has flowered folio fempervirens, floribus bullatis corymbofis Catefb. Carn England, we have given a Reprefentation of it, though it is out of the Order we have observed in this





P L A T E CCXXIX.

SCOLYMUS, Tourn. Infi. R. H. 480* Tab. 273. Rail Meth. Plant. 31. Lin. Gen. Plant. 826. Golden Thiftle.

The Characters of this Genus are,

If bath a Flower composed of several Florets, included in One common oval imbricated Empakment a, the Scales of which are loofe, and end in acute Points: The Florets are equal and hermaphrodite; they have One Tongue-shaped Petal b, which is indented at the Top; and Five Jhort Hairlike Stamina included in the Tube, terminated by cylindrical Summits. The Germen c is fituated under the Floret supporting aflender Style d, which is longer than the Stamina, crowned by Two refiexed Stigma's. The Germen e afterward becomes an oblong single Seed pointed at the Base f, inclosed in a convex Chaff g, which is roundish, ending in Three Points.

HIS Genus of Plants is ranged in the Second Seftion of *Tournefort*\ Thirteenth Clafs, which includes the Herbs with a femiflofculous Flower, whose Seeds have no Down.

* Mr. Ray places it in the Second Seftion of his Sixth Clafs, which contains the Herbs with a compound Flower, having folid Seeds without Down.

Doftor *Linnaeus* ranges it in the Firft Seftion of his Nineteenth Clafs, which includes those Plants whose Flowers have only fruitful Florets, and their Stamina are connected with the Style.

The Specie here reprefented is,

SCOLYMUS foliis margine incraffatis, Lin. Sp. Plant. 813, Golden Thiftle with the Borders of the Leaves thicker than the Middle. This is the Scolymus Chryfanthemus, C. B. P. 384. Scolymus with a Golden Flower. Clufins titles it Scolymus Theophrafti Hifpanicus, Hift. 2. p. 153. Theophraftus's Spanifh Scolymus. John Bauhin calls it Spina lutea, Hiji. 3. p. 84, Yellow Thorn. And Dodonaus titles it, Carduus Chryfanthemus, Pempt. 725. Golden Thiftle.

This Plant grows naturally in Spain, Italy, and the South of France. It has a perennial Root, which is compofed of many ftrong Fibres, which ftrike deep in the Ground, from which arife many long narrow Leaves, which are finuated on theif Edges, each Sinus ending with a very fharp Spine. They are of a whitifh Green, and firm Texture; their Borders being the thickeft Part, they turn backward toward the Ground. From between the Leaves the Flower-Stalks arife, which grow from Three to Four Feet high •, they are garnifhed their whole Length with Leaves of the fame Form with thofe at the Bottom, whose Bafes run along the Stalk, forming leafy Borders or Wings which run from one to the other \ thefe are also indented, the Sides of each Indenture being armed with Spines. The upper Part of the Stalk divides into Two or Three herbaceous Branches, which are clofely garnifhed with the fame long prickly Leaves, and each is terminated by a large golden Flower, compofed of feveral Florets which are tongue-fhaped, and very like those called by Tournefort and others Halfflorets, which are generally female; but thefe are hermaphrodite, each having both Sexes, and are fruitful. The Flowers fit very close to the End of the Branch, and are fo clofely guarded by long Leaves, which are armed with ftrong Spines, that it is very troublefome to reach the Flower. The Scales of the common Empalement do alfo end with Spines, fo that it is difficult to get the Seeds when they are ripe.

This Plant flowers in *July* and *Augufi*, and, if the Seafon proves dry, the Seeds will ripen the End of *Septembery* but if much Rain happens during the time of its Flowering, the Wet lodges in the Empalement about the Germen, and caufes them to rot, and become abortive. The Roots of this will continue feveral Years, and may be propagated by Off fets from the Root.

The Leaves, Stalks, and Root, of this Plant, abound with a milky Juice. The People of *Salamancha* eat this Plant, in the fame manner as *Chardon*; and the *Spa* niards* fophifticate their Saffron with the Flowers of this Plant.

P L A T E CCXXX.

SCORPIOIDES, Tourn. Infi. R. H. 402. Tab. 226. Rail Meth. Plant. 106. Scorpiurus, Lin. Gen. Plant. 792. Caterpillar, in French, Chenille.

The Characters of this Genus are,

The Empalement of the Flower is erett, of One Leaf and blown up, lightly campreffed, and cut into Five Points, which are acute a.. The Flower is of the Butterfly Kind> having a roundifh Standard indented at the Top b, and the Edges reflexed and fpreading. The Wings c are almoft oval, loofe, and have a blunt Appendage. The Keeld is Half-moon-Jhaped, the Belly gibbous, the Point erett, and divided in Two Parts below\it has Ten Stamina, Nine of which are joined together e, and One Jtands feparate f, which are rifing upward, and terminated by finall Summits. It hath an oblong taper Germen, which is reflexed, fupporting an iwflexed NUMB, XXXIX.

Style g, terminated by a pointed Stigma. The Germen afte?+ ward becomes an oblong, taper, leathery Pod, which is cha* nelled, rough, and twifted round h, divided lengthways into feveral Cells i, and on the Outfide contracted into Joints Jlightly k, each Cell containing One Kidney-fhaped Seed 1.

HIS Genus of Plants is ranged in the Third Section of *Tournefort*[^] Tenth Clafs, which includes the Herbs with a Butterfly Flower, whose Pointal be comes an articulated Pod.

Mr. Ray places it in the Second Section of his Twenty-first Class, in which he places the Herbs with fingle Leaves which have a Butterfly Flower.

Doftor *Linnxus* ranges it in the Third Sedtion of his Seventeenth Clafs, which includes those Plants whose Flowers have Ten Stamina joined in Two Bodies.

R r The

The Specie here reprefented, is,

SCORPiuRUS pedunculis fubtrifloris, leguminibus extrorfunithick, and are garnifhed with pretty thick Leaves* havfpinis diftinflis acutis, Lin. Sp. Plant. 745. Caterpillar with Three Flowers on a Footftalk, and the Outfide of the Pods armed with acute Spines which are diftinft. This is the Scorpioides bupleuri folio, C. B. P. 287. Caterpillar with aHareVear Leaf. Dodonaus titles it, Scorpioidesprius, Pempt. yi. The Firft Caterpillar.

This Plant grows naturally in Spain, Sicily, and other warm Parts of Europe; but has been cultivated in the English Gardens by way of Curiofity, rather than any Beauty; the Pods, when green, having ib much the Appearance of Caterpillars, that many People have taken them far fuch, feeding upon the Plant.

It is an annual Plant-, the Root is composed of many

Fibres, which are long, (lender, and of a yellowifli Colour. The Stalks are herbaceous, and fpread on the Ground; they are a Foot and Half long, iucculent and ing long Footftalks which are bordered; the Leaves are Two Inches long and Three Quarters broad, ending with an obtufe Point, and have fhort Hairs over their Surface-From the Wings of the Stalk come out the Footftalks of the Flowers, which are Eight or Nine Inches long, very (lender, fuftaining at the Top Three yellow Flowers of the Butterfly or Pea-blcom Kind, which are fucceeded by (lender contorted Pods, which have a few diffinffc fhort Spines on their outer Side. . They are first green; and, before they are twifted, have the Appearance of green Caterpillars, fo that they have been frequently taken for those Infests feeding upon the Plants.

It flowers in June and July, and the Seeds ripen .in the Autumn. It is called Scorpiurus, from the Pod having the Refemblance of a Scorpion's "Tail

SCROPHULARIA, Tourn, Itift. R. H. 166. Tab. 74. Rait Method. Plant. 89. Lin. Gen. Plant, 674. Figwort, In French, Scro/ulaire.

The Characters of this Genus are,

The Empalement of the Flower is permanent, of One Leaf cut into Five Parts a, which are fhort and roundifh\ the Flower hath One, unequal Petal, having a large globular and in the latter there is another Sort like this, but it is Tube which is fwollen: The upper Part is cut into Five Segments; the Two upper Segments b are large and ere£l, the Flowers of a paler Colour, which has been often con-Two Side-ones c are fpread open, and the lower is reflexed; // founded with this; but I have 'cultivated both Sorts hath Four fhort /lender Stamina, which are deflexed, Two being fhorter than the other, terminated by twin Summits, end an ovalGermen d, fupporting a/lender Stylet, crowned by a /ingle Stigma. The Germen afterwards turns to a roundish, acute, pointed Capsule f, having Two Cells g, open-ral four-corned Stalks about Two Feet and a Half high, ing at the Top with Two Valves, and divided by an intermediate Partition', filled with /mall Seeds /aftened to the roundi/h Receptacle i.

THIS Genus of Plants is ranged in the Third Seftion of Tourne/orfs Third Clafs, which includes the Herbs with an anomalous Flower of One Petal, fpreading on both Sides.

Mr. Ray places it in the Second Seftion of his Nineteenth Clafs, in which is contained the Herbs with an irregular or difformed Flower of One Petal, whofe Seeds are included in Capfules.

Doftor Linnaeus ranges it in the Second Section of his Fourteenth Clafs, which includes those Plants whofe Flowers have Two long and Two fhort Stamina, and the Seeds are included in Capfules.

The Specie here reprefented is,

5CROPHULARIA /oliis difformibus glabris, pedimculis axillaribus aggregatis. Figwort with difformed Leaves which are fmooth, and Footftalks growing in Clufters from the Wings of the Stalk. This is the Scrophularia Hifpanua, Sambući folio glabro, Tcurn. Injt. 166. Smooth Alder-leaved Spanish Figwort. Scrophularia Sambuci /olio, Park. Theat. 611. Alderleaved Figwort. Dodtor Plukenett titles it, Scrophularia Sambuci /olio, /lore rubro luteo vario pulchro, Aim. 388. Figwort with an Alder Leaf, and a red-yellow and variable Flower.

This Plant grows naturally in Spain and Portugal; much larger, the Leaves and Stalks are hairy, and the more than Thirty Years, and have not found them alter.

The Roots of this Plant grow very thick at their Crown, and have many ftrong Fibres ot a dark Colour, which ftrike deep in the Ground •, from which arife fedefending out a few fhort Side Branches toward the Bot-They are garnifhed with Leaves at each Joint, placed oppofite, which are of irregular Figures: They have feveral Lobes like winged Leaves, of different Sizes, terminated by an odd one; thefe are irregularly fawed on their Edges, ending in acute Points: Their Surface is fmooth, of a lucid green, but their under Side is paler. They have pretty long Footftalks, and, when they are bruifed, have a ftrong Scent of Alder, Flowers come out from the Side of the Stalk at each of the upper Joints in Clufters, each ftanding upon a feparate (lender Footftalk, and have the Appearance of whorled Flowers. They have fome Refemblance to the Lip Flowers, having a fhort fwelling Tube, of an irregular Shape, cut at the Top into Five irregular Segments; the Two upper are the longeft, thefe ftand eredt; the Two Side ones are broad and fpread open, and the lower is fhort and reflexed. They are variable, having fome red, yellow, and green Spot\$ in each; fo that when the Plants are ftrong and thriving they make a good Appearance. This flowers the latter End of May and the Beginning of *June*, and the Seeds ripen in *Augusti*. The Roots will last Two or Three Years with guft. Care,



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PLATE

CCXXXII.

SECURIDACA, Tourn. Inji. R. H. 399. Tab. 224. Rail Meth. Plant. \o\$. Coronilla, Lin. Sp. Plant. 743. Hatchet-Vetch.

The Characters of this Genus are,

The Flower has a Jhort permanent Empalement of One Leaf indented in Four Parts at the Brim a; the Petal is of the Butterfly Kind b; the Standard is Heart-Jbaped > and but little longer than the Wings; the Two Borders are reflexed. The Wings are oval, ere£t> and draw toward each other; the Keel is comprejfed^ and a little JJoorter than the Wings. The Flower has Ten Stamina* Nine of which c are joined^ and One dftands feparate. They rife almost in a right Angle\ and ere terminated by obtuse Summits. It hath a taper Germen e, supporting a floort Style crowned by an obtuse Stigma. The Germen afterward turns to a long comprejsed Podi^ having a plain Suture on one Side, but narrow on the other, ending in an acute Pointy opening with Two Valvesss, having a longitudinal Partition g, and divided into Joints h, each containing One square Seedi.

HIS Genus of Hants is ranged in the Third Section of Tourwffit's Tenth Clafs, which includes the Herbs with a Butterfly Flower, whole Pointal turns to a jointed Pod.

Mr. Ray places it in the Second Section of his Twenty-first Class, which contains the leguminous Herbs with fingle-jointed Pods. Dodtor Linnaus joins this Plant to his Genus Coronilla, which is ranged in the Third Sedtion of his Seventeenth Class, which includes those Plants whose Flowers have Ten Stamina joined in Two Bodies.

The Specie here reprefented is,

SECURIDACA lutea . C. B. P. Greater yellow

Hatchet-Vetch. This is the Securidaca vera, ClufJ Hi/I. 236. The true Hatchet-Vetch. John Bauhin titles it, Securidaca fiore luteo> filiqua latd oblongd, Hi/J. 2. 245. Hatchet-Vetch with a yellow Flower, and a broad oblong Pod. Do&or &nn*us titles it, Coronilla herbacea^ leguminbus fakato-gladtatis, Hort. Cliff. 363. Herbaceous jointed-podded Colutea, with Sickle Sword-fliaped Pods.

This is an annual Plant which grows naturally amongfl: the Corn in Spain, but is frequently cultivated in Gardens for the fake of Variety. The Root is composed of a few flender Fibres, which run pretty deep in the Ground, from which come out feveral Stalks a Foot and a Half long, which divide into feveral Branches, and lie upon the Ground. Thefe are garnilhed with fmooth winged Leaves, compofed of Seven or Eight Pair of Lobes, terminated by an odd one; the innermoft Lobes are the largeft, the other dioiinifhing in their Size to the End; thefe are oval, obtufe,' and indented at their Points, and clofe together every Evening, or in wet Weather. The Footftalks of the Flowers arife from the Wings of the Leaves •, they are flender, Four or Five Inches long, and fuftain feveral yellow Flowers, growing in a Kind of Umbel at the Top; they are of the Pea-bloom Kind, and appear in July. They are fucceeded by compreffed Pods near Four Inches long, having a plain Suture on one Edge, but the other is fharp; ending in an acute Point; thefe.are alittle bent like a Sickle, but are fhaped like a Broad Sword. They have feveral Joints, which are feparated by thin Partitions, in each of which is lodged One fquare Seed; the Pods open with Two Valves lengthways. It has this Title from the Shape of the Seeds, which are like the Stcuris of the Antients.

PLATE CCXXXIII.

SENECIO, Boerh. Ind. alt. 117. Conyza, H. L. 661. Tourn. Inji. R. H. 455. Tab. 259. Groundfel.

The Chara&ers are,

The Empalement of the Flower a—a is concealed and fealy. The Scales are placed over each other, like those of Fish, and have no Spines at their Ends. The Flower is composed of several Floretsh, which are longer than the Empalement. These are tubukus and Funnel Jhaped c and d, and their Brim is cut into Five Segments which spread open i. The hermaphrodite Florets have an oval Germen d, crowned V&th Down ty supporting Two slender Styles the Length of the Petal, crowned by oblong erett Stigma's. They have Five very Jhort Stamina h. siiuaied within the Tube of the Flower, terminated by oblong Summits. The Germen afterward turns to an oval Seed d, crowned with long Down.

Ti HIS Genus of Plants is ranged in the Second Seftion of *Tourneforfs* Twelfth Clafs, which includes the Herbs with a floculous Flower, whose Seeds are crowned with Down.

Mr. Ray places it in his Seventh Clafs, which corftains the Herbs with a difcous Flower and downy Seeds,

Indeed this Plant, by its Charafters, feems tobeyj^^-neris^ for it differs in feveral Things from the Senecio according to Linnaus's Syftem, tho' it comes the neareft to that and the Baccharis of any of his Genera, which induced me to place it there; but as moft of the Flowers are hermaphrodite, and thefe have Two Styles, the few that^ are male are very fmall, and are intermixed with the' hermaphrodite Florets, fo in thefe refpeds it differs from the Senecio.

The Plant here reprefented is,

SENECIO Africanus, folio retufo, H. Cath. African Groundfel with a blunt-pointed Leaf. This is the Conyza Africana^ Senecionisfiore\(^\) reiujis foliis\(^\) H. L. Tourn. Inft.R. H. 455. African Fleabanejwith a Groundfel Flower and blunt-pointed Leaves; and is probably the Pfeudohelichryfum frutefcens, Africanum, retufis foliisviridibus\(^\) fiore luteo nudo, Mor. Hifi. 3. 90. Shrubby African baftard Goldylocks, with green blunt-pointed Leaves and a naked yellow Flower.

'This Plant grows naturally at the Cape of Good Hope, but has been long cultivated in the curious European

Gardens.

Gardens. It is a perennial Plant, having a thick fibrous Root, from which arife feveral herbaceous hairy Stalks, near Four Feet high, which put out feveral Side Branches, and are garnifhed with hairy Leaves about Two Inches long, and a Quarter of an Inch broad tpward their Points, where they are broadeft -, diminifti gradually to their Bafe, where they are narrowed, and fit close to the Stalks. They come out from the Side of the Stalk and Branches in Clufters, feveral of them riling from the fame Point, and without Order on every Side. They are of a deep Green on their upper Side, and pale on their under, continuing all the Year. The upper Part of the Stalk divides into feveral Footftalks, each of

which is terminated by a Sort of Umbel compofed of golden Flowers •, thefe are of the compound Kind, having many hermaphrodite Florets, included in One common Empalement which is fcaly: Thefe appear late in the Autumn, and continue in Beauty all the Winter, fading in the Spring, and are fometimes fucceeded by oval Seeds crowned with Down, which ripen in Eng-

The Stalks of this Plant generally decay the Second Year, which are fupplied by new which come from the Root; fo that until the young ones are grown to a good Height, the old remain with their green hairy Leaves in Vigour.

SERRATUL'A, Bill. Nov. Gen. 8. Hort. Elth. 261-264. Rait Meth. Plant. 40. Lin. Gen. Plant. 831. Saw-

The Chara&ers of this Genus arc,

The common Empalement of the Flower a is imbricated, cylindrical, and bellied. The Scales are Spear-fhaped, acutepointed\ and unarmed. The Flower is composed of feveral hermaphrodite Florets h, which are uniform and equal; thefe are of One Petals Funnel-fhaped, and the Brimd is cut into Five Segments, which fpread open \ they have Five fhort Hair-like Stamina, terminated by cylindrical Summits f, perennial Root, composed of many fitrong Fibres, which which coalefce. The Germen is oval and crowned i, fup~ porting a longflender Style k, crowned by oblong Stigma's c. The Germen afterwards turns to a Jingle Seede> crowned with Down fitting in the Empalement.

HIS Genus of Plants is ranged in Mr. Ray's Ninth (Slafs, which includes the Herbs with a compound Flower colle&ed into Heads, whofe Florets are long, and cut into Segments.

Dodtor Linnaeus places it in the First Sedlion of his Nineteenth Clafs, which contains those Plants whofe Flowers are composed of hermaphrodite or fruitful Florets, and their Stamina and Style are conne&ed.

Tournefort places the Species of this Genus under his Genus of Jacea or Knapweed, which is ranged in the Firft Se&ion of his Twelfth Clafs, which includes the Herbs with Flowers compofed of feveral Florets.

The Specie here reprefented is,

tus birfutis, Lin. S. Plant. 818. Saw-wort with Spear-Jhaped oblong fawed Leaves, which fpread out, and

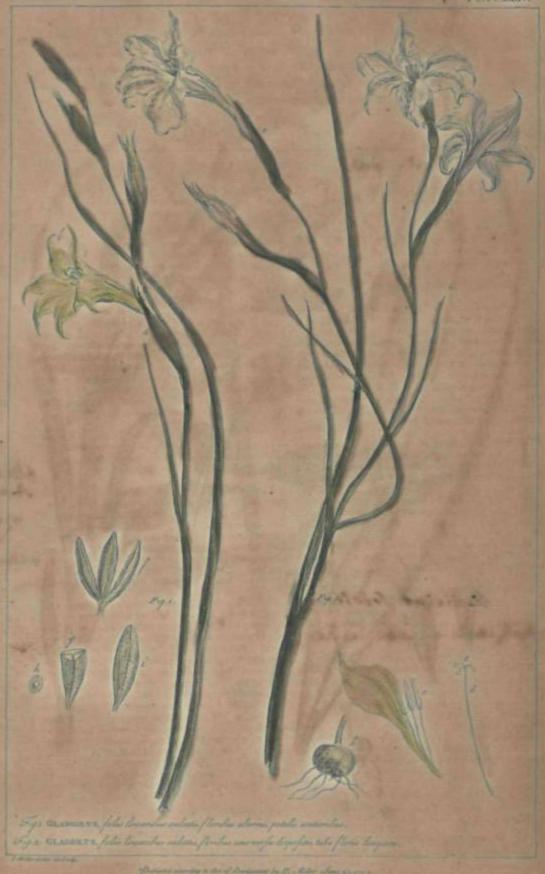
are hairy on their Under-fide. This is the Serratula praalta, angufio plantaginis autperfic < e folio, Bocc. Muf. 2. p. 45. Tab, 32, jailer Saw-wort with a narrow Plaintain or Peach-tree Leaf. Tournefort titles it, Jacea nemorenfis altiffima, Perfica folio', Inft. i?. H. 444. Talleft Wood Kapweed with a Peach-tree Leaf, p. 1. Doftor Dillenius calls it, Serratula Virginiana, perfica folio fubtus incano, Hort. Elth. 356. Virginia Sawwort with a Peach-tree Leaf, hoary on the Under-fide.

This Plant grows in Virginia, Carolina, Penjylvania, and most other Parts of North America. It hath a large ftrike deep into the Ground; the upper Part of the Root is formed into Heads, which become ligneous, and are clofely joined together, and by Age grow to a large Size, from which come out feveral ftrong herbaceous Stalks of a purplifh Colour, which in good Ground rife to the Height of Seven or Eight Feet.- . Thefe are garnifhed with Spear-ihaped oblong Leaves, about Three Inches long, and One broad in the Middle, drawing to a Point at each End. They are of a deep Green on their upper Side, and a little hoary on their under, fawed a little on their Edges, and fit clofe to the Stalk -, (landing on every Side without Order, and fpread open horizontally. The Stalks are terminated by loofe Bunches of Flowers (landing erect, almost in Form of an Umbel, each (landing upon a (lender Footftalk Two or Three Inches long. They are composed of feveral hermaphrodite Florets of a purple Colour, fitting in One common fcaly Empalement. Thefe appear in August •, and, if the Autumn proves warm and dry, they are fucceeded by Seeds which fometimes ripen in England. The Stalks decay in Winter, SzRKATVLAfoliisIanceolatO'OblongisferratitpatentibuSjfuband new arife in the Spring; but the Roots will continue feverai Years, and, as they increafe in Size fend up a greater Number of Stalks.



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Pr. CCXXXV.



In this Number\ we have taken the Liberty to exhibit the Figures of fome Plants which have been lately introduced into the English Gardens from the Cape of Good Hope. As these Plants are new, and have not been figured in any of the Botanic Booh, so we hope, their Representation here will be agreeable to our Sub/bribers; and although they break into the Order we proposed at our frst fetting out, yet we are in hopes we jhall be excused in this Digression.

P L A T E CCXXXV.

GLADIOLUS, Tourn. Inft. R. H. 365, Tab. 190. Rait Meth. Plant. 117. Lin. Gen. Plant, \$\$« Cornflag; in French, Glaieul.

The Charadlers of this Genus are,

The Flower is inclofed in a vague Sheath a; // hath One Petal, which is cut into Six Parts at the Top b; the Three upper Segments are near together c; the Tube is incurved*, and the Three under fpread open. It has Three Stamina, represented at c, terminated by oblong Summits. The Germen isfituated under the Flower, fupporting a long tender Style d, crowned by a trifid Stigma e. The Germen afterwards becomes an oblong Capfule, which is bellied in the Middle, feprefented at i; which is Three-cornered, opening with Three Valves, as at f, having Three Cells, reprefented at g, which are filled with roundijh-bordered Seeds h.

HIS Genus of Plants is ranged in the Second Seftion of *Tournefort's* Ninth Clafs, which includes the Herbs with a Lilly Flower of One Petal, cut into Six Parts, whose Empalement becomes the Fruit.

Mr. Ray places it in the Second Section of his Twentythird Clafs, which contains the Grafs-leaved flowering Plants of One Petal, cut into Six Parts, which fit on the Top of the Fruit.

Doftor *Linnaeus* ranges it in the Firft Seftion of his Third Clafs, which includes those Plants whose Flowers have Three Stamina and One Style.

The Species here reprefented ore-

Fig. 1. GLADIOLUS, foliis linearibus fulcatis, floribus al-Jernis details acut^oribus, y Cornflag with linear furrowed - • • «C«MJL f WWtrsvplactd aJternat^;\nd acute Ss*gojents to the Petals of the Flower.

This Plant hath a bulbous Root, reprefented at k, from which come out Two or Three narrow Leaves, a Foot and half long, having a longitudinal Furrow in the Middle, and ending in acute Points. They are of a deep Green, and (land eredt. Between thefe arife a (lender taper Stalk, about the fame Length as the Leaves, having One or Two fhort acute-pointed Leaves on the lower Part, whofe Bafe embraces the Stalk. The upper Part is garnifhed with Flowers, which are placed alter-

nate, at a Diftance from each other* coming out of a Spatha, or Sheath, which also embraces the Stalks with their Bafe. Thefe Spathae are permanent, drying upon the Stalk, and inclofing the Capfule after the Flower is paft. The Tube of the Flower is curved downward, and not fo long as moll of the other Species. The upper Part is cut into Six acute Segments, which are nearly equal in their Size. The Flower is of a pale yellow or fulphur Colour; the Stamina are long, ere<5t, and are terminated by long pyramidal Summits of a dirty White; the Style is flender, and terminated by a trifid refiexed Stamina- The Germen, after the Flower fades, fwells to an oblong bellied Capfule with Three Corners, having Three Cells, which open with Three Valves, filled with roundish bordered Seeds. It flowers the End of Maf₉ and the Seeds ripen about Six Weeks after.

Fig. 2. GLADIOLUS foliis linearibus fulcatis, floribus uno verfu difpofitis, tubo floris longiore. Cornflag with linear furrowed Leaves, and Flowers iranged oh one Side the Stalk, which have longer Tubes.

This hath a bulbous Root like the former; the Leaves have also a great Refemblance to those of the other Sort \ the Stalk is flender, and has more Leaves upon it than the former, and is embraced by their Bafe. Flowers are ranged on one Side the Stalk towards the Top, {landing pretty far afunder. The Spathse, or Sheaths, which inclose the Flowers, are long, of One * Leaf opening on one Side, and are permanent. Flower is curved; the Petal is cut almost to the Bottom into Six Parts or Segments, which are almost of equal Size, and end in blunt Points; the lower Segments turn downward, the upper are ereft and fpread open. Flower is of a Sale bluifh Colour, approaching to White; each Segment is marked with a broad purple Line in th£ Middle, which is divided. The Three Stamina are fituated near the lower Segment of the Petal; thefe are terminated by purplifh oblong Stamina, which are eredh The Style is of the fame Length with the Stamina, and is crowned by a trifid reflexed Style. The Flowers of this Sort have an agreeable Odour. They appear the latter End of May, and the Seeds ripen in July. Both thefe Plants were raifed in the Chelfea Garden, from Seeds which came from the Cape of Good Hope, and have this Year produced their Flowers.

PLATE

Fig. I. GLADIOLUS foliis linearibus phnis, fpatha glabra acutiore. Cornflag with plain linear Leaves, and a fmooth acute-pointed Sheath to the Flower.

THIS hath a flatted bulbous Root, covered with a netted Skin, reprefented at k. The young Bulbs, or Offsets, are formed at the Extremity of the Fibres, which is contrary to all the other Species of this Genus. The Leaves are Fifteen Inches long, but are very narrow and plain, ending in acute Points. They are of a light Green, and (land eredt The Stalk rifes between the Leaves, and is nearly of the fame Length. This is crooked at each Joint, where there is fituated a fhort plain acute Leaf, embracing the Stalk with its Bafe. The Flowers come out of fmooth acute pointed Sheaths, marked a_v which are permanent, and cover the upper Side of the Tube of the Flower; and, when that decays, become a Cover to the Capfule. The lower Part of the Tube is narrow, the Chaps are fwollen, and the upper Part is cut into Six Segments; the Three outer Segments are long, and broader than the other, as is reprefented at b. Thefe form the Standard, and are reflexed backward, fpreading from each other. The Two Side Segments r, are narrow and fpread open; they have a yellow Mark at their Bafe, tipped with a bright Purple. The middle or lower Segment is broader than the Two Side, and in the Bofom of this is fituated the Stamina and Style. The Three Stamina, fhewn at d, are crooked in the fame Form as the Tube of the Flower; they are ihort, of a pale Flelh Colour, and are terminated by oblong Summits, reprefented at e, which are fattened in the Middle to the Apex of the Stamina. The Style is longer, and is crowned by a trifid reflexed Stigma, fhewn

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at/. The Flower is of a pale Flefh Colour, and appears in May; when that decays, the Germen fvvclls $t \not s j$ an oblong Three-cornered bellied Capfule, reprefented at b, having Three Cells, as is (hewn at $g \gt$ filled with roundifh bordered Seeds \dot{z} , which ripen the End of June. This Plant is alfo a Native of the Cape of Good l'.... and was raifed from Seeds in the Chelfea Garden.

Fig. 2. Ixi A foliis linearibus glabris, caule foliofo bulbifero. Ixia with fmooth linear Leaves, and a leafy Stalk bearing lub A

The Charadters of this Genus, and the Clafs in which it is ranged, having been exhibited in a former Number, we fhall not repeat it here.

The Root of this Plant is bulbous, and has a netted Coat; the Stalk rifes a Foot and half high, and is garnifhed with plain fmooth Leaves at each Joint, whofe Bafe embraces the Stalk, They are of a lucid Green, and differ greatly in their Size. The Flowers are produced toward the Top of the Stalk, each having a fliort withered Spatha, OF Sheath, which divides on both Sides, and is permanent. The Flower has Six Spear-iliaped Petals, of equal Size, which fpread open, and end in acute Points \ they are white within, having a pale purplifli Stripe down the Middle ^ but they have broad deep purple Stripes on their Outfide. Their Bafe is marked with a yellow Spot. There are Three Stamina in the Middle, which are terminated by oblong yellowifh Summits, and a trifid Style, which is reflexed. The Stalks have Bulbs formed at each Joint at the Bafe of the Leaves, which, when planted, becomes a new Plant. It flowers in May^ and the Stalks decay in June.

PLATE

Fig. i. Ixi A foliis gladiolatis nervofts^ fpatha lacera. Ixia with fword-fhaped veined Leaves, and a torn Sheath to the Flower.

HIS hath a bulbous Root, with a fibrous Cover, from which rifes a Stalk about Five or Six Inches i high, garnifhed with fword-fhaped Leaves, about Four Inches long and half an Inch broad, having feveral longitudinal Veins. They are of a pale Green, broad at the Top, and end in acute Points. Thefe embrace the Stalks with their Bafe. The Stalk is bent at each Joint, and is terminated by Two or Three Flowers Handing at a little Diftance from each other. Thefef have a permanent Empalement, which feems torn into feveral narrow Segments, as is reprefented at #, which wither, and lie over the Seed Vefiel after the Flowers fade. The Flower is compofed of Six obtufe Petals, equal in Size, as is fhewn at b. They are of a beautiful Purple on their Outfide, but are white within. They have Three Ihort Stamina, reprefented at r, terminated by oblong Summits fattened in the Middle to the Apex of the Stamina, and a long Style, marked d, crowned by a trifid reflexed Stigma e. After the Flower is paft, the Germen turns to an oval Capfule /, having Three Furrows, and divided by Partitions into Three Cells, as is flewn at£, which open with Three Valves h_0 and are filled with roundifh Seeds, i and k. This flowers the Beginning of May, and the Seeds ripen in June.

Fig, 2. IXIA foliis gladiolatis glabris, fpatha breviore quinquefido. Ixia with fmooth fword-(haped Leaves, and a lhort five-pointed Sheath to the Flower.

The Root of this Plant is bulbous and fmooth; the Stalk rifes Four Inches high, and is garnifhed with

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fmooth fword-fhaped Leaves near Four Inches long, whofe Bafe embraces the Stalks. They are broad at the Top, but have an acute Point at the End. The Scalk is terminated by Two large Flowers, compofed of Sis Petals, equal in Size, which fpread open, and are obtufe. The Outfide of the Petals is of a Violet Colour, edged with White; the Infide is of a pale Blue. They have Three Stamina and One Style, like thofe of the other Sorts. It flowers in *May*.

with fmooth fword-fhaptu and a Stalk with One Flower.

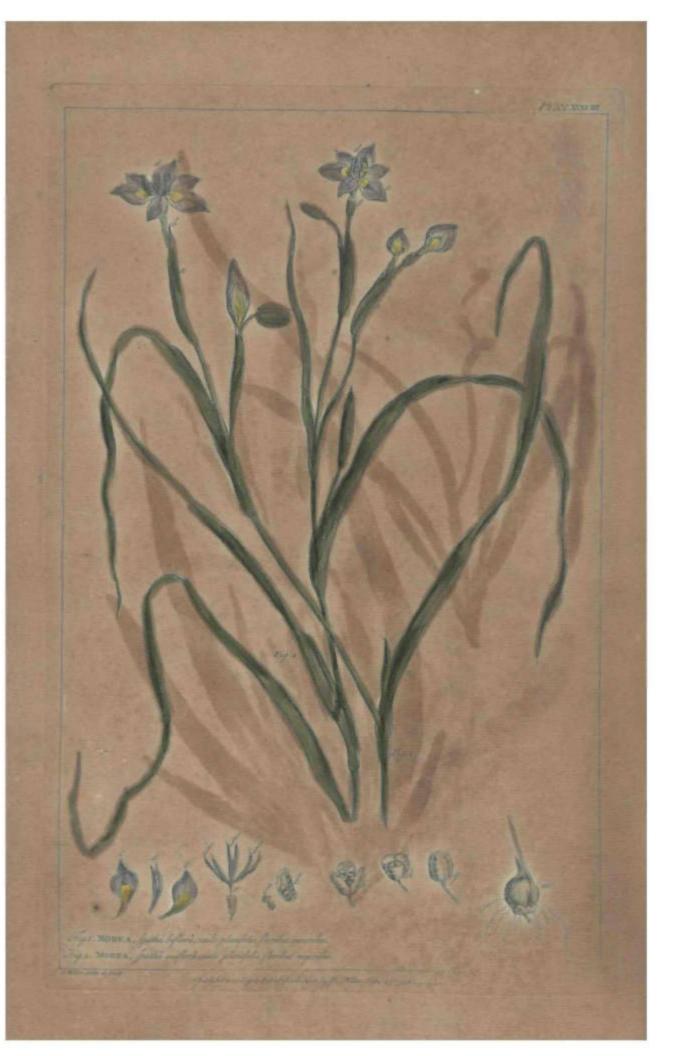
This hath a flatted bulbous Root, covered with a rough Coat, from which come out Five or Six fwordfhaped fmooth Flowers: Some of thefe are Five cr Six Inches long, but others are not more than Three; they are narrower at their Bafe, but broader toward their Ends, which are acute pointed. The Footftalk of the Flower is naked about Four Inches along, arifing immediately from the Root, and is terminated by One Flower* whofe Sheath i& torn, withered, and fituated at a fmalii Diftance below the Flower, encompafTing the Germen. The Petals of the Flower are fpear-fhaped, ending in Points. They are of a mod beautiful purple Colour both! within and without. The Stamina are fhort \ but the Summits, which are fattened to their Apices, are long, and of a dirty white Colour. The Style is much longer, and is crowned by a trifid Stigma, which is reflexed. It flowers towards the End of May.

Thefe Plants were raifed from Seeds in the *Chelfea* Garden, which were brought from the *Cape of Good Hope*.





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P L A T E CCXXXVIII.

Mo RE A.

The Characters of this Genus are,

If hath an oblong acute pointed Spatha, or Sheath, which is permanent and composed of Two Leaves a. The Flower has Six spear-Jhaped Petals, which spread open, plain, and are connected at the Base. These are alternately larger than the other c, It has Three erest bifid Petals, which encompass the Stamina and Style d; and Three very short Stamina terminated by oblong Summits, which are erett. The Germen is fixated under the Flower b, and supports a short Style e, crowned by Three bifid Stigmas f, f, f. The Germen afterwards becomes an oval Capsule g, having Three longitudinal Furrows, and divided into Three Cells h, which open with Three Valves i and k, and are filled with roundish Seeds 1.

Have taken the Liberty of conftituting this Genus of Plants, and applying of this Title to it, in Honour of *Robert More*, Efquire, of *Shropfhire*, who is a very teamed Gentleman, and well acquainted with moft Branches of Natural Hiftory, particularly with Botany.

This Genus, according to Linn*eus's Syftem, muft be ranged in the Firft Section of his Third Clafs, which includes thofe Plants whofe Flowers have Three Stamina and One Style: And, by Tourneforfs Method of claffing the Plants, it muft be placed in the Second Se&ion of his Ninth Clafs, which includes the Herbs with a Lilly Flower of One Petal, cut into Six Parts, whofe Empalement becomes the Fruit.

The Species here reprefented are,

Fig. i. MORE A fpatha bifiord, caule planifolio, floribus minoribus. Morea with Two Flowers in each Sheath, plain Leaves on the Stalk, and fmaller Flowers.

This Plant hath a bulbous Root* fliaped like that of the *Crocus*, reprefented at *m*, which is renewed annually; the young Root being formed on the Top of the old one; which decays when the Stalk and Leaves die away. The Stalk rifes about a Foot high; it is taper, is of a Purple Colour at the Bottom, and is garniflied with narrow plain Leaves, which embrace the Stalk with their Bafe.

They are more than a Foot long, and Half an Inch broad at their bafe, ending in acute Points, reprefented at n, of a deep green Colour, and flaccid. The Flowers are produced at the Top of the Stalks** coming out of a Two-leaved Sheath, fliewn at a, which is fmooth and acute-pointed. Two Flowers are contained in eich. The Footftalk of the Flower rifes above the Sheath, fuftaining an oblong Germen b; upon which fits the Flowery which is composed of Six Petals, marked c, or of One Petal cut into Six Parts to the Bottom, where they feem corine&ed. Thefe are fpear-fhaped, every other being larger than the intermediate ones. They are of a faded blue Colour, and the Tail of each has a fpatule-fhaped yellow Spot, with feveral dark Points. Thefe Petals fpread open flat, and in the Middle of the Flower there are Three fmall Petals or Flower Leaves, (landing ered:^ which are cut at the Top into Tw6 acute Segments, as is flewn at d. They encompare the oblong Germen e_f upon which is a fhort Style, crowned by Three bifid Stigmas, reprefented /, /, /. Thefe fpread out from each other, and are almost of the farte Colour with the Petals. After the Flower is paft, the Germen becomes an oval Capfule £, having Three deep longitudinal Furrows, and divided into Three Cells^{$^{\wedge}$} as is fliewn at h, which open with Three Valves i, and are filled with roundifh Seeds k and /. The Flowers appear the Beginning of May, and the Seeds ripen in June.

Fig. 2. Morea fpatha unifiora, caule planifolio, fioribiis majoribus. Morea with One Flower in each Sheath* a Stalk with a plain Leaf, and larger Flowers.

The Root of this is like that of the former; as are alfo the Stalks and Leaves; but the Stalk is green t6 the Bottom; The Flowers come out fingle from each Sheath, and are larger than those of the other Sort. They are of a worn-out Purple Colour, and each Petal has a large yellow Spot near the Tail. In these Particulars their Difference chiefly confifts. It flowers about the fame time with the former.

Both thefe Plants grow naturally at the *Cape of Good Hope*, from whence their Sepds were brought, which fucceeded in the *Chelfea* Garden* where the Plants have lately flowered.

P L A T E

CCXXXIX

Fig. i. MOREA fpatha unifiorā, foliis gladiolatis, radice fibrofa. Morea with one Flower in each Sheath, fword-ihaped Leaves, and a fibrous Root.

HIS Plant alfo grows naturally at the *Cape of Good Hope*. The Seeds of it were brought from thence by the Title of *White Water Lilly*. Thefe fucceeded in the *Chelfea* Garden, where the Plant has flowered.

The Root of this is compofed of many thick Fibres, which run downward; from which arife fword-fhaped Leaves, which embrace each other at their Bafe, but fpvead out above. They are difpofed, like those of the common Flag Iris, into flat Heads or Offsets, and are of a deep Green, about Six or Seven Inches long, and Half an Inch broad at Bottom, terminating in acute Points, as is ihewn at h. The Stalk rifes about a Foot high, and is garnilhed at each Joint with One Imall acute-pointed

Leaf, which embraces the Stalk with its Bafe, and grows erect, as is reprefented at /. The Stalk is terminated by a fingie Flower, coming out of a fmooth fharppointed Sheath a. It is composed of Six oval fpearfhaped Petals or Segments, which are equal in Size, and fpread open flat. They are of a dirty White, with a Shade of Sky-blue, and have a fulphur-coloured Spot near their Tail, reprefented at b, c, and d. • In the Centre of thefe arife Three forked Petals, which ftand eredt, as e,f,g, of a bluifh Purple Colour. Thefe encompafs the Stamina and Style, which are fattened to their Tails, as is flewn at e; Two of which are reprefented fpread out at/, to flew them diffindtly. There are Three of thefe Stamina, which are Ihort, flender, and are terminated by oblong Summits. The Germen, which is fuuated below the Flower, fupports a very fhort Style, which is crowned by a trifid ere& Stigma. After the Flower fades,

fades, the Germen becomes an oblong Three-cornered Capfule, having Three Cells, which are filled with roundifh Seeds, It flowers in *June*, and the Seeds ripen reprefented at *a*. The Tube of the Flower is fhort and

Fig. 2. IXIA plamfolia, caule multifioro, fpatha breviffima. Ixia with a plain Leaf, å Stalk with many Flowers, and the fhorteft Sheath to the Flower.

This Plant was raifed in the *Chelfea* Garden from Seeds which were brought from the *Cape of Good Hope. It* hath a finall comprefied bulbous Root, having a fmooth dark-coloured Coat, from which arife feveral plain fmooth Leaves of different Length's; fome are Four or Five Inches long, others Seven or Eight; their broadeft Part is near Half an Inch, but they are narrow at both Ends, and terminate in Points. The Stalk rifes between the Leaves to about Five Inches high. It is crooked at the Joint, where there is a fmall Leaf, whofe Bafe embraces it. The Flowers are produced at the Top

Spatha or Sheath, which divides into Two Parts, as is The Tube of the Flower is fhort and reprefented at a. fwelling; the Petals are broad and obtufe, as is (hewn at b; thefe fpread open, and are equal in Size and Pofition. They are of a bright Orange or Gold Colour, and are connected at their Bafe. When the Sun (nines on the Flowers, they refled ftrengly the Rays; fo that the Sight is thereby dazled. In the Centre of the Flowc; is fituated the Stamina and Style, as is reprefented at c. There are Three (lender Stamina in each, as is fhewn at /, which are terminated by oblong cylindrical Summits g> which ftand ereft, and their Bate fits upon the Top of the Stamina. The Style is longer than thefe, and is crowned with a trifid Stigma, which fpreads open Three Ways. The Germen, which is fituated under the Floveris afterwards changed to an oval Capfule with T,hree Cells, filled with roundifh Seeds. It-£e^T.ve^T·Wⁿ *June*. and the Seeds ripen in July.

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BITLBOCODIUM* Tourn. Cor. Inft. 50. Crocus Lin. Gen. 53.

The Charadlers of this Genus are,

The Flower has a finall one-leaved Empalement, which foon falls off. "The Flower is of One Petal, cut into Six Segments almofi to the Bottom; thefe are acute-pointed b, equal in Size, and fpread open like a Star. It has Three fhort Stamina c and d, which are terminated by oblong ereft Sumits, and a roundiff Germen a, Jituated under the Flower* fupporting aflender Style, which is longer than the Stamina, crowned by Three bifid reflexed Stigmas e. The Germen afterwards becomes an oval Capfule with Three Cells, filled with roundiff Seeds.

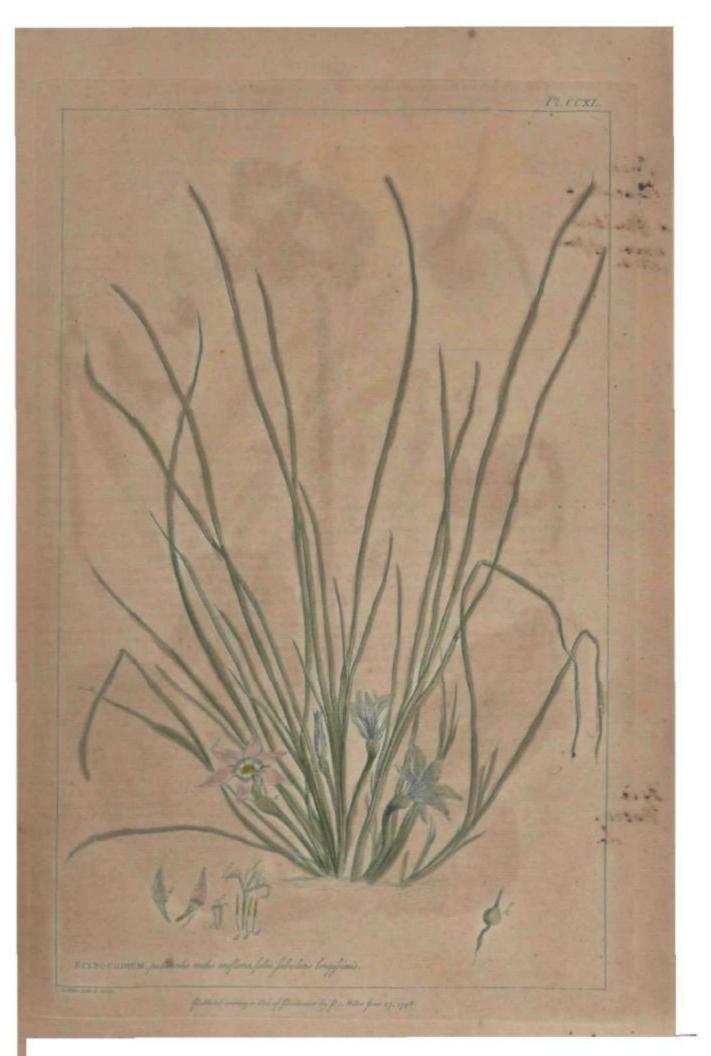
HIS Genus of Plants belongs to the Second Section of *Tourneforfs* Ninth Clafs, which includes the Herbs with a Lilly Flower of One Petal, cut into Six Parts, whose Empalement becomes the Fruit.

Doftor hinnaus has joined this Genus to the Crocus, which is placed in the Firft Sedtion of his Third Clafs, which contains those Plants whose Flowers have Three Stamina and One Style: But the Flowers of this Genus fitting upon the Germen, and the Petal being divided to the Bottom, having no Tube, are fufficient Charafters -to feparate this Genus from the Crocus.

The Specie here reprefented is,

BULBOCODIUM pedunculis nudis unifloris, foliis fubulatis linearibus longiffimis. Bulbocodium with naked Footftalks, having One Flower, and linear awl-fhaped Leaves, which are very long.

The Seeds of this Plant were brought from the Cape of Good Hope, where it grows naturally. Thefe have fucceeded in the Chelfea Garden, and the Plant has there produced Flowers. The Root is bulbous, of an oval Figure, and covered with a fmooth Skin, as is reprefented at h. The Leaves are very long and narrow; they are Three-cornered, but their upper Surface is flat, and the under has an acute Angle running longitudinally through the Middle. They ftand ered, and between them come out the Footftalks of the Flowers, which are about Two or Three Inches long. They are taper, ereft, and naked, terminated by One Flower fitting upon the Germen a, which is oval and fmooth. The Flowers are of One Petal, according to Mr. Ray and *Tourncfort*, because they are joined together at the Bottom; but they are cut into Six Segments almost to the Bottom, which end in fharp Points, as is fhewn at b. Thefe fpread open in the Day, but (hut up every Afternoon, when the Sun leaves them. They are of a light Purple Colour, with a blue Circle within on the Top of their Tails, which are of a pale Yellow within, reprefented at£. In the Centre of the Flower are fituated the Style and Stamina. There are Three of thefe Stamina, which are reprefented at d, d, d. They are Ihort, and are terminated by oblong eredt Summits of a yellow Colour. Thefe are magnified, but at c is One of the natural Size. The Style, which is longer than the Stamina, is crowned by Three bifid Stigmas, which are reflexed \ One of which is reprefented, of the natural Size, at*-, and at/,/, they are magnified. After the Flowers fade, the Germen becomes an oval Capfule, with Three Cells filled with roundifh Seeds. Flowers appear in May, and, before they decay, they turn of a faded blue Colour.



PR.CCXLL



Samueras, file gille Hore. Oliff. 227.



Plant. 578. Sidefaddle-flower.

The Characters of this Genus are.

The Flower has a double Empalement: The under one a, is composed of Three fmall Leaves', which fall off\ the upper b, is composed of Five large coloured Leaves, which are almofl oval, and drop off. It has Five oval inflexed Petals c, which cover the Stamina, whofe Tails are oblong-oval, and a great Number of fmall Stamina e, terminated by Jingle Summits, with a roundifh Germen f, fupporting a fhort cylindrical Style, crowned by a target-floaped five-cornered Leaves have always Water (landing in them; and this Stigma d and g, which covers the Stamina, and is permanent: The Germen afterwards turns to a roundiflo Capfule, divided into Five Lobes h, having Five Cells, filled with fmall roundifh Seeds i, which end in acute Points.

HIS Genus of Plants is ranged in the Firft Sedion of Linnteus's Thirteenth Clafs, which includes thole Plants, whose Flowers have many Stamina, and One Style. The Title of this Genus was given to it by Dr. Tournefort, in Honour of Dr. Sarrazin, a curious Botanift, who fent this, and many other curious Plants, from Canada to the Royal Garden at Paris.

The Species here reprefented is,

SARRACENA foliis gibbis Hort. Cliff. 472. Sarracena with gibbous Leaves. This is the Sarracena Canadenfis, foliis cavis et auritis, Tourn. Inft. R. H. 657, Canada Sarracena with hollow and eared Leaves. Cafpar Bauhin titles it Limonium peregrinum^ foliis formå fior is Ariftolochia pin. 192. i.e. Foreign Sea-Lavender with Leaves fhaped like the Flowers of Birthwort. And Clufats, in his Hiftory of Plants, calls it Limonio congener \ i. e. A Plant near of Kin to Sea-Layender Morrison titles it Coilophyllum Virginianum breviore folio', fiore purpurafcente. Rift. 3. p. 533. Virginia Hollow-Leaf with a fhorter Leaf and purplifh Flower. Mr. Catefby, in his Hiftory of Ca-2. p. 70. Sarracena with fhorter and broader Leaves.

This Plant grows naturally on moift Bogs in mofl Parts of North America. The Structure of every Part of this Plant is very fingular. The Root is compofed of ftrong Fibres, which ftrike deep into the foft fpongy

SARRACENA, Tourn. Inft. R. H. 6\$j. Tab. 476. Lin. Gen, Earth where they naturally grovr \$ from which come out Five, Six, or Seven Leaves, in proportion to tha*« Strength of the Plants. Thefe are about Five Inches long, and are hollowed like a Pitcher, as is reprefented at / and n: They are narrowed at their Bafe, but are fwelled out and bellied above, rounded on their outer Side, but are a little compreffed on their inner Side, having a broad leafy Border running longitudinally the whole Length of the tubulous Part. At the Top, or Neck, of the gibbous Part of the Leaf is fixed an Appendage or Ear, reprefented at m, which is bluntly indented, and ftands ereft. The hollow Parts of thefe Top or Ear is fuppofed in hot dry Weather to fhrink, and fall over the Mouth of the Tube, and ferve as a Lid, to prevent the Exhalation of the Water: So that, in the greateft Droughts, Birds and other Animals repair to thefe Plants, where they always find Water to refrefli them. The Leaves, in Spring, are of a darkgreen Colour, but gradually change to a purplifh Colour; and toward Autumn are of a dark brown. From the Center of the Leaves comes out a naked Footftalk* which rifes a Foot high, fuftaining at the Top One large Flower, which nods on one Side, by the Footftalk being recurved. The Outfide of the Flower is of a dark purple Colour, and the Infide green. The Petals turn inward, and cover a great Number of fmall Stamina, which furround the Style, and are terminated with Summits of a pale Sulphur-colour. The Style fupports a broad buckler-(haped Stigma, which fpreads over, and clofely covers the Stamina; whereby they an: fecured from the Injuries of the Weather: For the inflexed Petals meet, and cover the Borders of the Stigma fo clofely, as that the Stamina do not appear, unlefs the Flower is nearly viewed on the Side, where there are Perforations to admit the Air; which is abfolutely neceffary for the ripening of the Farina fcscundans, and alfo to affift the Conveyance of it, when fitted to the proper Matrix.

The Englifoi who first fettled in North America, gave to this Plant the Title of Sidefaddle-flower, from the Rerolina, calls it Sarracena foliis brevioribus laiioribus, Vol. femblance of the Stigma to a Woman's Pillion; and fome of the first Writers, who described the Country, have given imperfect Accounts of this Plant* have taken particular Notice of the Leaves always having Water in them; and one of them mentions his being often refreshed with this Water in great Droughts, when he was at a Diftance from any other Supply.

CYPRIPEDIUM, Lin. Gen. Plant. 906. Calceolus, Tourn. Inft. R. H. 436. Tab. 249. Calceolus Marine, Rail Meth. Plant. 121. Ladies Slipper. In French, Sabot.

The Characters of this Genus are.

It has a fmgle Stalk, with a Sheath a, at a Diftance from the Flower. The Germen fuftains the Flower, which has no Empalement. It has Four Petals reprefented at b, which are long, narrow, and fpread open. Within the Petals is fituated a large, fwoln, flipper-Jhaped Neftarium c, which is obtufe and "hollow, with a fmall oval plain inflexed Lip. The Flower has Two port Stamina fitting upon the Pointal, terminated by ereft Summits hid under the upper Two Stamina. Tournefort places it in the Third Sec-NUMB. XLI.

Lip of the Neftarium. It has a long flender contorted Germen, fhewn at d and e, fupporting Two fhort Styles faftened to the upper Lip of the Neftarinm, crowned by an obfolete Stigma. The Germen afterzvard becomes an oblong-41)al Capfule f, having Three obtufe Corners, as is fhewn at g, with Three Seams, opening under each Angle, with Three Valves in One Cell h, i, including a great Number of fmall Seeds k, which adhere to the longitudinal Pericarpium.

HIS Genus of Plants is ranged in the Second Seftion of Linn^eush Twenty-firft Clafs, which includes those Plants whose Flowers have their Stamina and Style connected together* and the Flowers have

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with an anomalous Flower of many Petals, whofe En> palement becomes the Fruit*

The Specie here reprefented is,

CYPRIPEDIUM radicibus fibrofis, foliis ovato-lanceolatis caulinis, Atl. Upjal. 1740. Ladies Slipper with fibrous Roots, and oval fpear-fhaped Leaves on the Stalk. This is the Calceolus Marianus Dod. Pempt. 180. Our Lady's Slipper. Cajpar Bauhin' titles it Helleborine jlore rctundo, feu Calceolus, Pin 187. Baftard Hellebore with a round Flower or Slipper. Gerard calls it Calceolus Maria, p. 359. Ladies Slipper. And Parkinfon, in his Theatre of Plants, p. 217. Elleborme major; feu Calceolus Maria, Greater Baftard Hellebore, or Ladies Slipper.

S the Structure of this Plant is of a fingular Form, fo we have chofen to place it near the former, altho' it is not in the Order we propofed to observe: But as both thefe Plants produced their curious Flowers in the Chelfea Garden in great Perfection \ fo we were defired, by feveral of our Purchaiers, to give their Figures; which were drawn as near to Nature as poffible.

The Plant here reprefented grows naturally in fome Parts of England -, particularly in Helkfwood, by Ingleborough[^] in Torkjhire •, and in the Park of the late Robert

tion of his Eleventh Clafs, which contains the Herbs Fenwick, Efq; at Borough-hall, near i^irDy-Lonfdaie, H-Lancajhire. The Root of this Plant is composed of flefhy black Fibres, which fpread obliquely near the Surface of the Ground, fending out fmall Fibres every The flefhy Part of the Root retains the Mark of the Stalk cf the former Year; for there is annually a new Root formed on the Side of the old one, on the oppofite Side of the Stalk, as in other Bulbs. The Stalk rifes a Foot high, is a little hairy, and garnifhed with oval fpear-fhaped Leaves, whofe Bale embraces the Stalks: They are from 1 hree to near Four Inches long, and near Two Inches broad at their Bafe, having feveral longitudinal Veins, like those of Baftard'Hellebore: They are of a deep Green, and end in acute Points. There are Four or Five of thefe Leaves placed alternately along the Stalk, which is terminated by a fingle Flower, whose Bud is covered with a Sheath \ but before the Flower opens, the Footftalk advances above the Sheath. The Flower is naked, having no Empalement: It has Four narrow acute pointed Petals, of a dark purple Colour, which fpread open; within which is fituated a large hollow Nedtarium, fhaped fomewhat like an old-fashioned Slipper, of a yellow Colour, having a fmall Lip or Cover at the Tail -> under which are fituated the Stamina and Style. This Plant flowers in May, and the Seeds ripen the Beginning of Augufi. The Stalk decays to the Root in Autumn, and a new one rifes the following Spring,

SAXIFRAGA, Tourn. Jnft. R. H. 252. Tab. 129. Rail Meth. Plant. 111. Lin. Gen. Plant. 494, Saxifrage,

The Charadlers of this Genus are,

The Flower has afhort acute-pointed permanent Empalemeni, of One Leaf cut into Five Parts: It has Five plain Petals, which are longer than the Empalement; and Ten awl-fhaped Stamina, terminated by roundifh Summits. It has a roundifh acute-pointed Germen, fitting upon Two Stylesclose to the Root: They are about Two Inches long, crowned by chtufe Stigmas. The Germen afterward becomes and half an Inch broad, of a whitifh-green Colour, an Gval Capfule, with Two Herns opening between their Tops, filled with fmall Seeds.

THIS Genus of Plants is ranged in the Third Seftion of Tournefort\ Sixth Clafs, which includes the Herbs with a Rofe Flower, whose Pcintal becomes the Fruit, for the mcfi part, with Two Capfules. Mr. Ray puts it in the Second Section of his Twenty-fecond Clais, which contains the Herbs with a Flower of Five Petals, difpofed either alternate, or without Order, along the Stalks, and the Seeds are in Capfules. Dr. Unnaus ranges it in the Second Seftion of his Tenth Clafs, which includes those Plants whose Flowers have Ten Stamina and Two Styles.

The Specie here reprefented is,

SAXIFRAGA foliis radicatis aggregatis lingulatis cartilagine filled with fmall Seeds /. ferratis? /caule pyramidaio. Saxifrage with tonguefhaped Leaves gathered together at the Root, which have cartilaginous Saws on their Edges, and a pyramidal Stalk. This is the Saxifraga montana, pyrawl-ita* folio longiore, Tourn. InJL 253. Mountain py-

ramidal Saxifrage with a longer Leaf. Boerhaave places it in his Genus of Sedum j and titles it, Sedutn pyramidale elegantiffimum, H. L. 1. p. 287. The molt elegant pyramidal Houfeleek.

This Plant grows naturally upon the Mountains in Italy. The lower Leaves are gathered into a circular or Rofe Form, lying over each other in Three or Four Series: They are flat, fhaped like a Tongue, and fit and have rough fawed Edges. 1 he Stalk rifes a Foot and a Half high, branching ou-: near the Bottom: The lower Branches are pretty long, and grow horizontally: Above thefe, the Branches are fhorter to the Top, forming a large pyramidal Spike of Flowers. Branches come out alternately from the Stalk, and divide into feveral fmaller: Thefe are garnifhed with white Flowers having an acute Empalemerit of One Leaf, cut at the Brim into Five Segments, as is fhewn They have Five obtufe Petals, reprefented at b >and Ten Stamina, which are about half the Length of the Petals, fhewn at ^^ which are terminated by roundilh red Summits d. In the Center of the Petals is fituated a roundifh acute-pointed Germen d, fitting upon Two Styles crowned by obtufe Stigmas /. The Germen, after the Flower is paft, turns to a Capfule with Two Horns g, opening at the Top,' as is finewn at h, and

This Plant flowers the latter End of May or the Begining of June -, and, during its Continuance in Flower, is a very ornamental Plant to place in Halls or Chim-



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P L A T E CCXLIV.

ROBINIA, Lin. Gen. Plant, jig. Pfeudoacacia, Tcurn. Jnji. R. H. 649. Acacia Americana, Rail Meth. Plant. 164. Falfe Acacia.

The Characters of this Genus are*

The Empalement of the Flower is of One Leaf cut into Five Segments at the Brim, as jhewn at a. The Flower is of the Butterfly Kind: The Standard b, is large * roundifh, and open, Jlanding erett: The Keel c, is roundifh, compreffed, obtufe, and is as long as the Wings d, d, which are oval, and have Appendages which are obtufe. It has Ten Stamina, represented at e> Nine of which are joined together, and the Tenth f, is Jeparated: Thefe are terminated by roundifh Summits g. The Germen is oblong and cylindrical, which fupporis a Jlender Style h, crowned by a fimple Stigma i. The Germen afterward turns to an oblong compreffed Pod k, which opens with Two Valves 1, inclofing One Row of compreffed kidney-fhaped Seeds m*

HIS Genus of Plants is ranged in the Third Section of Linn<eus\ Seventeenth Clafs, which includes thofe Plants whofe Flowers have Ten Stamina in Two Bodies. TGurnefort places it in the Third Section of his Twenty-fecond Clafs, which contains the for the moft part placed by Pairs along the Midrib. Mr. Ray places it among the Trees bearing Pods, of the Butterfly Kind, whofe Leaves are winged, and the Branches are armed with Spines.

The Specie here reprefented is,

ROBINIA foliis impari-pinnatis, foliolis ovatis, famis pedunculifque hifpidis, Ditt. Hort. Robinia with unequal winged Leaves, having oval Lobes, and the Branches and Footftalks armed with briftly Hairs. This is the Pfeudoacacia hifpida.floribus rofeis, Catefb.Carol 3.^.20 Prickly Baftard Acacia with rofe-coloured Flowers.

This Plant has been of late Years introduced into the Englifh Gardens from Carolina, where it naturally

grows, In its native Soil it rifes with a woody Stalk to the Height of Twenty Feet: But in *England* it appears not to grow fo large; for the Plants produce their Flowers very near the Ground; and, fo far as a Judgment can be yet formed by their manner of growings it has more the Appearance of a Shrub than a Tree; and as fuch will be more ornamental: For fhould this rife as high as the commbn white *Falfe Acacia*, the Flowers would be fo far diftant from the Sight, as that their great Beauty would not be fo confpicuous.

The Stalk of this Plant is woody and fmooth; but the young Branches are clofely armed with ftiff brown briftly Hairs, as are also the Footstalks of the Flowers* and their Empalements: Thefe Spines are very like thofe on the young Shoots of Rafpberries; which has given Occasion to the Inhabitants of Cornwall and Devon/hire^ where the Plants are in greater Plenty than about London, to give it the Title of Rafpberry Plant. The Leaves of this Sort refemble those of the common Falfe Acacia^ but the Lobes are larger, and nearer to an oval Form: They are fmooth, and of a light green Colour, and are composed of Six or Seven Pair of oval Lobes terminated by an odd one. The Flowers are produced in long Bunches from the Side of the Branches, like thofe of the common Sort -, but the Bunches are longer, and the Flowers much larger: They are of a bright Purple or Rofe Colour •, in which Particular they greatly excel those of the common Sort; but they have no Scent* fo that the common Sort is preferable to it on that Account. The Flowers ftand each upon a fhort Footftalk, and make a fine Appearance during their Continuance, This flowers early in June, and is fucceeded by fiat oblong Pods of Seeds, which, in the natural Places of its Growth* ripen in September. But in England they have not, as yet, produced any Pods.

and Footftalks armed with briftly Hairs. This is the *Pfeudoacacia hifpida,floribus rofeis, Catefb.Carol* 3.^.20. As this Plant is not very common at prefent in the *Pfeudoacacia hifpida,floribus rofeis, Catefb.Carol* 3.^.20. Gardens about London, and having produced its beautiful Flowers in the *Chelfea* Garden, we w^Tere tempted to infert it here*

P L A Ţ E CCXLV.

OTHONNA, Lin. Gen. Plant. 888. Doria Raii Meth. Plant. S3- Jacobaa Tourn. Infi. R. IL 485. Tab. 276. Foreign Ragwort.

t T T E have in a former Number exhibited Two W Species of this Genus •, where we have given the Characters of the Genera: But as the Two Plants, here exhibited, have been by fome Botanifts fuppofed to be the fame Specie, fo we have been prevailed on to give their Figures and Defcriptions from Nature, as we had an Opportunity of doing it from the Plants which flowered the laft Spring in the Chelfea Garden, when we had an Opportunity to examine their Characters more nicely than before.

The Species here reprefented are,

Fig. 1. OTHONNA foliis cuneiformibus integerrimis feffilibus, caule frnticofo procumbent e^pedunculis longijjimis, Eift. Hort. Othonna with intire wedge-(haped Leave? fitting clofe to the Stalks, a fhrubby trailing %all£ and very long Footftalks. This is the Calthoides Africana, glafti folio ^ Jujf. African Baftard Marigold with a Woad Leaf.

The Seeds of this Sort were brought to *England* by the late Dr. *Shaw*, who difcovered the Plants growing naturally in *Algiers*. This has a ftrong fibrous Root, which fhoots deep in the Ground, and fends out many fhrubby Stalks, which fpread on every Side, and trail upon the Ground: Thefe are garnifhed with wedge-fhaped Leaves of a grey Colour* and a pretty thick Confidence, which are intire) and fit clofe to the Stalks, ftanding without Order on the Branches. The Flowers ftand upon long fucculent Footftalks, which come out from the Wings, and at the Top of the Stalks: They have a fingle Empalement of One Leaf cut into Eight equal Segments at the Top, as is reprefented at *a*. The

Flowers

Flowers are yellow, and are compofed of many hermaphrodite Florets, which form the Difk: Thefe are tubulous, and indented in Five Parts at the Brim, as is fhewn at b: They have in each Four or Five Stamina, which are the Length of the Tube, represented at d, which fit upon the Germen c, and have a Style longer than the Stamina, to which it is connected, as is (hewn at e. The Female Half-Florets compofe the Border or Rays: Thefe are tongue-fliaped, and indented at the Point in Three Parts, as is fliewn at h: Thefe have an oblong Germen g, v/ith a flender Style crowned by a bifid reflexed Stigma. The Germen afterward turns to a fingle oblong Seed/, naked at Bottom, but crowned with a pappofe Down. This Sort flowers in May, when the Plants make a fine Appearance -, but the Seeds feldom ripen in England. The hermaphrodite Florets are rarely fucceeded by Seeds.

Fig. 2. OTHONNA foliis lanceolatis integerrimis, Hort. Cliff. 419. Othonna with fpear-ftiaped intire Leaves. This is xhtjacobtea Africana, frutefcens, craffis, etjucculentis foliis, Horl. Amfi. 2. p. 147. Shrubby African Ragwort with thick fucculent Leaves.

This Sort grows naturally at the Cape of Good Hop. It has round Stalks, which at firft are herbaceous and fucculent; but by Age become ligneous. They rife Three or Four Feet high, and divide into many Branches from the Bottom, which are garniihed with thick fucculent Leaves, which are fpear-fhaped, about Two Inches long, and One broad in the Middle, of a grey Colour, and their Edges intire: They are placed without Order, and fit clofe to the Branches. The Flowers are produced toward the End of the Branches, upon fucculent Footftalks about Four Inches long, each fuftaining One yellow Flower, ihaped like thofe of the former Sort, but fmaller.

This Plant begins to flew its Flowers in *Augufi*; and there is a Succeffion of Flowers on the fame Plant till the Middle of Winter, during which Time it makes a good Appearance in the Greenhoufe.

PLATE CCXLVI.

SCHINUS, Lin. Gen. Plant. 479. Molle Tourn. Inji. R. H. 661. Indian Maftick Tree.

The Chara&ers of this Genus are,

The Flower has a fmall Empalement indented in Five Parts, reprejented at a: // has Five Petals, which fpread open, as they are Jhewn magnified at b and c, and Ten Stamina, reprefented at d and e, terminated by thick Summits. In the Center is fiiuated a roundifh Germen f, fupporting a Jhort thick Style g, crowned by a bifid reflexed Stigma. "The Germen afterward turns to a roundifh Berry, with One Cell containing One Seed of the fame Form.

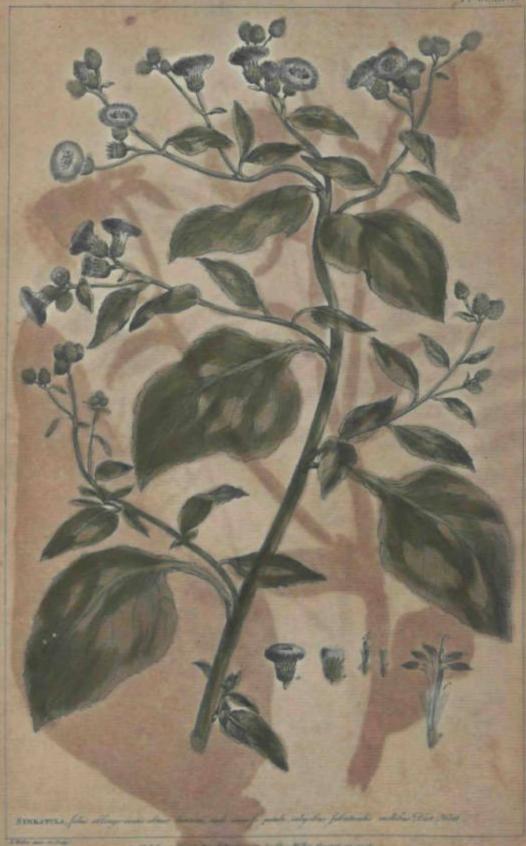
HIS Genus of Plants is ranged in the Firft Sec-J^ tion of Linnaus's Tenth Clafs, which includes thofe Plants whofe Flowers have Ten Stamina and One Style. Tournefort has placed it in the Appendix to his Infilitations of Botany; but it properly belongs to his Twenty-firft Clafs, which includes the Trees and Shrubs with a Rofe Flower, whofe Pointal Turns to a Fruit with One Cell

The Specie here reprefented is,

SCHINUS foliis pinnatis, foliolis ferr at is, impart longijfimo, petiolo ctqitali, Lin. Sp. Plant. 388. Schinus with winged Leaves whole Lobes are fawed, the terminating Lobe being longer than the other, and the Footftalks equal. This is the Lentifcus Peruviana C. B. P. 399. Peruvian Maftick Tree; the Molle Cluf Monard. 322.5 and the Arbor Molle, or Indian Maftick Tree.

This Tree grows naturally in Mexico^ Peru, and 3!£ in Brafil, where it rifes to the Height of Twenty-five or Thirty Feet; but in England it feldom rifes half fo high. The Stalk is woody, and, while the Trees are young, has a fmooth brown Bark; but as they grow old the Bark becomes rugged, and is cleft afunder, like that of many other Trees. From the Cracks of the Bark, in very hot Weather, there fweats out a ftrong Balfam or Turpentine, which, in the Countries where the Trees grow naturally, is colle&ed, and ufed for the fame Purpofes as Maftick: And there the Inhabitants wound the Bark of the Trees, to cause it to flow, more plentifully, as the *Greeks* do the Maftick Trees in the *Levant*. The young Branches of the Trees are covered firft with a green Bark; but by Age this becomes of a brown or purplifh Colour. The Leaves are placed alternately on the Branches: They are composed of Eight or Ten Pair of Lobes or Wings, which are terminated by an odd one much longer than either of the other: They are of a lucid Green, ending in acute Points; and are flightly fawed on their Edges, having very fhort equal Footftalks. Thefe continue green all the Year. The Flowers are produced in loofe Panicles at the End of the Branches: They are very fmali and whitf, having Ten Stamina, which are terminated by golden Summits. The Figure a exhibits the Flower of its natural Size \ the other are magnified, to fhew their Characters more diffinftly. That at h flows a Flower cut thro* the Middle; and i reprefents One of the Petals enlarged. After the Flowers are paft, the Germen fwells to a Berry about the Size and Shape of a Peppercorn, whose Pulp, when fresh, has a strong balfamic Odour.







P L A T E CCXLVII.

SERRATULA, Dillen. Nov. Gen. 8. Liu. Gen. Plant. 831. Rail Meth. Plant. 40. Jacea, Tourn. Injl. R. H. 4+4-Saw-wort.

The Characters of this Genus are,

It has a compound Flower, made up of many hermaphrodite Florets, contained in one common cylindrical bellied Empalement a, a, whofe Scales are fpecr-Jh'ed and acute-pointed. The Florets are equal, fannel-JhapeJ, and of One Petal: Me Tube is inflexed, the Brim is bellied, and cut intv_tive Segments: They have Fivejhort hair-like Stamina terminated by cylindrical Summits; and an oval crowned Germen b, fupporting ajlender Style c, crowned by Two oblong reflexed. Stigma's d. The Germen afterward turns to a vertical oval Seed e, crowned -with a hairy Down, which ripens in the Empalement.

ri= ^H I S Genus of Plants is ranged in the First Section of Linn*us's Nineteenth Class, which includes those Plants whose Flowers are composed of only fruitful Florets, and their Summits are conneEied with the Style.

The Specie here reprefented is,

SERRATULA/*&*oblongo-ovatis obtufe dentatis, cauleramofo patulo, calycibus fubrotundis mollibus, Ditt.Hort. Saw-wort with oblong-oval Leaves which are bluntly indented, a fpreading branchy Stalk, and roundifh foft Empalements.

The Seeds of this Plant were given me by John Browning Efq; of Lincoln's-lnn, who received them from the northern Parts of China, where the Plant grows naturally. It has a taper herbaceous Stalk, which riles a Foot and Half high, covered lightly with a mealy Down, and branches out almost the whole Length:

The Branches are (lender, and foread out almost horizontally, turning upward toward their Ends: They are garnifhed with oblong oval Leaves, which are foft, and bluntly indented on their Edges. The lower Leaves on the principal Stalk are about Four Inches long, and Two Inches and a Quarter broad in the Middle, where they are broadeft, ending in Points: They are of a hoary green Colour on their upper Side, and of a pale green on their under, having a ftrong pale-coloured Midrib. The Leaves on the Branches diminifh in Size upward •, but are nearly of the fame Figure with the lower. The Flowers are produced at the End of the Branches upon fhort Footftalks, which for the molt part fuftain Three Flowers, whofe Empalements are foft, fcaly, and fwollen in the Middle: The Scales are fmall, lying over each other like thole of Fifh, ending ir^acute Points. Each of thefe Empalements contain a great Number of hermaphrodite Florets, which are funriel-fhaped, having a pretty long Tube, which fpreads open at the Top, where it is cut into Five Segments, as is fhewn at/*, which is one of the Florets magnified, and fplit down longitudinally, to flew its Strudture, which in their natural Size is difficult to exprefs. Each of thefe are of One Petal, and of a purple Colour: They have Five very ftiort Stamina fitting within the Tube; and at the Bottom is fituated an oval Germen, reprefented magnified at g, which is crowned with a long hairy Down, and fupports a Style the Length of the Tube, which is crowned by Two oblong reflexed Stigma's. After the Flower is paft, the Germen becomes a fingle oval Seed crowned with hairy Down, and ripens in the Empalement. The Flowers appear in July, and there is a continued Succeffion of them till the Cold in the Autumn puts a flop to them. Thofe Flowers, which appear early in the Seafon, are generally fucceeded by good Seeds, if the Seafon proves favourable -, but the late Flowers are always abortive.

P L A T E CCXLVIII.

CNICUS, tourn. Injl. R. H. 450. Tab. 257* Raii Meth. Plant. 41. Lin. Gen. Plant. 833.

The, Chara&ers of this Genus are,

,// hath a compound Flower, made up. of many hermaphrodite Florets, which are equal, and are included in One common imbricated Empalement a, whose Scales areftiff, and end in acute Spines. The Florets are funnel-Jhapcd, and oblong, and the Brim is cat into Five equal Parts, as is reprefented at the Bottom a: They have Five short hairy Stamina terminated by cylindrical Summits, and a port Germen crowned with Down, represented under a, supporting a long Style crowned by an oblong Stigma b. The Germen afterward becomes a fingle oblong Seed d, which is crowned by a hairy Down, and ripens in the Empalement.

H IS Genus of Plants is ranged in the Second Section of Tournefort's Twelfth Clafs, which includes the Herbs with aftofculous Flower, whofe Seeds are crowned with Down. Mr. Ray places it in his Ninth Clafs, which contains the Herbs with compound Flowers wileEted into Heads, whofe Florets are long^fijtulous, and NUMB. XLII.

cut into Segments. Dr. Linnaeus ranges it in the First Section of his Nineteenth Class, which includes those Plants whose Flowers are composed of all fruitful Florets and their Summits are connected together.

The Specie here reprefented is,

CNICUS foliis cordatis, petiolis crifpis fpimfis amplexicattlibus, floribus cernuis, Hort. Upfal. 253. Cnicus with heart-fhaped Leaves having curled prickly Footftalks which embrace the Stalks* and nodding Flowers. This is the Car duns foliis ex cordato lanceolatis, margin? ferratis et fpinofis, fnuamis calycum membranaceis, later is fpinojis, capitulis nutantibus, Flor. Siber. 47. Thiftle with Leaves from heart to fpear-fhaped, with fawed prickly Borders, and membranaceous Scales to the Empalement, whose Cuts are prickly, and nodding Heads.

This Plant grows naturally ia *Siberia*, from vu.^a. the Seeds were *icnt* to the Imperial Garden at *Peter/burgh*, and have fince been communicated to the feveral Botanic Gardens in *Europe*.' The Root of this Plant is large and rough, fending out many thick black Fibres, which

ftrikc deep in the Ground. The Leaves, which tife im-nediately from the Root, are near a Foot long, and Six Inches broad in the Middle, diminifhing gradually toward the Point; but toward their Bafe they fwell out almost heart-fhaped: Their Footftalks are bnrdered; and the Borders are cut and curled, ending with Spines, which embrace the Stalks half round: They are of a deep green on their upper Side, but white on their under, and are fharply fawed on their Edges. The Sulks rift Six or Seven Feet high, fending out on each Side a few finall Branches: They are ftreaked, and of a brown Colour; and are garnifhed below with heart-flipped Leaves, which embrace the Stalk half round; but those Leaves toward the upper End of the Stalk are long and

narrow, ending m acute Points. Each Divi/ion of the Sralk is terminated by One large nodding Head of Flow ers, whose Empale men t is made up of Scales lying ov each other like those of Fish, each ending with a frisr_ Spine. The Flower is cumj-ufed of many hermaphrodite Florets, which are funnel-fhaped, and cut into Five Segments ar the Top; They are of a pale yellow Colour, and have an agreeable Scent. The Flowers are fucceeded by naked Seeds, which ripen in the Empale-

This Plant flowers the Second Year from Seed, in July; and the Seeds ripen in the Autumn, when the Plant decays.

BUPHTHAI.MUM, Lin. Gen. Plant. 876. Ajlerifcus, Team. *Vi.II. R.H.* 497. *Tab.* 283. *Vaill.Acl.Par.* 1720. *Dillen. Hurt. Ekb.* 3S. Ox-eye.

The Characters of this Genus are,

The Empalment of the Flower is imbricated, and Varies in the different Species; in feme the Grcle of Ltaves'are feft, as at a, in others they are jiijf and prickly. The Floiver h composed of hermaphrodite Florets, which form the Jiijk b, and of Female Half-jiorets c, -which make the Border or Rays. The hermaphrodite Fiords are funnelfhaped, and cut imoFive Segments at the Top, which firead out on One Side in the Shape of a Tongue, and are cut epen as at h: thefe have Five iteryjhorl hair-like Stamina_f into Three Segments at the Point; They are of a bright terminated by cylindrical Summits, and an oval csmpreffed yellow Colour. The Difk or Middle of the Flower is Germen e, fupporting a long Style f, crowned iy a thick f.ngle Stigma. The Germen afterward becomes a Jingle oblong Seed, having feveral Cuts at the Top k, ivhich ripens in the Empalement. The Female Half-farets, -which compose Gold Colour. Theft Flowers appear in Justy and Authe Border, are tongue-jhaptd, end cut into Three Points d: guj!, and the Seeds ripen in the Autumn. Feft have a Germen with Two Sides e, which fufports a long Style crowned by T-mo oblong Stigma's, but no Stamina: dicine; Ib the Plant is mentioned in most of the Difthe Germen afterwards turns to a coiKprcffc-d Jingle Seed, penfaries: But the Ancients held it in great Efteem for whofe Crown is bordered.

H I S Genus of Plants is ranged in the Second Seftion of/JHHJTKJ'S Nineteenth Clafs, which inthose Plants whose Flowers are composed of hermaphrodite and female FUrets, which are all fruitful, and their Summits are connected. Toumefort placts it in the Third Scflion of his Fourteenth Clafs, which contains the Herbs with a radiated Hsiwr having kafy Heads, whofe Seeds have no Down.

The Species here reprefented are,

l. BIFHTHALMUM calyribus scute folio/is, ramis alterms, foliiS lanctolatii amplexicatilibss integerrimis, Hort. Cliff. 414. Ox-eye with acute Leaves to the Empalement, the Branches alternate, -md fpear-fhaped intire Leaves embracing tlic Stalks. This is the JJlerifcus aiwuus, foliis ad fiorem rigidis, Town. btfl. R. ti. 497. Annual Eaftard Siarwort with ftiff Leaves to the Flower. Cafpar Baubin titles it JJler liiteus folidis forem rigidis, C. B. P. 2C6. Yellow Starwort with itifF fmall Leaves. It is also titled *After Alticus*, *Majjilicticits*, *Tab. Icon.* 861. Attic Starivort.

This Plant is annual, and grows naturally in the «, in Spain, and Italy. The lower Lewes

are oblong, hairy, and round pointed: They are about Four Inches long, and One broad, and are narrowed at their Bafe. The Stalk rifes Two Feet high; it is liairy and fliff, dividing into Two or Three Branches alternately toward the Top: Thefe are garnifhed with fpearfhaped Leaves, which embrace the Stalks with their Bafe. The Flowers are produced at the End of the Branches -, their Empalenients are tompofed of Nine ftiff Leaves, which end with Prickles: Theft fpread open immediately under the Flower, like the Points of a Star. The Border or Ray of the Flower is compofed of many female Half-florets, whose Petals are ftretched composed of a great Number of fiftular Florets, which are hermaphrodite, having a Germen, Style, Stigma, with Stamina and Summits in each: Thefe an; ot a

The Leaves of this Plant are Ibmetimes ufed in Me¹ Virtues which the Moderns -have little 1-'aithin.

Fig. 1. BtiPHTHAi.Mrv caljcibus obtufe fibqfis feffilibus axillaribxs, foliis oblongis obtitjis, Hurt. Cliff. 414. Oxeye with obtufe Leaves to the Empalement fitting dofe to the Wings of the Stalk, and oblong blunc Leaves. This is the AJierifcus annum, Lufitamcus odoralus, Bierh. lad. Alt. t. p. 105. Sweet-fccnted Portugal annual Baft a id After,

This is an annual Plant, which grows naturally in Portugal, in low moift Places, where there is (landing Portugal, in low moitt Places, where there is (landing Water in Winter. The Branches of this Sort fpread near the Ground: They are about a Foot long are garnifhed with oblong Leaves, which are of a light green Colour, and hairy: They are an Inch and Half long, and Half an Inch broad, fitting dofe to the Branches. The Flowers grow at the Wings of the Stalks, to which they fit very defe, having no Footftalks. The Leaves of their F.mpalements are oblunjr, blunt pointed, and foft. blunt pointed, and foft. The Flowers are comcofed of hermaphrodite Florets and fema as, like thofe

Former: They are of a bright yellow Colour, and have an agreeable fweet Scent.

rhis Sort flowers in July and Augujt, and the Seeds ripen in the Autumn.



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DELPHINIUM* Tourn. Infi. R. It. 426. Tab.t^t. Ran Meth. Plant. 79, Lin. Gen. Plant. 602. Larkfpur *or* LarksheeL In French, Pie d'Alouette.

The Characters of this Genus are.

The Flower has no Empalement: It has Five unequal Petals placed circularly; the upper, which is obtufe and mdented a, is extended behind in a long obtufe Horn" the other are oval-Jhaped, and nearly equal c, f^WTM open. It has a bifid Neclarium a /, fituated in the or Part of the Circle of Petals, whofe «&"*<""&**£ behind, and involves the Tube of the Petals. It has many fmall Stamina d, which are broad at their Baje, and inc-rn to the Petals, terminated by fmall ereft Summits; and Three cr One oval Germen fitting upon Styles the ${}^{Le}f^{h}_{\ r}{}^{\circ}\{J^{\wedge}_{a}$ Stamina e* crowned byfingle refiexedStigmas. Vie beratna afterward become oval awl-fiaped Capfules r, of One Cell g, which open behind, and are filled with angular Seeas n.

IT ^ H I S Genus of Plants is ranged in the Second Section of Tournefort's Eleventh Clafs, which includes the Herbs with an anomalous Flower of J^^JT ids, whofe Pointal becomes a Fruit with many C^jujes^ Mr. Ik, We's it in his Eighteenth Class which contains the Plants with many Capfules, whofe Leaves areiefs fucculent, and their Flowers irregular. Vr.Lmn*us ranges it in the Third Sedion of his Thirteenth Clafs, which includes those Plants whose Flowers have many Stamina and Three Styles.

large blue Flowers.

The Species here reprefented are,
Fig. 1. DELP N7UM netlariis diphylhs, fioribus fubfclitariis, foliis compositis hnean-leaved Nuc-Hort. UpfaL 150. Larkspur with a trion whose Lips are intire the tariom whofe Lips are intire, the fingly, and compound linear Leaves having many Points. This is the Delphinium elatius fuoincantimper fenne, fioribus amplis azureis, Amman. Ruth 132. 1 au perennial Larkfpur with Leaves a little hoary, and

This Plant grows naturally in Siberia. The Root is

fibrous and perennial. The Stalk rifes near Two feet high: It is garnifhed with Leaves compofed of manjr linear Lobes or Segments* which end in many Points; they are of a light Green on their upper Side, a little hoary on their under, aud fpread open like thofe of Wolfsbane. The Stalk divides into Two or Three Branches upward, and at each Joint is garnifhed with One fmall Leaf, cut into narrow Segments like thofe below •, and the upper Part of the Branches are garnifhed with large Flowers of a fine azure blue Colour, which come out fingly from the Sides of the Branches upon pretty long Footftalks: Thefe appear in June and July, and the Seeds ripen in August.

Fio". 2. DELPHINIUM nettariis diphyllis, labettis bifidis, ^apice barb at is, foliis trilobis incifis, caule eretto. Larkfpur with a two-leaved Ne&arium having a bearded Point, Leaves with Three Lobes which are cut into Segments, and an upright Stalk.

This Plant grows naturally in moft Parts of North America, where, when the Cattle happen to feed upon the Leaves, it occasions great Diforders in them. The Seeds of this'piant were fent me by Mr. John Bartram from Philadelphia: It has a perennial Root, from which arifes an upright Stalk Five or Six Feet high, branching out on the Sides. The lower Leaves are large, and divided into Three Lobes to the Footftalk: Thefe are cut on their Borders into acute Segments: They are a little hairy, and of a greyifh Colour, Handing upon pretty long Footftalks. Those which grow upon the Stalks re fmaller, and not fo deeply divided. The principal k is terminated by a long loofe Spike of Flowers, which is often a Foot and Half long. The fmaller Side-branches, which grow ereft, have fmaller Spikes. The Flowers are not much larger than those of the common Larkfpur, and are of a pale blue Colour: Thefe have a two-leaved bearded Nedarium fitting in the Center of the Petals, which has at first Sight the Refemblance of a large Fly in the Tube of the Flower. This Plant flowers in June; and in cool Seafons there is frequently a Succeffion of Flowers till the End of August. The Seeds ripen in the Autumn,

HYDRANGEA, Flor. Virg. 50. Lin. Gen. Plant. 49*'

The Characters of this Genus are,

The Flower has a very fmall permanent EmpalemeHt of One Leaf indented in Five Parts a, and Five roundifi, Petals, which are equal, and a little larger than the Empale. TMnt b. h has Ten Stamina, which are longer than the Petals, and are alternately longer than each other c tetwnated by roundijh Twin Summits d. It has a rounffernen Mated Jder the Flower, with Tivo jhort Styles which «re at a Bijlance from each other e, crowned by obtuje permanent Stigma's. The Germen afterward turns to a roundijh Twin Capfule, having many angular Veins and the Two Styles like Two Horns on the Top f, 'having Two Cells g,

which open transverfely h» and are filled with fmall angular

THIS Genus of Plants is ranged in the Second Section of *Linnaus's* Tenth Clafs, which includes those Plants whose Flowers have Ten Stamina and Two Styles.

We know but One Specie of this Genus, which is here reprefented.

HYDRANGEA, Flor. Virg. 50. We have no English Title for this Plant.

It grows naturally in North America, from whence it has lately been introduced into the Englifo Gardens. This

This has many flirubby Stalks arifing from the fame is compounded of many fmaller. The Flowers are Root, which rife Three or Four Feet high: They are four-cornered when young, and have a green Bark •, but as they grow older they become taper, and have a light brown Bark. The Leaves are almost heart-shaped •, they are Three Inches long, and Two and a Half broad near the Bafe, where they are broadeft, having many transverse Veins, which run from the Midrib to the Borders, of a deep Green on their upper Side, and pale on their under, flightly fawed on their Edges, and ending in acute Points: Thefe are placed by Pairs flanding upon long Footftalks. The Branches are each terminated by a Corymbus of Flowers, which

very fmall, white, and have an agreeable Odour: They are composed of Five fmall Petals of a roundish Form, which fpread open, and are a little larger than the Empalement, fo make no great Figure fingly; but the whole Corymbus, which is large, makes a tolerable good Appearance at a fmall Diftance: And as every Branch is terminated by one of thefe, fo when the Plants are large, and have many Stalks, they make a Diverfity in the Garden among Plants of equal Growth.

This Plant flowers in July; but the Summers are feldom warm enough to ripen their Seeds in England.

As AKIN A, Tourn. Lift. R. H. 171. Tab. 76. Chelone^ Lin. Gen. Plant. Penftemon^ Mitch. Gen. 14. Baftard

The Characters of this Genus are,

The Empalement of the Flower is composed of Five short acute-pointed heaves a. The Flower is of One Petals and of the hip Kind b, having a long cylindrical Tube, which is extended at the Chaps^convex on the upper Side, but almost Leaves are about Three Inches long and Half an Inch plain below. The under hip c is cut into Three obtufe Segments at the Point •, the upper is obtufe and divided flightly ending in acute Points. The Stalk rifes upright a Foot into Two obtufe Parts at the Top d: // has Four Stamina; the Two inner^ which are oppofite^ e and f, are almost the Length of the Petal; the Two cuter are fhorter: Thefe are terminated by oblong Twin Summits. In the Bottom of the WflNf l*fl^m&rais t&engih Avith^'of^at^ottom, but Tube is fituated an oval Germen fuppcrting a Jingle Style g,*We narrower. The tranches are terminated by loofe crowned by an oblong Stigma h. The Germen afterward turns to an oval Capfule crowned by the Style i, having Two Cells k and 1, which are filled with fmall Seeds m

HIS Genus of Plants is ranged in the Fourth Jl^ Sedition of Tourneforfs Third Clafs, which includes the Herbs with an anomalous Flower of One Petals which is tubulous and perfonated. Dr. hinn < eus ranges it in the Second Section of his Fourteenth Clafs, which contains the Plants whofe Flowers have Two long and Two fhort er Stamina\ and the Seeds are included in a Capfule.

The Specie here reprefented is,

ASA R IN A caule eretto, foliis lanceolatis amplexicaulibus, panicula dichetoma. Baftard Afarum with an ereft

Stalk, and fpear-fhaped Leaves embracing the Stalk, This is the Chelone foliis amplexicaulibus, panicula dichotoma^ hin. Sp. Plant. 612. Chelone with Leaves. embracing the Stalks, and dichotomous Panicles of Flowers.

This is a biennial Plant, which grows naturally in The Root is composed of many thick flefhy Virginia, Fibres, which fpread out on every Side. The lower broad, fmooth, intire, and of a deep green Colour, and Half high, dividing into feveral Branches, which are garnilhed with narrow fpear-fhaped Leaves placed Panicles of purple Flowers, which arife at the Divifion of the Branches: Thefe have very fhort Empalements, which are composed of Five acute-pointed Leaves* The Flower is of One Petal, having a long Tube: The Bottom of this is contrafted, but fwells gradually upward, and at the Chaps is large: There it is divided into Two Lips; the upper is convex, and ends in Two blunt Segments; the under is almost plain, and is cut into Three obtufe Segments at the Brim: They have Four Stamina, which are hid in the under Lip, Two of which are as long as the Tube of the Flower, the other Two are a little fhorter. At the Bottom of the Tube is fituated an oval Germen fitting in the Empalement, fupporting a (lender Style the Length of the Stamina, crowned by a fingle Stigma. Thefe Flowers appear in Jun% and July, and the Seeds ripen in the Autumn, foon after which the Plants decay.



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PLATE CCLIII.

Figure 1 Abor Jud e Rm Meth. Plant.

The Judas Tree,

in _r

The Characters of this Genus are,

SIR j % m r has a Jhort bell-fiaped Empalement of One Leaf, marked a, which is gibbous within, and cut at the Brim into Five obtufe Segments «*>>* """for Flower has Five Petals b, which areinferted to t* parent, and approach to the Butterfly Flower to the Petals ere fixed by long Tads, and a turning backward, thefe are like the Wings. It is roundijb, and has ajlort Tail under he Wings. It is composed for Two heart-fiaped Petals the Pits of Generation, which for Under the Germen is fituated heart for the Segment is the others, decUning Summits has a hour for the others, decUning Summits has a hour for the others, decUning Summits have heart for the others, decUning Summits have heart for the former afterwards turns to an hour for the former for the Point for having One Cell opening with Two dofing One Row of roundijh compresed Seeds h, the upper Seam of the Pod.

HIS Grous of Plants is ranged in the First Section of Tearsefact's Twenty-Securit Class, Section of Tearsefact's Twenty-Securit Class, which includes the Trees and Strake which includes the Trees displayed in an elier-Besterit Plants, broken fingle Lecture displayed in an elier-like Plants, broken fingle Lecture displayed bearing.

Pods, which have fingle Leave, D in the First Section of his TenthCJals, wn icn those Plants whose Flowers have Ten One Style: But it would, TM*\(^{mO}TM\) is the policy constituted into his Seventeenth Class,; for the the others of the Buttersly Kind, and the Stamina of the Flowers, being joined, do com Two Bodies.

The Specie here reprefented is,

Str. - 51. The common Jodes Tree. Cafpar Bauhin titles it has a fingle of seconds. folia. Pin. 402- Round-leaved wild Siliqua. John Baubin tides it Judaica arbor, Eifi. 1. 433. and Dodoveus< > Arbor Judte, Pempt. 786. Doftor Linnaus has changed the generical Title, and calls it Cercis' foliis cordato'Orbiculatis glabris, Hort.Cliff. 150.;/.e. 'Cercis with orbicular heart-Hiaped fmooth Leaves.

This Tree grows naturally in the Levant^ and alib in Spain and Italy. It rifes, with a ftrong upright Stem, to the Height of Twelve or Fourteen Feet in England', but in its native Climate, grows much taller. It is covered with a brown Bark, and divides into many irregular Branches, which are (lender, and are garnifhed with round heart-fhaped fmooth Leaves, placed without Order, and have long Footftalks. They are of a pale Green' in the Spring, when they come out firft, but afterwards change to a deeper Green on their upper Side, but are pale en their under Side. Thefe fall off in the Autumn. The Flowers come c; /cry Side the Branches in Clutters, not only upoa ae young Branches, but alfc the old Branches are fully garniflied with them, and frequently the Stem of the Tree is adorned with Flowers; which are rarely feen in other Sorts. Thefe are fometimes produced upon branching Footftalks, which fuftain Three or Four Flowers, but they crenerally ftand upon feparate Footftalks; many of which arife from the fame Point. The Flowers are of a bright purple Colour; fo when the Trees are well furnished with them, they make a fine Appearance. Thefe appear in May, when the Leaves of the Tree are fmall, fo they are not hid by the Leaves. They have a poignant Tafte, fo are by many Perfons eaten in Sallads. The Birds are very fond of the mellous Liquor which is lodged in the Honey Gland; fo, if they are not prevented, will pick off all the Flowers to get at it, which frequently prevents the Trees from producing Pods; but if the Flowers are guarded from the Birds, they will be fucceeded by Pods, which* in warm Seafons^ do ripen very well here.

The Spaniards and Portuguese title it the Lovely Tree* or Tree of Love; and we call it Judas Tree, from a Tradition, that it was the Tree which Judas hanged himfelf upon.

PLAT E CCLIV.

Yirga durus, Toorn. Mab. Place. 33-

Golden Rod; in French Verge done.

The Charafters of this Genus arc,

the Flower has a common which being the state of the flower is radiated of Female Half Florets, are a composed to the Bifkc is dnposed to the bifkc is dnposed, and cut the Brim, which spreads open: Teg assis Five hair like Stanum NUMB. XLIII.

mrta* terminated by cylindrical Summits k, and a crowned Germen e, fupporting a jlender Style f, crowned by Two Stigma's g. The Germen afterwards becomes an oval oblong Seed, crowned with a hairy Down. The Female Half Florets have a crowned Germen'\^ but have no Stamina. The Style h is the Length of the Petal, and crowned by Two Stimds. The Germen becomes a Seed like those of the hermaphrodite Florets.

HIS Genus of Plants is tanged in the Second Seftion of Linn<eus\ Nineteenth Clafs, which includes those Plants whose Flowers are composed of hermaphrodite Florets and semale Half-Florets which are alt * % X fruitful

fruitful. Toumefortplaces it in the First: Section of his Fourteenth Class, which contains the Herbs with a radiated Flower % whofe Seeds are crowned with Down. Mr. Ray ranges it in the First: Sestion of his Seventh Class, which includes the Herbs with a radiated difcous Flowery whofe Seeds have Down.

The Specie here exhibited are,

Fig. i. SOLID AGO paniculato, racemis recurvatis, floribus ercSHs, fcliis lanceolatis integerrimis glabris. Paniculated Solidago with recurved Spikes, having ere<5t Flowers, and fmooth fpear-lhaped Leaves, which are

This Plant grows naturally in New Jerfey in America* from whence the Seeds were fent me by Mr. John Bartram in 1756. This rifes with an upright herbaceous fmooth Stalk near Three Feet high, garnifhed with fmooth fpear-fhaped Leaves, ending with acute Points: They are about Three Inches long, and One broad in the Middle, drawing to a Point at each End, and fit clofe to the Stalk. They are of a light-green Colour. The upper Part of the Stalk branches out into a Panicle, and thefe Branches have long Spikes of Flowers coming out from their Wings, which are recurved. The Flowers are ranged on one Side of the Footftalk, and ftand ereft. They are of a bright yellow Colour, each Flower being compofed of Five or Seven Half Florets, which form the Ray or Border, and feveral hermaphrodite Florets placed in the Centre or Difk. The Firft have fhort Tubes, which end in One Segment fhaped like a Tongue, as is reprefented at $h \setminus$ the latter have Tubes about the fame Length, which are funnel-fhaped, the Petal being equal, and cut into Five acute Segments at the Top,

which fpread open flat, as is fliewn at d. Both thefe are fucceeded by fingle oblong Seeds, which are crowned v/ith a hairy Down.

This Sort flowers the Beginning of August^ and, if the Autumn proves favourable, the Seeds will ripen the End of September

Fig. 2. SOLIDAGO canle paniculato^ racemis inferioribus JimplicibnSy fummis confer tiffimis^foliis glabris integerrimisj Didl. Hort. Solidago with a panicuta^fed Stalk, the lower Spikes of Flowers fingle, the upper gicv:ing in Clufters, and fmooth intire Leaves.

This Sort grows naturally at Philadelphia, from whence the Seeds were fent me by Dr. Benfel. rifes with a branching herbaceous Stalk Three Feet high, which is garnifhed with fmooth Leaves. Those on the lower Part of the Stalk are Five Inches long, and Two broad in the Middle, drawing to a Point at each End. Thefe ftand upon pretty long Footftalks, and are intire. They are of a deeper green Colour than those of the former Sort. Those Leaves on the upper Part of the Stalk are much fmaller, and have fhorter Footftalks. The Flowers are produced in fingle loofe Spikes from the lower Part of the Stalk at the Wings of the Leaves; but, toward the Top of the Stalks, they are in fhorter Spikes, which come out in Clufters from the Wings of the Stalk, and also at the Top. The Flowers are of a bright yellow, and are composed of hermaphrodite Florets, and female Half-Florets, as thofe of the other Specie.

This Sort flowers the latter End of Augusti and the Beginning of September * and, in warm Seafons, the Seeds will ripen in England.

CLV. E

So LJD AG O foliis lanceolatis', fubcarnofis^ glaberrimis9 margine fcabriufculis, panicula corymbofa, Lin. Sp. Plant. Solidago with fpear-fhaped almost fleshy Leaves, which are very fmooth, having rough Edges, and the Panicle of Flowers difpofed in a roundifh Bunch. This is the Solidago maxima Cornut. Canad. 168. The largeft Woundwort of Cornutus. Dr. "Tournefort titles it Virga aurea Canadenfis, latiffimo folio glabro, Injl. R. H. 485.; and, in the Hifloria Oxonienfis^ it is titled Virga aurea Canadenfis, foliis carnofis non ferratis latiori-b are much narrower in proportion to their Size. bus, b. 3» 124. Canada golden Rod with broader flefhy Leaves not fawed.

HIS Sort grows naturally in many Parts of North America •, but, being first brought to Europe from Canada 1 it was titled from that Country. This Plant has been long an Inhabitant in the English Gardens, and is One of the lateft in Flower of any Sorts yet known, feldom flewing its Flowers till late in October; fo that, unlefs the Autumn proves favourable, the Stalks are pinched by the Froft before the Flowers blow.

It has thick flefhy Stalks of a purplifh Colour, which ffequently rife Six Feet high in good Ground, and are

garnifhed with fpear-fhaped Leaves, which are thick, flefhy, of a deep green Colour, and very fmooth; but their Edges are a little rough to the. Touch. They are Ten Inches long, and an Inch and half broad, drawing to a Point at each End. The Flowers terminate the Stalk in a roundifh Panicle or Corymbus. The common Lmpalement of the Flower is longer than of most of the other Species of this Genus; and the Scales are fmoother, as is reprefented at a. The Rays of the Flower Florets, which form the Difk c_9 are large, and their Segments d are not fo acute as in the former. The Germen e is fituated at the Bottom of the Floret, fupporting a flender Style, crowned by a forked Stigma/. The Female Half-Florets have their Petals extended in Length on one Side in Shape of a Tongue g_y and, at the Bottom of the lube, is fituated the Germen £, crowned with hairy Down, which afterwards becomes an oblong Seed /, crowned with hairy Down *. but thefe fcarce ever ripen in England, unlefs the Plants are fheltered from

Pl.ccm







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me with make an and

SPIRAEA, Lin. Gen. Plant. 554. ^urn. Jnft. R. H.6i9. Tab. 389. Raii Meth. Plant. 158.

The Characters of this Genus are,

^he Flower has a -permanent JLmpalement of One Leaf *> cut half-way into Free acute Segments. It \>ai Tree dbOYV^ Petals \D, which are inferted in the ILmpaJemcnt^ anh. above Twenty flender Stamina c, which are Jhorter than the Petals, and are inferted in the Empalement ^ terminated by roundifh Summits. It has Five or more Germina d, each fupporting a flender Style the Length cf the Stamina reprefented at e, crowned by headed Stigmas f. The Germen afterwards beand opens with Two Valves h; one of which is Jhewn Jeparateati," and is cut transverfely atk, inclosing fmall oblong Seeds, reprefented at I.

HIS Genus of Plants is ranged in the Fourth Section of Linn < eus*s Twelfth Clafs, which in* eludes those Plants whose Flowers have about Twenty Sta* mina, which are inferted in the Empalement. Tournefort's Genus of Spiraa is placed in the Fifth Section of his Twenty-first Class, which contains the Trees and Shrubs with a Rofe Flower, whofe Pointal becomes a Pod. Mr. Ray places it among his mifcellaneous Trees and Shrubs, in his Appendix.

The Specie here reprefented is,

SPIRAEA foliis tematis ferratis fub^qtlalibus^ floribus fubpaniculatis, Lin. Sp. Plant. 490. Spirasa with trifoliated fawed Leaves almoft equal, and Flowers almost disposed in Panicles. This is the Filipendula foliis tematis, Hort. Cliff. 191. Dropwort with trisoliate Leaves. Doftor Plukenet and Mr. Ray title it, Ulmaria major trifolia, flore amplo pentapetalo > Virginiana

Ran Sup- 33°- Greater Three-leaved Jim. 393. Virginia Meadowfweet, with a large Flower of Five Petals. Do£tor Morrifon titles it Ulmaria Virginiana trifolia, floribus candidis, amplis, lo'ngis, et acutis > Hijt. p. 323. Three-leaved Virginia Meadowfweet with

v pře **Vátal** v pro-nizia M N → America, W * now pretty common in the Englijh Gardens. It has a perennial Root, but the Stalks are annual* and decay every Autumn. When the Roots are large, they fend Up Three, Four, or more branching Stalks, which rife a little more than a Foot high which are garnifhed at comes an oblong acute-pointed Capfule g, which is compreffed each Joint with One or Two Leaves,, composed of Three oval fpear-fhaped Lobes ending in acute Points. Thefe are tfrongly fawed on their Edges. They are near Two Inches long, and Three Quarters of an Inch broad in the Middle, ^ of a bright green on their upper Side* but pale on their under, and lit clofe to the Stalk. Th& Flowers are difpofed in loofe Panicles at the End of the Branches, each ftanding upon a pretty long (lender Footftalk. They have Five long fpear-fhaped Petals, whofe Tails are inferted in the Empalement, as is reprefented in the Figure $c_9 d$, which is One of the Empalements with the Germen and a Petal magnified, and cut through lengthways. Within the Petals are fituated about Twenty fhort Stamina, terminated by roundifh Summits, and Five Germina at the Bottom of the Tube_ fupporting fo many (lender Stiles, crowned by headed Stigma's. After the Flowers are paft, the Germen turns to a Fruit, compofed of Five acute-pointed Cap: fules, reprefented at g, each opening with Two Valves* as is fhewn at h. Thefe contain a few oblong Seeds, reprefented at /.

^ This Plant flowers in July zxAAugufi^ and the Seeds ripen the End of September

Fig. 1. SPI R /E A foliis lanceolatis^ in&qiialiter ferratis^ fubtus tomentqfiS) floribus duplicato racemofts> Lin. Sp. Plant. 489. Spirsea with fpear-fhaped Leaves, which are unequally fawed, and downy on their under Side* and flowers in double Spikes. This is the *Ulmaria* pentacarpos, integris ferratis foliis parvis fubtus incams, Virginiana, Plukn. Aim. 39. Virginia Meadowfweet with Five Capfules, and fmall intire fawed Leaves^ hoary on their under Side.

THIS grows naturally in feveral Parts of North America, particularly at Philadelphia. It is a low flirubby Plant. The Stalks are (lender, and have a purple Bark. They fend out ilender Branches from their Side almost to the Ground. Thefe are garnished with fmall oval fpear-fhaped Leaves, about an Inch and half long, and Half an Inch broad in the Middle. They are of a light green on their upper Side, but downy on their under. Their Edges are unequally fawed. The Branches are terminated by branching Spikes of Flowers of a bright red Colour. They have a fmall

Empalement of One Leaf, reprefented at a, which is eut at the Brim into Five fmall Segments, which fpread open. The Flower has Five fmall roundifh Petals, reprefented at b, which expand in Form of a Rofe' and within are fituated a great Number of fhort Stamina, reprefented at c, which are terminated by roundiflt Summits d. In the Centre is fituated the Five-pointed Germen, fupporting fo many Styles, reprefented at A Which are magnified in the adjoining Figure. Germen afterwards becomes a fruit composed of Five acute-pointed Capfules g, which is magnified at /. Thefe open with Two Valves h, in the fame manner as the other Species, containing feveral fmall Seeds.

It flowers in June and July, and the Seeds ripen in Autumn.

Fig. 2. SPIR ^ A foliis lanrtolatis acute ferratis^ floribus paniculatis, caule fruticofo, Ditt. Hort. Spirea with fpear-fhaped Leaves, which are acutely fawed, t lowers difpofed in Panicles, and a Ihrubby Stalk.

Thii

t *7² 1

This has a fhrubby Stalk covered with a bright brown Fark, and riies Five or Six Feet high, fending out many (lender horizontal Branches on every Side, which are garniflled with fpear-fhaped Leaves of a thin Confidence, and a bright green Colour on both Sides. They are fliarply fawed on their Edges, (landing upon fliort Footfalks". The Flowers are difpofed in Panicles at the End 96f the Branches, They are composed of Five fmall

This has a fhrubby Stalk covered with a bright brown roundiffh white Petals, wich many fliort Stamina, u-nmark, and riies Five or Six Feet high, fending out many ender horizontal Branches on every Side, which are garflled with fpear-fhaped Leaves of a thin Confidence, Fru&ification,

It flowers in *July* and *Aiigufi*^ but rarely produces good Seeds in *England*. This Sort grows naturally in *North America*, from whence I have received it.

$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E} \ \mathsf{CCLVIIL}$

STAPELIA, Lin. Gen. Plant. 271. Afclepias, Tcurn. Itift. R. It. 94. Tab. 22. Swallow-wort, or Ffitillavia craffhk

The Chara&ers of this Genus are,

The Empelement of the Flower is permanent, of One Leaf cut into Five acute Segments, as is reprefented at a. The Flower has One large plain Petal, which is deeply cut into Five acute Segments b, and a five-pointed flarry Neftarium c, with narrow torn Segments, which furround the Parts of Generation. It has Five plain, broad, ereEl Stamina, with linear Summits d, fafiened on each Side the Stawina, and "Two oval flain Germina having no Style, crowned by a blunt Stigma. The Germina afterwards turn to Two oblong taper Pods, filled with compreffed Seeds, crowned with a feathery Down, lying over each other like the Scales of Fifh.

THIS Genus of Plants is ranged in the Second Seftion of Linn

The Specie here reprefented is,

STAPELIA denticulis r amor um ereBis, Hort. Cliff. 77. Stapelia with ere£t Indentures on the Branches. This is the Afclepias Africana aizoides, fiore pulchre fimbriato, Com. Rar. 19. African Swallow-wort like Houfeleek, with a fine fringed Flower. Tournefort titles it Afclepias Africana, aizoides, longioribus foliis, minus denia* tis, Inft. R. H. 94. African Swallow-wort like Houfeleek, with longer Leaves lefs indented.

This Plant grows naturally upon the Rocks at the Cape of Good Hope, from whence it was first brought to

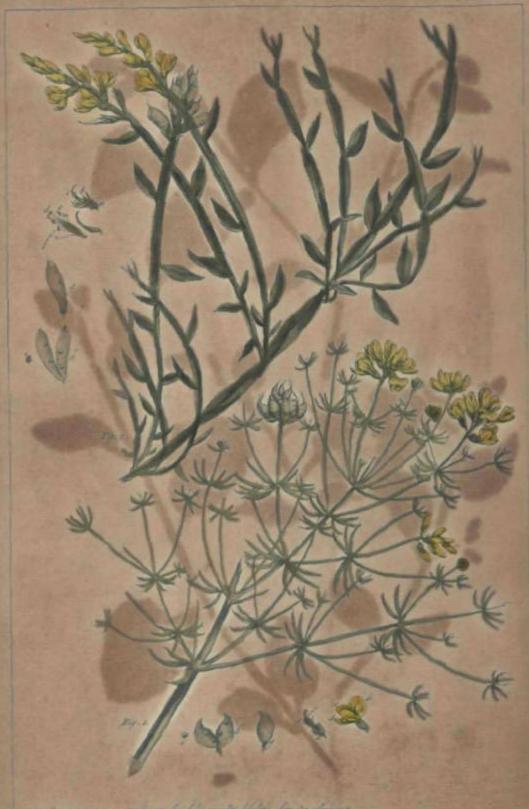
the Gardens in *Holland**, but is now become common *in* moil: Parrs of *Europe*.

The Root is composed of many ftrong Fibres, from which arife feveralTuocule.^t* four-cornered Stalks, whicfr feiid out other Branches of the fame Shape from their Side, which have Indentures on each Angle their whole Length; 'whofe Points are ereft. The Stalks or Branches are of a deep green Colour; but the Angles and Points of the Indentures are inclining to brown, efpecially if the Plants are expofed in the open Air in Summer. The Flowers come out from the Side of the Stalks, (landing upon long flefhy Footftalks. They have fmall permanent Empalements, which are cut into Five Segments; and One large plain Petal of a thick leathery Substance, which is deeply cut into Five acute Points. The Infide of the Petal is variegated and hairy, and the Borders of the Segments are clofely furnished with long brown Hairs. In the Centre is placed ths double ftarry Neclarium, whose Points feems as if they were torn, which covers the Stamina and Germen, and is of a purple Colour. The Outfide of the Petal is of an herbaceous pale Colour, and fmooth. The Flowers of this Sort are not fucceeded by Pods in *England-*, but the fmaller Sort has fometimes produced Pods here, which are long, taper, and pointed, agreeing perfeilly with the Characters before given. This Plant flowers during great Part of the Summer.

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SPARTIUM, Tourn. Infi. R. H. 644. Tab. 412. Raii Meth. 161. Lin. Gen. Plant. 765. Broom.

The Charafters of the Genus are,

The Empalement of the Flower a, is heart-fhaped, tubulous, of One Leaf with a very fhort Margin at the Top, indented in Five Parts; but those Indentures under the Flower are extended. The Flower is of the Butterfly Kind. The Standard b is large, almost heart-fhaped, and intirely reflexed. The Wings c are oblong-oval, fhorter than the Standard, and join to the Stamina. The Keel d is oblong, and extended beyond the Wings: The Borders are connected, andfhut up the Stamina. It has Ten unequal Stamina e, Nine of which are joined, and One ftands feparate, terminated by oblong Summits; and an oblong hairy Germen, fupporting a rifing awl-fhaped Style f, having an oblong hairy Stigma. The Germen afterwards turns to an obtufe cylwdried Pod g, of One Cell, opening with Two Valves h, including Two or Three*globular kidney-fhaped Seeds 1.

H IS Genus of Plants is ranged in the Firfl Se&ion of Tournefort's Twenty-firfl Clafs, which includes the Trees and Shrubs with a Butterfy Flower, whofe Leaves are either Jingle and alternate, or difpofed in V/horles round the Stalks. Mr. /Cay places it in his Clafs of Trees with a Butterfly Flower bearing Pods, whofe Leaves are fingle. Dr. Linnaeus ranges it in the Third Seftion of his Seventeenth Clafs, which includes, thole Plants whofe Flowers have Ten Stamina joined in Two Bodies.

Fig. 1. SPARTIUM ramis oppofitis angulatis, foliis oppofilisjuhtla^Lin. Sp. Pllint 708° Brown with angular Branches placed oppofite, and awl-mapea Le*v<» placed oppofite. This is the Spartium aquicolosum minimum mantanum tripkyllan Col. J. cphr. St. u 250 n nhin ieaft Mountain Three-leaved Broom. John Bauhn titles it Cmijla radiaia five Jlellans, Bft. i. P- 399-Radiated or ftarry Broom.

This grows' naturally in Italy upon ^ Mountain^, where it is a low flbrubby Plant; but when it is cult vated in Gardens it becomes much exceeds Two Feet and a Half in Flught but Branches extend to a confiderable latent come out by Thefe are angular and pliable, ard always come out by Pairs opposite. The Leaves are trifoliars narrow, and anyl fligged to The Pairs opposite. The Leaves are awl-fliaped: These are also P^{1} " he he Rays Branches, and their Points ip^ad openjike the K y of a Star; from whence John Bauhin gave t the above Title. The Flowers are produced in ^ Spk« at the End of flund Branc^ The yw it jng M ^ Colour, and flapedL ^ End of June and m July, and are Icteded % SorTh^y Podf, which-include Two or Three roundifh kidney-fhaped Seeds, which ripen at the End of August. This humble Shrub makes a pretty Appearance during, the Time of its continuing in Flower -, fc^eferves a Place in every good Garden.

Figi&JiP^iSTA, Lin. Sp. Plant. y66. Genifiella, Tourn, Inft. R. 11*646. Tab. 413. Raiijfrteth. 162. ______ Broom.

The Characters of this Genus are,

The Empalement of the Flower is fmall, tubulous^ and of One Leaf a, almost divided into Two Lips: The upper Lip . is deeply cut into Two narrow Segments b, and the under into Three equal Segments. The Flower is of the Butterfly Kind: The Standard is oval, acute-pointed, and is remote from the Keel-, the Wings are oblong, fhort, and loofc; the Keel is and indented at the Point: It has Ten unequal Stamina H m z, which arifefrom the Keel, and are joined in Two Bodies, terminated by fingle Summits; and an oblong Germen, fupporting a fingle rifing Style b, crowned by an acute Stigma c. The Germen afterward turns to an oilong* turgid Pod g, with One Cell opening with Two Valves h, including Three or Four roundish kidney-shaped Seeds i.

This Genus of Plants is ranged in the fame Clafs and Sedtion of Linn'us's Method as the former; from which he feparates the Plants of this Genus, becaufe the Empalement of the Flower is deeply divided into Two Lips> which are cut into acute Points, and the Standard of the The Specie here reprefented is: A+r4&-* \sim 7 are jointed, and conftitutes a Game by the first species of the species of th

The Specie here reprefented is,

GENISTA ramis ancipitibus articulatis, foliis ovato-lancec-^is, Lin. Sp. Plant. 708. Broom with jointed Branches boch Sides alike and oval fpear-fhaped Leaves. This is the Genifta herbaceafive Chamafpartium, J. B. '• P- 393; Herbaceous or Dwarf Broom. Cafpa'r Bauhin titles it Cham<e-Genifta fagittalis, Pin. qqc Dwarf arrow-fhaped Broom.

This Plant has flat joint. herhaceous Stalles, which dat on the Groun A and divide into many Brancises. of the fame Form, which are garnifhed with oval fpe fhaped Leaves, about Three Quarters of an Inch long and half as much in Breadth in the Middle, drawino- to a Point at each End: They are of a deep green Colour, and fmooth. The Flowers terminate- the Branches in loofe Spikes: They are of a bright yellow Colour, and fhaped like the other Butterfly Flowers: They appear the Beginning of July, and are fucceeded by oblono- flat Pods containing Three or Four roundish kidney-shtped Seeds, which ripen in September. bThis his asperennial Plant, which thrives well in the open Air in E^{\prime} land.

Ths Storax-Tree. i₅6.Lm. Gen. Plant. 527-

The Characters of this Genus are,

indentedZtlyin Bve Parts at the Brim: * " * LIY. .

STYLAX Conw bill R H. 598 Yab. 369- Rati Meth. funnel-Jhaped, having a very fhort Tube, no longer than the Empalement, and is cut above into Six or Seven large fpearfhaped Segments b, which fpread open. It has Nine or Ten j ^ o rt ere£l Stamina, placed circularly, which are joined at *ru, v^nh^nt of the Flower a isfljort, cylindrical, and their Bafe, and are inferted to the Petals, terminated by ob~ The Flower is long ereli Summits c, and a roundifh Germen d fupporting a

"T^HIS Genus of Plants is ranged i:. J[S'.rtion of •Tourtujcrt's Twentieth (•<ttd Shrubs *xilh a Fkwer <,/ Oi Pdntal turns (a a l i d Seeds. Mr. Ray places ic among the Trees nnii Shrnos which brar Berries including feveial Setds j^^^ it in the Firll Se^ion of his WmmmR3?.kt which in-B -aiiw/i /-•/•.. MilimtHfitamina M ,11 *, ;;'

The ntcd is,

\$TYK.AX, lint. Cliff. The Sronix-Tref. Tliis 5/jra* /«/w -• . C i'. P. 452- Storax with a Quince-tree Leaf; ami the fi^ran arbcr, J. I 34t. Scorix-Tree.

This Sliri::1 of Rame]\ and alib 'mfaUftine, in in the r.-

This is a low ftirubby Tree, whofe Stalk is . iding out many

fonder & ! ::t;d by a truncated \$ligaa f 5
mix afterward turns id e retmdijh BUT:

**t Cell k, with 3. fmooth grey Uirk, and are garnifhed with ovul
Leaves about Two Inches long, and One and a Half broad, of a! in their upper Side, but ced alternately, ft; irt Footftaiks j and their Edges are
are produced in L in iliort Foos
which (prifig from the Vings of the Stalk: Thefe branch into Five or Six fmaller, cae'i fuftaining One white Flower having Ont Pel ply cue long er-ett yellow Srinil: iipporting n (lender rowned by a r(>un}i S tigm a. The GcrtDe n ivaid turns to
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• Berry with ?. flclliy Covering,
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• he fa hich eoiitains
••ac, but

> -.viiich is from Turkty, but is To adulterated witli Dirt, that it is very difficult to rne:t wit! is pure. It has 3 mod pica fan r and is called Stjrex Co--. because it was brought over in hollow Canes.

Tacamahac Tree;

The Charaflers of this Genii- arc, to be Abile and Hermiteryale process upon the Jea.
True. The Main Facuers a we produced in Our affect to equend opening Keetin. There is One Fagor under end Scale. The Scales are study flaged, and the enter Fine palement of One Last c, around the Tan Peris, while a great Number of flori Stamma d., surped in Lamb, which are true said by leaded Summits a. The Mirrorfordist Paners, which are produced at proofs Delawer from the Atoly on the face Tree, are displied to look Kartier p. The Empirorem of the Forces t organishing, and would not the Editor. They have no Public, for home from Stoman king which are torminated by presented Streeter. Grove Supports a large Syste I, which is around by in ib-tack laying in . The Grown often and tonis to an obling enceptated Captain, con particular.

J! is included in D ci Pnphrs, •• !"E SS thr i

is, and placed in the I hich inch::!" thofe

This Tree is a Native of Genda, and fome other Refill w.'us trough to starter, and used to Medicine. It is doubted worther force are not Two Species of this Tree, this of which grows naturally at Merce. The Resing this Tree was been plus over in sky Lumbs, and the True growing in County cases over in Sheller, and which is very short. Upon the Top to placed the Petal was forestly, of One Texture, and in Colour like according to turn, or the Employment, according to

TACAMAHACA, C.B.P. 4.SjH\forall ?15^m > h1 if lighter, and of a pleafant

The last section of the lift of • propagated ; an; as a LVefent, by V eere fent from thent • Trees was by ti=u i luter and the late This has pred
, but till this

By the Growth of this The in Europe, it feetns r.ot ; for that \ is not more than Sixteen Igh, and the Seem is not larger th-in the Calf of

Igh, and the Seem is not larger th.-in the Call of the lame /.

Black Poplar • VL much the lame /.

thoie of i ree: They Inches

The lame Inch under Side I i

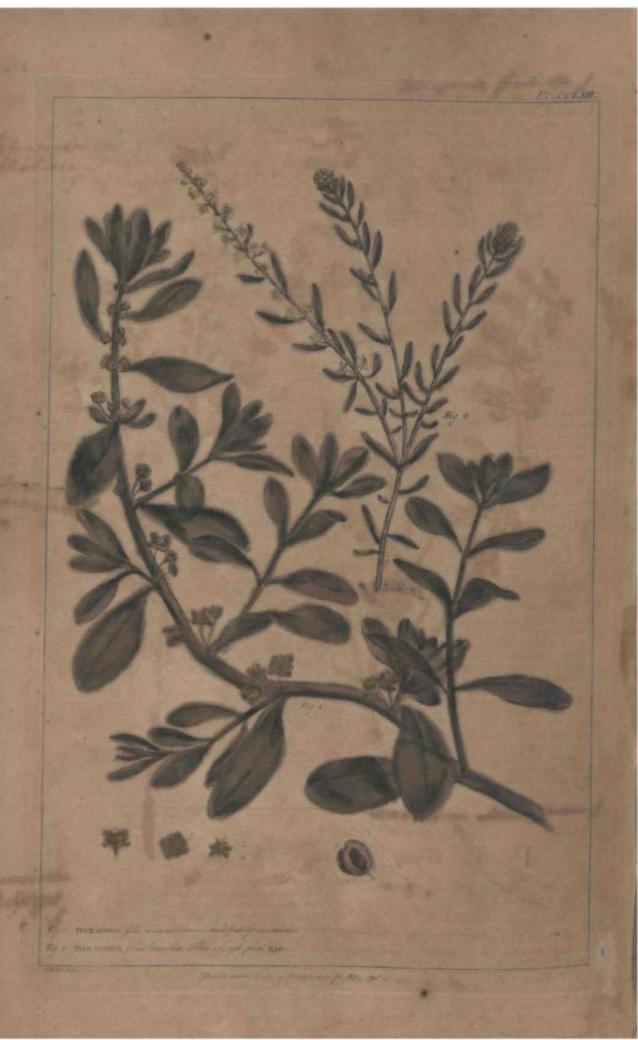
The Hermanituality Floriers are produced at the of the Shoots, upon long females Feotificials, in this Tree was beengthe over in dry Lumbs, and as is reproduced at 5, which is next, and proves from







A THE PARTY OF THE



other Botanifts, which is of One Piece, fhaped hkea wide Cup, having a large Style in the Center and Two Stamina on one Side, which are terminated by pyramidal purple Summits. Thefe Hermaphrodite_Flowe appear in July, and are fucceeded by oval Canute ter minated in a Point, inclofing downy Seeds Covers of the Buds of this Tree abound with a tenaciou Balfam or Turpentine in the Spnng, which becomes liquid by Heat. It is of a yellowifh Colour, and fragrant Scent.

agrant Scent.
In the Gardeners Visionary t h s T i t t J P ^ *t Genus of Poplar, to which, by its Male Floweis,

feemed to belong; but fince the Hermaphrodite Flowers have appeared, which fliew it is not of that Genus, nor of the Class in which that is ranged; fo I have at pre-, fent applied the Indian Title to it, as the Refin of the Tree has been many Years called by that Name in the

It does not appear that this Tree has been long in France -, for Monfieur Du Hamel, in his Book of hardy Trees and Shrubs, mentions it to have been lately planted in the Gardens there; where it had fupported the Winter in 1754, which had killed many other

* 5 T >> 5. Gen. Phot. 337. Tagarifon, Tagarife, Fall Meib. Plant. 158. Tagarife;

in French, tomans.

The Curate of the Genus are, f in the string of the Fleer into Five legitude are elsewhere f in the sequence f in the s Specie there are Eve, «*'*£*% Zs an acute-pointed terminated by roundf S u m r m n de. ^is crowned

Values, filled with feasil Seeds

crowned -with a feathery Down.

^ HIS Genus of Plants^ g g f ^ Judy I Section of Urnueu s &&" $^{\land}_{md\ fhree\ F}e^{2}$ t 1 4 Plants 'Whale Fo^rshave $f ^{\land}_{A} = ^{n}_{dlx}$ to his *?:££'• $^{\land}_{Tut}$ Lf Places * among his Mifcella- $^{\land}_{Tree}$'s and Shrub $^{\land}_{g}$

The Species here reprefented are;

Mark Cliff 11th Plower. This Car. 218. The Fig. t. Tanarix feriles pena Tamarijk with a narrower Leaf, or Freeh Tamarijk.

Tamarijk with a narrower Leaf, or Freeh Tamarijk.

Tamarijk with a narrower Leaf, or Freeh Tamarijk. Tamarille with Five Mar Part

This Tree grows naturally in the South of Finus, in Stairs, and Easy, where it rise to a madell at Stature; again, ann tray, where it is a familiar in the state of the first train in Six-bic in Equation in Feet high. The Bernier came of the state of a dark brown flender, and creatly decline: They e-ery Side, are flender, and are garnifhed with it we which are finely cut into many kyry to

E

Segments. The Flowers are produced in clofe taper Sptkes* which come from the Side of the Branches toward their upper Part: They are very fmall, of a whitifh Colour, with a Blufh of Red on the Infide of their Petals, as is reprefented at/, Fig. 1. The Flower / is about the natural Size. That at a and b is magnified, to (hew the Parts more diftinft. The Flowers of this Specie have but Five Stamina, which are terminated by roundifli red Summits. The Flowers appear in July, and there is generally a Succeflion of them on the fame Plant till Autumn.

The Wood, Bark, and Leaves, of this Tree are ufed in Medicine.

Fig. 2. TAMARIX floribus decandris, Hort. Cliff, in, Tamarifk with Ten Male Parts in the Flower. This is the Tamarifcus Germanica^ Lob. Icon. 218. German Tamarifle. Cafpar Bauhin titles it Tamarix fruticofa, folio craffiore^ Jive Germanica, Pin. 485. Shrubby or German Tamarifk with a thicker Leaf.

This grows naturally in moift places in Germany^ and is rather a Shrub than a Tree. It generally rifes with many woody Stalks from the Root, which grow more eredt than those of the former. They have a fmooth pale-green Bark when young, hwhich afterward changes to a yellowifh Colour. Thefe fend out flender Sidebranches, which grow ered:, and are garnifhed with pale-green Leaves placed alternate: Thefe are fhorter and clofer than those of the former; and the fmall Leaves of which they are composed appear like Scales at a Diftance, and lie over each other like those of Fifh. The Flowers terminate the Branches in long loofe Spikes: They are larger than those of the former, and have Five fpreading Petals of a Blufh-colour; and within are Ten Stamina, Five of which are alternately longer than the other: Thefe adhere to the Bafe of the Petals, as is fhewn at d, where they are magnified; the Figure a being the natural Size of the Flower. This Sort flowers at the fame Time as the former. •

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Gen. Plant. 55i- fetragonecarpus, TATRALOWIA, Lin. Com. Hert. Appl. 2- 205.

the styles of the fame styles of the fame styles, the styles of the fame styles of the fame styles, the styles of the fame afterward turns to a foar-corned Capfule in the styles, the styles of the fame styles, the styles of the fame styles of the fame styles, the styles of the fame styles of the f has no Petal,

more than Twenty floort Jlender Stamina^frowned by oblong proflrate Summits c. // has a roundijh Germenfituated under the Flower\ fupporting Four awl-fhaped recurved Styles d, cfhe Germen afterward turns to a foar-corned Capfule > with *The Species here reprefented are,

Tig. i. TETRAGONIA foiiis ovatis integerrimis, caulefruticofo decumbente, Diff. Hort. Tetragonia with oval intire Leaves, and a fhrubby trailing Stalk.

THIS Plant grows naturally at the Cape of Good Hope. The Stalks are thick, and very fucculent when young, but afterward become ligneous: They are as thick as a Man's little Finger -, but, if they are not fupported, they trail upon the Ground. The Leaves are oval, thick, and fucculent: They are Two Inches long, and One broad; and are for the most part placed oppofite. Thefe, and also the young Branches, are covered with fmall pellucid Drops. The Flowers come out from the Wings of the Stalk, each ftanding upon a (hort flender Footftalk: There are Two, Three, or Four,, of thefe rifing from the fame Point. They have Four yellowifli green Leaves, which fome call the Empalement, and others the Petals: Thefe fpread open, and within are fituated a great Number of fhort yellow Stamina, terminated by oblong proftrate Summits, One of which is reprefented at a. The Flowers appear during moft of the Summer Months, and are fucceeded by thick flefhy Capdiles, having Four Corners or Wings, inclofing One hard Seed.

Fig. 2. TETRAGONJA foiiis llnearibus; Flor. Leyd. Prod. 250. Tetragonia with linear Leaves. This is the Tetragonocarpos Africana, fruticans, foiiis longis & anguftis, Hort. Amft. 2 p, 205. Shrubby African Tetragonocarpos with long and narrow Leaves.

This is also a Native of the fame Country with the former, but has been much longer in Europe. The Stalks of this are flender, and when young are fucculent •, but afterward become ligneous, and have a whitifh Bark: Thefe divide into many Branches, which trail upon the Ground if they are not fupported. They are * garnifhed with narrow fucculent Leaves, an Inch long, and Half a Quarter of an Inch broad: They are placed alternate, and have no Footftalks; and are covered with pellucid Drops, like those of the former Sort. The Flowers are produced from the Wings of the Stalks, towards the Top, and terminate the Stalks in loofe Spikes, ftanding upon very fhort Footftalks. Their Structure and Colour are the fame as" those of the former Sort, but are fmaller; and are fucceeded by Capfules of the fame Form. This Plant flowers great Part of the Summer, and in warm Seafons the Seeds will ripen in the Autumn.

CLXIV.

TEUCRIUM, Lin. Gen. Plant. 615. Cham < edrys, Tourn. Infi. R. H. 204. Tab. 97. Rail Meth. 60. Germander j in French, Germandree.

The Characters of the Genus are,

Tube is very fhort. The lower Lip c is divided into Five Four Stamina, which occupy the Place of the upper Lip d, Summits; and a four-pointed Germen, fituated in the Empalement b, fupporting a flender Style e, e, crowned by a flender Stigma f. The Germen afterward turns to Four Seeds g, which ripen in the Empalement.

THIS Genus is ranged in the First Section of Linnxush Fourteenth Class, which includes those Plants whose Flowers have Two long and Twoshorter Sta- Fig- 2, TEUCRIUM foiiis ovatis, superne strrato-dentatis, mina, and the Seeds ripen in the Empalement of the Flower. Tournefort, who keeps thefe Plants under the Genus of Cham < edrys, places it in the Fourth Seftion of his Fourth Clafs, which contains the Herbs with a Flower of One Petal, having One Lip. Mr. Ray places it in the First Section of his Fourteenth Clafs, which includes the Plants with whorled Flowers, which have perennial ligneous Stalks.

* The Species here reprefented are,

Fig. 1. TEUCRIUM foiiis multifidis, fioribus verticillatis utrinque ternis, Lin. Sp. Plant. 562. Germander with many pointed Leaves, and Flowers in Whorles, Three on each Side the Stalk. This is the Cham*drys laciniatis filiis, Lob. Icon. 385, Germander with cut Leaves. Cafpar Bauhin titles it Botrys Chamadryoides, p. 138. Jerufalem Oak-like Germander.

The Title of this Plant on the Plate was, by Miftake, transposed from another Figure, and printed off before it was observed by the Author •, and he therefore hopes The Empalement of the Flower a is of One Leaf, cut the Reader will alter it. This Plant grows naturally into Five equal acute Segments at the Top, and is permanent ^ t u M H ^ r ^ a T i ^ n d Germany, on arable The Flower is of One Petal, and of the Lip Kind b. The Xanfc It is anftual, and Tecay? foon after it has perfected Seeds. The Stalks are four-cornered and hairy: Segments, the middle one * being hollowed like a Spoon. It hashey rife a Foot high, and are garnifhed at every Joint by Two hairy Leaves placed oppofite, which are cut Two of which are longer than the other, terminated by fmall into Three Segments almost to the Midrib, and these are nightly indented in Three Parts. The Flowers ftand in Whorles round the Stalks, Three rifing together on-each Side, ftanding upon (hort Footftalks: They are of a pale Blufh-colour, and fhaped like thofe of the other Species. It flowers in June and July, and the Seeds ripen in the Autumn.

> fiorbus racemofis, Flor. Leyd. Prod. 307. Germander with oval Leaves pointed at both Ends, and indented like a Saw at their upper Part, and branching Flowers. This is the Chamadrys multiflora\(^tenuifolia\) Hifpantca, Tourn. Infi. R. H. 205. Many-flowering Spanish Germander with

grows naturally in Spain. It has Tperential lig neous Stalks, which rife a Foot high, and are ereft, fending out flender Branches from the Side. The Leaves are oval, and fmooth on their upper Side, but hairy on their under, and end in fharp Points: Their upper Part is fawed. The Flowers come out in branching Whorles round the Stalks: They are of a bright red Colour, and appear in June, July, and Augufi j and in warm Seafons the Seeds will ripen well in England.









Colored by a to office on light . Her . Special stays a

P L A T E CCLXV.

THALICTE-UM, Tourn. Inft. R. H. 270. Tab. 143. RaiiMeth. Plant. 130. Lin. Gen. Plant. 617, Meadow Rue, or Feathered Columbine,

iHIS Genus of Plants is ranged in the Sixth Seftion of Tourneforfs Sixth Clafs, which includes the Herbs with, a Rofe Flower, whofe Pointal becomes a Fruit compofed of feveral Capfules, Dr, Linnaeus places it in the ?^£nth Section of his Thirteenth Clafs,* which contains the Plants whofe Flowers have many 'diftinft Stamina^ and feveral Styles.

The Chara&ers of this Genus are,

The Flower'has no Empalemeni: It has Four roundifh Petals a, /ryhich are concave, and drop offfoon b, and many Stamina 'which are broad, comprejild, and longer than the Petals, terminated by oblong twin Summit s^ with feveral Jhort Stylesj each fitting upon a feparate Germen, and are crowned by thick Stigma*s d. The Cover of the Germen afterward turns to a keel-fhaped furrowed Capfule ej having One Cell f, opening at the 'top g, inclofing One oblong Seed h,

The Plants of this Genus differ from each other in fome of their Chara&ers; for although moll of the Species have but Four Petals to their Flowers, yet ther> are Two or Three which have; Five: Others differ in the Number of their Stamina; and there is One or Two which have Male and Female Flowers in different Plants,

The Specif here reprefented are,

Fig. T. THALICTRUM' fruftibus pendulis triangularibus refiis, caule tereti\(^\) Lin. Sp. Plant, 547. Meadow Rue with triangular pendulous Fruit, and a taper Stalk. This is the ThaliBrum majus filminibus florum pirpurafcentibus, C. B. P. 337. Greater Meadow Rue With purple Stamina to the Flowers. Tournefort titles it Thalitrum Alpinum aquilegi\(^\) e foliis, florum fi aminibus purpurafcentibus, Inft. R. H. 270. Alpine Meadow Rue with Columbine Leaves, and Flowers with., purpiyh Stamina, commonly cajled Feathered Colum-

This Plant grows naturally on the Alps tod Helvetian ^ytjAbeenJon^cultJYaced in the English gardens, ibrO?fi^n?eht7*8 ffnrorofefr^Sbrally known by the Title of Feathered Columbine^ which was given it from the Refemblance which the Leaves haue to those of Columbine; but as the Petals of the Flowers foon

dropped off, and the numerous Stamina were left without Cover, fo they called it *Feathered*.

There are Two Varieties of this (if not diftindt Species), which are common in the Gardens -, One of which has purple Stalks, and pale purpliff Stamina to the Flowers, which is here reprefented •, the otlier has green Stalks and whitiff Stamina to the Flowers -, but whether tkefe are accidental Varieties, or diftin£t Species, I cannot determine.

The Root is composed of many flefty Fibres of a yellowifti Colour. The lower Leaves are branched into feveral Divisions, and have broad Lobes of a lucid green, refembling those of Columbine. The Stalk is taper, smooth, and of a beautiful purple Colour: It rises about Three Feet high, branching out on the Side, and is terminated by a loose Panicle of Flowers, which have each Four Petals; these foon fall off, leaving the numerous Stamina and Styles naked. These Flowers appear in June, and are succeeded by thin Capfules, each containing a fingle oblong Seed, which ripens in August \, after which the Stalk dies to the Root, which is perennial, and fends out new ones the Spring following.

Fig. 2. THALICTRUM fioribus pentapetalis, radice tuberofa, Hort. Cliff. 227. Meadow Rue with Flowers having Five Petals, and a tuberous Root. This is the Thalitrum minus afphodeli radice^ magno flore, Tourn. Inft. R. H. 271. Smaller Meadow Rue with an Afphodel Root, and a large Flower. The Author of the Hiftoria Lugdunenfis titles it Oenanthe My com 5 763. Mycoriie's Water Drop wort.

This Plant grows naturally on the Mountains in Spain. The Root is composed of feveral fleshy Fibres, like those of the Garden Ranunculus. The Stalk is {lender, and rifes about a Foot high, or fomewhat more, in moift Ground: It fends out One or Two Side Branches, and is garnifhed with Three or Four compound Leaves at the Joint, whofe Lobes are tnoft of them roundifh, and indented at their Points, in Three Parts: They are of a light green Colour. The Stalks are terminated by fmall Panicles of Flowers, which have each Five white Petals, reprefented at a: Thefe foon fall off; but within are a great Number of Stamina by which are of a yellowifh Colour -, and. Between thefe are feveral fhort Styles, crowned by obtufe Stigmas c. Thefe Flowers appear in June, and are fucceeded by thin Capfules, each inclofing One oblar.g Seed, which ripens in the Autumn.

P L A T E CCLXVL

TORDYLIUM, tfourn. Inft. R. H. 320. Tab. 170. Rail fylcth. Plant. 47. Lin. Gen. Plant. 293. Hartwort.

THIS Genus of Plants is ranged in the Fifth Sedtion of Tourneforfs Seventh Clafs, which includes the Herbs with umbellated Flowers difpofed circularly, whofe Empalement becomes Two large oval flat Sedds. Mr. Ray places it in the Firit Section of his Eleventh Clafs, which contains the Plants with umbellated Flowers, bavin' flat Seeds with Wings or Borders, Dr. Linnaus NJMB.XLV.

ranges it in the Second Se&ion'of his Fifth Clafs, \phihit includes thoje Plants vihofe Flowers have Five Stamina aid Two Styles.

The Characters of the Genus are,

// has an umbellated Flower: The general Umbel a is composed of many finall ones b, which are called Rays; Neither of these have any Involucrum. The Flowers havs Five inflexed Petals c, which are equal: They have each Five Z s

LATE CCLXV.

TUALI -urn. Inji. R. H. 270. Tab. 14,3. Bmi A&tb. Plant.] 30. Lin. Gen. Plant. 617. Meadow Rue, or Feathered Columbine,

HIS Genus of Planrs is ranged in the Sixth Section of Toarxefsn'i Sixth Clafs, which includes the Serbs •with a Siefe Flower, isbafe Potutal becomes a Fruit tempoftd of fever al Cap/ales. Dr. Liimsus places it in the Smjgnth Sefliun of his Thirteenth CJaiv which contains the • fs Flowers ba ' dijl'mi't Sttumna, and Jemeral Si_____

The Characters of this Genus are,

B& Flower'has no'Smpalemmt: It has hour rcuniijh Pen:: «re concave, and drip cfffioti b, and many Stamina c; which are head, comprepd, and longer than the Petals, terminated by oblosig twin Summits, with Jhveral Jbort Styles, each fitting upm a fipirrati Germtn, and are

CTK:
CTK:
Capfule e, baling
One Cell f, epmitig

capfule a capfule capful capf

The Plants of this Genus differ from each other in fome of their Characters; for although mod of the Species have but Four Pctais to their Flowers, yet ther> i'v/o or Three which have Five: Others difii. the Number of their Stamina; and there is One or Two which have Male and Female Flowers indifferent Plants,

The. Spccft(here reprefented are,

i. THAI.ICTS.QM frulVthns pmdttlis triangularibus tereti, Lin, Sf>. Plant.;

• This is the TbaJiiTram majus titbits, C. B. P. 337. Greater Meadow Rue purple Stamina to the Flowers, 'fckrnefort titles.

a&Srum Alpimtm ap&legia feliis, fitrmifim»mha Lift. R. If. 270. Alpipe Meadolfs

common!

This Plant grows uati:-. I've and the MAN and MAN And ssfcmLjjjte^9 p J ggg^cui t i i* •. •

by the • to those of Coltiinbine; but as the IV

dropped off; and the numerous Stamina were left without Cover, fo they called it Feathered.

There are Two Varieties of this (if not did in ft: Species), which are common in the Gardens; One of which has purple Stalks, and pile purpiifh Sratpina to the Flowers, which is here reprefer the circ has green Stalks and whitift Stamina to the Flowers; but whether theft are accidental Varieties, or diffinct Species, I cannot determine.

The Root is compofeti of many flefhy Fibres of a yellowifh Colour. The lever Leaves are branched into feveral Divifions, ar,d have bread Lobes of a lucid green, refembling tkofe of Columbine. The Stalk is tiper, fmooth, and of a beautiful purple Colour: It rife about Three Feet high, branching out on the Side, and is terminated by a loofc Panicle of Flowers, which have each Four Petals j thefe foon fall off, leaving the numerous Stamina and Styles naked. Thefe Flowers appear in June, and are fucceeded by thin Capfulcs, each containing a fingle oblong Seed, which ripens in Auguil-, after whiicli the Stalk dies to the Root, which is perennial, and fends out new ones the Spring foliov.i

Fig. 2. THALICTRUM fiaribxs pentapetalis, radice tuberofil, H&I. Cliff. 227. Meadow Rue with Flowers havii.; ils, and a tuberous Root. This is the TealiSrum minus cfpbodeU radice, magno fieri, tfoxrn. Inji. R. H. 2-ji. Smaller Meadow Rue with an Afphodel Root, and a large Flower. The Author of the *Hijioria Liigduaetijii* titles it *Oea* 7G3. Mycoriie's Wnier Dropwort.

This Plant grow.; naturally on the Moun:;; Spain. The Rout is coi like those of the Garden Ra'Aumuhis. The Stalk is (lender, and rifes $rac{3}{2}$ r fotnewhst more, in moift Ground: It fends out One or Two Side Branches, and is:

n¹ compound Leaves at the Joint, whofe. them re tr Points, i ght green Ci d by fmaif Panicles of Fi 1 have each Five white Pe foun fall off; but within are a greac Nui raina b, which are of a yellowilh Co thefe are (hycral fhort Styles, crowtt.Vd b; mas. c. The.lt: Flowers appear in June,

by thin Capfules, each indofung Seed, which ripens in the Autumn,

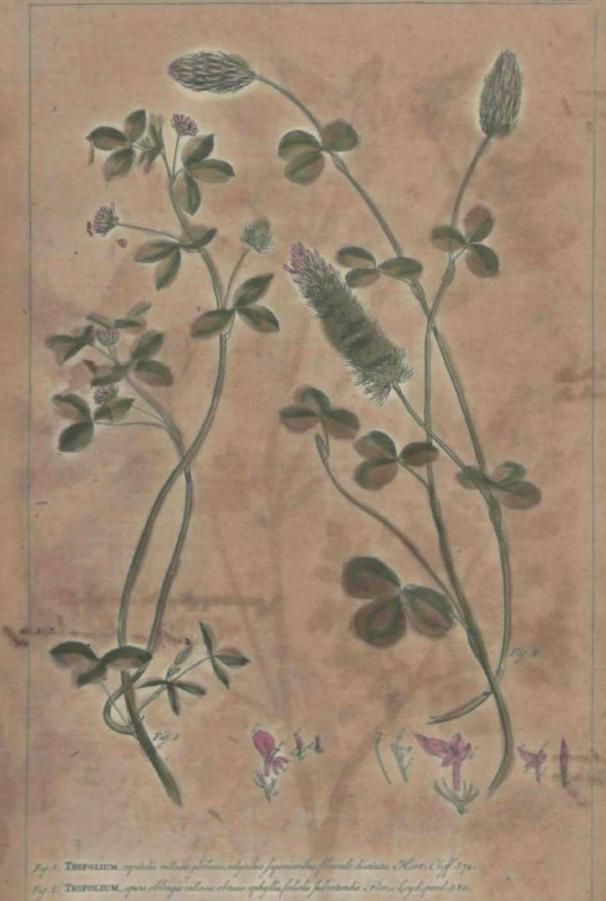
b. Plant. 47. Lin. Gt:. j. Harcwort,

« - ^ H I S Genus of Plant's is ranged in the Fifth ScTCion of *Toarmfert's* Seventh Clafs, which includes the difpofii circularly, ivboft ixt becomes Tv?o large c: Mr. Kay ices it in the Firit Section of his Eleventh Clafs, ontaints the Pki imbeUattd Fiewert, vilb things ;, •

rutfM, Towrn. hijl. R. II, 320. Tal>. 170. R in Plan, -.,•! Five Stem:

The Characters of the Genus are,

It has an umbelfattd Flower: The gtner compsffd- of many fiueil 01m h,
Neither if theft ha: '.cr»m. 'The Flywers have
1-YC !!\$:".<.d P





CLXVIII.

Gen. Pmt. 338.

HE Title of this GCJIUS was given it by Father v/ho found One Specie growing natuin the *IVeJI India*, in Honour r, a very learned ;i!toiy of Plants in E : Figures for the <JJJ:. bfas's Hiftory.

**s I liird Se&ion

**s I liird Se&ion

**s I liird Se&ion

** Ftm&U Parts.

C3". ::*nit\$ are,

of One Leaf a., 4 into hut has Two oblong Paints. The :a'.s b, which have and the second of the tent and the line and the second of v mferted la tire Empa'ement d, and tomb It has a conical' • Three fiender Styles f, •which ar ending, in many Paints. The Germen afterward ith One OH g, which i_f\-iui; the
• ds ii.

abtufe
To with narrow and ei trutva lycopi folia, and et in a prophysical in a rer Horchound in the state of the state o Flower[^] at the language.

The Plant grows named by it many of the Id indo in It rifes with a woody Stalk to the Height of

i Plum. Ntv. Gtn, Plant. 15. "Tab, 12. Lin. Eight or Ten Feet, covered with a dark brown Bark; and fends out Branches on every Side, the whole Length: Thefe are garnilhed with narrow fpear-fhaped hairy Leaves, about Three Inches long, and Three Quarters of an Inch broad in the Middle, drawing to a Point at both Ends: They are bluntly fawed on their Edges, have very Ihort Footftalks, and, when rubbed, emit a difagreeable Odour, The Flowers are fattened to the Footftalks of the Leaves, to which they fit very dofe, and have Two leafy Appendages to their Empale me nts: They are composed of Five large heart-fhaped Petals of a pale yellow Colour, whose Bafcs are narrow, and are inserted to the Empalement: They fpread open, as is reprefented in the Figure. When the Flowers fall off, the conical Germen jwdis to a three-cornered Capfule, fitting between the Two leafy Appendages; and when the Seeds are ripe, it opens in Three Valves at the Top, and difchargsis the Seeds. It flowers great Fart of the Year •, and the Seeds ripen all the Summer.

> Fig. 2, TL*RNERA fcliis wato-lanceolatis, ferratis rttgojis, P. Hart. Turners with oval fpear-fhaped Leaves, which are rough attd fawed on their Edges. This is the Turnera frutefcens ulmifdia, Plum. Gen. Nov. 15. Shrubby Turners with an Elm Leaf.

> This has a (hmbby Stalk like the Firfr, and rifta to the fame Height; It is also branched on every Side from the Ground upward •, but the Branches are (lender and ft iff. The Leaves are oval fpear-fhaped: They are Two Inches and a Half long, and alrnoil Two broad, in the Middle, having feveral deep Furrows; and are rough on their upper Side, of a lucid green Colour, but are pate on their under; They are fawed on thuir Edges; and have longer Footftalks than thole of the former Sort. The Flowers are very like thoie of the former, and fit close on the Footftalk of the Leaf. The Segments of their Empalements are broader than thofe it First Sort, as is (hewn at m-, but, in other Refjic&s, the Two Sorts are fo like, as that many Botanifts have fuppofed they were the fame Specie. But the Differences before-mentioned are conftant from S fo there can be no Doubt of their being diftinc! Specks.

THE General Concerns in ranged in the Eirhth \vemy-rirft Cbis, which whefy it fVo;i

s which are the Cells; and the Maritice s the Crategui from the Mefpitus under Cratagas, thole with ve he places hisSyftem, the Plant placed under the 1 • -11, Profesior of Botany

S H. 633 Pyrm, Lin. Gen. at Peterjlurg, has ranged it under Crat.tgvj, Ib I have followed htm, though the Chirafters do not agree well with those of either Genus.

The Characters of Cratsgws, according to LIUH^US,

The Flevstr has an Empakment of One Leef ... tcave, and cut into \ nil at /he 'J'if, permanent: Ii hasFiix rtmndtfh amtswePetals h are ixferted in the Evtpalimint, and 'I fbapd Stamina c, which are injected to the topy demtxt,)ermi~ anted by reundift S b isfiluated is there are Fr tmed by treii-btadtd Sutmmts. The Gcrmeh afterwards becomes a roundijb ftejhy umliilicated Fruit e, with Two ehlong hard Seeds (in this tbtrt are Five) f, lodged: • 'ifiinli Cells.

The Specie here reprefented is,

CRATJEGUS cerafi folio, fioribus magnis, Amman. Ruth. 274. Wild Service with a Cherry Leaf, and large Flowers.

This Tree grows naturally in Siberia, from whence the Seeds were lent to Peterfburgh, by the following Title, Mains Daurica monta?ia magno fore albo, fruftu cercfi exiguo, luteo ex rubro variegato, auftero, petiolo prtelongo tenui. i. e. Mountain Apple of Dauria with a large v/hite Flower, a fmall Fruit Jike a Cherry, of a yellow and red Colour variegated, having an auftere Tafle 3 and a long {tender Footftalk.

It has a ftrong woody Stem, fending out many Side Branches, covered with a fmooth brown Bark. The Leaves are lhaped like those of the Cherry-Tree: They are of a deep green on their upper Side, but are paler on their under •, and are (lightly ftwed on their Edges, (landing upon long Footflaiks. The Flowers come out in Bunches from the Side of the Branches, Handing upon long (lender Footflaiks: They are composed of Five oval white Petals, in Shape like those of the *Pear-Tree*,

which are inferted in the Empalement; and have $v\pounds$ Number of Stamina, about Half the Length ci^tf j tals, terminated by roundifh yellow Summits; and Styles rifing in the Center, which are as long a Petals, crowned with headed Summits. Thefe JKk appear in April, at the fame Time as those of the / Tree-, and are fucceeded by roundifh Fruit, abo. Size of large *Duke Cherries*, which change to a yell Colour variegated with red, indented at both End¹ an Apple; but of a very auftere Tafte \ decaying hi Fruit of Medlar, and is then more palatable; hi Five hard Seeds lodged in diffinft Cells. This has been by fome intituled Cerafo-Mali, and by < j *Malo-Cerafi*, from the Refemblance which ijiepru to both. But it is certainly much nearer fi-kin to Apple, than any of the other Genera, though tie Flow? are more like those of the Pear-Tree.

As the laft Summer this Tree produced it's Fruit the *Chelfea* Garden, for the Firft time, fo majny of t Subfcribers to this Work defired a Figure of \(\forall \) might exhibited therein, though it was not inferted in the Ord which we firft propofed.

$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E} \ \mathsf{CCLXX}.$

RḤUS, Lin. Gen. Plant. 331. Cotinus. Tourn. Inft. R. H. 610. Tab. 380. Raii Meth. Plant. 158. Venice Sumach; in French, Fujtet.

In HIS Shrub is by Dr. Linnaeus placed in his Genus J^ of Rhus; but, by former Botanifts, it has been kept in a feparate Genus. It is ranged in the Third Se&ion of Linnaus's Fifth Clafs, which includes thofe Plants whofe Flowers have Five Stamina and Three Styles. Tournefort places it in the Firft Section of his Twenty-firft Clafs, which contains the Trees and Shrubs with a Rofe Flower, whofe Pointal turns to a Fruit with One Capfule. Mr. Ray places it among his mifcellaneous Trees and Shrubs.

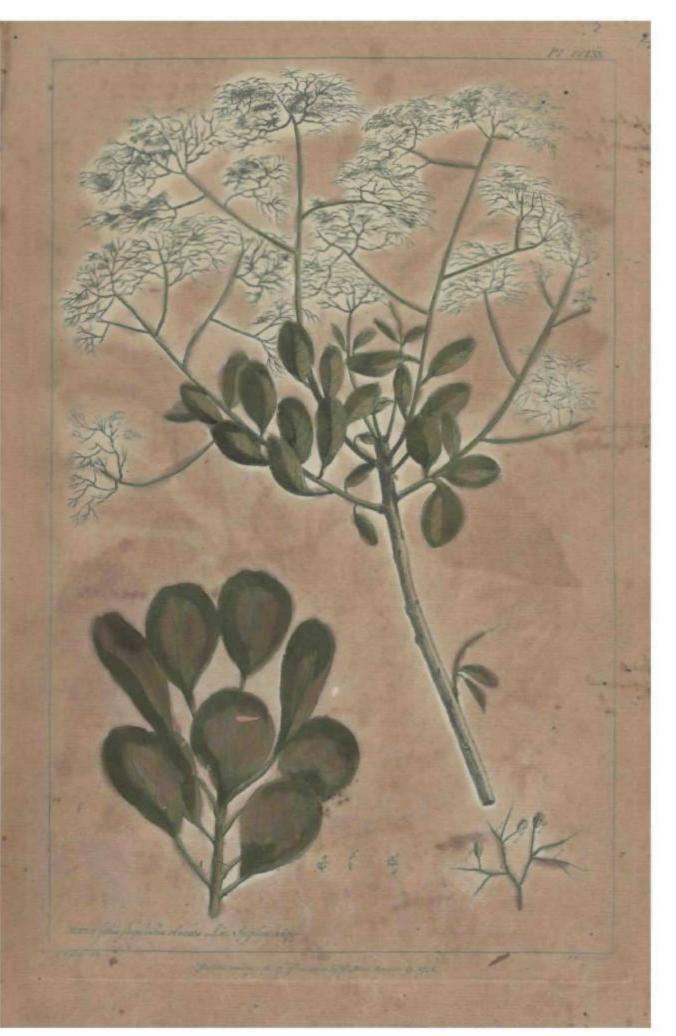
The Characters are.

* The Flower has a permanent Empalement, divided into Five Parts 2L\ It has Five Petals, which fpread open c; and Fivejhort Stamina, crowned by fmall Summits. It has a roundiff Germen d, having fcarce any Style, terminated by Three fmall Stigma's. The Germen afterward turns to en oval Berry g, g g. The Fruit fiands Jingle upon hairy Branches f, f, andinclofes One hard Seed b-

The Specie here reprefented is,

RHUS fchu fimplicibus obovatis, Lin. Sp. Plant. 267 Sumach with fingle oval Leaves. This is the Cotini Conarta, Dod. Pempt. 780. Venice Sumach. Joh Bauhn tides it Coccigria Jhe Cotinus putata, Hift. 1 P-4»7- Coccigria or Sumach.

n J; ha rf Vrul lgli? Ws natura% in he South of France, and he kalm but has been long cultivated in his books been long cultivated







VERATRUM. Tourn. Injt. R. H. 272. Tab. 145. Lin. Gen. Plant. 1013. Helleborus albus, Rait Meth. Plant. 77. White Hellebore j in French, Ellebore blanc.

The Chara&ers of the Genus are,

It has Hermaphrodite and Male Flowers intermixed in the fame Spike. The Flowers have no Empalement, according to fome Syjiems, or no Petals, according to others. They have Six oblong fpear-fhaped Petals a, which are permanent. The Male Flowers b have Six awl-fhaped Stamina, which fpread a/under, and are terminated by quadrangular Summits, as is Thefe have no German; but have a withered Style. The Hermaphrodite Flowers have the fame Number of Petals and Stamina as the Male, and have Three oblong Germina fitting upon the Style, which is fearce vifible, crowned by a trifid fpreading Stigma d. The Germina afterward turn to Three oblong erett compreffed Capfules e, which open on the Injide f, having but One Cell g, which includes feveral compreffed Seeds h.

THIS Genus of Plants is ranged in the Sixth Sedlion of Tdcrneforfs Sixth Clafs, which includes the Herbs with a rofe-fhaped Flower, whofe Pointal turns to a Fruit composed of feveral Capfules. Dr. Linnaeus places it in the First: Section of his Twentythird Clafs, which contains those Plants, whose Flowers are of different Sexes in the fame Plant. Mr. Ray ranges it in the Firft Seftion of his Eighteenth Clafs, which includes the Plants with a regular Flower, fucceeded by feveral Capfules.

The Specie here reprefented is,

Sp. Plant. 1044. Veratrum, whose Spikes arc de-

compounded above, and the Petals of the Flower ereft. This is the Veratrum fore fubviridi, Tourn. Infi, R. H. 273. White Hellebore, with an almost green I Flower. Cafpar Bauhin titles it Helleborus albus, flore fubviridi, Pin. 186. White Hellebore with a green-Flo wen

This Plant grows naturally on the Mountains of Auftria\(^\) Helvetia, and Greece. The Root is perennial, and composed of many flefhy Fibres, gathered into a Head at the Top, which ftrike deep in the Ground. JUeaves are of an oblong oval Form •, they are Ten Inches long, and Five broad in the Middle, ending in roundifh Points, having feveral longitudinal Plaits, like those of Gentian. The Stalks rife from Three to Four Feet high, the lower Part being g-irnifhed with Leaves of the fame Form with those below-, but are fmaller. The upper Part branches out in feveral clofe Spikes of greenish Flowers, as is reprefented in the Figure; under each of thefe is fituated a very narrow-pointed fmall Leaf, which is plaited. The Flowers are compofed of Six Petals, which do not fpread open flat. They are of a vvhitifh green Colour, and have Six Stamina, which fpread afunder, terminated by four-cornered yellow Summits. The Hermaphrodite Flowers have Three oblong Germina, which, after the Flower is paflfed, turn to Three compreffed Capfules, containing Ond Row of flat Seeds.

This Plant flowers in June and July; the Seeds ripen in Autumn. It is this Sort which is ufed in Medicine, The Root purges violently upward and downward; for which Reafon it is feldom prefcribed, but in Madnefc, or to Perfons of robuft Conftitutions. The Powdef of VERATRUM racemo fupra decompofito, coroll'is ereflis, Lin. itj mixed with SnuffF, is a flrong Sternutatory,

VKRATRUM, Tourn. Inft. 272. Lin. Gen. 1013. White Hellebore.

FIE Charafters of this Genus having been deicribed above, we fliall not repeat them here.

The Specie here reprefented is,

VERATRUM r a cento fimpliciffimo, corollis patentibus, ft aminibus longioribus. White Hellebore, with a fingle Spike of Flowers, whofe Petals fpread open, and longer Sifemina. This is titled by Mr. John Bar* tram, v.' • jvcred the Plant growing naturally in North 'eratrum fempervirens-, i.e. Evergreen \ bore.

of many Atfhy It has a peicnmai Root, cor Fibres, from which {prins on _..:iil oblong oval ; Leaves of a light >ur, which fpread near the Ground, and fit cioie to the Root at their Bale. They are from Four to Five Inches long; and from Two to Three inches, bioad.in the Middle, leffening at both Ends, where they'are blunt-pointed. They hav€ Six NUMB. XLVL

longitudinal Veins, which appear ftrongeft on their Under-fide* Thefe continue green all the Year. In the Centre of the Leaves arifes a fingle naked Stalk, about a Foot high, as is reprefented in the Figure/and £, which is terminated by a clofe conical Spike of purple or dark-red Flowers, compofed of Six Petals, which fpread. open flat, as is reprefented at c. Thefe have each Six Stamina, which are twice the Length of the Petals, reprefented in the Two Flowers a and c, terminated by oval Summits. They have no Style -, but the Germen is crowned by a trifid Stigma. Some of the Flowers have no Stigma. Thefe are barren, having no Capiule fucceeding them. Others are hermaphrodite^ and are lucceeded by an oval Capfule, reprefented at $d_{\%}$ which has Three feparate Cells, each containing feveral compreffed Seeds.

1 his Plant, on the First Examination, appeared to belong to Linn^eus Sixth Clafs, having Six Stamina in each Flower, and the Three Germina, which feemed joined in One Capfule, which is three-cornered, has the Relemblance to the Fruit of that Class •, but, on nearer Infpeftion, there were found many male Flowers intermixed with the hermaphrodite Flowers in the fame A a a Spike,

Spike, which were not fucceeded by Seed Veffels •, and as this is the principal Character given by Dr. *Linnaeus*, to diftinguish this Genus from those which approach near it, therefore it is here properly referred to ksCiafs, according to its System.

I was iirit favoured with a Plant of this Sort by Mn

Peter Collinfon, F. R. S. and afterwards received a Plant,- with a Drawing of it, made in the Country where it naturally grows, by Mr. John Bartramjunior; and have fince been furnished with more Plants by Dr. Bensel of German Town in Philadelphia, who found it growing plentifully in fliady moift Places.

P L A T E CCLXXIII.

VERBASCUM, .1 >«>,',:. jL'jl. R. IL 146. Tab. 61. Rail Meth. Plant. §5. tin. Gen. Plant. 217. Mullein* in French, Bouillon blanc.

The Characters of the Genus are.

Ji In OV jtr be* ajw''' permanent Empalement a, of Om Leaf* cut into Five Segments at the Top. It has One wheel-Jhaped Petal b, having a port cylindrical Tube, which Js ad into Five large obtufe Segments, fpread open flat. It has Five awlihaped Stamina c, which are Jhorter than the Petals, terminated by roundiff ereft compreffed Summits; end a roundijh Germen, fupporting an inclining Style e, crowned by a thick obtufe Stigma d. The Germen afterwards turns to an oval Capfule g, having Two Cells, which open at the Top h, filled with angular Seeds i₃ which arefaflened to the Placenta.

HIS Genus of Plants is ranged in the Sixth Se&ion of Tournefort's Second Clafs, which includes the Herbs with a wheel-Jhaped Flower of One Petal, whofe Pointal turns to a dry Fruit. Mr. Ray places it in the Third Seftion of his Nineteenth Clafs, which contains those Plants which have uniform Flowers of One Petal, cut into Five Parts to the Bottom, and the Seeds are included in a Capfule with Two Cells. Dr. Linnaus ranges it in the Firft Seftion of his Fifth Clafs, which includes those Plants whose Flowers have Five Stamina and One Style.

The Specie here reprefented is,

VIRB ASCVM foliis radicalibus ovatis petiolatis, caulinis oblongis feffilibus fubtus tomentofis ferratis, BiSt. Hort. Mullein with oval lower Leaves upon Footftalks •, thofe upon the Stalks oblong, fitting clofe, downy on their Under-fide, and fawed on their Edges. This is the *Verbnfcum blattari* e foliis nigrum, amplioribus foliis aluteis, apicibus purpurafeentibus, Boerh. Ind. alt. 1. p. 228. Mullein with a black Moth Mullein Leaf, large yellow Petals to the Flower, and purple Stamina

The Seeds of this Plant were given me by the late Dr. Boerhaave, Profeffor of Botany at Leyden, who informed me that he had received them from Vienna* The lower Leaves of this Plant are oval. They are about a Foot long, and Six Inches broad in the Middle, ending in round obtufe Points ftanding upon Footftalks, of a foft downy Texture, their Upper-fide being of a green Colour, and their Under-fide downy, and of £ hoary White, having fome ftrong longitudinal Veins. The Stalk rifes from Three to Four Feet high. The lower Part is garnifhed with oblong Leaves of the fame Texture with those below, but fit clcfe to the Stalks* They are longer, and end in Points; in which they differ from the lower Leaves, The Flowers are dif* pofed in a loofe Spike on the upper Part of the Stalk, having One very narrow Leaf under each. The Flowers are of a brimftone Colour, and are larger than those of the common Mullein. They have One Petal, which is cut into Five roundifh obtufe Segments almost to the Bottom. The Stamina are hairy, and of a purple Colour. The Flowers have an agreeable Scent at a fmall Diftance; but if fmelt to long or too near, it becomes

They appear in *June* and *July*, and the Seeds ripen in the Autumn; and then the Plant decays, being biennial.

PLATE











P L A T E CGLXXIV.

VIBURNUM, Lin. Gen. Plant. 332. Tinus, Town. Ilyft. R. H. 607. Tab. 377. Laurtis tinus, Rail Meth. Plant. 147. Laurus tinus \ in French, Laurier-tin.

The Chara&ers of the Genus arc,

The Flower has a finall permanent Empalement a, which is deeply cut into Five Segments. It has One open bell-fhaped Petal? which is cut into Five cbtufe Segments at the Brim b. I/ has Five. awl-floaped Stamina c, terminated by roundijlo Summits d, and a roundifo Germen fituated under the Flower\ having no Style; but its Place is occupied by a roundijh Gland, crowned by Three Gbtufe Stigma's. The Germen afterwards turns to a roundijh Fruit with One Cell, inclofing One h HJh Seed g.

THIS Genus is ranged in the Third Seftion of Linn < eus's Fifth Clafs, which includes those Plants whoje Flowers have Five male and Three female Parts * and, under this Title, he brings the 7inns and Opulus of Tournefort, including them in the fame Genus. Tournefort places the Three Genera in the Sixth Seftion of his Twentieth Clafs, which contains the Trees and Shrubs with a Flower of One Petals whose EmpaUment becomes a Berry. Mr. Ray places it among the Trees with an urnbilicated Berry having One Seed.

The Specie here reprefented is.

VIBURNUM fpliis ovato-lanceolatis integerrimis fubtus venojis, Dîet. Hort. Way-faring Tree with oval fpearihaped intire Leaves veined on their Under-fides. This is the Viburnum foliis integerrimis lanceolato-ovatis, Lin. Sp. Plant. 268. Way-faring Tree with intire fpear-fhaped oval Le&tfes. In the Flora Virginian^ it is titled Tinus foliis oval is in petioles terminatis inte* gerrimis, p. 33. Tinus with oval intire Leaves terminating in a-Footftallc.

This Shrub is a Native of North ^.,.., _z, from whence it has been brought to England, where it is cultivated in many curious Gardens. It has a ftrong Stalk, covered with a brown fmooth Bark, which rifes to the Height of Ten or Twelve Feet, fending out ligneous Branches on every Side the whole Length, which have a fmooth purplifh Bark, and are garnifhed with oval fpear-fhaped intire Leaves placed oppofite upon Footftalks. They are Five Inches long* Two Inches and a Half broad, fmooth on their tapper-fide, and of Their Under-fidespftre veined, and of a lucid Green. a light Green. Their Edges are intire, and both Ends are rounded. They are of the fame Thicknefs with those of the broad-leaved Laurus tinus, The Flowers are produced in large Umbels at the End of the Branches, as is reprefented in the Figure. They are in Shape and Colour like th'ofe of the common Laurus ti± nus, but are fmaller, and the Stamina are much larger than the Petal. The fingle Flowers at the Bottom of the Plate are magnified; as are alib the Fruit; to ftiew them to more Advantage.

The Flowers appear in *July*, and are fucceeded by roundifh Berries, which, when ripe, are black; but thefe do rarely ripen in *England*.

There feem to be Two Species, or Varieties, of this Plant\ one of which grows in the northern Parts of *Virginia* and *Maryland*, which cafts its Leaves in Winter. The other grows naturally in *Car-.*... a Evergreen.

P L A T E CCLXXV.

VITEX, Tourn. Injl. R. II. 603. Tab. 372. Lin. Gen. Plant. 708. Raii'Meth. Plant. 158. TheChafte Tree.

The Chara&ers of the Genus arc,

The Empalement of the Flower a isjhort, cylindrical^ and indented in Five Parts. The Flower has Onejtingeni Petal b, having a Jhort cylindrical Tube. The Bmin is plain, and divided into Two Lips, which are each €Ut into Three Seginents) the middle One being the broadeft. It has Four flender Stamina, which are a little longer than the Tube -, Two of which are floorter than the other, terminated by moveable

Four Cells, each containing One oval Seed.

THIS Genus is ranged in the Fourth Scftion of Tournefort\ Twentieth Clafs, which includes the Trees and Shrubs with a Flower of One Petal, whofe Pointal becomes a Fruit with feveral Cells. Dr. Linnaus places it in the Second Scftion of his Fourteenth Clafs, which

contains those *Plants whose Flowers have Two long and Two /Jjorter Stamina, and their Seeds are included in Cap-Jules.* Mr. *Ray* places it among his miscellaneous Trees and Shrubs.

The Species here reprefented are,

Fig; 1. VITEX foliis ternatis quinatifque pinnato-incifis, fpicis verticillalis terminalibus, Iloribus camlets. Chafte Tree with trifoliate and quinate Leaves, which are cut like winged Leaves, and whorled Spikes of; blue Flowers terminating the Branches. This Shrub^rows naturally in China, from whence the Seeds were fent to Paris by the Miflionaries, and the Plants were railed in the Garden of his Highnefs the Duke UAyen at St. Germain s, who was fo good as to fend me the Plants of Two Sorts. This has a low fhrubby Stalk, fending out weak ligneous Branches on every Side, which rife about Three Feet high, covered with a greyifli brown fmooth Bark, and are garnifhed with Leaves placed oppofite upon pretty long Footftalks. Some of thefe are composed of Three, others have Five fpear-thaned

fhaped L.obes, fpreading like the Fingers of a Hand, ending in acute Points. Thefe are regularly cut on their Edges in Form oF winged Leaves. The largeft: of thefe-Lobes are about One Inch and a Half long, and Three Quarters of an Inch broad in the Middle. They are of a dull green on their Upper-fide, and are grey on their Under. The Branches are terminated by Spikes of Flowers, v/hich are Three or Four Inches long. The Flowers are difpofed in Whorles round the Stalks. They are of a bkle Colour, and are divided into Two Lips, the upper Lip being much broader than the lower. They are both cut into Three Segments, the middle One being the largeft.

The Firfl Flower, marked a, b, is of the natural Size -, the others are magnified, and g is One of the Stamina, h the Summit magnified.

Fig. 2. VifEX foliis ternatis quinatifque- pinnato~incifis, verticillatis terminalibus, floribus alb is. Ghafte Tree with trifoliate and quinquefoliate Leaves cut in Form of winged Leaves, and whorled Spikes- of white Flowers terminating the Branches.

This feems to be only a Variety of the former Sort* from which it only differs in the Colour of the Flowers. There is also another Variety with red Flowers.

P L A T E CCLXXVI.

The 'A luc uf this Genus is given to it in Honour to my learned Friend Dr. *WilliamV/atfcyi*, F. R. S. whole Knowlege *o%* Natural Hiftory, and particularly in the Science of Botany, juftly demands this Tribute.

The Characters of the Genus are,

The Flower has a permanent Spatha, or Sheath a, which divides longitudinally into Two Parts almcft to the Bottom. It has One Petal, which has a long curved 2 ubs fivelling toward the Top. The Rim is cut into Six obtuje Segments b, which fpread open. It has Three Jlender Stamina c, which are terminated, by oblong profirate Summits, and a roundiff three cornered Germen e, fupporting a long Jlender Style f, crowned by Three bifid Stigma's d. The Germen afterwards turns to a roundiff three-cornered Capfule, inclofed in the Spat ha g, having Three Cells, each containing Three or Four roundiff Seeds.

THIS Genus belongs to the Firfl Section of *Lin*-Ws Third Clafs, the Flower having Three male Parts and One female. It differs from *Gladiolus*, in having a tubulous Flower of One Petal; and from *Crinum*, in having but One Stamen.

As we know but One Specie of this Genus, fo it requires no fpecific Epithets.

WATSONIA

In the former Edition of the Gardener's Dictionary? has the following Title: Watfonia foliis enfiformibus, floribus alternis. Watfonia with fword-fhaped Leaves and alternate Flowers. This has been fince titled by Dr. Trew, Meriana fiore rubello. Meriana with a reddifh Flower. But he was not then acquainted with the Title which I had given to it; fo he has fince informed me by Letter, that, as I had raifed the Plant from Seeds, he would fupprefs his Title, and adopt mine, as he thought I had the belt Right to name it; and he the rather chufes fo to do, becaufe his Figure was drawn from

the Pi::::: Chelfca L, and he had not feea the Piant growing.

This, Plant has a comprefled bulbous kidney-fnaped Root, marked z, which is covered with a fibrous brown Skin, from which fpring out ieveral fword-fhaped Leaves about a Foot long, and One Inch broad, whofe Edges are thin; but in the Middle, where the Midrib runs, they are thicker, and the Jlib is prominent on both Sides. Thefe embrace each other at their Bafe, and end in acute Points. They 're of a deep green, refembling those of the *Iris*. The Stalk comes out between the Leaves. It rifes a Foot and Half high, and the lower Part of it is garniihed with One Leaf at each Joint, of the fame Shape and Colour as those below, but are fmall, and embrace the Stalk with their Bafe. The Flowers are produced on the upper Part of the Stalk, coming out alternately from the Sides, each having a Sheath or Cover, which fplits open longitudinally, for the Flower to advance. These Covers are of the same Colour with the Leaves before the Flower appears, but afterwards they wither and become dry. ^ The Tube of%e Flower is an Inch and an Half long, narrow enlarges upward, where it is a little cu» vcu. The Top is cut, into Six obtufe Segments, which fpread open. The Flower is of a copper red Colour on the Outfide, but of a brighter red within. They have each Three Stamina, which are a little longer than the Tube, and are terminated by oblong proftrate Summits of a brown Colour; and from the Germen, which is fituated at the Bottom of m/Kr the Tube, arifes a Style which is longer than the Petal, and is crowned by Three bifid Stigma's. The Flowers of this Plant appear in April or May, and are fucceeded by'roundifh three-cornered Capfules, which are clofely wrapped by the withered Sheaths. They have Three Cells, in each of which there are lodged Three or Four roundilh Seeds, which ripen in July.

This Plant grows naturally at the Cape of Good Hope. The Seeds were fent me, with those of several other curious Plants, by my learned Friend Dr. Job Bajier, F. R. S^Zirkzee.

Antholy21 Merians Al



PLCCLXXVII.



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PLCCLXXVIII



Figs tres outers by amin't produced in sufficient surprise above black - Hore . 1 197. 254

per my expension is fine they down

P L A T E CCLXXVIL

VERBASCUM, Tourn. Injl. R. H. 147- Raii Meih. Plant. 85. Lin. Gen. Plant. 217. Mullein; mFrench^ Bouillon blanc

H E diftinguifhing Characters of this Genus having been exhibited in the former Number of this Work, we fhali not repeat them here.

The Species here reprefented is,

VERBASCUM foliis lanatisradicalibus, fcapo nudo, Lin. Sp. Plant, 179. Mullein, with downy Leaves near the Root, and a naked Stalk. This is the Verbajcum humile, Alpinum, villofum, Borraginis folio i£ flore, Tourn. Inft, R. H. 147. Low Hairy Mullein of the Alps, with a Leaf and Flower like Borrage. Cafpar Baubin titles it, Sanicula Alpina, foliis Borraginis villofa, Pin. 243. Alpine Sanicle, with hairy Borrage Leaves: And John Baubin calls it, Auucuia Urfi Myconi pilofa* carulea, Rift. 3. App. 869, Hairy Blue Bear's-ear of Myconi', commonly called, Bear's-ear Sanicle.

This Plant grows naturally upon the *Alps* and *Pyreman* Mountains. The Root is fibrous and perennial: The Leaves fpread flat on the Surface of the Ground, and are but few in Number. They are of a thick fielhy Subftance, of an oval Shape, indented on their Edges, and hairy, as is reprefented at/. They are rough, and

of a dark green Colour, having fcarce any Footftalk; but embrace the Crown of the Root, and lie over each other. Thefe continue in Verdure all the Year; but in the Winter they change to a much darker green than they are in the Summer.

Between thefe Leaves arife feveral naked Footftalks, about Four Inches high, which divide into Three or Four fmaller Footftalks towards the Top. v*They are hairy, and of a brown purplilh Colour. Each of thefe fmaller Divifions is terminated by a fingle Flower, compofed of One Pi-tal of a fine blue Colour, which is deeply cut into Five Segments, fo as to have the Appearance of a Flower with Five Petals •, buc as the Segments are connected at their Bafe, and fall off without dividing, they \$re termed One Petal, according to Tournefort and The Segments of the Petal are oval, and end in obtufe Points, as at b. "They fpread open flat, like thofe of the Auricula; and in the Center is fnuated a fingle Style, reprefented at d, which fits upon an oval Germen, included in a one-kaved Empalement, a; which is funnel-fliaped, and cut into Pive obtufe Segments at the Top. Round the Style there are firuated Five Stamina, which are ereft, and have fiat Summits, which are connected to the Stigma, as is {hewn at c. The Flowers of this Plant appear in May; and are fucceeded by oval Capfules filled with fmall Seeds, as at e, which ripen in August.

P L A T E CCLXXVIII.

HIPPOCREPIS, Lin. Gen. Plant. 791. Ferrum Equinum* Tourn. Injl. R.H.400. Tab. 225. RaiiMeth.Plant. 106. Horfe-fhoe Vetch ^ in French*, Fer de ChevaL

The Characters of this Genus are*

The Flower has a permanent Empalement of One Leaf cut into Five Parts, as is Jhewn at a; the Two upper being joined. The Flower b is of the Butterfly kind. The Standard b is heart-fhaped at the Point; but is narrow at the Bafe. The Wings d are oval, oblong and blunt. The Keel c is comprejfed, and Moon JJoaped. It has Ten Jlender Stamina \ Nine, of which are united in One Body, and the Tenth Jlands feparate. In the Center is fituated an oblong narrow Germen f, fitting upon an awl-fhaped Style e, crowned by a fingle Stigma. The Germen afterwards turns to a long plain compreffed Pod g, which is divided into feveral Marts h, from the under Seam to the upper; each Part Jfirming a.roundifh Sinus\ with obtufe Joints connected fi> the upper Seam •, each Joint being jhaped like a Horfe floce i, inclofing a fingle Seed.

HIS Genus of Plants is ranged in the Third Section of Linn<eus*s Seventeenth Clafs, which includes the Plants with a Butterfly Flower' having Ten Stamina in each. Nine cf which are joined in One Body, and the other Jlands feparate. Tournefort places it in the Third Section* of his Tenth Clafs, which contains the Herbs with a Butterfly Flower, whofe Pointal turns to a jointed Pod. Mr. Ray ranges it in the Third Se&ion of his NUMB. XLVII.

Twenty-first Class, which includes the *leguminous Herbs* with a Butterfly Flower\ which are not trifoliate^ and have jointed Pods.

The Species here reprefented are*

Fig. 1. HIPPOCREPIS leguminibus fejijilibus felt tar Us* Hort. Cliff. 364. Horfe-(hoe Vetch, with fingle Pods fitting clofe to the Stalks. This is the Ferrum Equinum • Jiliqud'Jitigulari, C. B. P. 349. Horfe-fhoe Vetch with a fiiigle Pod. Fabius Columna titles it, Ferrum Equinum v'ulgare, p. 1. 300. Common Horf> fhoe Vetch* And John Baubin calls it, SoleaEquina, Hijl. 2. 347.

This Sort grows naturally in Italy, Spain, and the South of France. It is an annual Plant, with feveral trailing Stalks about a Foot long, which divide towards their'Top into a few fmall Branches. They are garniflied with winged Leaves, compofed of Four or Five Pair of oblong Lobe?, terminated by an odd one. They are obtufe, and fiightly indented at the r Points* From the Wings of the Sulk are produced fingly fmall yellow Flowers of the Butterfly kind, which make no great Figure; but are iiicceeded by comprefied Pods about Two Inches long, and a Third of an Inch broad, a little bending inward in Form of a Sickle, divided into many Joints; each bring fhaped like a Horfe fhoe, and inclofing a fingle Seed of the fame Form. The Flowers appear in June and Jttly\(^\) and the Seeds ripen in the Autumn.

Bbb

FIG. 2. HIPPOCREPIS legumimbus pedunculatis confertis, margine altero lobatis, Hort. Cliff. 364. Horfe-fhoe Vetch, with cluftered Pods upon Fbotftalks, whofe outer Border is divided into Lobes. This is the Ferrum Equinum filiqua tnultiplici, C. B. P. 394. Horfe-fhoe Vetch, with many Pods. Fabius Columna titles it, Ferrum Equinum alter um, polyceraton, p. 1. 300. Another Horfe-fhoe Vetch, with many Pods.

This is also an annual Plant, which grows naturally in the South of France, in Germany, and Italy. It hath trailing Stalks like the Former, to which the whole Plant has great Refemblance; but the Flowers of this are produced upon long Footilalks, which arife from the Wings of the Leaves. They are fmall, of a yellow Colour, and many of them are cluftered together. Thtfe are fucceeded by narrower Pods than thole of the former Sort, which are more incurved, and their outer Border is divided into Lobes, as is reprefented at g; the inner Border being hollowed in Shape of Horiefhoes. This flowers and ripens its Seeds about the fame time with the former.

XERANTHEMUM, Town. Infl. R. H. 499. Tab. 284. Raii Meth. Plant. 36. Lin. Gen. Plant. 851. Eternal or Immortal Flower. A Property

The Characters of the Genus are,

which are included in One common fcaley Empalement a. The Hermaphrodite Florets, which form.theDijk, are funnel fh aped, find are cut into Five Points c. The Female Florets, which compose the Border or Rays e and f, are tubulous, and cut into Five lefs equal Parts. The Hermaphrodite Florets have-Five port Stamina d, terminated by cylindrical Summits, dfid a *Jhort Germen Supporting a Jlender Style, crooned by a bifid Stigma." Tie Germen afterwards turns to an oblong Seed croivned with a hairy Down, which ripens, in the Empalement. The Female Florets have no Stamina*, but their Germen, Style,, and Seeds, are the fame as the Hermaphrodite Floras.

HI S Genus of Plants is ranged in the Second X Sedion of Tournefer's Fourteenth Cl. 6 Sedion of Tourneferfs Fourteenth Clafs, which includes the Herbs with a radiated Flower, whose Dijk is composed of plain Petals. Mr. Ray places it in the First Seftion of his Eighth Clafs, which contains the Herbs with a radiated corymbiferous Flower. Dr. Linnaus ranges it in the Second Se&ion of his Nirfcjteenth Clafs, which includes those Plants whose Flower in an composed of Hermaphrodite and Female Florets, which are both fruitful.

The Species here reprefented is,

XERANTHEMUM foliis lanceolatis patent thus, Lin. Sp. Plant. 857. Eternal Flower, with fpear-fhaped fpreading" Leaves. This is the Xeranthemum fiore pleno purpureo, majore, H. L. Eternal Flower, with a larger double purple Flower. It is by Clufius and Dodo-; :us titled, Ptarmica Auftriaca. And by Cafpar Baubin it is called Jacea ole < e folio, capitulisfimplicibus, Pin. 272. Knapweed, with an olive Leaf atid fingle Heads.

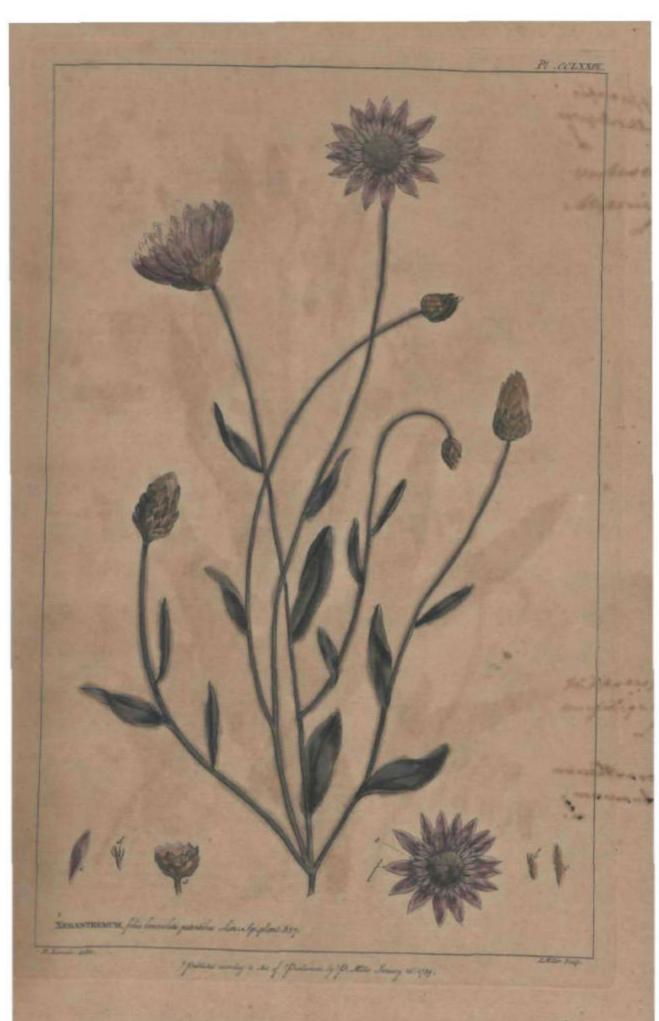
This Plant grows naturally in Auflria, Bohemia, and in fome Parts of Italy, but in its natural StateJthe Flowers are fingle: The double Flowers have been Obtained by Culture. There are Two Varieties of this

Species 5 one with white, and the other with purple Flowers; and of both with fingle and double Flowers. This Difference iii the Colour of the Flowers is conftant, where there is Care taken to fave their Seeds feparate.

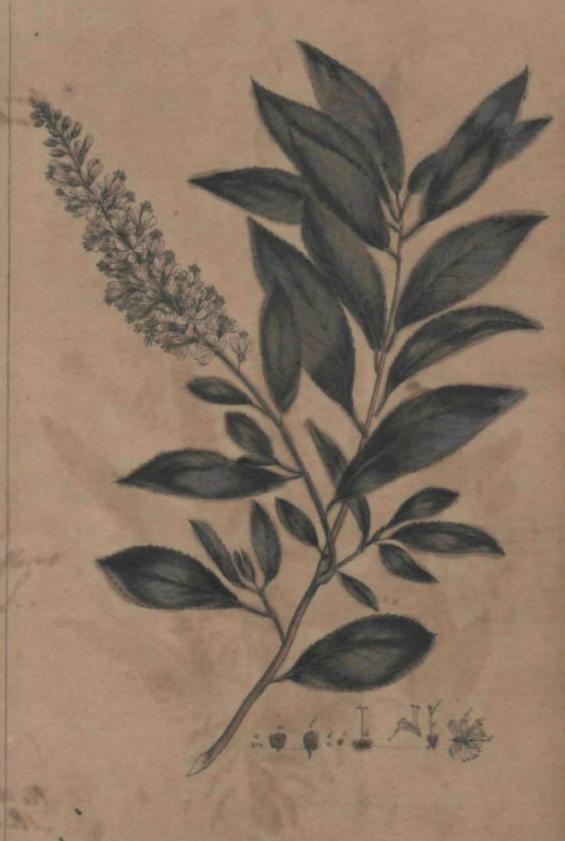
It is an annual Plant. The Stalk is (lender, fliff, and branching. It is covered with a white Down, and The Flower is composed of Hermaphrodite and Female Florets is channelled the whole Length. It riles about Two Feet high, and is garnifhed with fpear-fhaped Leaves an Inch and Half long, and One-third of an Inch broad in the Middle, drawing to a Point at each End. They are hoary, and fit clofe to the Stalk with their Bafe, having no Footftalks. They are difpofed fingly, acid at a Diftance from each other. The Branches or Di^ifions of the Stalk are also garnished toward their Bosttom with fmaller Leaves of the fame Shape; but their upper Part is naked, and each is terminated by Ohe Flower, composed of the Hermaphrodite Florets in tle Middle or Diik; ar*d the Border or Rays are made up of Female Florets. Thefe lies-over each other in t&e double Flowers, like the Scales of Fifh, and are vejy dry; fo will continue fresli to Appearance, and retain their Colour many Months after they are feparated from the Plants.' All thefe Florets are contained in One common fcaley Empalement of a filvery Colour, and very dry. Thefe Florets of both Segb are fucceeded by Orte oblong Seed, which ripen in the Empalement; each Seed being feparated by fcaley Chaff.

This Plant flowers in June, July, Augufi\u00e9md September', and fome Years will continue much longer, if the Seaibn proves favourable; but efpecially those Plants which arife from Seeds fowft in the Spring. Thefe do frequently continue till the Froft or Wet of the Autumn deftroy them. The Seeds ripen in about Six Weeks after the Flowers decay; fo that those Flowers only which appear by the Middle of August, or ibener, will, be early enough to perfedt their Seeds.

Thefe Flowers were formerly much more cultivated in the Gardens near London than "at patent; and were brought to the Markets in great Plenty during thp Winter Scafon, to adorn Rooms. The Gardeners had a Method of ftaining them of a defcp red and blue Cor loUr, by dipping them into differential Liquids. So they brought them to the Markets in Buncfees of four different Colours; white, purple; bhie, and red: And when their Stalks were put into Glaffes with Sand, the Flowers would continue in Beauty till the Spring.







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P L A T E CCLXXX

Prayante, Barner. Flo Jedicas, Par. Flor. Guit. 170.

The Characters are.

It has a double keel-fiaped Spatha (or Sheath) a, which fur rounds the Flower - bud, and is membranaceous alternateeach inclofting a Jingle Flower. The inner is fhorter, and Jlands oblique to the outer. The Flower has Six oblong acute pointed Petals \ Three larger, and Three alternately fmaller, whofe middle Parts are raifed and fwelling. Their hinder-Parts are fmooth and lucid in the Middle -, but their Tails are joined and contraaed. Their Borders are fringed, filky, and reflexed. It has a roundifi three-cornered Germen] fituated under the Flower b, with Three Stamina c, which rife above the Petals, and have roundijh twin Summits fttuated below the Bivifion of the Stamina. The Style is ereft, and crowned with a trifid hairy Stigma d, whofe fingle Parts are bifid and hairy. The Germen afterwards becomes an oblong fmdoth Capfule, prejfed together at Bottom, bellied above\ and three- cornered, having Three Cells, open in Three Valves, filled %vith very fmall'roundijh e fafiened to the middle Axis.

Plant muft be placed in the First Sedion of Line**us\ Third Class, which includes those Plants whose Flowers have Three Stamina and One Style,

The Species here reprefented is,

FERRARiAfoliislanceolatis, Burman.Tab. FeWaria with fpear-fhaped Leaves. This is the Flos Indicus e violaceofufcus, radice tuberofa, Ferr. Flor. Cult. 170. Indian Slower of a tawney violet Colour, fig.H. a fast-rock beat lit has also been stiled, by force of the ball buttings, Flos Tygridis, Tyger Flower.

This Plant grows naturally at the Copy of Good Hope. The Root was time one her by the man in the contract of t

the Root there is a Hollow like a Nevel, from whence comes age the Stalk. The paper Skin (or Cover) is the a light brown Colour; the Infile is white. The Stalk Front and Hall ligh. It is taper, and about five figures from the Stalk in the Stal alternate, and embrace the Stalks with their Bafe. The lower Leaves are from Four to Five Inches long, and One Inch and a Half broad toward their Ba/e, ending in obtufe Points. They area Jittle keel-fhaped, and of a light green Colour. The upper Part of the Stalk is garniflhed with Flowers, which fpring from the Wings of tne Stalk fingly, and are wrapped up in a double Sheath, out of which the Flower-bud riles about an Inch. The Sheath is composed of a double Row of keelfhaped Leaves; the inner Row being fhorter than the outer, and are fituated oblique to them. The Flower is compofed of Six Petals, Three of which are alternately larger than the other. Thefe fpread open, and their Borders are fringed, and refiexed backward. Their Infide is of a pale fky-Mn** Colour* and their Out/ide of a dirty White. The Popular Country Program of the State o mina, and are terminated by small filky. In the Center is fromted a heliog German, having Three obtain Angles (apporting a taper Style, crowned by bind Stepuns. The German alterwards becomes a threecornered Capfule with Three incrow Colls which re fill d witi r Axi^Ic^r^rf^11/8 = ? 3 foftened to the midd'le not ripen

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cf Cod Hop. The Root i, taberous, roundilh, and the state of the hiian Cowfijf the Th rd Yeir is C $^{\text{TM}LM}$ $^{\wedge n^{C}0}$, $^{\text{TM}}$ $^{\text{TM}}$ Learn compression in the Center of the Upfer-iidTie $^{\text{TM}}$ and $^{\text{TM}}$ $^{$

P L A T E CCLXXXI

CLETHRA, Flor. Virg. Lin. Gen. Plant. 489. We have no Englijh Title for this Genus.

The Characters are,

The Empalement of the Flower is permanent, of One Leaf, cut into Five Parts at the Top a. The Flower has Five oblong Petals b, which are much longer than the Empalement. It has Ten Stamina c, which are of equal Length with the Petals* and are terminated by oblong ereft Summits. In the Center is fituated a roundifh Germen fupporting a permanent ereft Style d and e, crowned by a trifid Stigma f. The Germen afterwards becomes a roundijh Capfuie h and i, inclofed in the Empalement, having Three Cells, which are filled with fmall angular Seeds i.

HIS Genus of Plants is ranged in the First Sedlion of Linn^us's Tenth Clafs, which includes those Plants whole Flowers have Ten Stamina and One Style

There is but One Species of this Genus at prefent known,

CLETHRA Flor. Virg. 47. The Clethra. This is titled by Dr. Plukenet, slirdfclia Americana Scrrata, fioribuspentapetalii albis in fpicam difpofitis Almcg. 1 8. American Shrub wich a fawed Alder Leaf, and white FJowers difpofed in a Spike, which have Six Petals,

This Shrub grows naturally in moft Parts of North America^ by the Sides of River?, and in other moift

Places j

Places w, where it rifes to the Height of Eight or Ten Feet; but in *England* it rarely rifes to more than half that Height. The Roots of this fpread far on every Side, and fend up many Stems, which are covered with a greyifh Bark, and divide into fmall Branches. Thefe are garnifhed with fpear-fhaped Leaves aboik Three. Inches long, and an Inch and a Quarter broad in the Middle, drawing to a Point at each End. They are fawed on their Edges, are of a deep green on their upper Side, and of a whitifh green on their under \ (landing upon very ihort Footftalks, and are placed alternate on their Branches. The Flowers are produced from the .Wings and at the Extremity of the Branches, difpofed in long Spikes. They are compofed of Five oblong white Petals, which fpread open at the Top, each

having an Empalement of One Leaf, cut at the Brim into Five Segments, which are permanent, and cover the Capfule after the Flowers are fallen. Within the Petals are fituated Ten Stamina, which are of equal Length with the Petals, and fpread afunder every Way. Theie are terminated by oblong Summits. In the Center of the Flower is fituated a roundilh Germen ft importing a taper Style, crowned by a trifid Stigma. The Flower b_y f, and d_g is a little magnified, to fhew the Parts more diffinft; as is alfo the Germen with the Style at h; and the Capfule with the Seeds l, m_7 and n\ but l and l are of the natural Size.

This Shrub flowers in *July* and *Augujl*; and in mild Seafons they frequently produce fome Spikes of Flowers in *October*.

$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E} \ \mathsf{CCLXXXII}.$

ASTER, Town. Inft. R. H. 481. Tab. 278. Raii Meth. Plant. 33. Lin. Gen. Plant. 858. Star wort.

HIS Genus of Plants is ranged in the First Se&ion of Townefort⁹*Fourteenth Clafs, which includes the. Herbs and Under-Ihrubs with a radiated Flower, and Seeds crowned with Down. Mr. Ray places it in the First Sestion of his Seventh Clafs, which contains the Herbs with a difcous radiated Flower, and downy Seeds. X)v.Linnaeus ranges it in the Second Sestion of his Nineteenth Clafs, which includes the Plants whose Flowers are composed of Hermaphrodite and Female Florets.

The Species here reprefented is,

ASTER cauk totymbofo^foliis lanceolatis reflects > fioribus folitariiS) calycibus patulis. Flor. Leyd. Prod. 168. Starwort with a corymbous Stalk, reflexed fpear-fhaped Leaves, Jfblitary Flowers, and fpreading Scales to the Empalement. This is the After Virginianus pyr amida tus, Hyffopi foBis ajperis, fquamis calycis foliaceis, Afi. Reg. Lond. Martyn. Cent. 'Tab. 19. Virginia pyramidal Scarwort with rough Hyflbp Leaves, and leafy Scales to- the Empalement, Dr. Dillenius has titled it, After grandiflorus a/per, fquathis reftexis* Hort.\ Elth. 41. Tab., 36. Large flowering rough Starwort with reflexed Scales. And Dr. Gronovius, in the Flora Virginica, titles it, After foliis lanceolatis Jemiamplexicaulibus crenatis fcabris* ramis unifloris foiiofis, 99. Starwort with fpear-fhaped Leaves, which are rough, trenated, and half embrace the Stalks •, and leafy Branches with One Flower.

This Plant grows naturally in *Virginia*, from whence it was brought by the late Mr. *Mark Catefby*, about the Year 17*0, and given to *Mr. Fair child*, Gardener at

Hoxton\(^\) who propagated it in great Plenty; fo that, in a few Years, it was diftributed into most of the curious Gardens near London\(^\) and is now become common in most Parts of England,

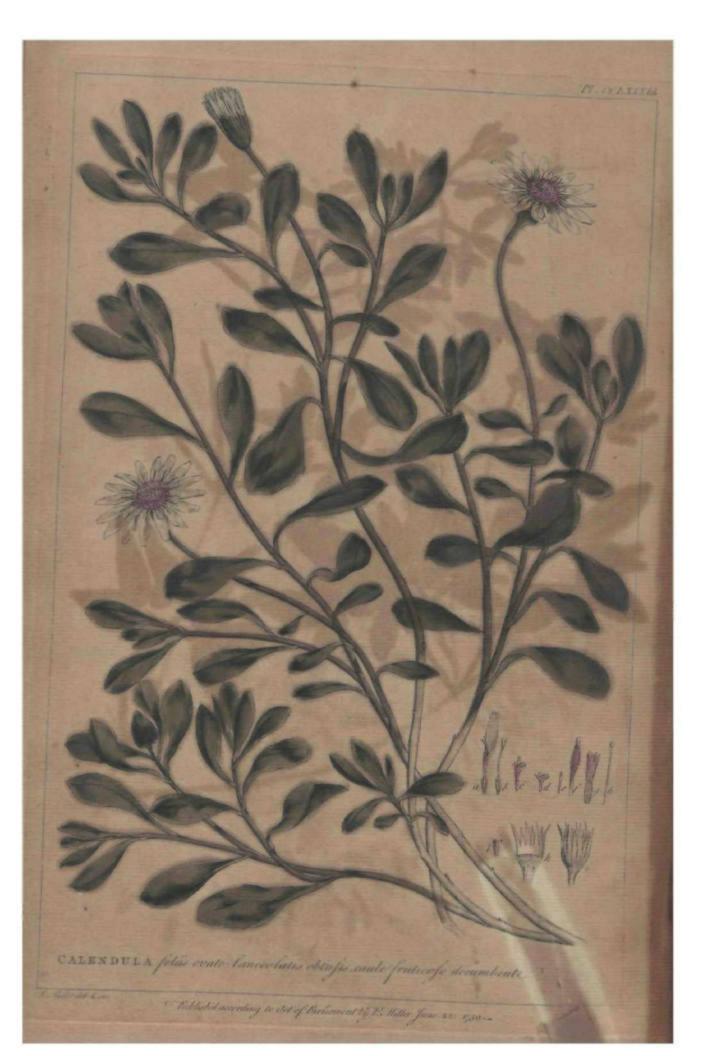
It has a perennial Root, and an annual Stalk, which rifes Three or Four Feet high, according to the Goodnefs of the Soil in which it grows. It is hairy, and branches out on the Sides pyramidally. The Stalk and Branches are garnifhed with fmall fpear-fhaped Leaves, about the Size of the Common Hyflbp. They are hairy and rough to the Touch, (landing alternate, and have no Footftalks. The Branches are each terminated by One large Flower, compofed of many Florets and Half Florets, which are included in One common fcaley Empalement, reprefented at a, whofe Scales are reflexed." The Center (or Difk) of the Flower b is compofed of Hermaphrodite Florets, One of which Is fhewn at d. Thefe are funnel-fhaped, and cut into Five Parts at the Top, which fpread opeiC" At the Bottom of the Tube is fituated an oblong Gergaen r, with Five flender Stamina joined at their Bottom to the Style, which fits upon the Germen, and Is crowned with a bifid Stigma. The Border or Ra^s of the Flower is composed of Female Half Florets, represented at e and Thefe are tubulous at the Bottom; but above they are ft retched out plain like a Tongue,; and are beautiful blue Colour, fpreading open Hire Rays. 1 ney fit upon a hairy Germen g, and hav^> Style crowned with a bifid Stigma; but have no 5tamina. Germen of both turn to oblong Seeds crowned wii-. a hairy Down.

, This Plant flowers in *Ottober*, and, in mild Seafons, often continues in Beauty Two Months; making a.fi Appearance in the Garden, when there is a Scarcity other Flowers.



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Addition of according to the . he by I. Miller in . Mailer Later Count Gender June 22" 1750 -

CALENDULA, Lin. Gen. Plant. 885 Raii Meth. Pinnt. 36. Caltha, Town. Inft. R. H 408. Tab 184. Marygold; in French, Souti.

Violen of Pl TMVS ranged in the Function of Linnatts's Nineteenth Clafs

Jsi/Mend the Hermaphrodite arebarren. ToTnefoZ places it in the Fourth Section of his Fourteenth daft which contains $t h e //^{\wedge} \ll r t^*, r^{\wedge}/^* J w$

Eighth Class, iicht $S \pounds$: -the^if S^{S} ! ** i hi J radiated Fbwer, whose Seed hav no DolT

The Characters of the Genus are,

// &z/£ * w° W radiated Flower, compoled of P° and Hermaphrodite Florets, included in One ut,
Empakment. The Female Half-Zt k 1 ^
or Ray: Thefe are firetched olt of /s f
and have no Stamina-, hvt have>aZfporting ajlender Style, croZdty &
thefe are fruitful. The Hermaphroitep theBifk, are tubulous, and cm'into Fif S t Stame £ t r ^ peyhaveF^ortflenderflender ^alSummtts. The Germen is fttuated in the Boiu_af_tl Tube, fupportingaflender Style, crowned by anbufebt Stigma i but thefe are barren. The Female Half Steachfucceededby a n State of t % %

The Specie here reprefented is,

CALENDULA/M& ovato-lanceolati etter, care frances man fuer-fleeped blund A Strait. Dr. Von Rayes of the Lander Carden, he has Appendix to the Presissour of the Legden Garden, by the Title of Calendala folis: rborr/senace; ь семь вынеов регения валь Marygod I wil -uval indented Leavis, and a perennial Stalk.

This: At the Cape of Good Stope 2 and the Plants were raiftd in the Durch ****&** One of the Plants was fent by Dr Van Royen, late

Profeflbr of Botany in the Univerfity of'Ley'den, to ti. Botanic Garden at Chelfea; and has been from thence communicated to feveral other curious Gardens.

•The Stalk of this Plant becomes ihrubby, and will rife to the Height of Six or Eight Feet, if it is fupported; otherwife it will trail on the Ground. It fends out many Side-branches, which grow diffbfed if they are not trained to Supports: They are garnifhed with flefhy oval fpear-fhaped Leaves, about Two Inches and a Half long, and almoft an Inch broad in the broadeft Part, which is toward the Top, the Tail next the Stalk being narrow. Moft of the Leaves are intire; and their upper Surface is rough to the Touch. The Flowers ^ are produced fingly from the Side of the Stalk: The * lower Part of the Footftalk is garnifhed with a few final 1 Leaves of the fame Shape with those on the Branches; but the upper Part is naked, and terminated by a fingle Flower. Each Flower is composed of Fourteen or Fifteen Half-Florets, which form the Border ot" Ray; one of which is reprefented at a: Thefe have a fhort Tube at their Bale; but are ftretched out to a tonfiderable Length on one Side in Shape of a Tongue, whith is flightly indented at the Point in Three Parts. At the Bottom of the Tube is fituated the Germen b_y fupporting the Style, which is bifid, c and d reprefent the Hermaphrodite Florets, which are tubulous, and cut into Five Parts at the Brim; Thefe have an imperfedt Germen fituated at the Bottom, fupporting a club-fhaped Style e; one of which is magnified at $f_{\%}$ having a Sheath or Cover of a purple Colour, g fhews the Five Stamina, which are connected at the Top; and h reprefents One of them magnified, i flews the fimple Empalement intire, which contains the Florets and Half-Florets, k is the fame cut open longitudinally \$ and / fhews the Germen feparated from the Style.

The Outfide of the Rays of the Flower is first of a purple Colour, which changes to blue as they decay; but their Infide is white. The FJorets which compofe the Difk or Middle are of a purple Colour; fo that when the Rays are expanded, the Flower at a fmall Diftance appears white with a purple Bottom. The Plants produce their Flowers at all Seafons of the Year \$ fo make a pretty Appearance in the Greenhoufe during the Winter and Spring.

course these Pints; soboje Flowers have many Stamina and Jeograf Styles. Toward

many Besis collected tests a Hood. Mr. Boy campos at \$11 km or a collect tests, which includes that Plants which includes that Plants which have a noted Thome. Januarded by many Books.

The Characters of the Genus are

The Flower has no Empolement, and is composed of Four ong Is-9 Petalo, way and forged Stanens, which NEKI XLVlii.

CLERATI.S. Lin. Gen. Plant. 6x6. Clematith. TW« r-n. are Thorter than the Petals-, and the Committee of the following the first than the Petals-, and the Committee of the Petals-, and the Petals-, and the Committee of the Petals-, and the Petals-, Gerains afterward became seed a recodify congressed hea. l are collected solo a

> CLEMACIA foliis compassio 😅 ^ ¥ f Molis ternatis pound and decontucunded _ y Threes, which are fawed < III THE FLORE

> Imperial Garden at Principal #2 I were the strong file from the strong f and in j75, I was latoured *? r and y ecolor with fome of the Seeds from

that Garden, which have Succeeded at *Chelfea*; and the Plants have flowered there fome Years, but do not as yet perfeft their Seeds.

The Stalks of this Plant are flender and weak, fo muft be fupported, or they will fall to the Ground: Their lower Parts become ligneous, like fome of the other Species: The Bark is brown and thin. At the Joints of the Stalks come out feveral Filaments, which have the Appearance of Roots, and are ranged between the Footftalks of the Leaves. When the Plants are in a ffrong Soil, and their Branches trained againft a Wall, the Stalks will rife to the Height of Six or Eight Feet. The Leaves have long Footftalks, which generally divide into Three fmaller •, each of which fuftains Three oblong Lobes, or fmall Leaves, about Two Inches long, and near One broad in the Middle, drawing to a Point at each End. They are of a deep green Colour, and are flightly fawed on their Edges. The Footftalks if- the Flowers arife from the Joints of the Stalk: They are naked, Three or Four Inches long, and fuftain One Flower at the Top. The Flower is compofed of Four oblong Petals reprefented at a, which

are of & yeliowifh white Colour within: Thefe fpread open wide; and in the Center are fituated the Germina, With their Styles colle&ed into a Head, as is fhewn at h: Between thefe rife the many Stamina^ which are conne&ed to the Styles. At c is reprefented the Clufter of Germina feparated from the Petals; and at d is fhewn a Stamen feparated from the Clufter. A Germen with its Style is reprefented at e. After the Petals of the Flower are fallen, the Style becomes feathery, and, ferves as a Wing to transport the Seeds, when ripe, to diffant Places.

The Flowers appear in *March* and *April*; and, if the Seafon proves favourable, they make a handfome Figure: But as the Plant is apt to put out Leaves very early in the Spring, fo they are frequently nipped by the Frofts in *March*, as are many other Plants and Trees of *Siberia* and *Tartary*; for thefe do generally begin to fhoot with the firft Warmth of Spring -, and when there are Returns of Froft afterward, their young Shoots are killed, and the Plants appear as dead till the Warmth of Summer brings out new Shoots.

$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E} \ \mathsf{CCLXXXV}.$

WARNERIA. Yellow Root.

THIS Plant has been lately introduced from North America, by the Title of Tellow Root: And the Characters of its Flower and Fruit being different from thofe of all the eftablished Genera of Plants, I have given it the Name of Warneria, in Honour to Richard Warner, Efq; of Woodford in Effex, who is a very curious Botanist, and a great Collector of rare Plants; of which he is very communicative to all Lovers of Gardening.

This Plant fhould be ranged in the Seventh Sedion of Linn<eus*s Thirteenth Clafs, which includes those Plants whose Flowers have a great Number of Stamina, cr Male Parts, and many Styles. And according to Tournefort's System, it must be placed in the Seventh Section of his Sixth Clafs, which contains the Herbs with a Rose-flower, whose Pointal turns to a Fruit composed of many Seeds collevied into a Head. By Ray's Method, it must be placed in his Fifteenth Clafs, which includes the Herbs with a naked Flower succeeded by many Seeds.

The Characters of this Genus are,

The Flower has no Empalement: It has Three roundijh Petals, which fall off very foon; and a great Number of club-fhaped Stamina terminated by oval Summits, with feveral roundifh Germen fupporting a very Jhort Style crowned by a permanent bifid Stigma. The Germen afterward turns of a Berry composed of many roundish Acini collected into a Heady each having One Cell including a Jingle Seed.

We know but One Specie of this Genus at prefent; which is here reprefented.

^ WARNERIA. Called in North America Tellow Root.

This Plant grows naturally in Penfylvania, from

whence the Roots have been fent to England, and are preferved the Gardens of the Curious. The Root is flefhy, of an irregular Form, having a yellow Skin or Cover -, from whence it received its Title of Tellow Root: This fends out many Fibres, which fpread on every Side. From the Root arife Two, Three, or more Footftalks, in proportion to their Strength: Thefe are from Four to Nine or Ten Inches high; and at their first Appearance are of a light Green; but afterward change to a purplifli Colour, and are hairy toward the Top. Each Footftalk fuftains One or Two Leaves; the lower of which have Footftalks, but those above embrace the Stalk. The Flower is fituated at the Top of the Stalk, a little above the upper Leaf, as is reprefented at a. The Leaves are Six or Seven Inches Diameter: They are deeply cut into Three, Four, or Five Lobes, which are irregularly fawed on their Edges: They are of a light Green in the Spring; but change afterward to a deep Green, with fome dark Spots or Marks, and after the Flower is decayed they turn to a purplifh Colour. The Flower is composed of Three roundish Petals, reprefented at b, which are of an herbaceous white, with Borders of a red Colour; and are of very fhort Duration, feldem remaining longer than Three or Four Hours after they are expanded. The Middle of the Flower is occupied by a great Number of Stamina, reprefented at c; one of which, feparated from the Flower, is fhewn at d, having its Summit at the Top. e flews one of the Germina, with its Style and bifid Stigma, of the natural Size; and / is one magnified, g flews the Fruit when ripe, which is compofed of feveral Acini like the Strawberry, of a bright red Colour, and is fucculent: Each of the Acini have One Cell including an angular Seed.

The Flowers of this Plant appear in *May*, and the Fruit ripens the latter End of *July*. The Leaves decay in the Autumn; and new ones arife in the Spring.

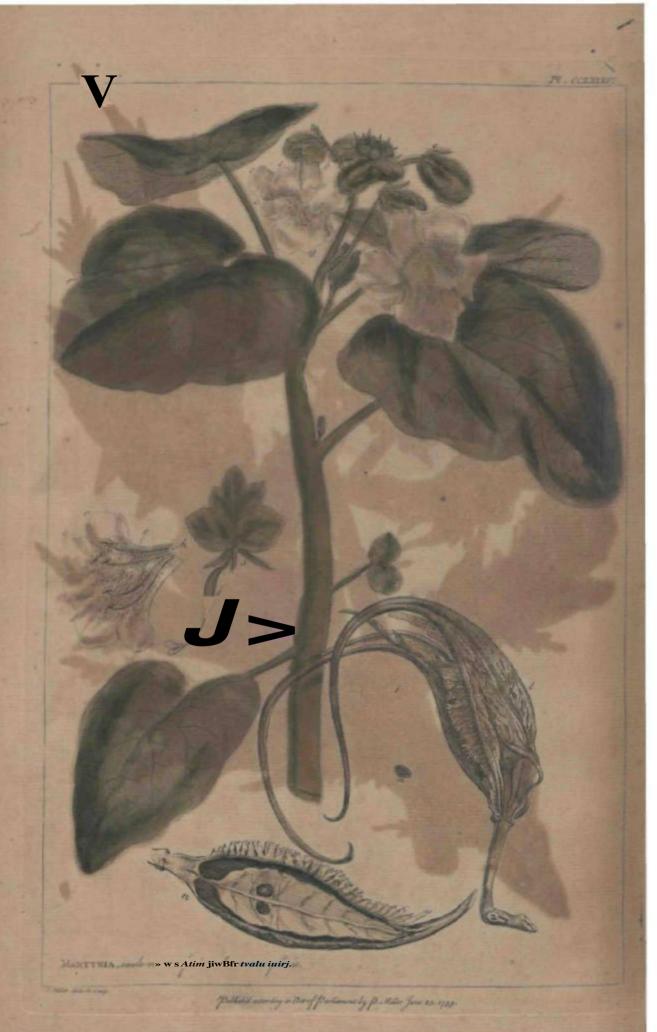
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MARTYNIA, Hotift. MSS. Lin.Gen. Plant. 67i. Martyn. Dec. 5. 4²-

HIS Genus of Plants is ranged in the Second Seftion of Linn < eus's Fourteenth Clafs, which includes the Plants with ringent Flowers, which have Two long and Two Ihorter Stamina, and their Seeds are inclofed in a Capfule.

The Chara&ers of the GenUs are,

The Empalement of the Flower is cut into Five acute tomen's • three of the upper are erett, the Two under are Jtiwd * The Flower is of One Petal, which is bell-fiaped, rimmi and divided into Five large obtufe Parts at the Brim where it fp-eads open wide, inForm of a Lip-flower: Vbe Two upper and Two fide Segments are nearly equal in 1.; . thefe have their Edges reflexed: The lower Segment istarrer and crenated at the Point. It has Four Stamina, Two lower and Twojhorter, with the Rudiment of a Fifth between the Two upper: Thefe are terminated by oblong Summits which join-, but on their being handled feparatt immediately. It has an oblong Germen fituated in the Em-Lhmert Supporting afingle Style the Length of the Stamina, Nh u biHStigma. The Germen afterward turns ZM oblon? Capfule including a ligneous Nut fhaped like a ZSe 3 *TM incurved Horns, divided into Four Cells, which include Three or Four Seeds in each.

The Specie here reprefented is,

MARTVNIA caule ramafo, foliis tordato-ovatis pilofis. "Martynia with a branching Stalk, and oval heartftaped hairy Leaves.

The Seeds of this Plant were brought from Mifflippi m the Gardens at Paris, where it was first propagated •, A the Plants ripened their Seeds there, fome of which were fent me by Mr. Richard, the King's Gardener at V-failles Thefe were fown in the Cheljea Garden •, but rhlv remained in the Ground a Year before they began o vegetate; fo that I almost despaired of their grow-<r • But in April following Two of the Plants made their Appearance: Thefe were transplanted each into a feoarate Pot, and plunged into a moderate Hotbed, -hich brought them forward 5 and in Six Weeks after Plants 'produced their Flowers, and continued flowering a long Time.

The Stalk of the Plant is as thick as a Man's little JFinger: It is foft, fucculent, and covered with a foft hairy Dotom It rifes about Two Feet high, dividing into Two or Three Branches •, and is garnifhed with oval heart-fhaped Leaves, placed without Order. The Fodtftalks are from Two to Four Inches long: The Leaves are Four Inches long, and as much in Breadth at the Bafe, where they are divided at the fetting on of the Footftalk into Two roundifh Ears: The upper Part is narrower, and ends in & blunt Point: They are vifcous and clammy to the Touch, of a foft green Colour, and covered with fine fhort Hairs. The Stalk is terminated by a loofe Spike of Flowers, Handing upon Footftalks, which are Two Inches long. The Empalement of the Flower is divided into Five Parts almost to the Bottom, as is reprefented at a: The Three upper Segments are narrow, ending in acute Points; the Two lower are broad, and divided into Lobes. The Flower is of the Bell-fhape, having a large fpreading Tube^ which is fmooth, roundifh at the Bafe, and fwelling upward: The Brim is large, and divides into Five obtufe Segments; the Three upper, c, c, c\$ are nearly equal in Size •, the Two under are larger, crenated on their Edges, and form the under Lip, as is fhewn The Infide of the Tube is marked with many purple Spots \ but the Brim, or Lips* is of a dirty Each Flower has Four Stamina, reprefented at e, Two of which are longer than the other, terminated by oblong Summits[^] which are corinedted together •, but on their being touched feparate and fpread afunder. Between the Stamina is fituated the Style b+ which is crowned by a bifid Stigma, and arifes from the Germen, which fits in the Empalement at the Bottom of rhe Tube, as is flewn at i 5 and k reprefents the Style with its Stigma feparated from the Flower. After the Flower is paft, the Germeri fwells to a large hard Fruit, ending with Two long incurved Horns, reprefented at /, which has a thick Cover like the outer Shell of a Walnut: This fplits and falls off when the Fruit is ripe, leaving the hard Shell bare; which is divided into Four Cells, each containing Two or Three oval Seeds, reprefented at m. At n is reprefented the Fruit cut thro* longitudinally, to flew how the Seeds are lodged. The Flowers appear in June and July, which have a fragrant Scent, and the Fruit ripens in the Autumn; fooh after which the Plants decay.

plant. 828.

HIS Genus of Plants belongs to the Fifth Se&ion of Tournefort's Twelfth Class, which includes the or tournejort's Twelfth Clafs, which includes the with a fiofculous Flower collected into a Head. Linranges it in the Firil Seftion of his Nineteenth Clafs.

The Characters of the Genus are,

The Head is composed of many Florets, which are Her ma-^h-odite having a Circle of fmall Leaves under, ivhicb

u NaPla Tourn. Cor. Inft. 51. Tab, 486. Lin. Gen. fcrve as a common Empalement. The Florets are of One Petal, bellied and cut into Five Segments at the Brim: They have each Five fhort hair-like Stamina, tenninated by long cylindrical tubulous Summits, and an oval Germen immerfed in the Receptaculum, fupporting a Style, which is longer than the Petal, crowned by a bifid Stigma. The Germen afterward becomes a Fruit pregnant with Seeds^ which ripen in the Receptacle.

The Specie here reprefented is.

GUN DELIA foliis pinnatifidis fpinofis, capite araneofa lanugine obfita. Gundelia with wing-pointed prickly Leaves, and a webbed woolly Head.

This Plant was difcoven

Jician. The #*& Name is /&,*£. ^
Trint Tri out many fitrong Veins on each Side. B«we n Z Leaves «, fa the FJower-ftalk, which is af S< as a Man's Thumb, about Two Feet hieh frZ;

tyuwhich rife above a bifid reflexed Sti«ma 🛌 fituated under the °Tul-

Arf is 9 Cwn & Growned . 2 represents the Take on. how the Five Stanting or

open. I fliews the Freit one open korizontally, 19 rerepresents the Tube spread prefent the Five Cells, which are fektion all finition; for there are 1912y nines: than Two or Three Sheels which could to \$2.turily in each others are

abortive. At k is flewn one of the Seeds Jepanied from the Receptacl

Man's Thumb, about two recembers of the state of the stat பதுளர் நடித்தை[†] produced them from Sepan

LATE

FRAG ARIA, Tourn. J. R. H. 195. Tab. 152. Lin. Con. , «11.55». Strawberry ; in Freuch, Praifer.

**HIS Genus of Plants is ranged in the Seventh Section of Temps of Seath Clair, which includes the Heris with a Reje forter, whole Paintal Juris to a breat comboled of more Seeds milion See.

2 i C in Sles ^ 1 ^ n t s whose Flowers have 2S and many Sept. J wHicharemsertedinthe Empalement,

The Characters of trie Uenus are,-

r^ Empalement of the Flower is plain, of One Leafwhich is <ut deeply into Ten or Twelve a/ute Sgtents' which are alternately large and fmall, and is pe/mZen/ Tk? Flower has Five or Six roundijh Petals, which are it ferted m the Empalement; and about Twenty awlZped Stamina which are Jhorter than the Petals, terminateit lunular Sumits; and a great Number J rm.nr colMedintoaroundUhHeid, eaThZi*itk^Z to their Sides, crowned by fingle Stigmas. The Lmta afterward turn to an oval pulpofe foft Fruit fitting m the Empalement, having many fmall Seeds.

The Specie here reprefented is,

FRAGAKiA foliisovatis crenatis nervofis, calydbus maxims Strawberry with oval crenated veined Leaves, and the Jargeft Empalement.

troSL of Strawberry has been of late Years incame wllnto the Eph Gardensh but from whence it ITrnJAZTe "I 3] of s to know. Some Perfons haveam?? dnn AS broUght from Louifmna; others, t Kind fun gmaty but I received fome Plants of _____

tholoo^ $\int_{\Lambda}^{1} 1 \circ \int_{1}^{1} this$, $S \circ 4^{ave\ a} \%$ TM Refemblance to

are Juch langer, and are hairy. The Footbalks of the Flowers are flrunger, the Flowers are much longer, and the Must approaches to Size, Shape, and Colour, to the Chili Strawberry. Whether this is a diffinet Specie, or an autidental Variety which earne from Steels, I fluid nee take upon me to determine, fince it has an Affinity her Species. But as this Sort pro-tity of Fruit when this sore

pt dear from Runners, and the Fruit is very lergs. to it is worthy of Cultivation

dee X cuf Ar The mpalement of the Fruit, which is

and Stylw in X f.c. io the numerous Stamina when £ f h natural Size. .птрајеina,

J^rmen, and h One of the Seeds Separated Trom





E Eminds date

While water to be of the wife the say it was



P L A T E CCLXXXIX.

CoRON_{ILL}A,#Wm *Injl. R.H.* 650. *Tab* 419- ^Rf *Ueth. Plant.* 163. *Lin. Gen. Plant.* 789. Jointed podded Colutea *vulgo*.

HIS Genus of Plants is ranged in the Third Section of Tournefort's Twenty-fecond Clafs, which includes the Trees and Shrubs with papilionaceous Flowers, whole Leaves are composed of sever al Pairs of Lobes placed on each Side the Midrib. Mr. Ray ranges it, in his Appendix amongil the Trees with papilionaceous Flowers and winged Leaves, whose Branches have no Spines. Dr. Linnieusplaces it in the Third Section of his Seventeenth Clafs, which contains the Plants which have Buttersty Flowers with Ten Stamina* Nine of which are united together, and the other is separated.

The Characters of the Genus are,

The Empalement of the Flower a is of One Leaf, fhort, namefled and erecl, divided into Two Parts, which are deried in Five Parts at the Brim, the Three under Segments arefinall, and the Two upper join togethen The Mower b is papilionaceous; the Standard c is heart-Jhaped, JreEl and larger than the Wings, d, d, are the Two Wings '\' ded-thefe are oval, and, in their natural State, con-ZTe töward\' each other. The Keel e isfiorter than the wLs- it is compreffed, pointed, and turns upward. It Zlthen Stamina f, Nine of which are joined at g, and OneIfelted ath; thefe rife to almojl aright Angle with th/r Bate and have broad yellow Summits. The Germen 'Ler dandobbung fuppersing a brifily Style, crowned by a n nhtufe Sti?ma. The Germen afterwards becomes a It (lender Pod i, with One Cell, divided into fever al Joints,

co-1 CORON LL A fruticofa, folio Wundenis, extimo majore, T'n Sp.Pl^{ant}, 745' Shrubby-jointed podded Colutea, hofe Leaves are composed of Eleven Lobe\$, the outer laraer than the inner.

Th's Plant rifes with a fhrubby Stalk, from One to Tl ree Feet high, dividing into many fmall Branches, hich are aarnifhed with Leaves placed alternately, each h cr composed of Eleven inverted heart-shaped Lobes, which are of a ftivery-green Colour, and fit close to the Midrib, each Leaf having Two large oval Stipulae at h "Safe, ending in a Point; which Chara&er difftina Thies this Specie from the others of the Genus. The Flowers stand upon long Footstalks, which arise from 1 e Win h of the Leaves, and are clustered together in Sort of Head at the Top; they are of a bright yelic Colour, and of the Buttersly Kind of Flowers, h of Two Wings on the Side, a Standard which is

ere<5t, and a compreffed Keel at the Bottom, as is reprefented in the Figure, with Nine Stamina joined, and One Handing feparate; thefe, with the Germen and Style, are (hut up in the compreffed Keel of the Flower, which turns upward at the Point. The Flowers appear in \Aprils and, when they decay, the Germen fwells to *-Pods about Two Inches long, divided into Three or Four Joints, each containing One oblong Seed, which ripen the latter Part of Summer.

Dr. Linnaus has fupposed this Plant to be the same with that which is figured by Pro/per Alpinus, in his Book of Exotic Plants, in which he has been followed by several Authors; but whoever will examine the Figure and Description given by Alpinus^ will find his Plant has not those remarkable Stipule" to the Leaves, as has the Plant here represented, which is fo remarkable as not to have been omitted by an Author so accurate as Alpinus. The Seeds of this Plant were fent me from Paris, and the Plants which arose here have all this Character, and their Leaves retain the filvery Colour; fo that it is certainly different from the Plant which we exhibited in the 106th Plate, though we then supposed they were the fame. J,* L* **L* ** ^^J^TtJ^J J

Fig. 2. CORON ILL A *frulicofa*, *leguminibus* craffioribus^ *foliolis feptenis aqualibus*. Shrubby-jointed podded Colutea, with thicker Pods, and Seven equal Lobes to each Leaf.

This Plant rifes with a fhrubby Stalk to the Height of Four or Five Feet, fending out Branches on every Side, which are taper, fmooth, and of a light-green Colour, which are garnifhed with leaves placed alter-Thefe are, for the moft part, composed of Seven broad inverted heart-fhaped Lobes, of a lightgreen Colour on their upper Side, but are grey on their under Side, (binding upon very fhort Footftalks. Thefe Leaves have no Stipulse to their Bafe, as those of the former, but are naked. They are Three Inches long, and fuftain at their Top a Cluiter of yellow Flowers in a Head, which are fhaped like those of the former Sort, but are larger and of a lighter Colour. Thefe have an Odour like the Jonquil, but not fo ftrong. The Flowers of this appear the End of *ORober>* and continue in Succeflion till April; fa that the Plants make a fine Appearance all the Winter Seafon, when there is a Scarcity of Flowers; and as the Plant is fo hardy as to live abroad in warm Situations, or may be kept with a little Shelter in Winter, fo it is worthy of a Place in every good Garden.

As this Plant has not been figured or defcribed by any Botanic Writer which we have met with, fo we thought it worthy of a Place in this Work.

P L A T E CCXC

E L i A N L H ET accentage R. H. 248. "Tab. 128. ihlianthemunjive Cham*djtus, RaiiMeth. Plant. 109. Qfius, Lin. Gen. Plant. 598. Dwart Ciftus, or Dwarf Heliotrope.

HIS Genus of Plants is ranged by *Toumefort* in \he Second Section of his Sixth Clafs, which in-Ax...th. Herbs with a Rofe Flower\ wbofe PointalorEmNUMB. XL1X.

palement becomes a Fruit with One Capfule or Cell. Mr. Ray places it in the Firft Se<5lion of his Twenty-fecond Clals, which contains the Herbs with Flowers having Five Petals' wbofe Seeds are indofed in a Capfule. Dr. Linnaeus ranges- it in the Firft Seftion of his Thirteenth Clafs, which includes thofe Plants wbofe Floivers have a great Number of Stamina, and but One Style; and joins the Plants of this Genus with the Cijtus_y the Flowers of both agree-

D d d

ing well together in their Characters; but as the Fruit of the *Ciftus* has Five Cells, v/hich contain the Seeds, fo Tournefort feparated them, and has put them in different Sections of his Sixth Clafs.

The Specie here reprefented is,

utrinque incanis, calycibus iriphyllis. Shrubby erect Rock-rofe, with oblong Leaves growing oppofite, which fit close to the Branches, are hoary on both Sides, and the Flowers have a Three-leaved Empalement. This is the Helianthemum Algarvienfe, Halimi folio, flore luteo, punk ante macula infignito, Tourn. In R. H. 250. Dwarf Ciftus of Algarve, with a Seapurflain Leaf, and a yellow Flower, marked with purple Spots.

This Plant rifes to the Height of Three Feet; the Stalk is flirubby, and is covered with a brown Bark; the Branches come out oppofite, and crofs each other, fo as to form a Sort of Pyramid, the lower Branches being the longeft, and diminish gradually to the Top; thefe aregarnished with spear-shaped Leaves about One Inch long, and a Third of an Inch broad in the Middle, drawing to a Point at each End; they are of a hoary Whitenefs on both Sides, like those of the Seahoary witherers on both sixes, like the Branches. The country with Branches, and the Branches. The country of the Branches, and the country be Footi.

Length below the I-lowers, which come out upon fcparate Foot (talks near Two Inches long, which are ranged by Pairs oppofite, each being terminated by One Flower, composed of Five heart-iliaped Petals of a bright yellow Colour, each having a purple Spot near the Tail or Bottom. Thefe have an Empalement com-CISTUS fruticofus ereftus, foliis oppofitis feffilibus cblcng pofed of Three Leaves ending with flarp Points, repanded, c flows the Buds of the Flowers, which are frequently produced by Pairs on the fame Footftalk, One of which falls off without flewing the Flower; fo that there is but One Flower upon each Footflalk which opens. The Petals of this Flower continue but a very hort time before they fall off: The Flowers, which are fully expanded in' the Morning, at which time they make a beautiful Appearance, are over before Noon; by which time all their Petals will have fallen off. In the Center of the Petals is fituated a roundifh Germen, reprefented at e, which is attended by a great Number of Stamina, reprefented at /; One of which, with its Summit, is flown at d. This Plant flowers in June and July\ but the Seeds feldom come to Maturity in England. It grows naturally in Spain and Portugal* from whence I have received the Seeds.

> As the Characters of this Genus have been already exhibited under the Article *Cfius* in this Work, fo we have not inferted them here. The Beauty of this Plant engaged us to give its Figure and Defcription, efpecially as they have not been done in any Botanic Work vet extant.

largec than the other.

ACACIA, *Tourn Jnfi R H. 60₅. Tab.* 375. R_{nH}Metb. Plant. i6i.Mmofa, Lin. Gen. Plant. 597, Egyptian Thorn; in French, Cafie.

THIS Genus is ranged in the Fifth Section of Tournefort's Twenneth Clafs, which includes the Trees and Shrubs with a Flower of One Petal, whose Pointal becomes a podded Fruit. Mr. 2^ places it among the they Trees whose Flowers are collected in globular Heads Dr opposite, and these are each garnished with upwards of Linnaus has joined all the Species of this Genus'to the Mimofa, or Senfitive Plant, which he ranges in the First Seftion of his Thirteenth Clafs, which includes thofe Plants whofe Flowers have many Stamina and One Style. the Footftalks, which fuftain the Flowers; thefe are

The Characters of this Genus having been already exhibited in this Work, we fhall not repeat them here.

The Specie her£ reprefented is,

Us fpinofis*filiquislatis. Egyptian Thorn with double winged Leaves, whofe Lobes are equal, the Stipulse thorny, and the Pods broad. The late Dr. William Houftoun fent the Seeds and Specimen of this Tree to England by the following Title: Acacia fpinofa tenuifolia* filiam's lath* fpinis minimis recurvis folitariis. Prickly Egyptian Thorn, with narrow Leaves, broad Pods, and very fmall recurved Spines ftanding fingly.

Tftt^ ffW '^RWB^\overline{S^a^^STSnWpKI in New Spain, where it was difcovered by the Gentleman beforementioned. It there rifes with a (lender Stem to the Height of Twenty Feet, fending out many weak

Bra hor ~~v — v Side, which are armed with rooked

d | // ** ? \rf \bar{W} \bu \% 1 fainged; they are composed of Five or Six Pair of Wings placed Twenty Pair of narrow oblong fmall Leaves or Lobes, placed along the Midrib, which is also armed with very fmall Spines. From the Wings of the Stalk come out from Four to Seven or Eight Inches long, and have fmall Footftalks branching from them, each being terminated by a globular Head of Flowers, reprefented at a, which are of a pale yellow Colour. The Flowers* which compose the Head, are tubulous, and cut at the ACACIA foliis bipinnatis conjugatis, foliolis aqualibus, fiip Brim into Four or Five fhort Segments, and inclose a great Number of Stamina, crowned with oval Summits, reprefented at c*c. The Germen b is fituated at the Bottom of the Tube, fupporting a Style the Length of the Stamina, as is ihewn at d. The Germen afterwards becomes a long broad Pod, reprefented at/, having feveral oblong oval Seeds, marked g, which are alternately

COCCOCO STATE annino. NEXETA folia pinnates conjugates folioles aqualitus fapulis

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PLCCXCIII



P L A T E CCXCII.

ALOE, Tourn. Infi. R. H. 366. Tab. 191. Raii Meth. Plant. 117. Lin. Gen. Plant. 389. Aloe.

HIS Genus of Plants is ranged in the Second Se6tion of Tournefort's Ninth Clafs, which includes the Herbs with a Lily Flower of One Petal cu&into Six Parts, whofe Empalement becomes the Fruit, Ir. Ray places it in the Second Sedtion of his Truty-third Clafs, which contains the fflants with a Flor of One Leaf divided into Six Parts Mt the Top, whojWplowers fit upon the Fruit. And hejvery juftly b^mdj^fTournefort for the Loofenefs of his Charaders-, for, as M obferves, the Flowers have no Empalement, but fit upon the Embryo of the Fruit, und are naked. Dr. Linnaeus ranges it in theFirft Sedlion of his Sixth Clafs, which includes those Plants whofe Flowers have Six Stamina and One Style.

The Characters of this Genus having been already exhibited in this Work, we fhall not repeat them here.

The Specie here reprefented is,

ALOE foliis linguiformibus variegatis, foribus pedunculatis cernuis, ore incequali. Aloe with variegated tongue-fhaped Leaves, and nodding Flowers upon Footftaiks, whose Brims are unequal.

This Aloe was raifed from Seeds in the *Chelfea* Garden, which were brought from the *Cape of Good Hope* by Captain *Hutchinfon* of the *Godolphin Indiaman*, and the

laft Summer it flowered for the first time in England* which engaged us to give a Representation of the Plant in this Work, as it is One of the mod beautiful Species of this Genus.

The Leaves of this Plant are thick, fucculent, and flat, fhaped like a Tongue, but terminate in a Point; the longeft Leaves are about Six Inches, but the lower-Ones, marked a, are not more than Three, and their Breadth at the Bafe, where they are broadeft, an Inch and a Quarter. Thefe Leaves embrace each other at their .Bafe. Their Surface is fmooth on both Sides. They are of a deep-green Colour, finely marbled with white on every Side. Between the Leaves come out the Footftaiks of the Flowers, reprefented at b -, thefe are naked, and rife a Foot and half high, their upper Part being garnifhed with Flowers, (landing upon fhort nodding Footftaiks, reprefented at c. The Flowers are tubulous and recurved, as is flewn at d. The Mouth or Rim of the Tube is cut into Six unequal Parts, as is reprefented at e. The tubulous Part of the Flower is of a bright Coral Colour; but the Mouth is of a dirty-White. Within the Tube there are Six Stamina, terminated by headed Summits, as is fliewn at/. Thefe are fhorter than the Petal of the Flower; and between thefe is fituated a {lender Pointal of the fame Length, crowned by a pointed Stigma. The Flowers of this Plant appear in July, but they have not as yet been fucceeded by Fruit in England.

P L A T E ccxcm.

CARDUUS, Tourn. Injt. R. H. 440. Tab. 253. Raii Meth. ** I Plant. 40. Lin. Gen. Plant. 832. Thirties in French, Chardon.

THIS Genus is ranged in the Second Seftion of Tourneforfs Twelfth Clafs, which includes the Herbs with flofculous Flowers, whofe Seeds are crowned with Down. Mr. Ray places it in his Ninth Clafs, which contains the Plants with compound Flowers, having many piped Florets collected in a Head. Dr. Linnaeus ranges it in the Firft Divifion of his Nineteenth Clafs, which includes the Plants with Flowers composed of many hermaphrodite Florets^ whose Stamina and Style are connected at their Base.

The Specie here reprefented is,

CARDUUS foliis feffilibus bifariam pinnațifidis, laciniis alter nis ereftis^ calycibus globofis villofis, Hort. Upfal. 249. Thiftle with Leaves fitting clofe to the Stalks, which are two ways wing-pointed, the Jags being alternate and ere6t, and globular F.mpalements, which are hairy. This Plant is titled by Cafpar Bauhin, Carduus capite rotundo tomentofo, Pin. 382. Thiftle with a round woolly Head. Tournefort, and fome others, have adapted the fame Title 5 but Parkinfon calls it,

in his Herbal, Carduus totnentofus, ccrona fratrum diclus^p. 978. Woolly Thiftle, called Friers Crown; the common &ngli(h Title is Woolly-headed Thiftle.

This Plant grows naturally in feveral of the middle Counties of E'ngland, as in Warwickjhire, Northampton-fhire, Leicejlerfhire, and Cambridgefhire, but is not found any-where near London. It is biennial; the Plants, which rife from Seeds one Year, fpread out their Leaves very far on every Side, but do not rife to flower till the next Summer, when they produce their Flowers and Seeds •, foon after which they decay.

The lower Leaves, which fpread on the Ground, are often Two Feet long; they are narrow, and have a leafy Border running along the Midrib -9 the Segments of the Leaves are alternate, and point upward, each being terminated by a long brown Spine-, the Flower-ftalk arifes from the Center of the Plant, and grows to the Height of Four or Five Feet, fending out upward feveral Side Branches: Thefe are garnifhed with Leaves of the fame Form with the lower, but are fmaller gradually to the Top. The principal Stalk, and alfo the Side Branches, are terminated by globular Heads of Flowers; which are composed of many Florets, included in one globular prickly Empalement, represented at a. This is curiously wrought over with a fine webbed hairy Down

cbetween the Spines, which makes a fine Appearance, and &t the Top the Florets appear, which are of a beautiful purple Colour, as is shewn at h. These Florets are all hermaphrodite, each having along Tube, which fits upon the Embryo, as is reprefented at c and d, and an; cur at the Top into Five Segments. At e is reprefenced the Seed taken out of the Empalement, crowned

with uo i^uy Du^{\wedge} at/; the rive Stamina and the Style are reprefented as they are connected the Thibse of the Mower cut ____ Style taken out of the F¹-"— Is reprefented at ;, beno- in '\ full Length.

The Plant flowers the Beginning of July, and the Seed ripens in the Autumn.

$\mathsf{P} \ \mathsf{L} \ \mathsf{A} \ \mathsf{T} \ \mathsf{E} \ \mathsf{CGXCIV}.$

SOLANUM, Tounu Infi. R.H. 148. Tab.62. Raii Metb. plant, 74. Lin. Gen. Plant. 224. Nightfliade ^ in French, Mcrelle.

'TOurnefort ranges this Genus of Plants in the Seventh Se&ion of his Second Chfc, which includes the Herbs with a wh eel-fh aped Flower of One Petal, whofe Pointal becofnes a foft Fruit. Mr. Ray places it in the Third Seftion of his Seventeenth Clafs, which contains the Herbs bearing Berries which grow fparfedly. Dodtor Unnaus ranges it in the First Seftion of his Fifth Clafs, which includes those Plants whose Flowers have Five Stamina and One Style.

As this Plant (hews the diftinguilhing Charafters of the Genus veryobvioufly, fo we (hall infert them here.

The Flower has a permanent Empakment of One Leaf, which is cut deeply into Five acute Segments, reprefented at d. // has One wheel-fhaped Petal, fhewn at f, with a very jhort Tube. The Brim is large, five-pointed, a little folded, and plain, reprefented at b. // hath Five fmall awl-fhaped Stamina, fupportingfo many oblong Summits, which naturally approach each other, reprefented at h, and a roundifh Germen, fupporting aflender Style, which is longer than the Stamina, crowned by an obtufe Stigma, reprefented at e. The Germsn afterwards becomes a roundifh finootb Fruit, fhewn at i, having a convex flefhy Receptaculum, as is reprefented at m, filled with roundifh Seeds, fhewn atn.

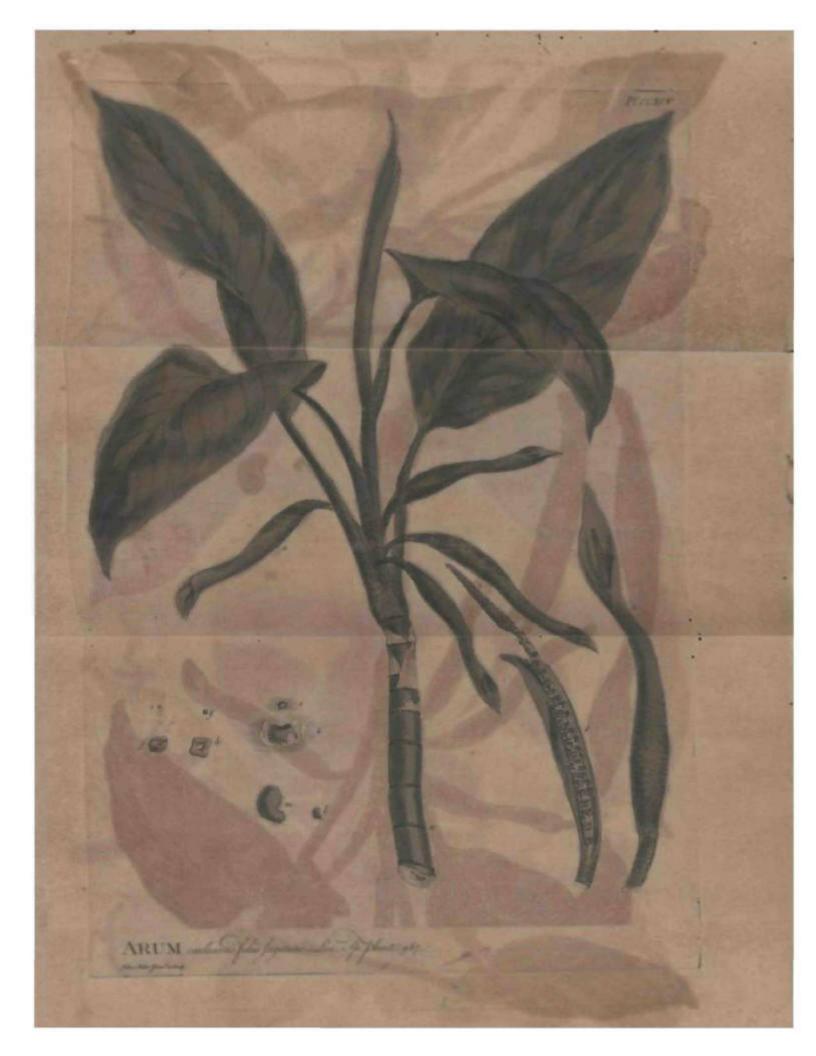
This Plant has been *very* lately introduced into the *Englifh* Gardens from *India*; and as it hath not been mentioned by any Botanic Writer, fo we have exhibited its Figure in this Work by the following Title,

SOLANUM caule inermi fubfruticofo, fcliis oblongo-ovatis finuatis utrinque glabris, JJoribus alaribus. Nightfliade with an unarmed almoft (hrubby Stalk, oblong oval

and Flowers coming from the Wings of the 5

The Stalk of this Plant is taper n deep-green Colour when young* b lower Part becomes lignc It rifes from Two to Three reer nigii, and Branches irregularly on every Side, which nr. with oblong oval fmooth Leaves, Four < long, and Three broad in the Mic1 . irregularly finuated on their Edges, enu.^,... of a deep-green Colour, and ftand "upo ftalks, placed without Order on the Branchtthe Wings of the Stalk come out the Footftaiks, w r fuftain the Flowers-, thefe are fhort, and have Jr.quently One or Two fmall Leaves below the Flow, r, which generally are cluftered together at the To,), firting clofe to the Footftalks. The Flowers are lir7.% of a fine blue Colour, having a very fh. fpreads open almost flat above, having nvu ^, 1; - ^ or -Angles, as is reprefented at a, where the back Part of j the Flower is (hewn clofing inward; at b the Slower is \setminus (hewn fully expanded, with the Five oblong Orange-* I coloured Summits fitting in the Tube of the Petal* \ After the Flower fades, the Germen fwells to roundifii j fmooth Fruit, almost as large as a Walnut, with its outer 1 Cover, of a deep-green Colour firft, but, when ripe, changes to a pale yellow, filled with a foft Pulp, in' which are lodged a great Number of oval Seeds.

It begins to (hew its Flowers in *June*, and there is a Succeflion of them on the Plants till Winter. The early Flowers will be fucceeded by Fruit, which will ripen late in the Autumn, unlefs the Froft deftroys the Plants before; but if the Plants are removed into a moderate Stove, they may be preferred through the Winter.





Belle Harring . Statistic andry to the of Walnut by the the state to

ARUM, Tonrn. Inft. R. H. 158. Tab. 6g. Rail Metb. Plant. 74. Lin. Gen. Plant. 915. Wake-Robin, or Cuckow-Pint; in French, Pied de Veau.

The Characters of this Genus are.

XTT'H E Flower hath a large oblong Spatfap (or Sheath), *- marked a, which is clojed at the Bottom, compreffed in the Middle, and open at the Top, as is reprefented at b: The Spadix (or Stalk), which fuft aim the heaves and Flowers, is fingle, marked n; upon the Top of which are fituated the Male Flowers, as is fbeivn at c-, and below thefe are the 'Germina, marked d. Thefe Flowers have no Petals, or Stamina. One of the Male Flowers is reprefented of the natural Size at e, which is magnified at f: At g is Jhewn an Embryo of its natural Bignefs, and one which is magnified at h. The Embryo with its Cover is reprefented of its natural Size at i, and another magnified at k; and at 1 is fnewn the naked Embryo of its natural Size; and at m is another magnified. Thefe Germina afterward become Berries, with One Cell, inclofing a fingle Seed.

This Genus of Plants is ranged by Tournefort in his Third Clafs of Plants, which includes the Herbs with an anomalous Flower of One Leaf, fhaped like an Ear or Flood. Mr. Ray pUces it in his Seventeenth Clafs, which includes the Herbs bearing Berries. Dr. Lannaus ranges it in the Seventh Section of his Twentieth Clais, which includes those Plants whole Flowers have many Stamina, which fie upon the Style or Pointal.

The Specie here reprefented is,

ARUM caulefcens, foliis fagittatis, Lin. Sp. Plant. 967. Scaiky Arum, with arrow-pointed Leaves. In the Gardener's Didtlonary it is titled, Arum caulefcens, foliis fagittatis, fpathd declinatd claufdy Stalky Arum, with arrow pointed Leaves, and a declining clofcd Sheath. Plumier titles it Arum arborefcens, fagittaria foliis. Plant. Amer. 44. Tree-like Arum, with arrow-pointed Leaves: And Sir Hans Sloane, in his Hiftory of Jamaica, calls it Arum caule geniculato, canna Indies foliis. Cat. 63. Arum with a jointed Stalk, and Leaves like the Indian Cane. In the Weft-Indies it is commonly called Dumb Cane.

This Plant rifes, with a jointed green Stalk, to the Height of Eight or Ten Feet, and is about the Size of a, large Walking-ftick: The Leaves come out toward the Top, in an irregular Order; they are oblong, of a lightgreen Colour, and are from Seven to Ten or Eleven Inches long, and Five or Six bro'd in the Middle., having Two Ears at their Bafe, like the Beards of an Arrow. Their Footftalks embrace each other at their Bafe, and between thefe come out the Spathse, or Sheaths, as is reprefented at a. They are Five or Six Inches long, of the fame Colour with the Leaves, fwelling at a frnall Diitance from the Footftalk, and comprefled again in the Middle, opening a little at the Top, where the Point of the Spadix appears, upon which the Flowers are irregularly placed: Those at the Top are formed into a close Spike, but those below are ranged fparfedly. The Sheath is clofely fixed on one Side to the Spadix, fo cannot be feparated from it without being torn; but on the oppofite Side it may be opened, fo as to flew the Spadix, with its Embryo, as is reprefented at $d\Lambda$ and it is only upon this Side of the Spadix that the Flowers are ranged, for the Sheath clofely adheres to the other. The Embrya on the lower Part of the Spadix have each. a fmail Cover, composed of Five very fmall white Leaves, which are fattened to the under Part, and feparate above, as is flewn at i and k. The Embrya are green, kidney-fhaped, and have brown Covers. The Male Flowers, at the Top of the Spadix, are of an irregular fquare Figure, and are brown. The Embrya do not come to Maturity in England^ the utmoft Perfection they have yet arrived to is as that reprefented in its natural Bignefs at /, and is magnified at m. The Time of its Flowering is in the Spring of the Year; the whole Plant is filled with a fharp acrimonious Juice, which will blifter the tender Skin, if applied to it; and, if a Part of the Leaf is broken and applied to the Tip of the Tongue, it occasions a very painful Senfation, caufing the Salivary Dufts to fwell, and brings on a greac Defluxion of Saliva: The Inhabitants ot the Sugar Ifiands fometimes rub the Mouths of their Negroes with the Juice of this Plant, by way of Punifhment; and as this fwells their Mouths, fo as to prevent their eating or fpeaking till the Swelling is afiwaged, it is called by them Dumb Cane.

CCXCV1.

40. Tab. 56. Dracunculus, Tourn. Inft. 160. Tab. 70. Dragon; in French, Serpentaire.

The Chara&ers of this Genus are,

NIMB, L.

jT hath a large boat-fhaped Spat ha, of a leathery Confift-• *• ence, with One Valve, reprefented at a, and a fingle cylinrical Spadix, on the upper Part of which the Parts of Frucment, nor any Petals which can bepropfrlyjo called* In this Specie there are but Two Stamina in each Flower, which have fpatle-fhaped Summits, reprefented at c and d of their natural Size, and at c c magnified. The Germen e is Jhaped like

DRACONTIUM, Lin, Gen. Plant. 916. Arum Plum. Amer. a Vafe, having a coloured Crown, which is fhewn magnified at de, and at f there are Three of the Germina cut iranfverfely, wherein are feen the Embrya of Two Seeds.

The Specie here reprefented is,

DRACONTIUM foliis pertujis^ caule fcandente, Lin. Sp. Plant. 968. Dragon with perforated Leaves afid climbing Stalks. Plumier titles this Plant, Arum hederaceum, amplis foliis per for atis. Plant. Amer. 40. Tab. 56, 57. Climbing Cuckow-Pint, with large perforated Leaves.

This Plant grows naturally in many of the Ifiands in tne Weft-Indies, where the Stalks fallen themfelves to Еее t\>~

the Treris which are near them, by their Roots, which are put out at each Joint, and fix clofejy to the Bark of the Trees; fo chit if the Stalks are cut off below, thefe Roots will draw Nourifhment fufficiefct for the Growth of the Plant, from the Trees to which they are fattened; fo, by this Means, the Plants will rife to the Top of the higheft Trees. *In Europe*, where they must be kept in a warm Stove, if the Plants are placed near the Wall, the Roots which come out from the Stalks will faften to the Wall, and thereby mount to the Top of the Stove; but those Roots which come out on the oppofite Side to the Wall, will hang down feveral Feet; and if, in their Way downward, they meet with any Pot of Earth,. they will faften themfelves into it, or to any other Support near them. The lower Part of the Stalks are feldom larger than a Goofe-quill; but that Part of the Stalk which immediately fuftains the Flower, is often as thick as a Man's Thumb. They are cylindrical, of a deep-green Colour, jointed, having a fingle Leaf at each Joint, whose Footstalks do almost embrace the Stalks with their Bafe. The Leaves are from Five to Seven or Eight Inches long, and from Three to Four or Five broad. On each Side of the Midrib are Two or

Three Perforations of an ob!o:,o., ., ,,,,,,,,,,,, n_{ir}, v., ..., if they were eaten by fome Iniccls, as is reprefented ac The Spadix arifes at the Top of ttic Stalk, and is embraced by the Bale of the Footilalks of the Leaf: This has a large boat-fhaped Spatha (or Sheath), which opens on one Side the whole Length \ and when the Parts of Fructification arrive near to Maturity, the Spa* tha (or Sheath) feparates from the Spadix, leaving it uncovered in the manner as is here reprefented, having Marks of the Parts of Fructification on the Infide, which appear like fo mafty Spots. The Time of this Plant's Flowering is not conltant; fometimes they appear in the Spring, and at others in the Autumn; but they are of long Duration, frequently continuing Five or Six Months: But the Fruit does not come to Maturity in England.

As there has not been any good Figures of thefe Two Plants, wherein the Parts of the Fructification have been well reprefented; and thefe having, for fome Years paft, produced their Flowers in the *Cbelfea* Garden, fo I have taken the Liberty to exhibit the Plants in ths belt State to which they have arrived here.

P L A T E CCXCVI

£IG. 1. GLADIOLUS. *Tourtt. Ray. Lin. i\$c.* Cornflag; *in* French, *Gaicul.*

As the Characters of this Genus of Plants have been already exhibited in the Courfe of this Work, ic is unnece/Tary to repeat them here.

The Specie here reprefented is,

GLADIOLUS, foliis enfiformibus^floribus alter his of corollis patentibus. Cornflag, with fword-(haped Leaves, Flowers ranged alternately, and fpreading Petals.

This Plant grows naturally at the *Cape of Good Hope*, from whence the Seeds were fent to *Holland*^ where the Plants were raifed by Mr. *Willem Vanbazen*, near *Ley den*, who was fo kind as to fend me a Root of it.

The Root is tuberous and comprefTed, having a greyifh Skin or Cover, from which arife Four or Five narrow fword-lhaped Leaves, Nine or Ten Inches long, and about One Inch broad in the Middle, where they are broadeft, as is (hewn at a \$ of a deep Green, ending in acute Points. Between the Leaves come out the Flower Stem, which is cylindrical, and rifes a Foot and a Half high, reprefented at £, garnifhed with Two or Three fmaller Leaves, according to the Number of Joints in the Stem, which is almost embraced by their Bafe. The Flowers are ranged alternately toward the Top of the Stalk, each being inclofed in a Spatha (or Sheath) of One Leaf, which opens on one Side) as is reprefented at c: The Flower is of One Leaf, which is deeply divided into Six unequal Parts, as is reprefented at the Bottom, and has Three awl-fhaped Stamina, which are inferted at their Bafe, alternately, into every other Segment of the Petal, reprefented at e. The Germen, which is (hewed at£, is fituated under the Flower, fupporting a.(lender Style, which is longer than the Stamina, crowned by a trifid Stigma, reprefented at /. The Flower is of a pale Flefh Colour, and appears in May. After the Flower is paft, the Germen fwells to an oblong blunt Capfule, having Three Cells, which are filled with irregular (haped Seeds. Soon after the Seeds are ripe, the Stalk and Leaves decay, and the Roots remain

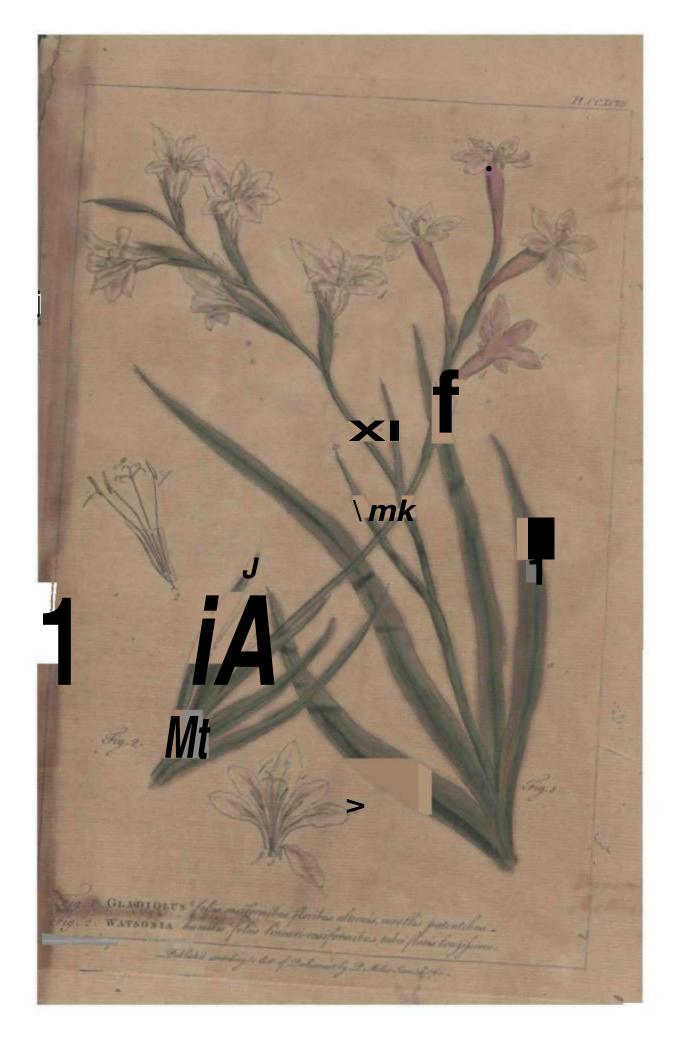
inactive till Winter, when they put out new Fibres, and the Leaves pu(h out early the following Spring.

Fig. 2. WATSONIA.

The Characters of this Genus of Plants have been exhibited already in the Courfe of this Work, fo need not to have been repeated here, were it not for the Alteration of the Title to this Genus. Dr. Two, of Nuremburg, who had a Drawing of the First Sort, before reprelented in this Work, fent him, which was taken from a Plant in Flower in the Chelfea Garden, publiflied it among his rare Plants, under the Title ofMeriana, before he had leen my Book, in which I had given it the Title of IVcdfonia, in Honour of Dr. Watfon, F. R> S. who is a very learned Botanift: But upon feeing my Title, he wrote to me, that he would fupprefs his in his Tables, and continue mine to the Plant, as I had raifed it from Seeds, and had it first in Flower in the Cbelfea Garden: But fince this, Dr. Linntus, in his laft Edition of the Syft etna Natura, has ranged it under the Genus of Antbolyza^ to which he has also added the Cunonia of Butner. But as both thefe Plants effentially differ in their Characters from that which he has chofen to conftitute his Genus, the Flowers of which have but One Stamen, and both thefe have Three; fo there is Ueafou for keeping them feparate: And as the Flowers of Cunonia are divided almost to the Bottom, and are (haped like a Butterfly, fo that (hould not be joined with this Plant, whofe Flowers have long Tubes, the Brims of which are cut into Six equal Parts, fpreading open. This Shape of the Flower alfo removes it from the Gladiolus, to which it is nearer allied than to the Antbolyza \ therefore I (hall continue my former Title to the Genus, and believe those who will examine the Characters, with Im* partiality, will agree with me fo tu do.

1 the $\frac{1}{2}$ rejections represented is $\frac{1}{2}$. $\frac{1}{2}$

WATSONIA bunnW, foliis lineari enfiformibus, '
lotigijfimo. Dwarf Watfonia, with linear fword-iliaped
Leaver, and a very long Tube to the Flower.





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Medicago —	— 174 ~ 175		Refeda ——-		217		<u>pe-2-man 4.4.4</u>)	
	~ [176	٠,	Rheum —		218	H5	X7. 100	
Mefembryanthemum	- 1177		Rhus —		270	180	, 100 124	
3.7.0.11	\$1787	1		-	(219	146	Vitex — 275	
Mefpilus	$-\frac{1}{C^{1}791}$	''9	Ricinus •—-	-	_	147	. W	
Mimofa	— 182	121	Robinia ——=	— `	244	163	Warneria — ~ 285 192	
Monarda ——	- 183	122 .	Rofa	_	221	147	Watfonia — 276 IX4	
Morea	52397		Rubus ——-	~	223	149	Watfonia —	
Morea ——	$^{"}\sim C^{2}403$	59	Rudbeckia —¬	_	224	149	227 -32	
Myrtus —	— 184	123	_			- 1	X	
		ſ	$ar{\mathbf{S}}$				Xeranthemum $\stackrel{?}{-}$ — 279 186	
N		-	Salvia ———	_	225	150	,,,	
Nicotiana —	~ 185		Sambucus —	_	226	¹ 5.		
Nigella	- 187	¹² 5	Santolina —•	_	227	IS*		
		4				•		

PLECC. Has cardate ovatis oppositis feficilibus pecennantibus, spinis craficis Rocibus confectis Dico. Horte. UX~~U~A*

The thorny Sort, -which is common in the Weft-Indies, also agrees with this, having Plants which bear only Male Flowers, Two of which have produced Flowers in the Chelfea Garden; and Dr. Houjloun lent Specimens of the Male and Hermaphrodite Trees from Jamaica to che Author.

The Sort here reprefented is,

SIDEROXVLUM mas inerme. Male Iron-wood without Thorns.

This Tree grows naturally at the "Cape of Good Hope, where it rifes to the Height of our Apple-trees in England. The Wood of it is fo heavy as to fink in Water.

But in *Europe* the Trees do rare!) . r.iorc tL.; Eight or Ten Feet high, dividing incp many Branches which are covered with a Ruffa Bark, and are garnif ed with Ipear fhaped Leaves, about Three Inches Ion; and an Inch and a Half broad in the Middle, ending Points at both Extremities. They are placed witho Order on the Branches, having Footftalks an Inch Ion The Leaves are fmooth, and of a lucid Green, con;, nuing all the Year. The Flowers come out in Clufters from the Side of the Branches, Handing upon fhort Footftaiks, which branch out into feveral fmaller, each fuftaining a iingle Flower, which is fmall and white, one of which is reprefented of its natural Size at g> the other is magnified. This Plant flowers in *May* and *June*.

$\mathbf{P} \quad \mathbf{L} \quad \mathbf{A} \quad \mathbf{T} \quad \mathbf{E} \qquad \mathbf{CCG}.$

LYCIUM, Lin. Gen. Plant. 232. Jafminoides Nijfol Ac. Reg, Par. 1711. Rhamnus C. P. B. 477. Boxthorn

HIS Genus of Plants is ranged in the First Settion of *Linnaus's* Fifth Clafs, which includes those Plants whose Flowers have Five Stamina and One Style. As the Characters of this Genus have been already exhibited in the Course of this Work, it is needless to repeat them here.

The Species here reprefented is,

LYCIUM, foliis cordato-ovatis, oppojitis feffilibus perennantibus fpinis craifis bigeminis, floribus confertis. Di£l. Hort. Boxthorn, with oval heart-fhaped ever-green Leaves, placed oppofite, fitting clofe to the Branches, thick Spines in Pairs, and Flowers in Clufters.

The Seeds of this Plant were brought from the Cape cf Good Hope to the Dutch Gardens, where the Plants were first raised, and have fince been communicated to the curious Botanic Gardens in mod Parts of Europe. Some of the Dutch Botanists have ranged this Plant under the Genus of Randia' from the Shape of the Flower, to which it has a near Affinity, if the Fruit is not admitted as a Charaster; but, if this be allowed, it must be ranged with the Lycia, for the Fruit of the Randia has but One Cell, which is filled with cartilaginous compressed Seeds •, whereas the Fruit of this has Two Cells, each containing a single Seed. It is a low Shrub, which feldom rifes above Four or Five Feet

high, fending out Branches fretrt the Root tinware which divide in Pairs, and fpread afunder^ Tiielt nr covered with a green Bark, as is fhewn in the Figure, and are garnifhed with oval heart-fliaped' ftiff .Leaves, about an Inch long, and Three Quarters of an Inch' broad" at their Bafe, ending in acute Points, fitting cloic to the Branches, and are placed oppofite; they continue green all the Year. At the Divifions of the Branches (land the Spines, which are forked and double: 'they are fhort and ftiff, for the most Part growing ereft. Ac the End of the Branches the Flowers are produced in Clufters, as is reprefented at;;. The Cup of the Flower* fhewn at /z, is fmall, ereft, and (lightly indented at th w Top in Five Parts; this is permanent. The Flower is funnel-lhaped •, the Tube \hat{b} is cylindrical, and a little incurved at the Top, where it is cut into Five acute Segments, which fpread open, reprefented at c. In the Tube of the Flower there are Five awl-fhaped Stamina, terminated by ereft Summits, as at d. The Germen is fituated in the Flower Cup, fupporting a fingle Style, which is longer than the Stamina, fhewn at <2, and crowned by a thick bifid Stigma, marked/. After the Flower is paft, the Germen fwells to an oval flefhy Berry, reprefented at £, which has Two Cells, as is fhewn at h, where the Berry is cut transversely $-\frac{1}{2}$, in each of which is lodged a fingle oblpng hard Seed, rtprefented at k.

This Shrub produces its Flowers in July an&AuguJl₉ which are of a clear White •, and the Fruit ripens the Spring following, which is of a deep-red Colour when ripe.

This Plan": a Native of the Cape cf Good Hope, from v/hence the Seeds were brought by Captain Hutchinjon^ of the Godolphin Indiaman* in the Year 1754. The Rooc tuberous, comprefTcd, and covered with a brownifli in •, from which come out Four or Five narrow iword (haped Leaves, about Five or Six Inches long, and One third of an Inch broad in the Middle, ending in aOute Points, of a dark Green, embracing each other with their Bafe, fee Letter a. From between thefe comes out the Flower Stem b_v which is naked, and rifes a Foot high: Toward the Top the Flowers are ranged alternately, each having a Spatha (or Sheath) which is divided into Two Pans, as is reprefented at c. The

Tube of the Flower is long, narrowed at the Baft, bv? is greatly enlarged above, as is /hewn at d, is cut into Six equal Segments, as is repreienced a: c, which fpread open. Under the Flower is fituated the Germen, fupporting a (lender Style, crowned by a trifid Stigma, each Divifion being bifid and reflexed, as is fhewn at g. This Style is attended by Three flender Stamina, of the fame Length, reprefented //, terminated by moving Summits. The Flower is of a bright Red on the Oiufide, but is paler on the Infide. Thefe appear the latter End of May, and continue in Beauty a Fortnight or Three Weeks -, then the Leaves and Stalk decay, without producing Seeds here.

FRIUMFETTA, Pin,,,. ox.-». 40. Tab. 8. Lin. Gen. Playf, 529. Bartramia Lin. Gen. Plant. 480. We have $.T^* F^* glifh$ Title for this Plant.

The Characters of the Genus are^

"S~IIE Empakment of the Flower is cut into Five linear -* Segments a, which foon fall off; it has, for the meft Party Five narrow Petals b* which are eretl, and Ten jlender Stamina c, which are terminated by roundifh Summits d: In the Center of the Flower is fituated a roundifh Germen, fupporting a hairy Style e, the Length of the Stamina, crowned by a fwgk Stigma: The Germen afterward mina, crowned by a fwgk Stigma: The Germen afterward garmfhed with oval Leaves, ending in long acute Points, becomes a roundifh prickly Fruit, whefe Spines are crooked fome of which are heart-fhaped, and other? have an Anhaving four or Five Cells g, each containing One Seed h.

The Species here reprefented is,

TRIUMFETTA, foliisoblongo-ovatis, obtufe ferratis, petio-/is longijfimis. Triumfetta, with oval oblong Leaves, bluntly fawed, Handing upon very long Footftalks.

This Plant grows naturally in India, from whence the Seeds were brought, which have fucceeded in the Chelfea Garden, where the Plants have flowered and perfected./heir Seeds. It is annual, and perifhes foon after

the Seeds are ripe, fo is very different from that Spedwh.ch Dodor £ * M titled Bartramia, in the former Edition of his Genera, but in the laft Edition of his sZtern he has joined it again to Triumfetta, from which ic only differs ,n having iometimes Ten Stamina, whereas the Triumfetta of Punier has rarely more than Ei.ht V. hen the Flower of this Plant has but Four P«als°(or Segments)- then there are but Eight Stamina in he Flower; but when the Flower has Five Petals then there are always Ten Stamina in each.

The Plant rifes about Two Feet and a Half hi^h fending out fevera Branches on every Side, which are gle on each Side towards the Point. They are from Three to tour Inches long, and aJmoft as much in Breadth in their broaden: Part, Ending upon very long FootitaJks, and are crenated on their Edo;es.

The Flowers come out in long We Spikes at the Top of he Plant, being ranged without Order. They are finall and yellow, feme having Four Peta's and Eight, Stamina, and others have Five Petals and Tea Stamina. After the Flower is paft, the Germen turns to a roundifli burry Fruit, with Four Cells, each con taming One Seed. It flowers in September, and the Seeds ripen in November.

IDERDY VI ... a. fillets. Hort. Eltb. 265. Lin. Gen. Plant. •fWjPJOd. 234.

_The Curators of the Genus are,

hạth f* Hermaphrodite Flowers on different I ' Plaik\$* %€ c Flowers have an Empakment\ which /s *cut into F * , Segments a: Tie Flower is divided into Five > ave Parts b, almost to the Bottom: It has Five ihi/yrw Stamina d, which are terminated by aval Summer % ^tbz Center is placed a roundijh com-

preffed pointed Body, refembling a Germen, f, which ba. neither Style or Stigma, and falls away with the Flower without having any Appearance of Fruit.

This Genus is placed in the First Sedtion of Linnous's Fifth Clafs, which includes the P'mts whofe Flowers have Five Stamina and One Style: But as the Male Flowers grow..on feparate Plants from the Fruit, fo it (hould be refe" 1 to the Twenty-third Clafs. But is not feen the Flowers of thefe as Doctor Linnau. Plants, (0 he may • ufed for ranging them here.



ENGLISH NAMES of the PLANTS

Engraved and Defcribed in this WORK,

									•		
	A		Fig.	Pag.			Fiσ.	Pag.!		Fig.	Pag.
	▲ Cacia, without	Tho		4	Caflloberry -	_	83		Etamal Elama	\131	Ü
	Acacia, the A	meric	an 5	4	Catchfly '	_	170	114	Eternal Flower — —	£279	* _o l 186
	Acacia, the N	arrov	v- 7 g	4	Caterpillar -	_	230	153	Eupatorium of the Greeks	15	100
	leaved	_	3	۱.	Celandine	·-	92	61		13	10
-	.Acacia, the Falfe	_	244	163	Centaury —	_	97	65	F		
	\donis Flower	_	14	9	Chafte Tree — Cheefe-Runnet	_	175	183 j	Felwort —	139	93
	\gaye . —	_	522	148	Chelone —	_	139	93	Fennel Flower — Ferraria — -	187	
	Agrimony ~— Agrimony, theWaterl	— 		7 10	Cherry •—¬	_	93	59	Field Bafil — "—	280	187
ì	Mkanet —	ш	25	43	Chefnut -	_	89	56	Figwort — —	95	⁶ 3
!	AJmond Tree	_•	2b	29 1 0	Chickling Pea	_	84 160		Fir, or Spruce Tree	23 ¹	154 1
			S 19	13	Chickweed, Berry-be	aring	_ 112	7.5	Flax	166	in
	jMoe, African ~	-	292	495	•	ard-	}τ⅓;	129	Fleabane —• —	103	* 6,
	imaranthus, fpiked	_	11	7	feeded —		£.51		Flower de Luce -	154	103
	Amaryllis —	_	24	16	Climber —	_	284	186	Flower Gentle -	22	ijj
	knemony —	_	31	21	Clethra —	_	281	187	Foxglove ← —	J120·	80
	Ir&otis ——		49 201	33	Cnicus —	_	248 آئونا }	165	_	IH2	95
	\rfmart ——	_	201	*34 197	Colutea, joint-podded	d •—	107	>	Fraxinella —— Fumitory, the Podded —	123	82
	Afarabaca common	_	53	35	Colutea Shrubby, joi	introd-"	` '	'	Fumitory, the rodded -		52 52
	^fparagus —	_	55	35	podded -		259	193	Furze ~ -	36 36	9 ^r
	Afphodel —	_	56	< 38	Columbine —		47	3i	1 4126	30	24
				` "	Convolvulus, Scarlet	\rightarrow	214	143	G.		
	В				Corn Flag, Strange	_	40 '		Gentian — 🗕	139	93
ĺ	^famine, Female	_	59	40		By- '	? 142		Germander — —	_264	176
ı	rbadoes Cherry	_	181	121	zantine -	-:	. .	95	_	₹13E	8x
1	berry Bufh	_	63	42	G 71 401	_	2 35	157	Gilliflower —	5135	, ox
	Venwort	_	131	او8			236 297	158 198	Globe Amaranthus	30	14
	leria — -	_	60	40	Corn Flag — Cotton Weed	_		90	Globe Thiftle —	1939	87
	ard Lychnis fard Afarum	_	215	137	CowQip Chickweed	_	i35 30		Goats Rue —	·(I37	9}
	kulm, the Turkey	_	252 129	168	Cranefbill —		30 140	20 94.	Golden Rod — —	$1^{2}54$	169
	Jean Caper	_	134	86	Crowfoot —	_	216	144	Goldylocks — —	1 255 227	152
	gear's Breech	-	7	89 5	Crown Imperial	_	105	70	Groundfel — —	22/	155
	Sear's Ear — ~#.	-•	174	116	Cuckow-Pint	 -	52	34	Gundelia – –	287	133 191
	indweed	_	102	6Z	Cunonia, the Scarlet	-	"3				
	fcird Cherry	_	196	!3i	Cuftard Apple	-	35	75 23	Н		
	Bird's Eye ——	_	14	9	_			,	Hare's Ear — —	74	49
	Bird's Foot Trefoil	_	167	112	D-ff- 431 C				Hartwort — -i-	200	*77
	Sirthwort — (hop's Weed	_	5 i	34	Daffodil Sea — Daffodil Lily —		197	132 15	Hatchet-vetch — Hawkweed — —	2^2 I46	155
	itter Vetch —	_	25 173	17	D'Ayena, Smooth		23	15 79	Hawkweed Greater —		97
	ladder Pea	_	41	129 27	Date Plum Indian	_	118	84	Hawthorn — —	H7 179	98
	•		ș 99	66	Dead Nettle —	_	126	105	Heliotrope — —	144	^{li} 9
	Jladder Sena	-	tioo	67	Dianthus «—		1 ^{4 i 5 8}	81	Hellebore, the Baftard —		96
	Jlue Bottle —		114	76			, 121 [122	81	Hellebore, the White —	^271	2 97
	Jorage —	_	68	45	Diervilla —	_	124	S3 ,	1	\272l	i8r
	Soxthom ← ⁱ	_	171	114	Diofma —		125	83		77	5^l
	cayborn —	_	300	200	Dittany, the White Dodarcia —		123	82	Henbane — —	149	99
	iric^y white —	_	75	47	Dogftune .—	_	127	85	Holly Tree — —	46	3 f
	room, the Green	\equiv	1138	'	Dogftune .— Dogfbane, upright	_	44		Honeyfuckle — — Honeyfuckle, the Upright	79	53
	rowallia —	•-	259 69	'73 46	Dogwood —	_	45	30 ¹ 69	Honefty — —	167 169	112 "3
	iglofs —	-	72	48	Dragon —.	_	10+	69 197	Honeywort — —	91	-
	ilbocodium •	_	240	160	Dragon*s Head	_	296		Horfe Chefnut, theScarlet		61 13*
	rdock —	_	259	106	Dropwort —	_	129	171	Hyacinth Eaftern —	148	98
			_55		Dwarf Ciitus —	_	25') 290	>93	Hyacinth, the Tuberofe	210	I4O
	. с						230		Hydrangea — —	251	167
	is Snout -	_	42	28	Ehana Manatain i				Hypccoon — —	150	Ю
	lock -r-		37	_	Ebony Mountain Elder —	-	61	4,1	_		
	 Trovz —		170	114	Enwny —	•	226	191	I	100	1000
	Iny ,—		131	87	- Liwiny —		3^l	71	Jafmine — —		120*
	i 👺									Já	afmine

ENGLISH NAMES OF PLANTS.

n b- l
Jafmine, the Perfian - Fig. Pag. Mullein the Moth Fig. Pag.
Jerufalcm Sage
Spitjca 17:
spotted SanicJe Spotted SanicJe
Immortal Flower — 270 186 Nightshade
indian Fig
Indige 181 None to pretty - 151 1 Stat of bettieten 192 12H
St. John's Wort J* 1911
Ironwood — Jin 100 Coly — Stonx Tree - 282 1X8
100 ON 1
Judas Tree - W 103 Ornine the Left - Strawberry Tree - 288 192
iv a A 5 6 Othorna — 194 (3) iun Flower the Dwarf ~ 270 I
K ^ J 7
Kin ?fpearc 1011 P Sweetwilliani 214
A/];ipwced —, J 02 Par/ley, the Bafad g
Knapweedi~ (rankory of Spain - 7x 9, 1
Ladies Bedftraw — 159 of Paricipals — — 100 22 Tacamana Tree — 261 jy ₄
Ladies Slipper — 242 161 St Peter's wort 124 TamePoifon — 202 3
Larkfur, Great Bee — ny 70 Phenint's Ew = 51 36 Tetragonia — 263 373
Larkipur taner, perennal 250 167 Pacox 9 Thiffle, the Torch 9 66
Layender Cotton 227 27 3 3 4 4 5 13/ Initite, Melancholy 9+ 62
Laurel theRote or Moun. 7
rain————————————————————————————————————
Tain
Lilac — 57 1.5 Puperith Buffs — 61 41 Tabasa — 166 , , 4
Lily - 169 Poke, or Pork Phylic - 207 13d Trefoil, the Bean 185 124
Lily Afphodel — 109 71 Puentarane — 210 140 1 Trefoil, Carolina Shrub / 78
Libratho Marrison — 23 14 Toppy, the Pricely — 12 Treion, Star-neaded — 267 ; 73
Lion*s Tail — 162 at 1 12 py, at Habriel — 147 g6 Thumbell 243
London Pi ide — 141 Primarofe Tree — 168 1785 Tulin Tree, the Laurels 2
Lungwort — — 212 [41] Privet — — 159 [14] leaved — — J'72 1!
268 l~r ₁
M Typer Flower . 200
Mad wort — — 20 11 Oction —
Wagnona — 1/2 (15)
Note that the street = 209 1
Mallow, the Vervain — 17 Russian = - 216 44 Votch Kidney — 190 1
Walpigina — 151 131 131 131 131 131 Vetch, the Chickling — 96 6
Mandrake — 49 15 Rephyron 15 R
Mania Tara 0 1 1 1 1 2V
£ 75 c= Poulse - 115 145
Marrigold A 76 51 150 k Feb.
1204 - 107 ROS
- Wattonia
Watfonia, Dwarf _ 297 re'
Marty lia = 200 6 Sign 74 Water Lily 220 150
7 vaylaring, free
Meadia 174 5 174 17
Meadow Rue — 265 171 Self-light — 2+3 164 Widow-wail 169 1,
Meariow-fweet — 257 119 Section the wild — F 77 Wild Service — 5 109 +2
Mediar — — 178 21 Senne, the Blackitt — 102 97 Winter Cherry
Mdembryanthemum 177 7 2 Santilla Hararisan - 172 88 Wolffbanc - 206 ,37
Milk vetch 58 122 Side-Gold Flower - 11 Wood-forrel - 12 \$
Monarda — IIJ a Single Guird — wound wort — 41 27
Monk's Hood — ^- 12 159 Snake weed —
Moon Trafoil iie 177 Solomov's Soul ii 16 Yellow Root 280 10-
Motherwort # C2 Sour Son
Moon wort — — 169 113 Southernwood _ 33 23 _ Z
Mullein — KF* 182 South Sea Tree \$2 55
U77 1S5 So.vbn.ad $ 331$