

INDIAN BOTANIC GARDEN LIBRARY
BOTANICAL SURVEY OF INDIA



HYOSCYAMUS. major alla finale umbello floris viridis. Spina

Linnaeus 1753

Planta venenosa a qua yucca dicitur et Pl. Medic. p. 100

P L A T E CL.

HYPERCOON, *Tournef. Inf. R. H. 230. Tab. 115. Hypericum, Lin. Gen. Plant. 157.*

This Genus of Plants is figured in the Fifth Section of *Tournefort's* Fifth Class, which includes the Herbs with a Cross-shaped Flower. It becomes a second Section in the Fourth Class, including the *Dotted* Pod, the *Mower* habit, and Two Species. The Species are represented as follows:

are produced at the End of the Branches; these are yellow, and composed of Four jagged Petals, which are divided into three Parts, as it is represented at *a, b, c*, of unequal Size and Shape; these fit in the Embrasure of the whole Centre arises the double Style, which afterwards become a jointed bending Pod, as is shown at *g*. One of which Joints is represented at *h*, which is split longitudinally at *i*, to show the Seed therein, which is Kidney-shaped, and represents the Seed.

This Plant flowers in *June*, and the Seeds ripen in *August*. If the Seeds of this Plant are not sown in the Autumn, they will not grow the First Year.

Hypericum sibiricum L.

Fig. 2. *HYPERCOON tenuis folis, Inf. R. H. 231.* Narrow-leaved *Hypericum*. This is the *Hypericum filiquis curvatis teretibus cylindricis Hort. Upsal. 31.* *Hypericum* with taper cylindrical Pods, which hang downward. It is also called by *Lobel*, *Cuminum sive Cistifera sibiricum*. Wild podded *Cumin*.

This Sort has very slender Stalks, which bend to the Ground, and are garnished with very narrow fine Leaves of a greyish Colour, like the former; the Flowers are very small, of a pale Yellow, composed of Four Petals, which are slightly indented. When the Flower decays, the Style turns to a taper cylindrical Pod, not jointed as the former. This grows naturally in the same Countries as the former, and flowers at the same time.

Fig. 1. *HYPERCOON latius folis, Tournef. Inf. R. H. 230.* *Hypericum* with a broader Leaf. This is the *Hypericum filiquis arcuatis compressis articulatis, Hort. Upsal. 31.* *Hypericum* with arched compressed Pods, which are jointed. *John Bauhin* titles it *Hypericum filiquifolium, Hist. 2. 499.* Podded *Hypericum*.

This is an annual Plant, which grows naturally in the Islands of the *Azores*, and also in the South of *France* and *Spain*: It sends down a long taper Root into the Ground, which hath many Fibres coming out the whole Length. The Leaves near the Root are broad, jagged, and spread on the Ground; between these arise the Stalks, which are near a Foot long, branching toward the Top, and garnished with fine cut Leaves at the Joints. The whole Plant is of a greyish Colour, and abounds with a yellow Juice like *Celandine*; the Flowers

yet teen ; but the Title which it bears among Fiorifits we do not know, nor is it very material. Since many of these Flowers have several Distinctions in different Countries, so we have given the following Title:

HYACINTHUS Ori>n: alba, flore purpureo Jam-
in rife (? *purpuree**, *virgate*. Eastern Hyacinth,
with a very double white Flower, whole Inside ¹ **S**ek-
gant!) variegated with a Rose and [Purple Colour,

The Root of this Flower is tuberous, round, and covered with a purple Skin. The Leaves are narrow, long, and very succulent: The Stalk rises about Fourteen Inches high, is very thick at the Bottom, thinning all the way to the Top: it is very succu-

lent, and of a deep Green. The Flowers come out on every Side the Stalk, rising above each other in Form of a Pyramid, each (Voiding on a short cylindrical Foot-stalk: these are naked, having no Empilement; but the Petals are clofed at the Bottom, in a sort of Tube, and spread open at the Top, where they are as large and double as small Rofs: The Ground of the Flower is white; but on the Inside it is curiously variegated with Hufe-colour and Purple: So that a more beautiful Flower than scarce be seen than this. It lowers in the Spring, and if it is screened from the Sun in the Heat of the Day, and also from Rain and Frost, if any fluently happen at the Time of its flowering, it may be perfected in Beauty near 3 Months.

Hyacinthus T E CXLIX.

HYACINTHUS, Lin. *Gen. Plant.* 219. *Tournef. Inst. R-
It.* 117. *Tab.* 42. *Herbar.* in *French*, *Jaquelin*.

Genus of PLANTS is ranged in the First Section of Linnæus's Fifth Class, intitled, *Pentandria Monogamia*, the Flower having Five Stamens and One Style. *Tournefort* places it in the First Section of his Second Class, which includes the Herbs with a funnel-shaped Flower of One Leaf, whole Pedicel becomes the Fruit.

The Species here represented is, *Mt* — * , *S* —
Hyacinthus *viridis*, *viridis*, *viridis*, *viridis*, *viridis*,
viridis. Greater Herbane, like the white, with a green Bottom to the Flower.

The Seeds of this Plant were sent by Doctor *Jaquin* to the *Chelsea* Garden; but no mention of the Country where it grows naturally, came with it. This is generally taken for the true *White Herbane* of the Ancients, the Seeds being whiter than those of any other Species, and the Plant agrees to the Descriptive Title given by Doctor *Linnaeus* to the *White Herbane* of *Calabar* *Islands*; which is, *Hyacinthus folio petalano, foveis nigricans, Hort. Cliff.* 16. Herbane with Leaves having Footstalks, and Flowers sitting close to the Branches. But there is another Species which approaches near to this, whose Flowers have a black Bottom, and may have probably been confounded with this, by supposing them to be the same Species. But I have cultivated both near Thirty Years, and have never observed either to vary: For they do not only differ in the Colour of their Flowers, but their Leaves are very different, and the Plants are also different in their Growth. This is an annual Plant, which perishes soon after the Seeds are ripe, whereas the

obtains Sort will frequently live Two Years. The lower Leaves of this are finer and rounder, and I have but few Indentures, which are very obtuse; they are covered with short soft Hair; the Stalk rises near Two Feet high, sending out a few Side-branches, which are also hairy, and are garnished with oblong Leaves, having several obtuse Indentures on their Sides, and stand upon short Footstalks: These are very soft, thick, and succulent. The Flowers are produced at the End of the Stalk and Branches, sitting very close in Clusters, without any Funnel-like. These have but One Petal, whose Bottom is bluish, but is cut into Five Parts, as is represented, the upper Segment being larger than the others, they are all obtuse. The Impalement of the Flower is funnel-shaped, and is cut at the Top into five acute Segments. In the Centre is found the Germen, supporting a slender Style, crowned by a round Stigma, as is represented at *d*. The Germen afterward becomes a Fruit, as is shown at *e*, inclosed in the Impalement, and is shaped like a Pot, with a Lid or Cover represented at *e*, having Two Cells, *I* *U* shown at *f*, divided by a longitudinal Partition, represented at *g*. These are filled with small roundish Seeds adhering to the Placenta. The Roots, and every Part of our common *Black Herbane*, are supposed to have a poisonous Quality; the bad Effects of the Roots have been already mentioned under the Article *Groceries*; and an Account of some Children which were poisoned by eating of the Seeds a few Years since, is published in the *Gardeners Dictionary*. But we have no Account of any noxious Quality in this *White Herbane*, nor has it so offensive a Smell as the black; so that when the Seeds are ordered for medicine, it should be those of the white, and not the black: But as the white is not a Native of this Country, the Seeds of the black are more commonly used.

P L A T E CXLV.

HELLEBORUS, TOURT. 123. R. H. 436. Tab. 9. Li-
wdsirstm. i n. Gen. Plant. 904. Ballard Helle- bore | ifi
fraui, Hlb&T etc.

ljlaidi • anS alio irtam *)«mbusi, where the late Do&oc
Hciiftmn found it growing jJrmi/uJly ontheMounrupl;
fo (hat it is a Nitive of tU rliole CountriM.

THIS Genus of Plants is rang- ed in ibe. Third
Section of *Tournefort's* Flcventh Clafs, which
ineisdris the Herbs with a [X>lypetaloik< anom-
malous Flower, who's Empalement become* thi Fruit.
JUWKI places it in the First Section of his Twentieth
CUts, intituled, i *Synandria Diandra*. The Flower* oi
this Se- ction have only Two Stamina, which are joined
to the Style. The particulae Chmflers of this i genus
are exhibited in the *Qardours Dictionary*.

It hath a cuberoet Root, which is of* yellowifh Co-
itHir, covens with a ro«gh btown St in, and is com-
prefijj « the Top anti Bwiom. The I leaves come out
from the upper Part of the H"ft, whi ch. in large full-
grown R oots, ar • commonly Four. Theft- are Nine or
Ten Inches ing, nritr 'I hrte (^turtrrs uf an Inch broad
in the MidJir, being i ontracted at both Ends, and ter-
minatinf; in Potoi* They I have Five longitudinal Fur-
torn*, fo mewhat like the young Leaves of t'aimi. Thefe
come out in the Spring, and decay in the Autumn. The
Flower-Stalk arifes on one Side of the Leaves, immedi-
ately from the Root, and is naked, taper, and riles a
Foot and half high; the upper Part terminating with a
long loofe Spike of Flowers of a reddifh purple Colour,
compofed of Six diflimilar Petals, reprefented at a and
i. Five of which are placed orbicularly, and the lower
one is hollowed like a Gutter. The Empalement after-
wards becomes a Fruit, d, opening with Two Valves,
e and e; and fome few of the Fruit were lengthened in
the manner as is reprefented at f. This Plant flowers in
June and July, and the Seed fometimes ripen in the
Autumn.

The Specie* here repreftntd is,

HELLEBORUS *Americana*. raUt* tuitrefa i illis • • •
Mgwj. •, caule • *U, fieribus <x rmtre pallide purpuraf-
tmi
at, Martyn. Gen. Pl. 50. *Americana* Ballard Helle-
bore, with a tuberous Root, long narrow Leaves, a
naked Stalk, and Flowers from a red to a pale pur-
plith I Colour. This is the *Helleborus purpurea, tub-
erfa radio, Plum. Cat. 9.* Purple Hellebore, with a
lubcroiii Koot, sod the *IJmetkn. Prod. Loyd. 16.*

long loofe Spike of Flowers of a reddifh purple Colour,
compofed of Six diflimilar Petals, reprefented at a and
i. Five of which are placed orbicularly, and the lower
one is hollowed like a Gutter. The Empalement after-
wards becomes a Fruit, d, opening with Two Valves,
e and e; and fome few of the Fruit were lengthened in
the manner as is reprefented at f. This Plant flowers in
June and July, and the Seed fometimes ripen in the
Autumn.

This i plant grows naturally in *America*. I have re-
ci ed i the Roots of this from *Perthamnia*, which were
ent me by Mr. John Bar irjm, and from the *Bthm»*

Although this Plant is found growing naturally in fe-
veral Parts of *North America*, yet it will not thrive in
England, uakh it ii kept in the'Stove.

P L A T E CXLVI.

HELEBORUS, TOURT. 123. R. H. 436. Tab. 167. *marjtm,*
Lin. Gen. Plant. 520. Hawkweed.

at •: Thife lie near the Ground, and between them
rises a branching Stalk near Two Feet high, which hath
a fingle Leaf at each Joint, of the fame Form with the
lower, but are left as they advance toward the Top, it ii
reprefented at k. The Flowers terminate the Stalks;
thefe are compofed of feveral hermaphrodite Flowers, as
is fhewn at c; which are included in a common fealy
Empalement, reprefented at d and e. The Florets are
tubular below, and fit upon a common downy Plicrota,
as is reprefented at f. Each of thefe have a fingle Seed
crowded with Down.

THIS Genus of Plants is ranged in the First Sec-
tion of *Tournefort's* Thirteenth Clafs, which in-
cludes the Herbs with femifolcular •lowen, win;; Seeds
hive Do
Linnaeus places it in the First Section of his Nine-
teenth Clafs, intituled, *Synandria Polygamia Aequalis*.
The Flowers of this Section are compofed of herma-
phrodite Florets, which are fruitful.

The Plant is biennli, ii flgwri in 7«m#, utd the Seeds
ripen in Augft.

Tin Species here fwefed are,

Fig. •• H *HELEBORUS incanum lanuginosum Raynham,*
pubefc. fere. H. L. 673. Hoary woolly Hawkweed
Woolly Mountain Hawkweed.

Fig. 2. *HELEBORUS incanum lanuginosum Raynham,*
pubefc. fere. H. L. 673. Hoary woolly Hawkweed
of *Ragusa*, with a Flower of Moufe-ear. This is the
ANURYALA foliis dentatis-bellota, Lin. Sp. Plant. 508.
Afls: 7ala with Spear-fhaped indented Leave*.
rave*.

The 'Seeds of this Plant were lent me from the Royal
Garden at Paris by Doctur Bernard de Joffes, Demon-
ftrator of the Plants. This hath a thick fibrous Root,
which feeds out many broad obtufe woolly Leaves, which
are irregularly indented on the Edges, as is reprefented
NUMS. X XV.

This Plant hath a perennial Root, which will creep
under the Surface of the Ground, »nd multiply. The
C c
ltwr

lower Leaves are about Four Inches long, and little more than half an Inch broad, very hoary, and indented or finuated on their Edges, ending in acute Points. From the Hoot come out several weak Stalks, which rise about Nine Inches high, dividing toward the Top into Two or Three smaller Branches; these are garnished with small Leaves at each Joint, which are almost entire. The Stalks are terminated by yellow Flowers composed of several Florets, which are hermaphrodite, their lower Part being tubular and cylindrical, but the upper Part is plain, spread open, and is cut into Three Parts. There are several of these Florets included in one common scaly Empatement, and each of them is succeeded by a single Seed crowned with Down.

Every Part of this Plant is very hoary, so it makes a pretty Variety when intermixed with Plants whose Leaves are green: It flowers in June and July; but unless the Autumn is warm and dry, the Seeds will not ripen in this Country nor will they live abroad in the Winter, unless they are planted in a dry Soil, and a warm Situation.

The Seeds of this Plant were lent me by Robert Merritt, Esq. from Spain, where he found them growing naturally: And since I have received the Seeds from the Capitan Gadilert, where I am assured it grows wild, and I also have received it from several other Countries.

P L A T E CXLVII.

lit M - *acium media nigrum Batianum* us. Par. Sal. 185. Gre; ter Hawkweed of Batia, with a black Middle to the lower.

THIS Plant grows naturally in several Parts of Spain, from whence the Seeds have been brought to most of the curious Gardens in *Italy* and *England*; but of late Year it has been generally propagated in most of the Pleasure Gardens near *London*, this is an annual Plant, which perishes in the Autumn, soon after the Seeds are ripe, which if permitted to scatter, the Plants will come up without farther Care.

The lower Leaves of this Plant are near Six Inches long, and are regularly imbricated on their Edges, it is reprefented at the Plate are of a pale Green, and upright near the Ground. Between the Leaves come out either Two branching Stalks which rise upward of Two Feet high; and at each Joint are garnished with a

single leaf, which is imbricated and obtuse. The Stalks are terminated by yellow Flowers, with a black Middle, these are composed of many hermaphrodite Florets, which are included in a scaly Empatement, the lower Part of which is by an involucre, which is generally supposed to be the Flower.

There are Two or Three Varieties of this Plant, the first is yellow, the second is white, the third is black Bottom; and the Third is white, with the same Bottom or Middle. These are generally supposed to be different Varieties of the same Plant.

But these are not enumerated in this Plant in *Mi* *Specus PUntarm-* which may be accounted for, by supposing it to be the same as the *Itacian caper* variety of *Fabius Calaneo*, which he has ranged under his Genus of *Crtfii*, but these are Two very different Plants, which not only vary from Seeds.

P L A T E CXLVIII.

HrACIMTHvs, TMTM. hfi. R. h. 144. Tab. 180. L. 1. Oai. Pit*. 315, H) acanth; in French, Jacinthe.

THIS Genus of Plants is ranged in the First Section of *Linnaeus's* Sixth Class, entitled, *Hexandria Monogamia*, the Flower having Six Stamens, and One Style.

Tournefort places it in the First Section of his Ninth Class, which includes the Herbs with a Lilly Flower.

It is cut into Six Parts, whose Pointal becomes the Fruit. *Lamtm* joins to this Genus, the *Majores* of which has greatly retrenched the Number of Species, which proceeded too far: For, altho' it is enumerated in *Tournefort's* Catalogue, it is not

: KehajpfOicrilc
Ttmrnftt WK) Bur**** d tw g<

Variety of these Flowers, yet there are several different Species in- long those, which never alter from one to the other: therefore should not have been omitted in the List of *Linnaeus's* Species.

The Plant here represented is a Variety, which by Culture has been raised to the Perfection in which it appears from the Seeds of one of the Eastern Kind with single Flowers, and by the Multiplicity of its Petals, the Organs of Generation are lost, so that it can convey no life of its own, but as many of our Purchasers have requested we would exhibit the Figures of four of the most beautiful Flowers in the Course of our Work, we have chosen this, as being one of the finest Flowers of this Kind we have



L. vulgatum
L. vulgatum

L. vulgatum
L. vulgatum

L. vulgatum
L. vulgatum

HIERACIUM vulgatum *Botanica vulgaris* Pers. *Herb. 1811*

Botanica vulgaris a. de. of *Botanica* by *P. de. Herb.* 1811

L. vulgatum



ACHILLEA foliis pinnatis foliis linearibus hemisphaericis basi fissis multo. Non. Lycop.

Small illegible text at the bottom left corner.

Small illegible text at the bottom right corner.



*Acrostichum spinosum, bipinnatifidum, species singulis, Ceteris laboribus
pro longioribus partibus referatibus. ...*

PLATE VII



Fig. 1 ACER platanoides, fruct. & fl. fig. 1
 Fig. 2 ACER Virginianum folia rugosa, utraque rugosa, supra vixit, paludosa, fl. & fruct. fig. 2

Illustrationes botanicae auctoris J. B. de Smeke, in Regio

1790



Fig. 1. *HIERACIUM montanum* var. *truncatum* H. B. K. Bluff.
 Fig. 2. *HIERACIUM montanum* var. *longicaule* Hieracium *pulchellum* flore H. L. K. Bluff.

The Species here represented are,

Arum maculatum L.

Fig. i. *AIUM vulgare*, *Gr. Emac.* 83+. Common Arum, Wake-Kubin, or Cut-kow-Pint, c, represents the Cowl, or the Point of the Flower, in which are infertile the Germen, with (lie Stamina collected, M it were, in the Body shaped like a Club.

This is the first Species mentioned in the *Cardner's Dictionary*. It grows Muraiy on the Sides of Banks, and in shady Places, in the Parts of *Expand*; therefore is not permitted to have a Place in Gardens; it flowers in *Apnl*, and the Sireds are ripe in *Jusy*, when they are of a deep orange colour. The Roots of this are used in Medicine. They are full of Acrimony; if taken when it is in Vigour, it will bite the Tongue the whole Day; and in this Acrimony consists the Virtue of the Root; therefore those who make use of it should take up the Roots soon after the Seeds are ripe, when they are insidive and firm; and the Roots (which are at Season taken up, will retain their Pungency the whole Year; whereas those which are gathered in the Spring, when the Leaves are fresh, will shrink up in a few Days, and lose all their Virtue.

Fig. 2. *ARUM Cylindricum* *innile latifolium, peltis parvum*. Broad-leav'd Dwarf Cuckow-Pint, with a purple Pistil. a, represents the Cowl of the Flower, which is always reflexed, and twisted at the Point like

a Screw; l>, the Point, *hicti h long, slender, or > deep purple Colour.

This Species approaches near to one which is figured by Linnaeus, in the *Hortus Anglicanensis*; but the Leaves of his are not so much pointed, and have much longer Foot-stalks than this, and grow more erect. The Cowl of his Flower is also erect, and not pointed, as this is; so we may determine them to be different Plants, tho' from the same Country: The Colour also of his Point is flesh, and this is deep purple; but that would not be admitted as a specific Difference, was there not a manifest Difference in the Shape of the Leaves and Flower.

The Root of this Plant was brought from *Guinea*, with some other Plants, in the Year 1722; but this was the only Plant which came alive in the Parcel: It has flowered the last Year in the *Chelsea* Garden. The Point of the Flower is in *April*, the Cowl of the Flower is about Six Inches long, but inclines toward the Ground, the long Point being always twisted like a Screw. The Inside of the Cowl is of a deep purple Colour; but the Outside is of an herbaceous Green; the Pistil is long, slender, of a fine purple Colour, and issuing out of the Cowl, turning upward; the Flower hath a very fetid Scent, approaching to Carrion, or to that of the Flower of common *Dragee*. The Root is tuberous, like those of the common Arum. The Leaves of this Sort remain most Part of the Year. It is very tender, so requires to be kept in the Bark-house, otherwise it will not live thro' the Winter in *England*.

P L A T E Lffl.

Fig. 1. *ASARUM*, *Tournef. Inf. R. H. 501. 3**.* 286. *Raii Meth. Plant. 25. Lin. Gen. Plant. 521.*

ASARABACCA, in French, CABARET.

Doctor *Tournefort* ranges this Plant in the First Section of his Fifteenth Class, intitled, *Herbs with a Jamineous Flower, the hinder Part of which Cap becomes the Capsule*. Mr. *Ray* places it in his Fifth Class of Plants, with flameous Flowers having no Petals, but the Calix surrounds the Stamina and Pointal. Doctor *Linnaeus* ranges it in his Eleventh Class, which includes those Plants which have from Eleven to Nineteen Stamina including in their Flowers. He takes this Class *Delicatiss.*

The Species here represented are,

1. *ASARUM*, *Del. Peop. 358.* Common Asarabacca. By *Portulacis*, *Arum vulgare*. Doctor *Linnaeus* takes it, *Arum folio reiformibus obtusis, Spm. Plant. 412.*

2. *ASARUM*, *Canada's Genist. 24.* Canada Asarabacca. This Doctor *Linnaeus* takes, *Arum folio reiformibus macrocaris, Spm. Blom. 441.* And Doctor *Greenow*, *Arum folio subcordatis petiolatis, Flor. Virg. 51.*

The first Sort is found growing naturally in some Parts of *England*, but very rarely; it is pretty much cultivated in the Gardens about *London*, where they propagate medicinal Plants for Sale. It is a very hum-

ble Plant, seldom rising more than Three Inches high; the Leaves and Flowers have short Foot-stalks, which rise immediately from the Root; so that the Flowers are seldom seen, unless look'd for between the Leaves. The Flowers are of an herbaceous Colour on the Outside; and within they are of a worn-out purple Colour; so they make but a small Appearance. The Time of their flowering is in *April* or *May*; but their Leaves remain thro' the Year. This Plant delights in a moist Soil, and a shady Situation. The Roots and Leaves of this Sort are used in Medicine, to purge off thick Phlegms, but particularly in the green Peages for *Madness*.

The other Sort differs from this, in having the Leaves more pointed, and being of a darker Green. This is a Native of *North America*, from whence it hath been brought to *Europe*; and is preferred in the Gardens of those Persons who are curious in collecting rare Plants. It will live in the open Air in *England*, being rarely hurt by Cold; but must be kept in a shady Situation.

Fig. 2. *ASCLEPIAS*, *Tournef. Inf. R. H. 93. Tab. 22.* *Raii Meth. Plant. 71. Lin. Gen. Plant. 270.* Swallow-wort, or Tame Poison, in French, *Dangier-touche*. Dr. *Tournefort* places this Genus in the Fifth Section of his First Class of Plants, intitled, *Herbs with a Bell-shaped Flower of One Leaf, whose Pointal turns in a Fruit composed of several Hoops or Sheaths.*

Mr. *Ray* ranges it in his Eighteenth Class of Plants with regular Flowers, which are each succeeded by Two Pods. Dr. *Linnaeus* places it in his Second Division of the

The Fifth Class of Plants, intitled, *Pentandria Digyna*, the Flowers having Five Stamina and Two Germina.

The Species here re, colored is,

Asclepias, alba *fl.* C B. P. 103. Swallow-wort with a white Flower. This is by *Dodoneus* called *Vincetoxicum*, *Pempt.* 407. fly Dr. *Linnaeus*, *Asclepias foliis ovatis basi hastatis, caulis erectis, umbellis prostratis*, *Spec. Plant.* 110. This Plant is found growing naturally in uncultivated Places in *France*, *Italy*, *Germany*; and, being a medicinal Plant, is kept in the English Gardens. The Root is perennial, but the

Stalks die away every Autumn; and fresh Shoots are put out in the Spring; and in June the Flowers come out in small Umbels, upon slender Foot-stalks, hanging downward. The Flower is composed of five Parts, as represented at rf, the Flowers are succeeded by long taper Pods, at a ti; which are filled with flat Seeds, having a little Nerve or Iawn fastened to their Top, as represented at c. The Root of this Plant is sometimes used in Medick; it is esteemed a good Counter-Kit. i-d *, << ,, * ; must peffential Fevers.

P L A T E L I V .

Asclepias, Tournef. Inst. R. H. 226.
109. Hypericum, Lix. 1

ST. PETERSWORT.

Doctor *Tournefort* ranges this Genus in his Sixth Class of Plants, intitled, *Herb. with a Ribwort*, whose Petals turn to a Fruit with many Cells. Mr. *Ray* places it in his Twenty-second Class of Plants, with Flowers of Five Leaves, which are succeeded by Capsules filled with angular Seeds. **Is. D.** *Linnaeus* puts this Plant under the Genus of *Hypericum*; but *Tournefort* has separated from that Genus this and 120 other Species, because they have a pyramidal Capsule with Five Cells; whereas the *Hypericum* hath an obscure Capsule with but Three Cells; and *Linnaeus* has given this Title to another Genus of *Tournefort's*, called by him, *Hypericoides*.

The Properties here represented ii.

Asclepias Balaricum frutescens, maxima fere latu, foliis mucronatis fatis serratis, Salsod, Herb. Ind. Afr. 142. Shrubby St. Peterwort, with a large yellow Flower, and small Leaves, which are warty. a, represents the Flower expanded; and b, the Stamina, which are spread open every Way in the same manner as the Petals. This Plant was discovered in the *Balaric Islands*, by Dr. *Poss*, who sent it to *Leibniz* and *Closter*, in the Year 1580, from *Mojavia*, by the Title of *Myrio-Cydon*, from the Resemblance of the Leaves to Myrtle, and the Flowers to those of *Cydon*. *Closter* has given a Figure of it in his History of Plants,

which is but indifferent; but from that Time, till the Year 1714, this Plant was unknown to all the Botanists, otherwise than by the Figure and Description given of it by *Closter*; not any of them having seen the Plant, till Mr. *Schradter*, an Apothecary at *Berolium*, who was a very expert Botanist, went into that Island, in search of Plants, where he found this growing in Plenty; and first dried Samples of it to some of his Correspondents in *England* and *Holland*, some of which having ripe Seeds upon them, they were taken off and sown; and from these, One Plant was raised in the *Closter's* Garden, and another by Dr. *Borlase* at *Leiden*, in the Year 1717. From these many Plants were raised throughout Europe, and distributed to most of the curious Gardens in *Europe*. It seldom grows much more than Two Feet high in *England*, spreading out its Branches on every Side, so as to form a bushy Head. At the Extremity of the Branches the Flowers are produced, which are of a fine Yellow, tinged a little with a gold Colour, which fades off after the Flowers have been long open. This Plant we seldom destitute of Flowers, which renders them the more valuable. They will not live in the open Air thro' the Winter in *England*; therefore they must be kept in Pots, and placed in a common Greenhouse; where, if they have not too much Wet in Winter, they will thrive, and continue flowering most Part of the Year.

Dr. *Linnaeus* titles this Plant, *Hypericum foliis pentagonis, caulis frutesco, foliis ramisque serratis, Spec. Pl.* 783.



Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 1. *AMARANTHUS* *Strobilifera* 228
 Fig. 2. *ATALFIA* *alba* *flora* C. & B. P. 202



Fig. 1. HYPERICUM, laevifolium Tournef. Inst. R. H. 427
 Fig. 2. HYPERICUM, andriacum folio Tournef. Inst. R. H. 427



HYACINTHUS, ornatus, flore pluri, et albo, inter elegantes, et purpureo variegato.

Plant. rarior. 1753. et Pinacoth. p. 1. H. B. K. Tab. 100. n. 1218.





Fig. 1. ARUM vulgare var. maculatum C. B. P. 123

Fig. 2. ARUM Ceylanicum humile latifolium spathe purpurea

W. Goussier delin.

Published according to the order of the Acad. des Sciences, Paris, le 10 Mars 1768.

J. Ponceau sculp.



ACHILLEA foliis lanceolatis, densis, acris, umbellulis, flavis

Herbarium of the University of Cambridge

W. G. Smith



1792
 ACHYRANTHES saturei, L.
 foliis lance-ovatis
 undulatis floribus corymbis

1792 ACHYRANTHES saturei, L. foliis lance-ovatis undulatis floribus corymbis

Botany j Co we imagined it might be more acceptable to die Curium to give the Figure of this, thin to have taken the *Jerru* - *jwhich is a ram ndl k:mwn to ever)' Il< rli-woman.

The Seeds of chit *Pi^r* were 1st sent to the .toyal' Gar den at Paris, hi Doctor *Boissier* ifeoveted it guing naturally in (he *Levant*. And Ironi that Gar* ^^ the Seeds have been diltrib.itcd co many curious Botanic Garden*. I received, a Plant of" this Sort from

Doftor *^ifr/ax r« iirrtn*, late Profeflbr of Botany in the Univerlky at *Ij-rtk**. The Plant IN very hardy, will live in the open Air, and propagates talily by Slips, but doth nut jicrtret Seeds ih *England*, unldi in tinn dry Scafoii. The Plant i* low and builly, but the F'lower-ftems rife nrar Two Feet high.

It begins to flower in *Ju<t*, and continue* to produce new Flowers till *H&^*.

P L A T E X .

Achillea Ageratum L.

ACHILLEA foliis lanceolatis ebulvis awt pmtfis. ten. Hurt. Cuf. 413. Sf. Plnt. 897,

Common or Swtt MmJJm.

THIS is the */germtm ftliis frrratti, C. B- P.*; *nd by *Dede**K>* it it calletl *Hatftmtij >iW*; by Doctor *Tnneft*rt it it titled, *Ptanmt* l*ts furw>!t*;< l>fl- R, II. 497.*, by *Jek* B*ub,x* it a titled, *jhr* turn pitiyqtu, Htrba Jutti jiUm/dam, Hift. Vol.j. 141.* Thi<; is fuppocded to be the *tMpatrium Mi/uti oS-i* and bai been of long *ndi ftj* in the *DifpenCihcs*, but at prelnt felciom u<d in Medicine. *a, rert ienti* a Flower of the comtn*Sort *maamified*, whole *Dilk, **, it compared of miny fioirtj, ,, *Jhewi j* [ngle Floret fitting on the Embryo of (he Seed ; *d, .1* a *Hilf-Horet*, of which the Rayi or *Bjrdcr* at the Flower it compofed.

A* this Plant hat been long i<ed in *M:line*, (b I have given the Figure of it, to diQmguifh it from another Species, which has taken Place of *thit* in the *Egijh* Gardens and Markets *bt h* that wloter aDfi lor *Ma* *in* now, will always hjeve tie *OIKT Ph:u* fitbtituted for it, which is very different in Form, Smell, and Colour of the Flower, from *n lbe* *Maudlin*. Nor it (he Sort which is here figured, to be found in any oirite

propagated to **PP:** the Markets; fo that the Plant which it now generally fold in the Markets for *islandic*, is the *Piar- *its fib/ f rufundus ferratis, lat viridibus datior, H. L.*

i. «, *WJW- 5awz<<<t/*, with dark-pren leaves, which are deeply frrratud *Thit* being a much hardier *1'U^* than the other, ind pro<>ag*tinu eafly hy ia creeping *Kuou*, the *Gariicnen* t *ave* *ngle* ted tile other *mrelyi* Co that utiler* the *Perfont* who ire CO uir the *Kerb* in *Mediciv*, *Jrr* wll *u* *quainted* <>th it, (hey will be furc (r) have the other impoed on then); but by any *Perfon* wh- is skilled in the *owledge* *O'* *1'ijjiH*, it may be eililt *ililtinguifhed*. For theSort which is now vended in the *Narkets* hath very long narrow d<p- green *I.ravel*, which are deeply fa<fd on their edget, *ntem* *'iliiigtliufnifiiv* *common* *Cl>* *sort*.

Flovn of thin Sort do aifo tefeml* *e* thofe of *.*mE<trt*, being white, and the Rays >re fpread open like themi *Uit* the *Leave** ire *looMT*, *Jhd* of a *drprer* *Green*, and the *Stalkt* rfe much higher. Yet ihr whole Plant has a much greater *Refcmlatirc* v\ the totmton *iV<<wrr*, than of the *Maudlin* for whuh it u fold.

There arc Two other Specif* *1f* this *Genin*, which approach near to the *common* *Maudlin*, one *tt* them it used by *Tevwfvf*, *Ptarmttfili: 's ferratis mjmUt Um- fifrtlmf y mps impatiu*. Thii hath clofet and longer *Meidt* of Flower* than the *common* Sort. [The *irher* hath broader *Lraves*, and *inaller* *Flowers*: The *lalt*] <*>(& from Seeds, which came from *Sp-* *«* But *J** (hde art not common in *l nx^ttJ*, (o there i> no *Danger* oj (heir being br>ught *1* the *Marluo*.

This Plant begins to flower in *7*w*, and continue! *ungnew* *J-Towcū* *ti!* *September*.

P L A T E XI.

ACHYRANTHUS, Lin. Gen. AMARANTHUS, Pluk. Am. 17. CitaestJftm Barm, Zql. 60.

*Sfhd Am**uku.*

THE *hanOm* of thi> *Onu* art*, *I* *iiow^cfjnfil'*. *1* of Five Leaves, and are included in a *Five-leaf'd* *Impalment*; each Flower has Five *Stamina*, which are equal in Length with the *Petals*: The *Pointal* changes to *armmdifh* *Cpt'uk*, in which there is a single roundish Seed.

The feveral Species of this Genus of Plants have been ranged, by the Writers on Botany, under many Genera;

the (in¹ which was brought into the *Egijh* Gardens, wa> titled, *inte* *antibus foliis spicatis*, by *Father* *Bo-* and the others which have been fince introduced, were differently titled; fo that neither of them were *p^o**!* ly placed, till *Doctur* *Libanus* constituted this *Genus*.

Fig. 1. ACHYRANTHUS caulis erecto, fpecie rufcit late- radibus, calycibus lanatis, Lin. Sp. Plant. 204. l. c. *Achyranthes* with an upright *Stalk*, oval *Spikes* of *Flowers* coming on the *Side*, with woolly *Cups*. *This* is called by *Doctur* *Bernart*, *Chenopodium incan- sum racemofum, fpecie rufcit rufcis, Pluk. Zql. 60.* *l. c.*

i.e. Hoixy branching Goofrboc, with large and small
Leaves opposite. And by Doctor Plittut it is called,
Amarcmikui imMita vttttaiUtas tllbus folits ltumgi t in-*
(Mtu, .Hang, ij, i.e. Indian Amaranth, with white
Whorks, and hoary Leaves.

«, representw the oval Spike of FJoweri coming out
from the Wings of the Leavri, which are fo fmtll *»
scarce to be di (covered with die naked Fye i 4, (hewi
the Seed taken out of the Cover,

This Plant is tender, fo mujl be railed on a Hot-
bed, and afterwards kept under Gbiles, otherwise it will
no; perfect its Seeds in E. l. d

Fig. j. AchVRAmm <auh mtft, folis silver/creatis
unJul.it.: <, Jkribm rftimu. Spiked Amaranth, with an
upright Stalk, oval waving Leave*, ami reflexed
Flowers.

This Plant approaches near to one which it figured
by Dobtot Burma*, in his Zo<'i Phnts, which he
titles *Amor ami bus fpicains Ztylamnti fslüi dlnfit, Ama-*
rsiubojütti Bmiou jmiks. Tat. 5. l. 3.* But the Lexvtf
of his l'bm are fsmooth and pSain, whereas thole of

ours are hairy and waved, and ire larger than thofe of
his; ;ive Spike and Klowtrs of both are vtrf like, both
of them agreeing in this with the i amon Sort; a,
reprdents a fingle Fluwer taken from the * Spike, with
the Seed-vefttl joined at the Bottom, which is in lold
in the permanent KmpulemC.

This CJcnus of Plant] is ranged in Uxr: • of's Fifth
Clafs of Piano, intituled, *Pt*tau/ria*, from I e Flowers
having Five Stamina, and in the Si»th Divifion of that
Clafs which he call* incomplete Flower*.

The firft Sort here figured grows naturally in feveral
Parts of IHJH, and aifo it the *Copt tfCetJ tfrft*, from
whence I received the Seed«, in I e Year 1751.

The Seeds of the fecond Sort I received from M'lit
iar, in the Year 1751, which has flourifhed at C&tüta,
and perte&td Seed* annuiy, which have always pro-
duced the lame Plants, never varying : -oni fa o,
(o may be iltercrod a diftinct Spe.]«.

This t'Uur ii too tender to thre« in the open Air in
Ea and is muft be kept in a Glass, and the Spunges
and the Warn* mu< be kept under Glasses, otherwise
Uiej- will not perfect their Seeds.

The • both flower 11 and if the Plant! 1
continue flowering moft part of
the Winter, and will perfect their Seeds very well.

P L A T E . XII.

ACONITUM, frnm. l^#. 4J*. Tat. 139, 140. Raii
Method. 79. 1 ML CM. Plant. 60j.

MONKS-HOOD, at H?elf>•hat.

THIS Genus i of l'inti ii ranged hy Do&or Tturm-
fort in his Elevent1 CUi*, mlilwkii, Htrfa and
Ueen-Steeds with tin *tm*b*t H*t*r, eemftfid tf
feveral Loccs. Mr. Ray places this Cenus in hw Ci>»i*
of Plants with irregular Flowers, *um, ukfi art jktrtdttt iy*
And Doctor Linnæus rangd ft in the
Third Divifion of his Thirtenth Clafs of Plants, intituled,
Polyandria Trgywa, whole Flowers have many
Stamina, and Three Styles.

The Characters of this Genus are exhibit'cil in the
Gardener's Dictionary, under the Article *Aconitum*.

The Spcteci here figured is,

ACONITUM folioferum fva Aithora. C. B. P. 184.
Whoifome Monks-Seed, or Counter-poifon to Wolfs-
bane. This is the Fourth Species in the *Gardener's*
Dictionary. By John Bunkie it is titled, *Aithora*
fere late Aconiti, Val. 3. p. 66. By *Takowmontana*,
Aithora Zeltoria, Aconitum folioferum, tom. 112.

and by Doffof tin*., *Aconitum folioferum polygyni*,
Spa. Pitta. ;, a.

«, represents a fingle Flower from a
composed of feveral diftinct Petals; a, fhews the hurred
Style*, which w e in the upper Petal of the flower a,
which ii Out* and like an Helmet or Cowl; a, represents
naceous Seed-veftlets, which are collected
id; a, fhews the Seed out of the Cover.

This Specie* of *Meaii-lind* \ that which is made
ufe of in MeifKine, jtttd n rftecnwd M Antidote to
thofe which ire po.ii»ou* fo whomv *Aconiti* is pre-
fenbed, thii Sort U alwayi imendeci. It is the Root
only which it ufcd. and ai *poifon is never prefcribed*
b £ < / < ^ 1 for akbought fame Pn & <. k » !
or Wolfs-bane, ,, al.oTo be
Plague ytt M m-4 d die othr Si-
Poifon no only to Men, but to Brwr
A a Plini in Medicine upon fo
fender Authority, efpially as there is Danger of hav-
ing one of the other Species fubftituted for it.

This Plant flowers in July and Augft, and is an
ornamental Plant in Gardens.



ACONITUM - *heterophyllum* Jacq. - *Androsace* L'HERP.

Androsace heterophyllum Jacq. - *Androsace* L'HERP.

1797



ADRIATODA *Adiantum filix-graminis* var. *trichomanes* (L.) Kuhn

Adiantum trichomanes (L.) Kuhn

Adiantum



Fig. 1. ADONIS *Hellebori vulgaris* *Asperithalensis* flore *Y. N. S.*
 Fig. 2. ADONIS *cythereus* flore *luteo* foliis *compositis* C. B. P. 1794.

Hellebori vulgaris in *Bot. Mag. 1794*

P L A T E XIII.

ADHATODA, Raii. Method. Plaxi. gi. Tournef. & t. R. H. 175, Borrb. btd. Alt. l|j. j. Jufuia Lin. Gen. PUR. i 26.

IN MALABAR-NUT, or SNAP-TREE.

THIS Genus is by Mf. Rjy ranged IT bet his Clafs of Plants, with a I... By Doct'ir Tciirtuftri, it is filacM 1: Section of hij Thirteenth Clafs, Hi... ADHATODA loJua, fefrt faJituv. Jbrt e!i*. Bstrb. M. All. iij. The Wiltow-lcau'd MiUb^r-out, with a

The Specici here reprefentci; is, ADHATODA loJua, fefrt faJituv. Jbrt e!i*. Bstrb. M. All. iij. The Wiltow-lcau'd MiUb^r-out, with a

whin: Flower, commonly called the Snaf-trtt. This is by i >ottor Pluk/r.t tided t'.steb; Inm Albatode am'stit fisribui tentuia thftupifelit, tx Inj'xlis fortuttatn. A/mag. Bet. 13a. 1 to which Nimt Doctor Mtnifex, v\ ** * >u me of his I!:fiiTj ef PLau;, p. 6ti+. hu fubjoinrd /fiiittibodti iqffipi iaticrij fli* Cimaruitfit. DoVtor Ijiwsiu his titled it "Jufuia* fru-tuofa, Jufiu UmcttUtii inlrgrrrimii, ptihautdit trijlrit amipubus, irrailtis (abet brKierifat. Sp. Plant. 15. placing it in his fecon I Clifj of I'lrirts, itititled Di- adria. a. rrprefents the under Lip of die Flower, [^H|^|^qMMrut into Three Segments, i, fhevi the upper Lip, which is dr>wo tu 1 Point < die Top. r, the Two Stamina with the Pofitil. 1 his Plant doth not produce Seeds in IngUmd; but is Jirropagand by Cuttings, during any of the Summer Monthi; it produces Flowers moft of the Summer Monthi; and if the Plants are priver • tin 1 moderate Warmth in Winter, they will begin to fhew their Flowerl very early in the Springs; but their r flrom make b^t in indifferent Appearance. The Leaves continue ill the Year green, and when die Hinti arc regularly trim) K ihc) kid -i) the Varirty in Winter, when exotic Pbiui in ihe Store. The Plants will grow TO the Height of Three or Four Fert, and may be cafilv trained tit'o Pyramida, furnished regularly with Branches from the Surface of the Ground upward.

This Plant was raifed from Seeds, which were brought from the Canary Iflands, about the Year 1750. in the Gardens of Hougues-Court, at which Time there was a noble Collection of curious Plants there preferv'd

P L A T E XIV.

ADONIS, Diller. Jerc. Gen. 4. Lin. Gen. Plant. 613. Ranzasale of. R. H. 204. Hillbors, G. B. P. 186. Tat. km. ;si. Bq. iU

Qufo, in his Hiltory of Plants, calls it Ruffula; Linnæus, in the Catalogue of Mr. Gledits's Garden, titles it Adonis radice picea, p. 221. ; but in his Enumeration of the Species of Plants, he has altered the Name to : lmdt JURE dcdnapH* Jufuia radice, p. 247.

ADONIS FLOWIH, HitM-1.1 t, of I NEALANTS EYE. TINS Gtnui 's: Ptu 1 i bj Doctur Linnæus ranged in tiff Seventh Sr&ion <: in Thirteenth Clafs, intitled Polyanthes Polyantha, i. z. Plants whole Flow n have many Stamina and Germina. I ajfor Tansfart has ranged the Plants of this Genus under the Article Ranzasale; as he also hath the lesser Glanthe, the Hypo- tina, and Spearwort, whereby the Number of Species in ti: it Genus are multiplied fo greatly as to occasion fome Confufion, and renders it difficult for a Learner to reduce the Plants to their proper Genus. Doctur Linnæus has made the principal Character of Ranzasale to confift in the Notation, which is located at the Bc lc uf th< Petals, whereby this Genus of Adonis must be feparated from Ranzasale.

This Plant • grow» na: Pfy/U, <nd ot).- irid twi been long • Inhabitant in the English Gardens, where it is cultivated for its early coming to Flower. In mild Seafons the Flowers open in March; but generally they are in Beauty pretty early in April, and continue about a Month, if the Seafon is not too warm, or their Situation not too much expofed to the Sun; for the Plants thrive better on a Boed r eKJXi: d to the East, and the Flowers will continue ingrr i in Beauty, in that 1 rpo- fure, than if planted in 1 • w. winter Situation. When the Roots of these Plants are strong, they will produce a great Number of Stalks from each, which will rise about a Foot high, and on the Top of each is generally one large yellow Flower: In order to have them strong, they should remain uncut tmubUntcd t tod 1 about tf Atttumr 10 oituit) or • fHl their

The bpecki here teprdenttJ *re, f. 1. ADONIS Hillbors radice, BuffitMiB fart, SI I., Bttri. in. tANTI. in. bore rxtjcd ADON: I, of PHIA- N>iive given to this plant in the Catalogue of the Plants in the Royal Garden of Montpellier, which is, R. Jenucularis filia, Hillbors nigri radice. H. R. Musf. Tours. Jof. 291. Gledit Baston, in his Pinax, calls it Hillbors rure ruzoflru Bndelobus Jerc. p. 186. Tabernamontana tllkt 1 flklZnii Hppocriti. Lin. 711. Noms. III.

The Roots of this Plant hu t • een used by the Germans for those of the true Black Rooters of Hippocriti in Me- dicine, and have been supposed to be the same, by many of their Writers on Medicine and Botany, but HIM hit been discovered by most of the later Writers on those Subjects.

Fig. S. reprints the ADOKJ* fjk'ffirh fans hatt, *folius*
*7e*gisnbus. C. B. P. 178.* V. *in Ador. if, or Birth eye,*
 with a Yellow I flower, and longer i MFS. Tim it
 by Debtor *Jaw* *first title d Romnuuba ent'is feJtis*
*Chamensis, fere Gorius. : **\$. R. II, ig 1. <, fiew the*
 flower, with r *Petals expanded; A, the Stamina,*
 with their Apices, which occupy ihr M *iddle : the*
 Flower; ma between theft arc plact *the Ger iina,*
 which afterward become the Seeds. *Do&arjwstj*
fuppofrs thi to be oniy 2 Variety . of the common*
Adoni, with a Red Fttwer, which is frequently fown
 i 1 Garden), tnd a known among v *e Gardeners as I*
 Se. *lfcn by the Nitne of Flu Ademi, or Adonis*
 Flowrr; And fometimei it is c>ll<l Bu. *is or Phlegm's-*
tyl. But there can be no dmibt of thefc beng Two
 dillUiift Species. The Le *aves of the Yellow Sort,*
 •which is lirre figured, *bci* *ing longer and finer cut than*
 thofe of the Red Sort, ind the Planti Jo 1; *ow much*
 •, which >:::r-ii, *es are conflant, and never*
 try, 11 1 hive found by fv- *ing the Seeds « A M A*
 for more *thn Thirty Ycjn ; during «* *which Time |*
 n *ever could observe that there was the leaft Variation*
 in either of the Species. The Yellow Sort was brought
 i *to England from Germany, where it grows naturally,*
 and has been many Yews pn *erved in fome of the*
Engilh Gardens, but the Red Sort grows naturally
 in the Corn Fields near the River *Adway, in Kent;*
 from whence, of late Years, there hath been great
 Quantities of the Plants in Flower brought to *Lon-*
don, and fold about the Streets, by the Name of Red
 Morocco. Thefe i^ower ri>e *Beginning of Year.*

Doctor ffwrrtr. h *aving joined thefe Two Species,*
 Title of *Adonis fides* *anno 1700, in the Ca-*
 talogue of Mr. Clifton's Garden, p. 231. : But in his
 Catalogue of the Garden at *Uxial,* as alfo in his *Enum-*
 eration of the Species of Plants, he has altered the
 Title to *Adonis vernalis, foliis pinnatifidis.*
 These Two Sorts are annual, fo their Seeds should be
 fown in Autumn, foon after they are ripe; for if they
 are fown in the Spring, the Plants feldom come up till
 the following Spring, and many Times fail; or if the
 Seeds are permitted to fall when ripe, if the Ground is
 not difturbed, the Plants will come up in the Spring,
 without any farther Care: And when the Seeds happen
 to be buried in the Ground for a Year or Two, and
 are afterward turned up to the Surface again, the Plants
 will come up: So that in the Places where the Red Sort
 grows naturally, all thofe Fields which are fown with
 Wheat and Rye are generally full of this Plant; whereas
 thofe Fields which are fown with Grain in the Spring,
 have feldom any of it appear that Seafon.
 The First Sort, with perennial Roots, is alfo propa-
 gated by Seeds, which fhould always be fown in Au-
 tumn; for when they are fown in the Spring, they feld-
 om fucceed, which has occafioned this Plant to be fo
 fcarce in the Engilh Gardens as at prefent; moft People
 having kept their Seeds out of the Ground till the Spring
 before they fowd them; and the Plants not coming up
 the fame Year, they have given over the Hope of their
 growing; and turned up the Ground the following Win-
 ter; which if they had not difturbed, fome few Plants
 might probably have come up the following Spring.

P L A T E XV.

AGRIMONIA, 7W*. *Inf. R. H. 381, Tab. 155. Lin.*
Gen. Plant. 534. Raii. Meth. 45. Eupatorium. C.B.P.
 32.

AGRIMONY, or EUPATORIUM of the Greeks.

X I f is Genu* of Plinti ii placfd by *Doctre Tour-*
 in the Ninth Section of his Sixth Clafs, in-
 be with a *Red Flower, whole Cap changes*
dry Fruit. Doctore Linnæus places it in the
 vifion of his Ninth Clafs of Plants, into
Digysia, i. e. Plants whole Flowers have Twelve Stam-
ina, and Two Styles. Mr. Ray places it in his Tenth
 Clafs of Plants with perfect Flowers, which are
 fucceeded by fingle naked Seeds.

The Characters of this Genus are exhibited in the *Gar-*
den's Dictionary.

The Species here represented is,

AGRIMONIA alvata Comar. Hort. Inf. R. H. 301.
 Sweet-scented Agrimony. This is by *Cajfar Bau-*
 his titled *Eupatorium alvatum. Fig. 314.* There is
 alfo another Species of fweet Agrimony mentioned
 by *Doctore Merfius* in his *History,* by the Title of
Eupatorium alvatum fectumque fce Bignoi, Agrimonia
witha mids alvata, Vol. II. p. 614.; and by *Doctore*
Tournefort it is titled *Agrimonia Santonidæ alvata.*
Inf. R. H. 301. If this is a different Plant from
 that which is here represented, I have not had the
 good Fortune to meet with it as yet; for the Plants
 which I have raifed from Seeds, which were fent me
 from the Royal Garden at *Paris,* and from other
 Gardens, have always proved to be the fame with
 that here figured: And *Doctore Merfius,* and thofe
 other Authors who have mentioned the Sort which
 grows near *Rho,* make no Difference in the Habit of
 the Two Plants, but only fay the Sort here figured
 has a ftronger and more agreeable Scent than that of
Rho; therefore that it is not fufficient to make a fpe-
 cific Difference between them. *Doctore Linnæus* has
 joined this Species, and alfo that with White Flowers,
 and the original Agrimony of *Doctore Tournefort,* to
 the common Sort, making them only Varieties of the

fame Species. But there are Four diftinct Species of
 them, which do never vary w *ctmtvit ly fom>d in few<n> of*
 « fw m*- Years, and the Plants fo raifed
 have always *n> the feme * with the Parent Plants.*
 The Leaves of the Sort here figured are much longer,
 the Wings are alfo longer, and much narrower, and
 the Incifures on their Edges ending in fharp Points
 than thofe of the common Agrimony. The Flower-
 s of this Sort do generally branch out on every
 Side, and the Flowers *.. FUMQ Dpttt KMKKT I* *ostalks;*
 where the common Sort runs up with a fingle long
 Spike of Flowers, which are now pretty clofe to the
 Stalk, and are fmaller than thofe of the fweet Agrim-
 ony; fo that the Plants may be eafily diftinguifhed
 at a Difance, and when near, the Scent of this is
 much more agreeable than that of the common Sort.
 a, represents the Flower expanded, with its Five
 Leaves; which is encompassed by an Envelope
 confifting of one Leaf, deeply divided into Five
 acute Parts, upon which the Embryo lies, which
 afterward becomes a Seed, which is represented at A
 with its Covering having a Bump-top, whereby it
 will fallen off to the Clouds of Perion, who put
 clofe to the Plant when the Seeds are ripe.

This is the fweet Sort mentioned in the *Garden's*
Dictionary. The common Agrimony is well known by
 all the Herb-folks, fo will need no Defcription; there-
 fore I have omitted it here. It grows wild upon Banks
 near Woods and Hedges in moft Parts of England, and
 is there gathered and brought to the Markets: The Dif-
 ference between that, and the Plant here represented, is
 not fo great, but that by the Figure any Perfon, who
 is unacquainted with Plants, may eafily diftinguifh the
 common Agrimony from any other Plant which is found
 growing naturally in the Fields.

The Virtues of the common Agrimony have been fully
 fet forth by all the Writers on the *Adonis Medica.* The
 whole Plant has been recommended for Ufe. A di-
 stilled Water of the Leaves and Flowers of the Plant
 has been long eftablifhed as a Shop-Medicine; and a
 5/192



AGRIMONIA eupatoria Linn.

Handwritten text at the bottom left, possibly a collector's or artist's signature.

Handwritten text at the bottom right, possibly a date or reference number.



Fig. 2



Fig. 1

Fig. 1. ALATERNUS. *Claf. Napp. 28*
 Fig. 2. ALATERNUS *sem. Vignoles filius*
capitulum d. profundius format. &c.

Illustration of the plant of the ...

Fig. 1. 2.



ALCEA *fulva* L.

Alcea fulva L. Pl. 100

1774

By Up made of the Juice of til: Plant, is by some greatly recommended in Diseases of the Weakness of the Liver. The Qualities ascribed to this Plant are 1 it warms, dries, cleanses, binds, and strengthens, it is also esteemed as a good vulnerary Herb.

The Sweet Agrimony makes a very pleasant Tea; and if a little of the *Rosand-lav'd* d'arraly, be of the Kammul

H'coi fcrrtl, a added to ir, theft will a shu a pleals nt. whois me Drink, ior tioft; who harcaThlrft; as I can, Iro.ii long lopecnccc, myiri' certily.

This bowera in "Jam and 'Jxh, and the Scrfs are ripe in *Sftmicr*: The Roots are perennial, but (he Leavas caj in Autumn.

P L A T E XVI.

itATES 203, *Yours. Inf. R. H. 505. Tab. 366. Raii*
fir. 154. Claf. Hifp. 26.

The STAFF-TREE.

XHIS Genus is by 1 the *Toms* for plac Ai in hij
Twentieth Clafs of Trees and Shrubs with a
er of One Leaf, whole Pointal become « a fuff
Fruit or Berry, including hard Seeds. Mr. Ray plac
it in his Clafs of Trees and Shrubs bearing Berries
including several hard Seeds. Doctor *Linnaus* has in
this, the *Berry-bearing Alder*, the *Palmaria*, and 7A-
plus, the *Rhamnus*, including them all in the same
Genus: But if we allow the Fruit to be a characteris-
tick of the Genus, these cannot, with any System, be
joined together; nor indeed can it be well done by
those who take their Distinctions from the Flowers only;
for the *Rhamnus* is Male and Female in different Plants.
The *Berry-bearing Alder* hath its Flowers divided into
Five Parts, and each Berry contains Two Seeds: The
Palmaria hath Three Styles in the Flower, and a com-
pressed bordered dry Fruit. The *Ziziphus* hath Two
Styles in the Flower, and the Fruit hath Two Cells.
The *Asteriscus* hath a trifid Ligam, and Three Seeds in
each Berry; therefore it must be kept in a separate Ge-
nus from the other.

The *Chaudra* of this Genus are exhibited in the
CanUnr't DiUKra.

The Species he[^] represented are,

Kg. r. A(*Tb>> 1. *Claf. Hifp. 26.* The Staff tree,
or common leaf'd *Alaternus*, commonly called
Bro"
by the Gardeners *Phillyrea*. *Cajhar Baskin* titles it
Pyrica elaeis Pin. 470. And *John Bauhin*, in his
History of Plants, Vol. L p.j+i. calls it *Spina Boerzi*
Maj

There is another Species of this, with a smaller leaf,
which is described by *Clafus*, and the *Two Baskin*; but
this is not very common in the *Engliff* Gardens at pre-
sent; nor is the plain Green Sort, here figured, much
cultivated in the Nurseries, for the Blotched-leaf'd (or
what is commonly termed) the *Strip'd Phillyrea*, is what
the Gardeners do chiefly propagate; but the Sale for
these Plants having greatly diminished within a few
Years, there are but few of these Plants in the
Nurseries, in comparison to what was some Years past,
when the use of them was to cover Walls and
Buildings; for their Branches require to be supported,

otherwise they are frequently broken down by Snow,
and strong Winds; and therefore in Plantations in open
places, they generally grow very rude, and spread their
Branches to a great Distance from their Stem.

Fig. i. represents the *ALATIUKI-S fin Phlict fitHis mt**
guj, *Pinus ferata* H. L. The *Narrow-leaf'd Alater-*
nus, deeply saw'd on their Edges. *Ti'a* is the
*ALATIUKI-S fin Phlict fitHis mt**
There is a Variety of this Sort with Silver-striped
Leaves, which is pretty much cultivated in the Nur-
series near *London*; and is usually planted against
Walls of Buildings, to cover them; but this is not
so hardy as the plain Green-leaf'd, the *J'ljiiti* being
frequently injured by severe Frosts, where they are
exposed to the North or East Winds.

The Second Sort here figured grows more compact than
the First, and the Branches grow more compact; which
being fuller garnished with Leaves, make a much better
Appearance than the other; therefore may be admitted
into the Plantations of ever-green; tho' their Branches
are liable to have their Branches broken or displaced, by
great Snows in Winter, especially when it falls in a Calm
(for if there is much Wind stirring at the Time when the
Snow falls, it will shake off the Snow, and prevent it
lodging on the Branches, in such Quantities as by its
Weight to split off the Branches.

Some of the Dutch call this the *Prickly* *Prickly*
their Greenhouses, for the *Tea-tree*, and do frequently
sell the Plants as such to the *Mm* who are ignorant, or who
lead to Holland for Tea Plants.

Both these Sorts grow naturally in Spain, France, and
the South of France; and have been long Inhabitants of
the *Engliff* Gardens. They grow to the Height of
Eighteen or Twenty Feet, and spread their Branches
pretty wide on every Side; so that under the lower
Branches are pressed together, and will be bushy from
the Ground upward.

The Berries of this Sort are not common in the
South of France, and are sent to England by the Name
of *French or Spanish Berries*, which afford an excellent
Yellow Dye or Paint.

These Plants flower in *Autumn* and their Berries are
ripe the Beginning of September. The Birds are so fond
of these Berries, as to devour them as soon as they are
ripe, if they are not gathered; or protected from their

P L A T E XVII.

ALCEA, *Yours. Inf. K It 97. Tab. 25. Raii Meth. 56.*
Melba Lin. Gen. Plant. 751.

VEIV* IN MAILOW.

THIS Genus of Plants is by *Linnaeus* placed in his Sixteenth
Class, in his Sixth Section of his First Class of
Plants, in the *Order* of *Malvaceae*, under the Title of
Alcea, from the *Latin* whereof there is a Title that
removes the Pointal, which changes in a Fruit consisting of

many Cells. *Linnaeus* places it in his Sixteenth
Class, in the *Order* of *Malvaceae*, from the Pointal and Stam-
ina being joined in One Body. And Doctor *Fuss* gives
the Title of *Columbine* to this Class of Plants,
because the Parts of Generation are joined in Form of
a Column in the Center of the Flower.

The Distinction between *Alcea* and *Melba*, according
to *Cajhar Baskin*, *Ray*, *Yoursford*, and most of the
Botanists of the last Century, is in the Leaves of *Alcea*
being

toeing i cply cut and >g?«J. somewhat like those of the J-inwwj *nt! this. jut!) occafioftd the Egipt Title of *Persea Malva*: But Doctor *Linnaeus* has made the characteristic Note of *Stm* that of the outer Enmem U the I kmer beinff of Or< I eat, cut into 7^ Part^ and U*: of the *Malva* being of Three Leaves; ft. h<, by his Distinction, the Plant here figured should bcpUerdwith the *MtUnui* »; and the *Hollyock*, which *Uca*, remains under this Title of *Alisa* alone: But as these Plants have been long known in the Dispensaries by the Title of *Alisa*, I have chosen to cp; since it under that Genus.

The Characters of the Genus *ut* exhibited in the *Dictionary*.

The Sp<« here figuret; is,

ALCEA, 'i'io rrlwtidi, *laciniata*. C. HP 118. The round cut-leaf'd Vervain M.: : o w. ^ l by *Fabius Colonna* titled *Malva maxima* see *Alisa rotundifolia laciniata*. Par. 1. p. 147. Doctor L. 'mci ci ns itxsfarmiiy <trr/j, r^ft, pemat= biMi. fieri. Utfd, 10,

This is the Third Species in the *Gardener's Dictionary*. *t "l presents the Flower to r^wial » J; » me* an entire Fruit, im lo'ed by the i inner Empicment of i the Flower, which it [^ . manent; c, a single vc<d taken out of the Covrr.

The /&<a vtdgtns major, C B. !. is the Species which is ordered to be ulof i a Medicine; but that is very common to be met with in Engl. ^ j ^ *^^! which grows naturally near *London* is the *Alisa tenuifolia crispifolia* being the common l <n here; ; as been genem. 'y supposed ^ be the fene with th< wi, ch is thid

is in *Germany*, as a hit, b, Mr. *tUt* i and others, been taken for it; but that is a much larger Plant, and the Jf* are broader, and not divided near io much *» TM common Sort about *London*; so that although Mr. *Ay* mentions both Sorts, yet, by his Description of the Plants, it is doubtful if he had seen that of *Cajfar Baskin*, because he does not mention the Particulars in which that differs from the worsted Narrow-leaf'd Sort; for that Plant grows near twice the Height, the Leaves twice as large, as are also the Flowers; and the Division of the Leaves are few, and the 5 and the whole Plant is tougher than our ctnwmwi Sort. I have found that *Species* mention*d bf *Cajfar Baskin*, in *Wormshire* and *Staffordshire*; but do not remember to have seen it growing naturally in any other County in *England*.

It is seldom used in *Medicine*; but the Virtues are generally supposed to be nearly the same as those of the common *Malva*, but less emollient.

The Sort here figured seldom grows MW^ this a Foot and an half high; the Stalks grow erect, and do not branch out much on their Sides; the Leaves are finely cut; and the Flowers are larger, and of a deeper Colour, than those of the common Sort: It grows naturally on the Mountains in *Italy*, and the South of *France*; and is only to be found in Gardens in *England*.

The *Alisa* flowers in *June* and *July*, and the Seeds are ripe in *September*: Their Roots will continue Two or Three Years, upon dry Ground; but in moist Places they seldom continue longer than One Year; for their Roots shoot deep into the Ground, and if they meet with Moisture, they soon decay.

P L A T E X V I I I .

ALCHIMILLA, *Tournef. in i. R. H. 505. Tab. 219. Aui*
Mitb. 23. Alchimilla, Lin. Gen. Plant. 353.

LADIES MANTLE.

T HIS Genus of Plants is by Doctor *Tournefort* ranged in the Second Section of his Fifthenth Class, intitled *Herbs with fleshy Flowers*, which Plants comes a Seed intitled in the *Empalement*. Mr. *Ray* <«« in h Fifth Class of Plants with fleshy flowers, t-vng naked seeds wrapped up in the Empalement. And Doctor *Linnaeus* places it in his Fourth Class of Plants, intitled *Tetrandria Monogyna*, i. e. Plants whose Flowers have Four Stamens, and One Germen.

The Flowers of this Genus have no Petals, but the Pam of Generation are surrounded by the Empalement, » hich, after the Seeds are formed, do closely surround them; so these Sorts of Plants are generally termed Plants with fleshy Flowers; and by some they are called *Beet Flowers*.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species* hece rrrprecentni are,

Fig. 1. ALCHIMILLA *Alisa pubescens minor*. H. R. Par. *Inf. R. H. 508.* Smaller hoary Ladies Mantle of the *Spa*. This is the *Alchimilla minor* *serotina* *Linnaei*. *Borrel. Icon.* Doctor *Linnaeus* has supposed this Plant to be only a Variety of the *Alisa Ladies Mantle* of *Switzerland*; but it is a distinct Species.

a, represents a single Flower, separated from the Cluster; b, shows the Four Stamens; c, the Empalement of the Flower

Fig. 2. ALCHIMILLA *vulgaris*. C. B. P. 219. *Tournef. Inf. 518. Claf. III. 108.* The common Ladies Mantle. *John Baskin* calls it *Pro leonia*, see *Alchimilla*. *Hist. 1. Lib. 17. p. 298.* Doctor *Linnaeus*, in the Catalogue of Mr. *Cajfar's* Garden, titles it *Alchimilla folia palmata*; and in his *Flora Lapponica*; *Alchimilla folia fastuosa*; but in his *Flora Linnæi* he calls it *Alchimilla folia lobata*.

In the North of *England* it is called *Beet-foot*: This Sort grows naturally on moist Meadows in many Parts of *England*, but especially in the Northern Counties. It flowers in *May* and *June*: The Roots are perennial, and spread vrry wide, when they are in a moist Soil: The Leaves grow upon slender Pedicles, arising from the Root: The Flower-stems rise about a Foot high; and are clothed with Leaves of the same Shape with those below, but smaller, one coming out at every joint of the Stalk: The Flowers are produced in Clusters at the Top, which are green; but the Summits are of a yellow Colour.

This Plant is esteemed MI * wtwd \utMrt<i7 being drying and binding: It is frequently used in Wound Drinks. The Leaves of the Plant are kindly used; and these are brought over from *Switzerland*, mix'd with their common vulnerary Herbs.



Fig. 1. ADONISMA alpinum poliflorum var. H. B. K.
 Fig. 2. ADONISMA vulgare L. H. B. K.

Tabulae botanicae in usum Scholae Medicae Praesidis Joh. de Meisneri

Fig. 1. 18



ALOR. *Spina filis planis lateribus, ovipatis carinatis fere rubris.*

Illustration of the plant Spina filis planis lateribus, ovipatis carinatis fere rubris.

1777



Fig. 1. *Salvia* *Crotone* *acutifolia* *undulata* *comosa* *Swam* *Sw.* 11

Fig. 2. *Salvia* *Spicata* *hirsuta* *latifolia* *Swam* *Sw.* 12

Salvia *acutifolia* *undulata* *comosa* *Swam* *Sw.* 11

Salvia *Spicata* *hirsuta* *latifolia* *Swam* *Sw.* 12

P L A T E XIX.

ALOE, T* m> ! < \$ R. ti- \$ f & . T* h. iy. R* it Method, it J. Btrbr, lad. i' l & t. P* r. 1 > 11S. J [a | f t Plat. 389.

Aloe.

f- | "MIS Genus of !* ants is by Doctor ... raged in the Second SeajttNTkis Ninth X Clafs, intitled, ... Ou Ltff, < l tnU Six Segmetfi, wiſt fafikmrnl titni U a Fnaſ, brj* £ Tkrtt Ceiff, vbkb trj m Ud viub Sted. Mr, RJQ places it in hi> Twenty-thirj CUI of Ptana, whit.. is intitled, Herbs with Gray ... ; > < jftr/j < w < o pi*

Doctor Linnaeus has divided ... Oeneta: To one he continues the Title of ... range* 4!

The Characters of this Genus are exhibited in the ... Di.tiemuy. > agjj

The Specie here rrprefented is, ALO<< ^TIMM < Ai ^IMIJ ii<r; * > /, < > ; < fartf, < r > - ... > r* > tr# , i. e. //toMB AJW with brotd plain ... nooljf called the bryaddl kav'd Turned

This Sort was ... jtgng but I have not found it mentioned in any of the Catalogs ... port of Pbntt the Twent] fifth Sort memiMA) in the iirlinr'i 1); J; H; ; r, and app> ache> 11 ar to the Twenty-third and Twenty-fifth Sorts there mentioned; but the Leaves are much broader than either of them; and the Spots on the Leaves are very faint, and the Colour of the Leaves much paler; however, it is difficult to determine if it is a distinct Species from them, tho' there great Probability of its being so; because I have raised the Plants from Seeds, which have always proved to be the same. Doctor Linnaeus, in his Enumeration

of the Species of Plant), fuppofes but Nine Sorts of Aloe, which are ... Plants as ... many of which ... fibly be irraupa ... Stems, whkflH ... hum? ... WBf ... riGng ... II above Threa or Fotirfn< ... '11; I ... are ... try long, na ... Mr, and greatly fa*rd on their Ldgti; ... anySewahu ... Some have Spines on Both Sides their Leaves) others have no Spines; to due tfccnRan be no doubt ... ing diltinci Species ; ^ftthoic: ... which havepxii pSch have been fown, ... have constantly produced Plants ... early in Shape ... fed in the Size or ... thickneſs of their Leaves; and flWt varift! fo much in tl v n ("urm < Growth, a< to render it difficult ... SpKuv. ! thir parent Plants.

The Doctor ... Ammtcn Mat, fn ... m^Bbeoes of the fan ... Species; to which he has ai ... p^BTtecn other Sort; all dil&ring PSizHknd Make of their Leaves, at alfo in their Flowering ... to that whoever con fillers thlc Plants with any ... M p P w Accuracy, mud allow them to be fo many Species. The Two Sorts of Aloe, IMn whence th* Shop j <<< is extracted, are, I. / * < Sutctritru, tKguſitfcUtt, ffaeft. ... // > r. ... p. 91. the narrow ... kly- lerv'd Aloe of ... IWBMM, with a } ... ple Flowe i. Jtom (I Sort of AUts i ... extracted; which is this Plant the b ... the Leaves near the Stem, and fufpending them by Threads, with the Part which is cut downwards, placing an ... cirthtn V<(ftl under thim, to receive the Juice as it falls from the Leaves, which is of a yellowish Colour when it drops out; but, u it dries and hardens, becomes much whiter. This ... wii without Expreſſion ... the pureft Kind of Aloes. After this they prefs the Leaves ... and get out a great Quantity of Juice, which is gener ... ilij tnixd with the Pulp of the Plant, fo produces a i ... ery coarſe Sort of Aloe, which is known in the Shops by the Name of Aloe Calabreſe. This Sort is ſeldom uſed in Medicine, but is given to Horſes. ad^alio tl ... which is extracted from the other Sort of Aloe, called Falgura by Geſner Bechic; This is a Native of the Iſland of Java, from whence the Aloes ... K S M M in the Shops by the Title of Barbadoes Aloe, tho' it is common in moſt of the other Iſlands.

P L A T E XX.

Aiv 1808, Town. 183. R. H. 216. Rail Method. Plant. 93. Barb. JnJ. J., 2. 5. Aſſan, Lin. Gen. Plant. 722.

M. i > O > t.

mill S Genus of Plants is by 'xtor reamjM raged in the Fifth Section of his Fifth Clafs, intitled, Herbs with a Flower in Form of a Club, whoſe Pencil becomes a Fruit, denſe ... by an iſſt ſala; tt y ! * * * e * ; ... M. X i .

ti inti it FK

it is in his Twentieth Clafs of Plants, which he titles, Herbs with a Flower of Four Leaves, ſucceeded by Pods; And Doctor Barboeſe places it in his Clafs, intitled, Herbs with a Flower of Four Leaves, ſucceeded by ſhort Pods. Doctor Linnaeus has altered the Name to Agave, and has placed it in his Fifthteenth Clafs of Plants, intitled, Yuccaceae ſimilis, i. e. Plants whoſe Flowers have Six Stamina, Four long, and Two ſhorter, which are ſucceeded by ſhort Pods. To this Genus the Doctor has joined the Agave, and Yucca, i. e. Yuccaſert; but as the Seed-veſſel of both ſorts are ſituated like a bladder blown, ... nd ihcif ol, it^i* << cwayrrtfcd, ... m the i' me Cicm.

The Characters of this Genus are exhibited in the ... Di.tiemuy. > agjj

The Specie here rrprefented is, ALO<< ^TIMM < Ai ^IMIJ ii<r; * > /, < > ; < fartf, < r > - ... > r* > tr# , i. e. //toMB AJW with brotd plain ... nooljf called the bryaddl kav'd Turned

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Cochi i »t *Farit*, where it w» cultivated *tu*>, and since his been dirttrbtlted to m. all of the curious Gardens in *Etrepri*; »nd it preferred u »n omanwnu: Plant for Gardem. It flowers in *Afrit* and *JUJT*, *nd rii Swds in *JW*. 1 :r^r *Jy* in refpta 10 CoM, provided it it planted in a dry Sen! . for in wet Land it is »pt to rot in *Wir* ; or if it is planted in rich Ground, it is apt to gre-^v very rank in Summer; and being full of Sap, th Frost will sometimes destroy those Plants in Winter; but where they grow upon Walls, or a rubbishy Soil, they are rarely injured by Cold, and the Roots will continue many *Vein*.

Fig. 2. *ALYSSUM Apospon, hirsutum latens. Tourn. Inf. R. H. 247.* Yellow hairy Madwort of the *Apo*, representing the Flower with Four Leaves, placed in Form of a Cross; *s*, the Seed-vessel, which is divided into Two Cells by an intermediate Partition.

This Plant is by *Casper Bauhin* titled, *Sedum Apospon hirsutum latens. Pis. 224.* i. e. Yellow hairy Hoodless of the *Apo*, and by *Lobel* it is titled, *Sedum patens minus. Ilex. 381.* Doctor *Linnaeus* has separated this, and some other Species, from this Genus, and has placed them under that of *Draba*. The distinguishing Cha-

acter of this Genus he makes to consist of the Flower having no Style; whereas those of *Alyssum* have a very perfect one. In his *Systema*, and his Enumeration of the Species of Plants, he calls this, *Draba hirsuta simplicis, foliis lanceolatis integerrimis. Flor. Lap. 255. last. 624.* This is the Third Species mentioned in the *Gardener's Dictionary*. It begins to flower early in *March*, and continues most Part of *April* in Flower, if it is planted in a shady Situation. The Flower-stem seldom rises more than Two Inches high; the Plant shoots out Heads on its Sides, somewhat like the *Hesperis*; from whence I suppose the *Id Authon jll*:t it with them. These Heads, each of them putting out a Flower-stem in the Spring; so that when there are many of the Heads in One Branch, the Number of Flower-stems being the same, it makes a pretty Appearance when the Flowers are open; whereas when the Heads are separated, being only single Flower-stems, they make no Show at a Distance. It is a Native of the *Apo*, and has been long preferred in many curious Gardens, where, if it hath a shady Situation, the Seeds will ripen well; but as it propagates very fast by Offsets, the Seeds are seldom sown.

P L ^ A T E X X L

AMARANTHOIDES, *Tourn. Inf. R. H. 624. Tab. 210. Raii Meth. Plant. 25. Amaranthoides. Barb. Ind. Plant. 2. 99. Caracras Vahl. Acad. Reg. Sc. 1722. Gomphrena, Lin. Gen. Plant. 279.*

Glaji A «*» AVTHUL

np HIS Genvt of !*nt» was constituted by Father Doctor *Tournefort*, in the Appendix to his Institutions of Botany, p. 624. i and, according to his System, should be placed in his Twelfth Class of Plants with *Sesulales Fowers, whose Flowers are cut into equal Parts, each having a proper Empalement.* Mr. *Ray* places it in his Fifth Class of Plants with *Assoneres Fowers, whose Seeds are held by the Empalement.* Mr. *Willd.* has placed this under his Class of Plants which he titles *Diglossa*, which is a confused Jumble of Plants joined together, many of which have no Affinity. Doctor *Linnaeus* places it in the Second Division of his Fifth Class of Plants, entitled *Pentandria Diglossa, i. e. Plants whose Flowers have Five Stamens, and Two Styles.* The System of Botany which the Doctor has established, in classing the Plants by the Order of Generation in their Flowers, reduces this Genus under the Class here mentioned, which joins it to many other Genera, which, by all former Methods, were separated to a great Distance; and the most natural Place for this Genus is with those Plants where *Tournefort* has classed it; as the Heads are composed of many flocculous Flowers, each of which is succeeded by a simple Seed.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here exhibited are,

Fig. 1. *AMARANTHOIDES hybridus folio, capitulis purpureis superioribus.* Globe Amaranthus, with a Leaf of Lychuis, and larger Purple Heads. *s*, shows the Two-leaf'd Empalement, which is hollow like a Gutter, and closely embraces the Flower *s*, which is divided at the Top into many equal Parts, and afterwards succeeds the Seed *c*, so closely, as with Difficulty to be separated.

This is the First Species mentioned in the *Gardener's Dictionary*. By Doctor *Breynius* this Plant is titled, *Amaranthus affinis, altera species, five fere purpurea. Cist. 1. 170.* AM by Doctor *Cominus*, in the *Anglerian Garden*, it is titled, *Amaranthus affinis, India Orientalis, fereque glomeratus, OtymuAt fUm. p. 1. 85.* In England it is commonly called *Globe Amaranthus*, or *Eternal Flower*; *j.iii* by *DM French*, *Jmmtr!*%, because the Flowers will continue their Beauty a long time, if they are gathered in Maturity, and preserved in a dry Place.

Doctor *Linnaeus* has changed the Name of this Genus to *Gomphrena*, and titles this Species, *Gomphrena cordata, foliis ovatis-lanceolatis, capitulis peltatis, pediculis oppositis. Hort. Cliff. 86. Sp. Plant. 224.*

The Plant here represented is a Native in *India*, from whence the Seeds were brought to *Holland*, about the Year 1690, where the Plants were raised in some curious Gardens, and the Seeds were distributed to most of the curious Gardens from thence; but this Plant was not common in the *English Gardens* till the Year 1725, but is now become one of the great Ornaments of the Gardens in Autumn.

There is a Variety of this Plant, which is common in some of the *American Islands*, and is by many supposed to be the same with this; but all those Plants which have been raised in the *English Gardens* from the Seeds which were brought from *America*, have smaller and faster Heads; the Plants branch out more, and do not grow so upright as those from *India*; the Flowers come much later in the Year, so that their Seeds seldom come to Maturity in *England*; therefore *Linnaeus* added the Epithet of *capitulis superioribus* to this Plant, to distinguish it from the *American*, which grows produces Heads more than half the Size of this, in the Places where it naturally grows.

Fig. 2. *AMARANTHOIDES hybridus folio, capitulis argenteo-superioribus.* *Tourn. Inf. R. H. 624.* Globe Amaranthus, with a Lychuis Leaf, and larger Silver Heads. This Sort is figured by Doctor *Breynius*, in his *First Century of Plants*, p. 109. Icon. 51. And in the next Plate he gives the Figure of another Species, which he titles, *Amaranthus affinis Anglica, glomeratus portifolius foliis. Tab. 52.* The Seeds of this Species I ever received from *America*, and have constantly observed the same Difference between the Flowers and Plants of this, and those with Silver Heads from *India*, which is here figured, as there it is those with the Purple Heads before mentioned; so that if the Difference between them is not sufficient to constitute them different Species, they are Varieties which constantly continue the same from Seeds; therefore those which came from *America* are not worth cultivating in *England*, as their Flowers are not near so large or beautiful as those from *India*; and do the Plants produce half the Number of Heads.

Doctor *Linnaeus* makes them but One Species, that with Silver, and the other with Purple Heads. Indeed, the Colour is not sufficient to make them different Species; tho' they never vary from their Colour, but always continue the same as the parent Plants from which their Seeds are taken.



Fig. 1. ACANTHACEAE hybridis foliis ovatis, pappo rugulato
 Fig. 2. ACANTHACEAE hybridis foliis ovatis, pappo rugulato, basi striato

Tab. bot. rar. p. 100. fig. 1. & 2.

1758



AMARANTHUS spinosus L.

Am Saft is !rfi cntvmion in i" ...
that with the purple l; M J « . J tti ...
Son from HitjrtJ, in the Year tjit., ...
it has been preferred in feveral curifn ...
that with purple Heads, making a firtrfr ...
by most Perfons preferred to the ...
the White being intermixed with them ...
They are both very ornamental Plant ...
den; they begin to fhew their Flowers ...
provided the Seeds are low: inAf*Tf*i ...
mc r ought forward, j,y being removed ...

beds, they will be ill fuil Beauty by the Beginning I
ygh; «nd continue til the End ot &rpttmbrr; or the Be-
ginning of Otiekr; when the Seeijs will be rip?, which
Should then be cut off, ami ilitr Seeds preferred in the
Head.-til) theSc*fon for fowing tlirm *, but they (hould
be kept in a dry, wvrii, Room, elhcrwife thic Secdi
will not grow.

The ufual Htight to which thefe Plants grow i*
*bout Two Fe« ind an half i and, when they are not
too much drawn in the Hot-beds, they will form them-
felvei into regular handfome Plaal

P L A T E XXII.

AMARANTH ^ Tew* Z15Jfi. H- 1J1. Tab. III. fart
Mtibui. Plum. t\$. U*. Ge*. PU»t. 9+1.

A I A M A R A N T H U V, w F t o w m G I K T L I.

T I S G«tuj of Plant* i» by 1)r. 7W*/«rt ranged
in his Sixth Clafs, which is titled, I, J'ith with a
Key-form, whole Petal becomes a Seed-veft; Jiving ÖIK
Cells, which open tranfverfly in Two Parts. Mr. Ray places
it in his Fifth Clafs of Plants with apertains Flowers,
whole Emplacement inclofe the feeds. Doctor Linnæus re-
moves this Genus to a great Diflance from thofe of its
Congeners, placing it in his Twenty-firft Clafs of Plants,
intitl'd, Monous Perianthia, from there being Male and
Female Flowers in the fame Spikes, and the Male
Flowers having Five Stamens: But this is not regular
in all the Species, for fome have Three, and the others
Five Stamens, and this often occurs in the fame Plant.
The *Amaranthus Cofmofus*, commonly called *Cockfins*
Amaranthus, is placed by Doctor Linnæus in his Fifth
Clafs of Plants, as there have hermaphrodite Flowers
only; fo that thofe Plants, which, by moft of the Writers
on Botany, have been included in the fame Genus, are
now removed to a great Diflance from each other.
The Title which the Doctor has given to that Genus
is *Calyx*.

The Species here reprefented is,

AMARANTHUS, ramis cylindricis lateralibus his nu-. -tSmf:
fid, i. e. AMARANTHUS with cylindrical Spikes, pro-
duced from the Wings of the Leaves, in Form of
a Comb. A, reprefents a Flower; B, the Seed.

The Seeds of this Plant were firft from the *Bolonia*
(lands); but it is not certain whether it is a Native of
thofe Iflands, or has been brought thither from fome
other Country; however, it is now in fo great Plenty
there, as to be eaten by the Inhabitants as a boiled Sal-
lad; and, fo far as I can learn, it is cultivated in their
Gardens; thofe in thofe warm Countries, where the Seeds
ripen well, thofe Plants will foon overfpread the Ground,
where their Seeds are permitted to fcatrer, and become
very troublefome Weeds.

This Plant will grow to the Height of Three Feet,
and produces many Spikes of a bright Purple Colour,
which come out from the Wings or Footstalks of the
Leaves, equaling each other all the Length of the Plant,

(landing almoft horuoirali in which Particular indifFi-
rs from all the other Species of this Genus; (or fume of
[htm have upright, and others pendulous Spike? ; iome'
of which are fo long as to trail upon the Ground, thofe
they are produced from the Top of Plants winch are
generally upward of Two Fett high: Thefe Spikes arc
co-monly but (ender, which are ftretched out to luch
Length.

The Spikes of the Plant here reprefented are not fo
regularly cylindrical as are thofe of the other Speciei,
but have feveral Swellings in different Parti, which,
together with the Manner in which they are produced,
do fufficiently diftinguifh IT 'runi all the other Speciei
of this Genus.

This Plant muft be raifed On ; Hot-bed in the
Spring, odxrwile it will nor ptrlr ft Seeds in *EJBUKJ*;
but they fhould not be too much drawn by the Giffii,
for thit will caufe (htm tu run up weak, and then thr^
never make fo good an Appearance, as wrten they are
brought up more hardily. In 7«« they may be planted
into the open Borders, or if they are figtict fol PoO,
to p JCC aimonj', i other annual Plants i PI Courtf, they
fhould be poned, and l had fr >m the Sun until they
have taken Root; after which time they may be re-
moved into the open Air, and placed where they are de-
figned to remain. The fame Culture which the C«skf-
comb ufually has will agree with this, <nly it may be
treated more hardily.

It is in Beauty from the 'Aiddi(' of *Jttu* tilt the FroB
in Autumn puts an End to it. The Seeds will ripen
toward the End of September, when they ftoukl be
taken before the Froft injures them.

Moft of the Species of *Amaranthus* are in all th* hot
Countries ufed as culinary Plants: The Seeds of feveral
of them have been lent to England, with Advice to
propagate them for the fame Purpose here; but as *Spina-
ch*, and fome other fimplet Plmw, are enthu-
fied with greater Eafe, and alfo much preferable to the
others; there are few Perfons fo fond of thefe Novel-
ties, as to prefer them to thofe which are commonly
brought to the London Markets: Indeed, in thofe Coun-
tries, where other exultant Plants are fcarce, they may
be cultivated; but where *Spinach*, *Cabbage*, and many
other exultant Plants will thrive, there is not One Spe-
cies of this Genus which is worth being cu-
ltivated.

P L A T E XXIII.

AMARYLLIS, Lin. Gen. Plant. 167. Lily-Narciffus Tourn.
R. H. 145. Tab. 107. Ros Malak. Plant. 120

LILY DAFFODIL.

T H I S Genus of Plants is by Doctor Linnæus placed
in his Sixth Clafs of Plants, and in the Firft
Section of the Clafs, intitl'd, *Heterous Monogynia*, i. e.
Plants whole Flowers have Six Stamens, and One Style.
Doctor Tournefort places it in the Fifth Section of his
Ninth Clafs, intitl'd, Plants with a Lily Flower, com-
pofed of Six Leaves, whole Emplacement becomes a Fruit.
Mr. Ray places it in his Twenty-third Clafs, which he
titles, Herbs with graffy Leaves, bearing Flowers which
have a triangular Seed-veffel.

By Some of the old Writers on Botany, who have
mentioned any of the Species of this Genus, they are

called either *Lily*, or *Narciffus*, as their Flowers have
 fome Affinity to both thofe Genera. This induced Dr.
Tournefort to make a new Genus of them; and as they
approached near to the *Lily* in fome Species, and in
others to the *Narciffus*, he compounded the Two Names
of *Lily* and *Narciffus* to *Lily-Narciffus*; but Doctor Lin-
næus, having rejected thofe compound Titles, has al-
tered it to *Amaryllis*, which is an antient Name of 4
Plant.

The Species here reprefented are,

AMARYLLIS *hytha multiflora*, *orealis* *compofita* *ap-
tata*, *primulina* *divinorum*, i. e. AMARYLLIS with many
Flowers included in the fine Cover, whole Flowers
are equal, and bell-fhaped, having the Parts of Ge-
neration declined; commonly known in England by
the

the Same of totiaJm* LA. ThU i* the Fifth Spe-
cie menti Md in the Gardener'; DiHicaer? 4 4, re-
picknti the Spatlu, or Cover, which it. cludes the
Flower-bods, and open* in Two Part* •heti the
flowers are near expanding. 4, (h. s the Stamina
with the Sryk, which decline town the lower Part
of the Klower, but t turn upward, so that the Sum-
mits and the Style approach nearly together t, fhrrt
the bulbt*ui Root, with the Lt*vcj, which do oot
appear tijj tlic Spring.

1 hit Plant a by Sir ffitu Sbvu mtltlrd, ZiS* AV-
pshan:U\ fore *incarnata, fide in Intro-abbreviate.*
Cat. Journ. 115. i Victor sturtw/trl fupposed
P ant which Professor "rrmtm kaa figi •
the Par tub/*) Bit, *incarnata*, under the Title of ;ilum Ame-
nmiama fmmtt Jkn, Bt'lddtmjtb.lum, <nd t
Dm Trtn, but he wu i *incarnata*. The next Plate
represents Professor Herma's Plant; and the Red Lily of
Da Feve is a Third Species, different from both these.

The Title of *awimmUm* has been applied in differ-
est Countries to thi* Plant, and also to that mentioned
by Sir Hans Sloane, which may have occasioned the
Mistake made by Doctor Fearnsey; the Plant which is
figured in this Plate being called in Portugal and Italy;
wherraiti- other Sort was first iom^>n7« to Holland,
by tii: same Name: But whose xi >ttcwb I
Description of Herma's I Plant, can have no doubt of its
being the r. which is exhibited in the next Plate.

This Plant, which is here represented, is said to be
gathered by Sir A*di \$Mut, m the Jiltnd of *Bertholoni*,
<nti hi Description, v n leemi to be well eftouab
adapted to this Plant; but from all the Intelligence I have been
able to procure from the Inhabitants of the several
Countries, they have but Two Species of what

they CU 1 *lilies*; One White, which is a *Pavonia*;
and the «her A' *lily*, which is what I have before men-
tioned, and is a very different Species from this. The
Flint het figured was brought to England from Per-
r>jfi/, about the Year 1712, by a Gentleman who had
the long refitted in that Country, who informed me that
the ROOM were brought from India into that Country,
tnd were propagated by some curious Persons in their
Girdent near *Loano*; but whether from the Want of
Case to propagate them, or by their sending them from
thence to other Countries, is not easy to determine, but
there ill Scarcity of their Flowers now in Portugal, where
the *Japanese Lily* is at present in greater Plenty.

This Son usually flowers about the End of September,
or the Beginning of October, in England; and, if the
Kuou ar strong, the Stem will rise upward of Two
feet high, being naked, and of a Purple Colour, hav-

ing Five, Six, or Seven Flowers at the Top, which are
in Shape like the common Red Lily, and self as large,
but of a soft purple Colour, inclining to white with-
6de t>> and the Bottom, having an agreeable Scent.
If the Season is favourable, or the Flowers are rescued
from Frost, which sometimes happens at that Time of
the Year, as also from violent Winds, or heavy Rains,
they will continue in Beauty a Month, or longer; and
are very ornamental Plants to a Garden, at a Season
when there is a great Scarcity of Flowers; therefore
they are worthy of being propagated by all those who
Delight in Flowers.

As these Flowers appear to live in Autumn, they
never produce any Seeds in England; therefore they can
only be propagated by Off-sets here, which is but a
DC of increasing their Roots; but they are too
tender to live in open Borders in this Country; therefore
whoevrr pfOpofri to have these Flowers multiply with
them, should plant them in a warm Border, near a South
Wall, putting the Roots Six or Eight Inches deep in
the Ground; and before the severe Frost sets in, the
Borders must be covered Four or Five Inches thick
with rotten Tanners-bark, to prevent the Frost from
penetrating the Ground: With this Management the
Roots will thrive, and in the Spring they will put out
strong Leaves, which will remain flourishing till the
End of June, when they will begin to decay; and soon
after they may be transplanted: But they should MI
be removed oftner than every third Year, if they are
expected to produce strong Flowers; nor should they
be planted in a moist Soil, for in such their Bulbs will
rot in Winter.

There is another Species of this Genus, which ap-
proaches near to this here figured, but differs in having
a much paler Flower; and the Flowers are produced in
the Spring, whereas this always flowers in Autumn.
The Sort here mentioned was brought from the Cape of
Good Hope, in the Year 1704, to *Holland*. Some of these
Bulbs were sent me by Doctor David Fox, fc, the
present Professor of Botany at *Leiden*, which have produced
their Flowers in the Garden; and are in the
SJuf so like that here figured (as are all the Leaves of the
Plant), as not to be distinguished therefrom, but by the
Colour, and the Time of its flowering.

The Sort here figured is by the *Italians* called *Ner-
opsis Belladonna*, and is cultivated in great Plenty in the
Gardens about *Florence*; so *... ia At* Autumn Season
it is one of the greatest Ornaments of their Gardens.
The Flowers are brought to Market there, and are used
to adorn their Houses and Churches; for at that Season
there is a Scarcity of other Flowers.

P L A T E XXIIII

AMA - vt.t it, ff*ib* >>>; *lily, usually comprehended equi-*
Mtf, *marfmitu w4lio* i.e. *Amaryllis* with many
f'lnwrn intlutfel in ihe (a *one spatula, or Cover, whose*
W>Trd. Thtt li *Petals are equal, flb>; and like a Bell, and their Borders*
commonly known in England by the
Title of *Indian Lily*. It is figured by *Herman* in
the *Paradise Botanicus*; and is there called, *Lilium Ame-*
ricanum j *Jkrt*, *Belladonna distans*, p. 104. This
sight probably lead Doctor Fearn-

the Mistake of supposing it to be the same
with that v *species* which is mentioned by Sir Hans Sloane
tn hi* CuiJ(<M of *Amn* *as Plants*; but if he had
attended to h I Description which Doctor *Herman* has
given of his Plant, he would have found it to be
the *Indian Lily* before described.

IUJ Mmmimmiitt*+ *lily* before described.
#, #, i>j>Srtrt> the ^ii-ji *or Cover, which surrounds*
the Flower-tewK, HKJ *divides into Two Parts, when*
the Bud* Mt nrtr oprnmg. *It shows the Stamina,*
or Male Or set, which are situated round the Style
> are declined toward the lower Part

mt tht FWWCT.

rpKJS ft>M h< hm> mot* thwi I thirty Years in
i but Uwn whence it ww brought is not

certain. It flowered in Mr Fairchild's Garden at *Horton*
in 1728, when the late Doctor *James Douglas* caused a
Figure of it to be drawn, and wrote a *Folio Pamphlet* on
it. He gave it the Title of *Lilium Roxburghi*, because it
was in full Beauty on the First of *Mr. A.* which was the
late Queen's Birth-day. Mr. Fairchild told me the Roots
were brought from *Madagascar*; so he gave it the Name of
Madagascan Lily, which is still continued to it by the Eng-
lish Gardeners.

Doctor *Herman* says it came from the *Caribbean Islands*;
but all the Roots which I have received from
Handy, by the Title of *Red Lily*, are of a different Sort.
from this.

It flowers constantly in the Spring, when it is placed
in a very warm Soil. It is in Beauty in *February*;
and those which are in a moderate Temperature of Air
will flower in *March* or *April*. The Stems of these
Flowers seldom rise much more than a Foot high; and
each Stem produces Two, Three, or Four Flowers,
rarely more than that Number. It is much tenderer
than the former Sort, therefore will not thrive in this
Country, unless it is preserved in a warm Stove in Winter.
It propagates by Off-sets, but never produces Seeds in
this Country.



* AMARYLLIS *gracilis multiflora varietas compressulata variegata reflexa peruviana deland.*

deland. 1810. tab. 100. fig. 1.







Handwritten text, likely a botanical description or specimen label.

Small handwritten text at the bottom left corner.

Small handwritten text at the bottom right corner.

P L A T E XXV.

AMMI, *TMTH* /*(R H- 3H' C. B. P. i<9- Añi M< tLj ,1 LnCtx Plant. 20?'

BJJHOPIWIED.

I ranged in the First Section of his Seventh Class of Plants, intitled, *Herbs with umbellated Flowers ranged circularly, whose Emplacement turns to Two small channelled Seeds.* Mr. Ray places it in the Eleventh Section of his Eleventh Class of Plants, which he styles, *Herbs with umbellated Flowers, which are furnished by short thick branched Limbs.* Doctor Linnæus places it in his Fifth Class of Plants, intitled, *Pentandra Digenia*, i.e. Plants whose Flowers have Five Stamens, and Two Styles.

The Species here represented is,

AHMI M9<1, C R. P. 159. Common Broad-leav'd Bishopsweed. This is by *Joh. Bauhin* intitled, *Ammi vulgare majus, lateribus foliis, junior minor* *iITM.* *Hort. Plant. Vol. III. p. 2. 27.* By *Boissier* it is called, *Ammi vulgare Pempt. 301.* Doctor Linnæus intitles it, *Ammi foliis inflexis junioribus involucris serratis septemlobis multisque liguribus.* *Hort. Ufful. 59. Hort. Plant. 243. 1. 2.* Bishopsweed, whose lower Leaves are winged, spear-shaped, and fawed on the Edges, and the upper Leaves divided into many narrow Segments; *a*, shows the under Leaves, which are broad, and fawed on their Edges; *b*, the upper Leaves, which are divided into many narrow Segments; *c*, represents the Flowers growing in an umbel; *d*, the seeds which succeed the Flowers.

There is a Variety of this Plant, which is mentioned in several Botanic Books, under the Title of *Ammi majus foliis pinnatis simplicibus* *U. umbellat. majus*, C. B. Pin. 159. i.e. Greater Bishopsweed with Leaves finely cut and curled. But this is only a seminal Variation, for from the Seeds of one Plant there will arise Plants of various Forms, some with very broad Leaves, others with very finely divided Leaves, and some of a middling Sort between both. I have frequently taken the Seeds of each

Vtrirtf, and Town them in difitrenl Places with great C*re, and have always found, t)ut from each Parcel there have been Plants of all ti. different Varieties produced; fo iha they must not be taken for distinct Species, notwithstanding their different Appearances; tho' *Farfias*, *Caneraria*, and some others, have supposed them distinct Planes. Mr. Ray observ-d both th<e Varieties growing promiscuously in the Vineyards and id cultivated Fields in *Italy* and *France*, where this l'iasit naturally grows, so makes no Juubc of iti being a feisiinal Variation. *T'trkin/cn* h*s ittipofed thii Plmt to be a Nature of *England*, ind fuy-t it wi5 (pund wild about *Grounds* in *Kent*, Hui ii mutt have cerumly trilen from some Seeds accident. *y I entered thhre, or thrown out of some Garden; because it has not lien found in that Place since his time, nor in any other Part of *E*gUtnd*, when once the S<di »rr (own in a Garden, and the Plants are permitted to flur: their Seeds in the Place, there will be a Supply of PIMtt annually produced, as long as any of the -ccdi remaii* in the Ground.

This Plant ii Minimal, and, if the Seeds .re Town in Autumn, the Plants will flower by the Beginning of July, and the Seeds will open the Beginning of September, or sooner, in a warm Season. When the Seeds are sown in the Spring, they often remain in the Ground till Autumn, and sometimes till the following Spring, before the Plants appear; nor will those Spring-sown Plants, which come up the First Year, be near so strong as those sown in Autumn, which in good Ground generally grow near Three Feet high, and perish soon after their Seeds are perfected.

The Seed of this Plant is the only Part which is used in Medicine; it is employed in carminative Decoctions; and is esteemed a good Aromatic, being attenuating and diuretic.

There was formerly another Sort, whose Seeds were brought from the *Levant*, by the Title of *Ammi verum*, and *Ammi Ormus*: But of late Years there has been none of these Seeds imported; but the Seeds of the common Sort have been used to supply its Place.

P L A T E XXVI.

AMMUM, *Linn. Gen. Plant. 2. Flor. Lych. Prod. 13. Zinniber, C. B. Pin. 35. Bell. Metast. Plant. 222.*

ZERUMBET, or ZERUMBETH.

THIS Genus of Plants is by Doctor Linnæus placed in his First Class, intitled, *Monandra Monogyna*. The Flower having but One Stamen, and One Style. Mr. Ray places it in his Twenty-third Class of Plants, which he titles *Gracilifolia* *Stipites* *bulbosi* *affinis*, i.e. Plants with Grace-like Leaves bearing Flowers.

The Characters of this Genus are,

The Flowers are produced in a compact fleshy Head, each having a spatula, or Leafy Cover: The Flower is of One Leaf, having a short Tube, and is divided into Three Parts at the Top, the middle Segment being larger than the others. In the Centre is One Stamen, beset like a Leaf, which NUM. V.

arise by the Style, and is of the same Length, relying upon the Germen, which afterward becomes an oval Fruit, divided into Three Cells, which contain many Seeds.

The Species i here represented is,

AMMUM *sapa sula, spua oblonga striata.* *Hort. Cliff. 3. Hort. Ufful. 1. Flor. Lych. Metast. Lych. Prod. 13. Zerumbet, or Zerumbeth*, by some called Broad-leav'd Wild Zinger.

Doctor *Tiansfort* hath not mention'd nedar.; of the Species of *Ginger* in his Institutions of Botany; nor have we any Description of the *Zerumbet* *Gabagah* and *Zainary*, by which they may be distinguished. The only Author who has well described the Plant here figured, is Doctor *Hirson*, who says it is the *Zerumbet* of the Shops; but does not distinguish it sufficiently from the *Galagala*.

Galagala, or *Zedary*: The Writers on the *Materia Medica* have only described the dried Roots, as they have been imported, being ignorant of the Plants whose Roots they were; and it is but of late Years that we have had the Plants in the English Gardens, therefore could not determine what they were.

The Roots which I have seen sold in the Shops for the lesser *Galagala*, were those of the Plant which Doctor *Linnaeus* has called *Konjifera*; and is figured by Doctor *Knapp*, who calls it *Fardus*. It is also figured and described in the *Herbo Malabarica*, under the Title of *Kampala Kidaga*.

The *Zedary* approaches near to the Plant here figured, but the Leaves are much broader, and grow near twice the Height of those of *Zexmisch*, and are placed on every side the Stalk; whereas those of *Zexmisch* are only on Two Sides, so appear flat, when compared with the other, and the Roots are much larger. How this differs in its Flowers I cannot say, as I have not seen this Species in Flower; but the *Zexmisch* flowers usually in England, when it is kept constantly in the Turners-bark; for if the Pots in which the Plants are planted be placed on Shelves in the Hot-house, the extreme Fibres of the Roots will become dry, and then the Plants will not thrive after.

The general Name of this and the common *Ginger*, was *Zanzibar*, by which most Authors who have mentioned these Plants have called them: But Doctor *Linnaeus* has altered their Title to *gingivum*, and has added to them the *Cordone* and *Grass of Paradise*; making three Species of that Genus.

Doctor *Heron*, in the *Herbo Ludlow-Botrica*, calls the Plant here figured *Zanzibar frondosa latifolia*; and an *Garnet* it is called *Zexmisch*. It is a Native of India, from whence the Roots are brought for Use.

a, represents the Root, as it spreads in the Ground;
b, the naked Flower-stem, which arises immediately

from the Root; c, the sterile Spike; d, the Flower coming out of the fleshy Head; e, the Fruit-stalk of the Leaf, coming from the Root, which decays in Autumn; at which time the Roots should be taken up for Use, as they are at that time in the greatest Strength.

The Root of this Plant is the only Part which is used in Medicine; it is heating, drying, and is esteemed good to expel Wind; confirming the Bowels; and is frequently ordered for Cholera, and other Disorders of the Stomach; as also to prevent Vomiting.

The *Zexmisch*, *Zoharia*, and lesser *Galagala*, are now pretty common in many curious Gardens in Europe, where there are Hot-houses with Beds of Turners-bark; but within the Pots in which their Roots are planted be constantly kept in the Turners-bark, the Roots are apt to stink; and when that happens, they frequently rot; but, by giving the Plants much Wet, they are soon destroyed, especially after they have been kept dry any time; which is also the case of the common *Ginger*.

The Roots of the lesser *Galagala* were obtained from India in the Year 1724, by *Charles Dufay*, Esq. of *Mindon* in *Bery*, who communicated them to several curious Persons in England; and they have since been sent to many curious Persons in *Holland*, *France*, and *Germany*. The *Zexmisch* and *Zedary* were brought to England about the Year 1738, from *Madaga*. And their multiply to fall, when they are properly managed, that many of these Roots are annually raised in *Engl.*

The common *Ginger*, which grows naturally in the *West Indies*, has been long in the English Gardens; but neither of these Seeds make any Progress here, until the Use of Turners-bark in Hot-houses was introduced; since which they all thrive as well as if they were in their natural Countries; and large Quantities of the Root of *Ginger* have been taken up for Preserving in England.

P L A N T XXVII.

AMORPHA, LIN. GEN. PLANT. 441.

BARBADO VIGNA.

The Character of this Genus is,

The Envolvement of the Flower is tubular, cylindrical, and is of One Leaf, which is divided at the Top into Five Parts, which are equal: The Flower is papilionaceous; but differs from all the Genera of this Class, having only a broad Standard, which stands above the Petals; so that the Wings and Keel are wanting to the Flower: The Stamina consist singly at the Bottom, but are separated above the Envolvement, and are of unequal Length: Each support four standing Stamens, which are unequal: The Petals stand above the Stamens, supporting a single Legume: The Pod is bifurcated towards a short Pod, included in the Calyx, opening in One Cell, in which is One or Two Kidney-shaped Seeds.

THIS Plant has been placed with the *Barba Jera*, to which Genus it is nearly allied; but the Flowers wanting the Keel and Wings, and the Pod being compressed, are sufficient to distinguish it from the other Plants of that Genus, which occasioned Doctor *Linnaeus* to separate it, and to constitute a new Genus of it, by the Title of *Amorpha*.

In the Catalogue of Trees and Shrubs, which was published by a Society of Gardeners, it is there men-

tioned by the following Title, viz. *Barba Jera Americana Platanus* and falls for the purpose mentioned; and in the *Philosophical Transactions* of the Royal Society it is called *Barba Jera Carolina*, *Psychotria folia*, *Barbado Indica*, in which, N^o 257.

There is but One Species of this Genus at present known, which is there exhibited; therefore it hath no specific Title; but is in the Catalogue of Mr. *Clerk's* Garden called *Amorpha*, p. 222. Tab. 19.; in the Catalogue of the *Orchard Garden*, p. 208.; and in the *Programme to the Leicester Garden*, p. 292. This is the Third Species of *Barba Jera* in the *Gardeners Dictionary*.

a, represents the Corolla of the Flower, which consists of One broad thick Standard; b, the Ten Stamina, with their Filaments, which are of unequal Length; c, shows the Style, with the stigma standing above the Stamina; d, the short compressed Pod.

The Seeds of this Plant were sent from *Carolina* by Mr. *Cole*, in the Year 1724, which were sown in many Gardens; and Numbers of the Plants were raised from them, some of which produced their Flowers in a few Years after; and now they are pretty common in most of the Nursery Gardens about *London*, being propagated and sold as a flowering Shrub, with many other Seeds.

It will grow to the Height of Eight or Ten Feet, but generally produces many Branches near the Root, which



AMORPHINA longifolia

Illustration of the plant

1844



Fig. 1. *AMYGDALUS* *indica* L. var. *negunda* C.B. Pers.
 Fig. 2. *AMYGDALUS* *indica* L. var. *negunda* C.B. Pers.

Del. et Sculp. G. B. S. P.

1824

are placed irregularly; so that it will not make a good Appearance, when it is placed single, but if planted among other Shrubs, so as that the Stems are hid from Sight, the Tops of the Branches, when in Flower, make a pretty Variety; but as it is late in the Spring before the Shoots come out, these Shrubs have the Appearance of being dead till the End of April, or the Beginning of May; but when they begin to put out new Shoots, they soon grow to a considerable Length, and are furnished with long winged Leaves, shaped like those of
 «ie Cemme* JIUKU, but of a darker Green: The Flowers

are produced in Spikes, at the Extremity of the Shoot*, being generally Three or Four together: These Spikes are Six or Eight Inches long, and fully garnish'd with Flowers, which are commonly in Beauty about the latter End of June; but the Seeds seldom ripen in England. In North America they have a naked Sort of Juice from the Leaves of this Shrub, which occasioned their calling it Barbad Indigo; but since the true Indigo Plant has been there cultivated, the Inhabitants have made no Use of this.

P L A N T E XXVIII.

AMV ALMOND, *Taxon. Ich. R. H. 527. Ray Meth. 149. Lin. Gen. Plant. 345.*

ALMOND TREE.

THIS Genus of Plants is by Doctor Tournefort ranged in the Seventh Section of his Twenty-first Class, intitled, *Trees and Shrubs with a Red Flower, single Pointal, and a Joint Fruit.* Mr. Ray places it among the Trees whose Flowers join to the Base of the Fruit, and grow single. Doctor Linnæus places it in his Twelfth Class of Plants, intitled, *Leguminosæ Mægnis*, from the Flowers having Twenty Stamens, and a single Pointal; and he joins the *Præcox* to this Genus, making it only a specific Difference: But where the Fruit is admitted as a Character to the Genus, it must be separated, the outer Cover of the Almond being dry, hard, and compressed, whereas the Peach is rounder, the Flesh thick and moist, and the Stone very tough.

The Species here represented are,

Fig. 1. *AMYGDALUS fatia fructu majori.* C. B. P. The manded Almond with a larger Fruit. a, represents the Flower expanded; b, the Stone divided of its outer Cover; c, an entire Fruit with its Cover.

Præcox and Communis L.

In most of the Domestic Books there is a Distinction made between the Sweet and Bitter Almonds; But these are only accidental Varieties, for it frequently happens that the Two Sorts are found growing upon the same Tree; tho' in general, those Trees whose Fruit have fewer Kernels, are, for the most part, so; but the Sweet, or that which is usually sold for the Jordan Almond, is a different Tree, the Flowers are White, and the Leaves are black slender, and the Leaves long and narrow. This Sort is distinguished by *Copier Bonis* under the Title of *amygdalus dulcis patensis minor.* FIG. 443.

Those Persons who are desirous to have this Sort of Almond in Perfection, must plant the Trees against a South, or South-east Wall, otherwise they will seldom produce Fruit in England: And if it happens that the Standard Trees of this Sort produce Fruit, which in favourable Seasons is sometimes seen, they rarely ripen, or grow to any Size, but against Walls I have had one perfect good Fruit.

These Trees of the common Almond, whose Kernels are sweet, may be propagated in Plenty, by budding them upon Plum Stocks; for the Fruit will always continue the same as those from whence the Buds are taken, but the Trees raised from the Fruit seldom prove the same as those from whence the Fruit is taken. This is found at those from whence the Fruit is taken. This is by Doctor Linnæus called, *amygdalus falia patensis præcox* (regni) *plumbago.* *Hist. Cliff. 135. Sp. Plant. 471.*

and under this general Title he includes all the Species, tho' the Tree with White Flowers differs so much in Leaf, Shoot, and Fruit, as is sufficient to make a distinct Species from the common Sort: And there are Two other very distinct Species now in the Gardens, one of which hath broad Leaves, and Flowers smaller than those of the leafy Peach Flower, the other hath short silvery Leaves, which remain thro' the Winter, and do not fall till they are thrust off by new Leaves in the Spring.

FIG. 2. *AMYGDALUS Indica nana.* H. R. P. The Dwarf Almond with single Flowers. This is by Doctor Atteridge intitled *amygdalus patensis.* H. R. B. and in *Manning's History* it is *amygdalus nana.* Doctor Linnæus titles it *amygdalus falia patensis hibernica.* *Hist. Cliff. 136. Sp. Plant. 473.* and he supposes it to be the same with that Plant which is figured by Doctor Annon, under the Title *amygdalus patensis falia, fructu majori.* *Rath. 173. Tab. 30.* But the Specimens of this which were sent to England by Doctor Annon shew it to be very different from that here figured.

This Sort hath been frequently confounded with the *Præcox Africana nana* first incarnate *amygdalus.* *Taxon.* which may have been occasioned by People's supposing it to be the single Flower of the same Species which is usually propagated in the Nurseries by the Title of *Double-flowering Dwarf Almond.* But whoever compares the Leaves, Shoots, or Flowers, of the Two Sorts, will soon be convinced of their Difference: nor is the single, of the Sort with the Double Flowers, to be found in the English Gardens at present.

The Sort here figured will grow to the Height of Three Feet, and is very submit to and forth Suckers from its Roots, whereby the Ground will be stored with Plants. It Flowers in April, and now ripens its Fruit in England. Both these Sorts are propagated in the Nursery-gardens near London in Plenty; and are sold as flowering Trees and Shrubs, being chiefly planted in Gardens for Ornament, their Flowers making a fine Appearance early in the Spring: The First Sort usually flowers in March; but in early Seasons it frequently is in Beauty by the Middle of February; and in late Years not before the Middle of April. When the Trees flower late in the Season, they commonly produce Plenty of Fruit; but when they come out early, the Blossoms are frequently killed, so that few Fruit succeed them. This Tree will grow to the Height of Sixteen or Twenty Feet, or more, if they be planted on a light Soil; but in strong wet Ground they do not thrive so well, nor are of so long Duration.

They have been long cultivated in England, the First is supposed to be a Native of Mauritania, and the Second of *Alia minor.*

P L A T E XXIX.

ANCHUSA, *Lin. Gen. Plant. 167. Baglioni. Tour. Isl. R. H. 133. Tab. 53.*

ANKANET.

THIS C[>]Tui t[>] (PUNtt it by Do&or Unmm rwu ed in hn Fifth Cla, intied Ponn& Mmrp" the Flowers tumng Five Stamina, aid x fir, Mr. R*? pU in his Thirteenth Cla of Plants, which he titles, *Heris* - eu. r.->^ U^ts* ai

The Distinction which Mr. Ray makes between *Anchusa* and *Baglioni*, is in the First having red Roots; in which he is followed by Doctor *Barbarts*, who has joined some Plants to this Genus, whose Roots are not Red; but the Colour of the Root is hardly sufficient to constitute a specific Difference, much less a genetical one. Doctor *Tournefort* has included all the Species under the Genus *Baglioni*; but Doctor *Linnaeus* has applied this Title of *Anchusa* to the Genus, and has dropped the Title of *Baglioni*, the former Title having been more frequently used by our Writers in Botany.

The Speciet here rejirctnt

ANCHUSA fringosa, foliis lanceolatis dentatis, pediculis bracteis membris, calycibus fructiferis inflatis. L. F. Lin. Sp. Plant. 123. t. Anknet with narrow indented Leaves, small Footstalks to the Branches, and a swelling Cup or Empalement to the Fruit. a, represents a single Flower separated; b, the Tube of the Flower; c, the Five Stamina in the Centre of the Flower.

This Plant is by Doctor *Tournefort* titled, *Baglioni Lappaceum, Echii folis undulatis. Isl. R. H. 133.* As this Plant has not been figured in any of the Botanic Books, we imagined it might be more acceptable to the curious to exhibit its Figure, rather than any of the other Species, most of which have been already figured and described by several Botanic Writers.

The Roots of *Anchusa*, which are directed for Use, are brought to England from the South of France, and are of a fine Red Colour; so that they are often used to make a Red Colour: But whether this is a distinct Species, or may be the Effect of the Soil or Climate in which it naturally grows, I cannot take upon me to determine; but all those Roots which I have examined of English Growth, have not had any Appearance of that beautiful Colour, which is constant in the Roots from abroad; tho' I have frequently seen the Seeds which have been sent from abroad for the true Sort, which *Caspar Bauhin* titles *Anchusa portensis floribus. Pin. 125. 1.* and *Tournefort, Baglioni radice rubra, seu Anchusa vulgaris, formis ceratae. Isl. R. H. 133.*

The Plant here figured is a Native of Spain and Portugal; it grows near Three Feet high, having many branching lateral Branches, which are produced from the main Stem, near the Ground; these are garnished with stiff rough Leaves, six or seven Inches long, and about half an Inch broad at the Top, closely embracing the Branches, having no Footstalks, being Two Inches broad at the Base, and are indented and waved on their Edges; the upper Surface is beset with Hairs, and is very rough to the Touch; these are set alternately on the Branches; and from their Base the Spikes of Flowers come out, which grow a Foot or more in Length: The Flowers, which are of a fine Blue Colour, are placed alternately, having a small Leaf just below each: These Spikes are reflexed at the Top, somewhat like those of the *Piper Baglioni*; the Empalement of the Flower afterward becomes the Cover to the Seeds, and is swell'd at the Bottom, where are lodg'd Four naked Seeds. The Root of this Plant commonly decays after the Seeds are perfected; so that it is generally no more than a biennial Plant; tho' sometimes, when it grows upon Grass, or in the Joints of Stone Walls, it will live Three or Four Years; but those Plants seldom grow more than a Foot high, and have small narrow Leaves; so that it appears like a distinct Species.

P L A T E XXX.

ANDROSACE, Tour. Isl. R. H. T. 4. Rai. Meth. 14. Lin. Gen. Plant. 175. We have no English Name for this Plant; but it may be called Cowslip Chickweed, for the Flowers, which are like those of *Cowslip*, grow on an Umbel, like the *Cowslip*.

THIS Genus of Plants is by Doctor *Tournefort* ranged in the Second Section of the second Class, intied, *Heris with a Flower of One Leaf, shaped like a Sator, whose Pointal afterward becomes the Fruit.* Mr. Ray places it in his Nineteenth Cla of Plants, intied, *Heris with a Flower of One Leaf, which is succeeded by valcular Fruit.* Doctor *Linnaeus* places it in his Fifth Cla of Plants, intied, *Pentandria Monogamia;* the Flowers having Five Stamina, and a single Pointal.

The Species here represented are,

Fig. 1. *ANDROSACE vulgaris latifolia annua. Isl. R. H. 121.* Broad-leaf'd annual Androsace. This is the first Species mentioned in the *Gardener's Dictionary*, where the Characters of the Genus are described. a, represents the Umbel of Flowers; b, a single Flower separated from the *Androsace*; c, the expanded Flower in the *Androsace*; d, the entire Fruit, resting upon the *Androsace*; e, the Vessels open, showing the Seeds.

This Plant is by *Caspar Bauhin* titled, *Androsace ditto major. Pin. 121. 1.* and by *Joh. Bessler, Androsace Malibus altera, Vol. III. 368.* and by Doctor *Linnaeus, Androsace perianthio maximo. Hort. Upsal. 36. Spec. Plant. 141. t.* *Androsace* with a large *Androsace* to the *Androsace*.

Fig. 2. *ANDROSACE foliis lanceolatis dentatis glabris, perianthio equalitate ovula brevioribus. Lin. Flor. Suec. 160.* *Androsace* with smooth Spear-shaped Leaves, an angular *Androsace*, shorter than the Flower.

This Plant is biennial, seldom continuing after the Seeds are perfected; the Leaves grow close to the Ground, which are smooth, and sometimes are slightly indented on the Edges; but for the most part they are linear; from the Centre of the Leaves there are Three or Four naked Stalks arise, which grow about Four Inches high, each supporting a loose Umbel of Flowers, which stand upon long slender Footstalks; they are white, and consist of One Leaf, spread open; and are divided into Five Parts at the Brim: These are succeeded by valcular Seed-vessels, which open in the Middle, having One Cell, which is replet with roundish Seeds.

The first Sort grows especially in *Aphria* and *Herberg*, amongst the Cots; and the second is an Inhabitant of the Mountains in *Russia* and *Siberia*.

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Anchusa officinalis L. Anchusa officinalis L. Anchusa officinalis L.



Fig. 1. ASPIDOLACE *capitata* (Lamour.) Hook. & Arn.
 Fig. 2. ANDROSACE *glabra* (Lamour.) Hook. & Arn.

Aspidolace capitata Lamour. Bot. Beechey. 1847. p. 107. t. 1. f. 1.

Androsace glabra Lamour. Bot. Beechey. 1847. p. 107. t. 1. f. 2.



ANEMONE ...

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AMARANTHUS... *[Faint, illegible text describing the plant's characteristics and origin]*

P L A T E XXXI.

ANEMONE, *Tournef. Inst. R. H. 7. 272. Tab. 147. Bell. Method. Plant. Gyn. Gen. Plant. 614.*

ANEMONE, or EMONT.

THIS Genus of Plants is by *Doctour Tournefort* ranged in the Seventh Section of his Sixth Class, intitled, *Herbs with a Ring-flower, whose Petals turn to a Fruit composed of many seeds collected in a Head*. Mr. *Ray* places this Genus in his Fifth Class of Plants, which he titles, *Herbs with many naked seeds forming each Flower*; And this is in the Seventh Section of that Class, which includes those Plants with naked Flowers. *Doctour Linnæus* places it in his Thirteenth Class, intitled, *Polyandria Polygynia*; i. e. Plants whose Flowers have many Stamens and Germens: To this Genus he adds the *Stemonium of Barbary*, the *Hepatica of Dilleniæ*, and *Pulsatilla of Tournefort*, making them only different Species of the same Genus: But as the *Hepatica* has a Three-leaf'd Empalement in the Flower, and the *Pulsatilla* has a many-leaf'd Empalement, so they should not be joined with the *Anemone*, which has a naked Flower.

The Species here represented is,

Anemone nemorosa multifida, mutata forma facie quatuordecim nota, H. K. Par. Narrow-leaf'd Double Anemone, with Flowers which vary in their Colour annually; called by the *French* *Camionne*, and in *England* the *Butter-be Root*, or *High Admiral*. It represents the outer Petals of the Flower, which are much broader than those which occupy the Middle, as at A, which are narrow, and are what the Florists call the *Throat* of the Flower.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*, under the Title of *Anemone*.

There are a great Variety of these Flowers in the Gardens of the curious, which have been obtained from Seeds: These differ in their Colour, and the Size of the Flowers; and are accordingly distinguished by the Florists: But as these are only accidental Varieties,

arising from the Seeds of the same Flower, they are not esteemed real Differences by Botanic Writers, who only mention the Broad and Narrow-leaf'd Sorts as Two distinct Species.

The Sort here represented was some Years past in great Esteem, the Flowers being very large and double; and these would every Year vary so much in their Colours and Stripes, that if an entire Bed of these Roots were planted, there would such a Variety appear in the Flowers, as those who were not skilled in Flowers might easily be deceived, as supposing them to many different Flowers; some of the Flowers being of a deep red Colour, with scarce any Stripes of other Colours; and other of the Flowers being greatly striped thro' every Petal with white; and the several Gradations from plain to those which are more white than red, will be found in this Flower, where there are any Number of Roots planted.

The Single, or (what the Florists call the *Peggy* sort) are those which produce Seeds; for the double Flowers never have any; therefore, in order to obtain good Flowers, the Seeds should be saved from the belt of those with single Flowers, some of which have a double Range of Petals surrounding the Organs of Generation. From the Seeds of these most double Flowers may be expected, than from such as have only a single Range of Petals; and those whose Flowers are well coloured, should also be preferred. The blue and purple-colour'd Flowers are now most esteemed by the Florists; but a Mixture of the red and striped Flowers will greatly set off the others.

These Flowers grow naturally in the Islands of the *Archipelago*, and in several other Parts of the East, where the Borders of the Fields are hedged with them in the Spring, making a very gay Appearance during their Continuance in Beauty. From thence the Roots have been transplanted into the Gardens in *Europe*; and from their Seeds the great Variety, which is at present to be found in the Gardens of the Curious, has been obtained. These Flowers are in Beauty in *April* and *May*, and the Seeds ripen in *July*.

P L A T E XXXII.

ANGURIA, *Méth. Nov. Gen. 12. Tab. 9. Cucurbita, Hort. Pfl. Tab. 21. Trichocaulis, Lin. Gen. Plant. 96.*

SHAKE-GOURD.

The Characters are,

It has Male and Female Flowers, 1 Plant, as the Gourd, Cucumbers, and Melons, have: The Male Flowers come in Empalement, and are divided into three Parts at the Top: The Petals are divided into many Filaments or Threads, as at Letter b, having Three Stamens in the Center: The Female has a reflexed Empalement of One Leaf, cut into Five Pappi, as at Letter a, in the Center of which is the Germen, which afterwards becomes a long twisted Fruit, represented at c, and is divided in Three Cells, which contain many fine seeds.

NUM. VI.

This Plant is figured by *Méth.* in his *Novæ Genera Plantarum*, Tab. 9, who applied this Title to the Genus, in the Catalogue of the Gardens at *Pisa*: It is also figured under the Title *Cucurbita fœvola, fructu longo angusto, capsulis fere caudis, capsulæ unicæ magnis ovatis*; but *Doctour Linnæus* has changed the Title of this Genus to *Trichocaulis*, and Places it in his Twenty-fifth Class of Plants, intitled, *Mosses*, there being Male and Female Flowers on the same Plant. According to Mr. *Ray's* Method, this Genus must be placed in his Sixteenth Class, which he titles *Herbs Pappiferæ*, i. e. Apple-bearing Plants. It must be placed in the Seventh Section of the First Class of Plants in *Tournefort's* Institution, which is composed of the cucurbitaceous Plants. These have bell-shaped Flowers of One Leaf, whose Empalement turns to a Fruit, for the most part fleshy.

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It is an annual Plant, which must be raised on a Hot-bed early in the Spring, and when the Plants are of a proper Strength to remove, they must be transplanted on a new Hot-bed, and treated in the same manner as early Cucumbers and Melons; with which Management the Plants will ripen their Fruit in August or September, but unless they are brought forward in the

Spring, they will not perfect their Seeds in England. It is a Native of China, from whence the Seeds were brought, which have been cultivated in some curious Gardens in Europe, as a singular Plant: But the Fruit being of no Use, there are few of the Plants raised in England, except in Botanic Gardens, for Variety.

P L A T E XXXIII.

ANGURIA, *Turn. Ind. R. H. 206. Tab. 35. Curculis*
Kob Medel. Plant. 70. Cassini, Lin. Gen. Plant.
977.

THE WATER-MELON.

THIS Genus of Plants is ranged in the Seventh Section of Tournefort's Fifth Class of Plants, who makes the distinguishing Character of it to consist in the Plant's having divided Leaves, and an edible Fruit: In all other Respects it agrees with the other cucurbitaceous Plants. Mr. Ray places the *Anguria* in the Sixteenth Class of Plants, which he calls *Herba Passifloræ*, i. e. Apple-bearing Herbs; but Doctor Linnæus joins this with the *Cucumis*, making them of the same Genus.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented is,

ANGURIA Americana fructu rubicundo ovali, Ind. R. H. 207.
i. e. *Americana Water-Melon*, with a prickly scabrous Fruit. Doctor Plancher has given a Figure of this Fruit, with the Title of *Cucumis sibiricus Americanus, Anguria folio, fructu ovali & magis rubro, ad maturitatem pallido, spinis tuberculis mucronatis inflexis serratis, Phil. 170. t. 3.* Sir Hans Sloane, in his *Catalogue of Jamaica Plants*, calls it, *Cucumis detrusus folio laciniato asperis, fructu ovato cordato, spinis sterilibus mucronatis*, p. 107. Doctor Linnæus takes it, *Cucumis folio palmato-fimbriato, pinnis sub-ovatis ciliatis, Hort. Upsal. 221. Spic. Plant. 1031.* This is the Eighth Sort mentioned in the *Gardener's Dictionary*.

The Fruit of this Sort is eaten when green by the Inhabitants of the *America* Islands, as Cucumbers; where

the Plants grow naturally without Culture; but they are greatly inferior to the Cucumbers which are raised in Europe. The Fruit seldom grows so large as a Pottle's Egg, and is of a Shape like it; but the outer Coat or Rind is chiefly white with black Prickles, somewhat like the Skin of an Hedgehog. When the Fruit is exposed to the Fall Air, it is of a dark-green Colour, but those of them which are closely covered either by the Leaves of the Plants, or Worms growing among them, are as white as the white Cucumbers, which occasioned Sir Hans Sloane's giving it that Epithet.

Most of the other Species of this Genus have large Fruit, which are served up to the Table in Dessert, when ripe, as the Melon; and in hot Countries the Fruit is greatly esteemed for its cooling Quality, the Pulp melting like Ice; and when they are gathered in a Morning, before the Sun has warmed them, and kept in a cold situation, the Pulp is almost as cold as Snow, and hath a Sweetness like Ice-water sugared. And their Fruit may be eat in Plenty with great Safety, by Persons in Fevers, and are found to be very refreshing and wholesome; but in England, where the Weather is seldom so hot as to make their cold Fruits desirable, there are few Persons who esteem them; therefore they are cultivated in few Gardens here, the *Mel-Melon* being greatly preferred to them, as their Flavour is much richer and when they are good, seldom occasion any Disorder to the Persons who eat them at Moderation. The Plant here figured is rarely cultivated in the English Gardens, unless for the sake of Variety. It grows naturally in the warm Parts of *America*, from whence their Seeds were brought by some curious Persons, which have been sown in Botanic Gardens, where the Plants are annually raised, to add to their Collections.

P L A T E XXXIV.

ANIS, *D. Marchus. Annus de P. Acad. Lov. 1718. Emend. Turn. Ind. R. H. 670. Tab. 417. Indigofera Lin. Gen. 1706. 794.*

INDIGO.

THIS Plant is by Doctor Tournefort joined to the *Emera*, or *Isopogon-Senna*; and in this he is followed by other Botanic Writers: Few of them having seen the Plant in Flower, had no Opportunity to examine the Characters. John Raskin ranges it with the *Colebitis*, or *Basilis-Senna*; and Caspar Bauhin joins it to the *Isopogon*, or *Wood*, from its Property of making a blue Dye; nor was this Genus properly distinguished from the others of the same Class of Plants, till Mr. Marchant gave a Memoire to the Royal Academy of Sciences at Paris, in the Year 1718; in which he has given a very eminent Description of every Part of the Plant.

It should be placed in Tournefort's Tenth Class of Plants with a psychotriaceous Flower; but he has separated the Trees and Shrubs from the Plants of this Class, and placed them at the End of his Indications. Doctor Linnæus places it in his Seventeenth Class of Plants, entitled, *Endophris Dumbria*, the Flowers of this Class having Ten Stamens, Nine of which are joined together, and the other standing single at a small Distance from the other. As Mr. Marchant had given the Title of *Anis* to this Genus, which Name the Inhabitants of most of the Countries where it grows naturally had applied to it, Doctor Linnæus has rejected it, because it was barbarous Name; and has given it the Title of *Indigofera*.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.



ANGURIA. Cucumis pictus subnatis celeb. Ind. A. 18

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ANNONA foliis laciniatis, fructibus ovatis - *Syn. pl. plant. 227*

Illustration of the fruit of Annona foetida, showing the longitudinal section.

W. Miller del.

The Species here represented is,

Art. 11. *For Indigo Americanus, foliis in fasciculis*
caulis Nervosus Mem. Acad. Reg. Paris, 1718. Ameri-
canus Indigo, with crooked Pods, shaped like a Sickle.
4, represents the Flower with its Two Wings ex-
panded, 5, the Pod, 6, the Seeds taken out of the
Pod.

This is by Tournefort named, *Emurus Americanus* *foli-*
is in fasciculis, Ind. R. H. 670. John Banks calls it
Onoclea foliis dist. seminibus, Hb. 1. 374. Caspar Bau-
hin, in his Pinax, 1714 in East India, Jussieu's
Generis, p. 1170. and in the *Hortus Malabaricus*,
Vol. I. p. 101. it is described under the Title *Amuri*,
which is the *Achate* Name for this Plant. Sir Hans
Sloane, in his Catalogue of Jamaica Plants, calls it,
Cultus sicut fraxinea, Jussieu's Species papaverosus,
Emurus caeruleus, c. 1709 cultura Indigo caeruleus, p. 144.
Doctor Linnaeus, in the *Flora Zeylanica*, calls it *Indigo-*
fera zeylanica arvensis caerulea ramis foliis brevioribus,
p. 275. This is called in the *West-India Gazetteer* *Indi-*
go, to distinguish it from another Sort which ap-
proaches near to it, and is in the Islands of America
called *Indigo*, but is not esteemed so good for
making Indigo as the other. There is also another Sort
very different from either of these, which is found wild
in South Carolina, and was much cultivated by the In-
digo Planters there, when they began to raise the Indigo
first; but, upon Trial, they found it would not produce
Indigo in so great Quantity as the *Guatemala*: So they
have abandoned that Sort, and now cultivate only that
here figured. This Carolina wild Sort hath a perennial
Root, but an annual Stalk, which decays in Winter;
the Leaves are far much thinner on the Branches, and
are not so succulent as those of the manured Sort, yet
from this wild Sort, as also from Two other Species,
which grow naturally in India, the Inhabitants of that
Country make good Indigo; and formerly there was
one; species of *Amuri* used in America for this Purpose:

And I am persuaded there are several other Plants which
will afford this Dye, tho' perhaps not in so great Quan-
tity as this.

As the Inhabitants of Carolina have taken to die Cul-
ture of Indigo, we may hope in a few Years this
Branch of Trade may return again to the *British* Co-
lonies, which hath been for several Years imirelⁿ
neglected by the *French*; and if proper Care is taken
by the Planters in the Management of this vahiible
Commodity, there can be no doubt of their being able
to carry a great Part of this Trade to themselves, and
may carry it on at a less Expence, than it is now
in the Sugar Colonies. But there are Two Instances in
which they have always failed, since they began the Cul-
ture of Indigo; the first is, in sowing the Seeds too
whereby the Plants are drawn up tall, and have a
Proportion of Stalks than Leaves; and the Stalks, con-
sisting chiefly of Fibres, afford but a small Quantity of
Indigo; the other is, in letting the Plants stand too long
before they are cut for Use, whereby most of the
Leaves are all decayed or fallen off, and the Plants be-
come woolly; so that there is but a small Part of the
Plant dissolved by the Fermentation in the Vat; whereas
if the Plants have sufficient Room to grow, they will
be furnished with Leaves from the Ground upward,
which will be fat and succulent; and if the Herb is cut
as soon as any Flowers appear on the Plant, the Stalks
will then be soft, so that after they have passed the Fer-
mentation in the Vat, there will but a small Part of the
Plant remain undissolved, and a much greater Quantity
of Indigo produced from the same Quantity of the
Plants, which will be of a finer Colour, and bear a
greater Price in the Markets of Europe. As I have
given the whole Process of making Indigo in the *Caro-*
lina's Dissertation, I shall not repeat any Part of that in
this Place; but have taken the Liberty of mentioning
the Two Articles above, believing they may not only
be of Use to the Indigo Planters, but, if rightly at-
tended on, may become a national Benefit.

Indigo
Tint

P L A T E XXXV.

Annus, *Lic. Gen. Plant. 6. 1. Guianensis, Plum. Nov.*
Gen. p. 43. Tab. 10. Annus Real. Met. Plant. 153.
There are many Species of this Genus, which are
Natives in the warm Parts of America, Africa, and
Asia, some of which are esteemed for their Fruits,
which are usually served up in the Tables of the
Principal Inhabitants of the Countries where they
grow; and are by the English in America distinguished
by the following Titles; viz. *Cedar-Apple, Cow-Apple,*
Iron-Apple, Water-Apple, &c.

THIS Genus of Plants is by Doctor Linnaeus ranged
in his Thirtieth Class, in which, *Polyandra Pe-*
lyandra. The Plants ranged in this Class should have
many Stamens and Germens in each Flower, which is
not so in those Species of this Genus which I have ex-
amined; but as the Characters which Doctor Linnaeus
has given to this Genus are taken from Father Plumier's
Figures, he is excusable for the Mistake. In the Centre
of each Flower there appears to be a great Number
of Stamens surrounding the Germen, where there is
a trilled Style, and in some of the Species there are
Three Stamens, which rise above the others, but in the
Species here figured there are wanting.

Father Plumier, who follows Tournefort in his Method
of classing the Plants, places this in the Class of Plants
with a Rose-Sower, whose Pointal becomes soft
fleshy Fruit, including many hard Seeds.

Mr. Ray ranges it with the Apple-bearing Trees, whose
Fruit are not umbilicated, and have a soft Pulp.

The Two Titles which have been applied to this Genus
of Plants, are both barbarous Names of the Coun-
tries where they naturally grow; therefore have been in-
differently used by the Writers on Natural History: But
this of *Amuri* being less harsh than *Guianensis*, Doctor
Linnaeus has chosen to make use of it, rather than the
other.

The Species here represented is,

Art. 12. *Folia lanceolata, basi ovata, Lig. Sp. Plant.*
Annus with Spear-shaped Leaves, and two or
three Fruit succeeding each Flower on the same Foot-
stalk, commonly called, by the Inhabitants of North
America, PAPAW. 4, represents the Flower composed
of Three Petals, which is surrounded by a Three-
leaved Empalement; 5, shows an entire Fruit; 6, is a
Fruit cut through the Middle, shewing the Seeds 7,
lying in a Row in one Side of the Fruit.

The

The Characters of this Genus are exhibited in the *Gardener's Dictionary*, under the Article *Cuumthi*.
 This Species is figured and described by Mr. Caspary, in his History of *Carolina*, and the *Bahama* Islands, under the Title of *Amxa frutis foetida*. He mentions it with other Plants which he found growing on the *Bahama* Islands, but doth not take any Notice of its being found in *Virginia* and *Maryland*. It has been frequently brought to *England*, by the Title of *Pine-Tree*. Mr. Caspary says, that this Tree grows more than Ten or Twelve Feet high in that Country, with forms as large as the Small of a *Maple*; that it is rather a Shrub than a Tree, especially in its first years, which several Stem* from the Root. He also mentions that the Fruit is seldom eaten but by the Negroes. In his Description of the *Lower* he observes, that he mistook the Colour, which he says is of a yellowish Green; whereas all these Trees which have produced Flowers in *England*, are very different, being of a ruddy purple Colour, as they are here represented, and there can be no doubt of their being the same Species with that he has described; the

Fruit and Seeds being very different from all the other Species of this Genus in Shape; so that it is very easily distinguished.

This is the only Species of the Genus, which will live in the open Air in *England*. All the other Species which are yet known being too tender to live in this Country, unless they are preserv'd in Stoves, the largest Plant of this kind, which I have seen, is growing in the curious Garden of his Grace the Duke of *Argyll*, at *Whitby*, near *Hampshire*, which has produced Flowers for some Years past; but our Summers are not warm enough for the Plant to produce Fruit in *England*. There are also found other Trees of this kind in the Gardens near *London*, which have flower'd, but are of a smaller Growth. The Flowers are produced in *England* the Beginning of *May*, soon after the Leaves come out.

It is a Native of the *Bahama* Islands, of *Carolina*, *Maryland*, and *Virginia*, growing usually in low, moist Places, where they are sheltered from violent Winds. In *England* these Plants are apt to suffer by Cold, while young; but after they have obtained Strength, they will resist the Frost, and thrive very well in the open Air, if they are planted in a sheltered Situation.

P L A T E XXXVI.

R. Ff. 405. Tab. 219. Rati M. bed. PUxt. 107. Ownw, Lin, Ct>: Plant. 772.

Rob-Harrow, Canjwri, Put]Whin-, and in some Cow-it ji called *Fttrzt*.

DOCTOR *Tnmferr* places this Genus in his Tenth Class of Plants with a papilionaceous Flower. Mr. *Rtr* places it in his Ist Class of leguminous Plants with a papilionaceous Flower. Dr. *Linnaeus* ranges it in his Seventeenth Class of Plants, intitled, *Dialouphia Decandria*; in which Class are included all the leguminous Plants with a Pap-flower. The Two Tables of *Alnus* and *Quercus* are indifferently used by the Latin Writers on Botany.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented is,

Alnus purpurea var. *fruticosa* *foetida* *fruticosa* *fruticosa* *fruticosa* *fruticosa*. Mr. *Tab. 2. 170*. Early shrubby Purple *Rob-Harrow*, with a large Red Flower. *a*. represents the Fore-part of the Flower to the View; *b*. shows the hinder Part, with the Enlargement of the Pod, which succeeds the Flower. This is the sixth Species mentioned in the *Gardener's Dictionary*. It is called by *Dodart*, in his *Memoirs*, *Alnus purpurea fruticosa* *non spongia*; and in the *Memoirs* of the *Royal Academy of Sciences* at *Paris*, *Alnus montana purpurea fruticosa*. Doctor *Linnaeus* has intitled it, *Quercus ferruginea*, *palustris*, *fulviflora*, *fulva*, *repens*, *fulva*, *terrestris*, *Hort. Cif. 215*.

This is a very beautiful Shrub, which seldom rises above Two or Three Feet high in *England*; but divides into many Branches, which spread near the Ground. At the Extremity of every Branch there are Spikes of large red Flowers produced about the Beginning of *May*; at which Time these Shrubs make a fine Appearance, and are one of the principal Ornaments of the Gardens at *Paris* at that Season: but in *England* it is far from being common; and only to be found in some curious Gardens, which may have been occasioned by over Care, for it is a very hardy Plant in respect to Cold; but is with Difficulty preserv'd in Pots, being One of those Sort of Plants which rarely thrive, unless they are planted in the full Ground: It delights in a shallow Soil, neither too strong, nor over-light; and in an Eastern Exposure, where it may have but half Sun; the Plant will thrive well, and annually produce Flowers, and perfect Seeds. It commonly flowers in *May*, and the Seeds are ripe in *July*. This Plant is easily propagated by Seeds, which should be sown early in *March*, on a Bed of middling Earth, exposed to the East. The Plants will come up in about six Weeks after, but should not be removed till the following Autumn.

The common Sort of *Alnus*, which is mentioned as a medicinal Plant, is a very troublesome Weed, where it hath once gotten Possession of the Ground; the Roots of it are very wide, and are so tough, as scarce to be cut or broken by the Plow, which occasioned the Name of *Rob-Harrow*, and *Rob-ben*. In some of the moorland Counties it is called *French Furze*; but how that Epithet came to be applied to this Plant, is hard to determine.

FIG. 101



ANONIS purpurea var. *fulva* (L.) DC. *fulva* (L.) DC. *fulva* (L.) DC. *fulva* (L.) DC. *fulva* (L.) DC.

Handwritten text at the bottom left corner, possibly a date or reference number.

Handwritten signature or name at the bottom right corner.



ANEMONI

multa simpliciter confusa hinc indeque filis perenni sempiterna

P L A T E

XXXVII.

*ANONIS visifolia spinis carent lulea auger, C. B. P. 3*9.*

*Grass yellow visifolia Kifi-flarm, twit**/ Spi*a,*

THIS is the Native Plant he *bmittm M>* M-
vref. and Anonis mitti fore lulea, O*f. P«».*
Owe; mitti fieri . *O*f. P«».*
and *Amdi l*te*
*f. 8. *. 193. I>ofort*
terminatis suis terminis, Hort. Cliff. 358. and he has
joined to this the *Anonis visifolia spinis carent lulea mlmr,*
C. B. P. supposing them to be the same Plant, Int
they are very different from each other. The Flowers
of the Plant here figured being pendulous, whereas
those of the other stand erect; the Root also of this
Plant is perennial, but the Stalks are annual, dying to
the Ground every Winter. But the other Plant is
biennial, the Root seldom continuing longer than Two
Years, and often perishes, soon after the Seeds are per-
fected, in the first Winter. The Stalks of this grow
much taller, the Flowers are much larger, and stand

upon longtr Foot-ftilki thin the other, and the Ap-
pctranct of the Plant, when in Flower, j] much mure

gwden i wiircis iht olher is Only pre&rved in Rtnanit
Gk n,, (ot Vnity. i> (hews one of the i*nduk>ui
Flower* on its Buck-side, b, rcprefaus the Fore-side
of the Flower, shewing iu large Standard, with the
Two Wings and the Keel.

This is the Twentieth Sort: eihibited in the *Gardener's
Dictionary*, the Flowers are of a beautiful fellow Co-
lour, growing pretty close together, on long Panicles:
The time of its flowering is in *June and July*, and the
Seeds ripen the Beginning of *September*. The Koots of
this Sort do not bear transplanting w il after the Tirst
Year; for vhrn i) begin to be !urd and woody, they
seldom put out new l.bres, it they arc removcii
they should be transplant; the firil Autumn to th«
Places where they are to remain. If the Soil is dry,
the Roots wti! continue federal Yean; but in wet
Ground they are apt to rot in Winter. Thei wet it
a Native in the South oi l-raiuc, Spain, and fvtugal,
growing in their Arable Land.

P L A T E

XXXVIII.

*ANTHEMIS, Lin. Gen. Plant. Syn. Chamemelon, Span.
p. 47. 135. Pyrisium CB.P. 1+8. R*>II>Jt 153*

THIS Genus of Plants is, by Doctor *Linnaeus*,
ranged in his Nineteenth Class, intitled, *Hyge-
nica Polygonis simplex*. *Cajfar Baslin* makes this a
distinct Genus; so doth Mr. *Ray*, in his History of
Plants, where he copies from *Cajfar Baslin*. *Treasu-
rer* hath not mentioned this Plant in his Institution;
though it is hardly possible it should escape his Know-
ledge, as he traveled through great Part of *Spain* and
Portugal, in search of Plants; in both which Countries
it is very common in Vineyards, and other cultivated
Lands. This Plant, according to *Treasurer's* Me-
thod, should be placed in the Genus *Bupthalamum*.

The Species here delineated is,

*ANTHEMIS caulis simplicibus cauffis decumbentibus, fe-
lis pinnatis multifidis, Hort. Cliff. 414.* Pellitory of
Spain. *Cajfar Baslin* calls it, *Pyrisium fore hollis*,
Fra. 148. and *Lobel* calls it, *Pyrisium officinarum*.
Gyler calls it, *Pyrisium Germanicum*, to distinguish
it from Two other Plants, which then had the Ap-
pellation of *Pyrisium*, which were both umbelife-
rous Plants; but, being of an acrid Taste, were sup-
posed to have the same Quality of discharging cold
Rheums, so were classed according to their supposed
Virtues, which was the most common Method among
the old Botanic Writers.

According to Mr. *Ray's* Method, this Plant should
be placed in his Genus of *Chamemelon*: And Doctor
Ray, who found this Plant growing wild in *Spain*, has
given it the following Title, *Chamemelon spinis fore*,
radice longa feruida, p. 135. 6 6. Chamemelon with a spe-
cialis longa feruida, and a long warm Root. Doctor *Linnaeus*
has adopted the Title of *chamemelon*, which is an old Name
Numb. VII.

that)ath been applied to *Camomilr*, and hath dropped
that of *Chamemelon* and he m add-1 most of the Spe-
cies of 'l. *Bupthkslm* to this Genus. In the Synonymy
which he hat <h< he audi the *Bupl-
thalamum Crisium Corale folio Bryon. Cam.* which a i
very different Plant from that here figured. For vhi
hath a perennial Root, which runs deep into the Ground,
shaped like a Carrot, but *Bryon's* Plant is an annual;
the Stalks are branching, and stand erect, the Flowers
growing at the Extremity; whereas those of the
ory trail upon the Ground, and are single, each l
One Flower. The Plant figured by *Bryon* is the
Bupthalamum Corale folio, C. B. P. which is a medicinal
Plant, standing in most of the Dispensaries under that
Title: And this Plant is under the Title of *Pyrisium*
in fhr Dispensaries; the Roots being imported from
abroad, which is the only Part of the Plant in use. The
Characters are exhibited in the *Gardener's Dictionary*,
under the Title *Bupthalamum*. *, represents the Front
of the female Flower, which is stretched out on one Side
like a Tongue. A, shews the hinder Part of the same,
which is of a purple Colour: These compose the Rays
or Border of the Flower. c, shews one of the herma-
phrodite Flowers, which compose the Disk. d, the
double Style. e, the Five Stamina, which are in each
of the hermaphrodite Flowers. The Roots of this
Plant run down a Foot or more into the Ground, are in
Shape like those of Carrots, about as big as a Man's Fin-
ger, of the Colour of Horse-radish before the Roots
are washed, and are white within, of an acrid biting
Taste. From the Root arise Stalks about a Foot or
more in Height, which are garnished with fine cut
Leaves, somewhat like those of *Stinking Mayweed*, but
narrower. At the Top of each Branch is produced one
large radiated Flower, like those of *Camemil*, but
much larger, being white within, and of a purple Co-
lour on the Outside. When the Flowers begin to decay,
and the Seeds are formed, the Weight of the Heads
generally

generally decline* the Stalks to the Ground j and if the
jifon at that time proves most, the Seeds of this Plant
do rstrety ripen in England i tor die 1: mbryo's of the
Seed are each included in a fealy Cover, in so which if
the Wet gets, the Embryo's perih •, (a that there are few
Years when the Seeds of this come to Maturity in
Belaud, which occaffions its being very rare in the
Gardens here. The first time I mtded ifU Plant wis
from Seeds which were picked out of Raijim. Tins
was in 173: j and the Year after, the Plants produced
Seeds, which ripened well •, h that I had a Supply of
them to diftribure; and the Plants which were raifed
from these Seeds continued feveral Yean, but they did
not perfeft their Seeds; fo that, in the Winter 175 j,
the old Roots being destroyed, the Plant is *i prefont
loit in England.

This Plant will thrive very well in the open Air in
Enfla*.I, and will R-ftit the Cotii 01 our cjdinarj- Wint-
ters, provided the Seed* arc fowo upon a dry Soi) \ for

trwetGroii and the Roo-i will jwri; with the fl ^ £' old
in Autumn. The Seeds of this Plant fhould be sown
where the 1'ants are to remain; for u t they have long
Tap-•on, like t the Carrer, fo they do not bear trans-
planting well. It lovej a lo fandy Soil, where there
u fuffi-ent Depth for the Roots to run down; for in a
shallow Ground (be 1'bnti icidorr. < continue longer than
One Year.

It flowers in June, and the Seeds ripen in Augu; but
if the Season proves moist, at the Time of its flower-
ing, or when tin Seeds are forming, they feldom come
to Maturity. The Flower-ftems run about One Foot
high, each having One Flower on the Top, fhaped like
thofe of Camomile, but much larger, being of a pure
whits- withinde, and of a purple Colour on the out-
den, duri: that they make a pretty Appearance in the Gar-
mij be eat the time of their flowering. The Roots
when they J are not vegetating.

P L A T E XXXIX.

IS-THIRCCUM, Lin. Gm. Plant. 380. Bulhint &x. tiit.
friar. 169. Fler. ljd. prsi. 33. PbaUngttm Tarsx.
Infi. R. H. 3/6\$. Tat. 103. Ra,i Melied. u8.

SPIDER-WORT.

THIS Genus of Plants is, by Dt^or Ur,-
placed in hi* Sixth Claf* of Plimi, infi-
Hexand; a Momfxiai the Flower* having eijh Six
Stamina, and One Style. He diftinguifhes dve Specie*
<f this Genui from rhoe of JfpUdtLtu, by the Pet*li
of the Flowcii being fpreid open, and the Filanvns
being hairy. Ttvnufsr t mikes the Difference between
Phakngium and Afpbodtiks to confift in the !
of the former having Six Petals, and thofr of (he i
are only cut into Six Pans ar [he Top, but ire juuiJa
at the Bottom; fo that it is x Flower of One 1
And he dillinguifhe* the phalan^iitm from Ormhtgdmm
by the Root, the Utter having bulbous Root*,
and thioe of the former have fibrous ROOT. Which is alfo
Mr. Hay'i diftjnguifhing Clurjiter ut rius Genui.

The Species here rtprefented aft,

Fig. 1. ANTHIAICTIM acaid, fetus carneji: 1
ifi k\$miu loxu ^fri
Sulkt, taper rklhy IJCJVrs, and very long looke
Spikr- of Flowers • ". repr.; mta a fngle Flower,
raker) from the Spike. * a Seed-vrefit. c, one of
the SettU. This approaches near to the
fims jmtjii fybuUtis fimiHrtiibt i ftritts, Hm. Up-
jti. 8j. but tite Lt*ves of tins 4rc much longer,
round
; flowers is tiiorr than twite ihe Length of thr
aitd each Flower hit a mi, in longer Foot-ftalk, fo
that whoever fre*) the i
tjvif bong
are known
Vran
ver*)
from Seeds the Two laft Years, which have out in the
leaf varied from the old Plant. And the other fere
I have fown the Seeds of feveral Years, with-
out having any Variation in the Plants. I received
the Seeds of this Plant from the Cape of Good Hope,
in the Year 1731, and the Plants which came up
flowered, and produced Seeds the next Spring, and
have every Ye*r produced Plenty of Seeds lauz. The

Plants confintly flower twice a Year, in April and
May, and again in Augu and September. The Sparks
of Flowers, which appear in the Spring, are always
fucceeded with Seeds, which will ripen well, but
thofr which appear in the Autumn do rarely per-
fect their Seeds; for the Winter generally is too cold
in England to ripen their Seeds. This Plant is full
as hardy as the Fourth and Fifth Sorts of Phacn-
gium, in the Gardens' Difpofary, fo only requires to
be prevented from the Froft; but fhould have as
much free Air as poffible in mild Weather, otherwife
they v will draw up weak, and will not flower well.
The Spikes of Flowers are near Two Feet high:
These are produced from the Roots, between the
fucculent Leaves of the Plant; and, being of a fine
yellow Colour, they make a good Apt
the Time of their r Itowering.

B 1 ANTHIAICTIM acaid, fetus carneji: 1
Ijr*V) Spider-wort, with narrow plain
dedimng 1 lower firm. A, the Emplacement of the
Flo* r. c, the Flower expanded. d, a Flower taken
out < of the Emplacement. e, the Stamina. This
Plant approaches near to Ornithogalum cornu
leone fims argutis brjatis, Flor. Fig. 27. but it dif-
fers from that, in having feveral Flowers included in
the fame Cover, whereas that has but Two. The
Stalks of that are always erect, but thofe confiftly
incline to the Ground. And the Flowers of that ap-
pear only in the Spring, whereas this Sort flowers
almoft every Month.

The Roots of this Plant came from Jamaica; they
were accidentally taken up with fome Plants of Af-
pice, which were fent me from thence, which were
dead when they arrived; but the Roots of this Plant
had put out their Leaves; fo I planted them, and
placed them in the Bark-bed in the Stove, where they
fbon flow; red, and perfected their Seeds, and have
fince continued to produce Flowers moft Part of the
Year.

This Plant will thrive well in England, unless the
Pots are plunged into an Hot-bed of Tanners-bark,
and the Air kept up to the Heat affigned for the
H4>. In this Situation the Plants will thrive, and pro-
duce Plenty <t Ktuwcn, tui perfect their Seeds, which,



generally declines the Sralki to the Ground-, and if the Scafon at that time proves moilV, the Seeds of this Plant do rarely riprn in England* tor the Embryo's of the Seed are each included in a fealy Cove; into which if the Wet gets* the Embryo's peril]; fo that there are few Years when the Seeds of this tome to Maturity in England, which occafions its being very rare in the Gardens here. The hrll time I wifed thi» Plant was from Seeds which were picked out of Raifim. This was in i;?v. and the Year after, the Plants produced Seeds, which ripened well (fo that I had a Sufly of them to contribute-, and the Plants which were railed from thiefe Seeds continued feveral Yean, but i they did not perlcft their Seeds; fo that, in the Wiim: 1753, the old Roots being deftroyceti, the Plant it a; prent loll in England.

This Plant will thrive very well in the open Air in E«gUnJ, and will refill the Cold of our ordina: Winters, provided the Seeds are fown upon a dry Soil; for

in wet I i: found the Roots will perife, with the firft Cold of Autumn. The Seeds of this Plant fhould be fown where the Plants are to remain; for as they have long Tap-roots, like the Carrot, fo they do not bear tranfplanting well. It loves a loofe fandy Soil, where there is fufficient Depth for the Roots to run down; for in a fhallow Ground the Plants feldom continue longer than One Year.

It flowers in June, and the Seeds ripen in Auguf; but if thr Season proves moil, at the Time of its flowering, or when the Seeds are forming, they feldom come to Maturity. The Flower-ftems rife about One Foot high, each having One Flower on the Top, flayed like thofe of Camomile, but much larger, being of a pure whi- withinfide, and of a purple Colour on the out- fide, fo that they make a pretty Appearance in the Garden, during the time of their flowering. The Roots may be tal en up for Ufe toward the Lad *t" Oclober, when they are not vegetating.

P L A T E XXXIX.

As T H U M Lin. Gen. Plant. 380. Bulimi Lin. idit. friir. 369. Her. Ijyi. prtJ, 33, PUantittM Years. I*jt. R. ft 36S. fab. 19] S M MKA 118.

SPIDER-WORT.

This Genus of PUMI ii, by Doflor *Linnæus*, placed in hii Sixth Cuft of Plant-, intitled, *Itiria M*in>zyna*; the Flower having each Sti Stamina, and One Style. He diftingitithe* the Species of this Genus from thoft of *ftppbedttus*, by the Penh of the Flowers being fspread open, and the FiUmenri being h*iry. *Tunftnrt* makes the Difference between *pimLtxgiun* and *Aphtdlui* to confift in the Flowers of the fbnimt haviny Six Pctak, and iliolt of the tre only cut into Six Parts at the T<|, but at - ; o 3 T ac the Bottom; fo that it h * Flower of I One Leaf. And he dirtuguiikes the *Phltgxgnim* from *Ombrygion* by the Root, the latter having Uilbuuj B M t, ami thofe of the former have filious Roots. Which is alfo Mr. *R* / diftinguiftiing Chariiter of this Genu*.

The Specie* here represented irt,

1. ANT<t>icuM ittiilt, fsiis carufii tertliim fpi- "as foruntfo*imUaxit. Africa* Soci Stalks, taper fiehy Ijeuwa, and wry Itr. Spikes of i lowers, d, rept • cuts a fingle Flower, taken from the Spike, i, a Seed-vcflel. c, <One of the Seeds. This approaches near to the *Ache*. *folia* *lati fimbriatis bridiis*, Hort. Upfal. %\$* but the Lea. of this are much nger, r, and ol * gb rous Culm. The Spike of Flowen is more lhan w or the Length of the ocher, and each Flower has a much longer Foot-ftalk, fo thatwh ever lins the Two Plants, cannot doubt of their being different Species; efpccially when they ire known to keep their Differences when raifed from Seedn for 1*01 Years the Plant here figured has done, for I have i itted feveral of the Plants from Seeds the c Two taft Years, which have not in the leaft varied from theieidr-Hnt. Ami the other Sort I have fown the Seeds of icvtil Yean, without having any Variation in the Plants. I received the Seeds of this t Plant from the Cape of Good Hope, in the Year 1751; and the Plants which came up flowered, and produced Seeds the next Spring, and have every Year produced Plenty of Seeds fince. riw duc Y

Plants constantly flower twice a Year, in April and May, and again in Auguf and September. The Spikes of Flowers, which appear in the Spring, are always fucceeded with Seeds, which will ripen well; but thofe which appear in the Autumn do rarely perfect their Seeds, for the Winter generally is too cold in England to ripen their Seeds. This Plant is full as hat. as the Fourth and Fifth Sorts of *Phalangium*, in the *(trine)* Dictionary, fo only require to be protected from the Froft; but fhould have as much free Air as poffible in mild Weather, otherwife they will draw up weak, and will not flower well. The Spikes of Flowers are near Two Feet high: Thefe are produced from the Roots, between the foculent Leaves of the Plant; and, being of a fine yellow Colour, they make a good Appearance during the Time of their flowering.

I-g, a. A*Tnr, *hmmhims fit** *MIMMu*. *low* Spider-wort, with narrow plain Leaves, a declining Stalk. a, represents the lower-ftem. b, the Envelope of the Fl... ver. c, the Flower expanded. d, a Flower taken out of the Envelope. e, the Stamina. This Plant approaches near to *Ornithogolum vernum latum folio argente bridiis*, Flor. Frz. 27. but it differs from that, in having feveral Flowers included in the fame Cover, whereas that has but Two. The Stalks of that are always erect, but thofe of this incline to the Ground. And the Flowers of that appear only in the Spring, whereas this Sort flowers almost every Month.

The Roots of this Plant came from Jamaica; they were accidentally taken up with fome Plants of All- spice, which were fent me from thence, which went dead when they arrived; but the Roots of this Plant had put out their Leaves; fo I planted them, and placed them in the Bark-bed in the Stove, where they foon flowered, and perfected their Seeds, and have fince continued to produce Flowers moft Part of the Year.

This Plant will not thrive well in England, unlefs the Pots are plunged into an Hot-bed of Tanners-bark, and the Air kept up to the Heat affigned for the *Abrus*. In this Situation the Plants will thrive, and produce Plenty of Flowers, and perfect their Seeds; which,





ANTHOLYZA folis linearibus subulatis floribus albis uno vase dispositis

Ant. ...

...



Fig. 1.

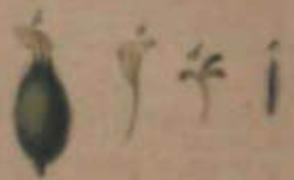


Fig. 3.

Fig. 1. ANTHILLIA herbacea foliis quatuor-pinnatis floribus lateralibus. ...
Fig. 2. ANTHILLIA fruticosa foliis pinnatis equalibus floribus capitulo ...

Botanicorum ...

if flitTered to fcttwr upon the Pots, wit' produce Prnty
oi young Plin», without any Care i or it they arc
ftgi^ i^l^ -it-Aoru! pJWKed tñju jJlot-bcd >: Turners
W%-*Ifcti^IW^ -the^ lif^; ^cTlfttnflHs will come up
in about Six Weeks after; and when they are :t to
transplant, they Ihould IK treated in the lime manner
as the
*(l Piano,
The Leaves of this Pl WE are about Six Inches long,
shaped like those of (rrafj, and are a Hide hairy. The

Flower-ftalks are feldom more than Four Inches long,
and incline toward Uic C> round. There arc Three or
Four of thide produced at the Extremity oi the Foot-
[talk, which are of a ye ll uw Colour within, burgreenifh
on the uuliuUc, and arc ot than. Duration, tilliom con-
tinuing open more thin Otie Day-, but fresh Flower*
fuccer r3 them; fo that they urc not long diftitude of
Flower*, dpccUJjr in Summer.

P L A T E XL.

ANTHUS A, tju. Ctn. \$6.

The Character I of thi* Genus arr,

Tit Fbofr is tf OM IMJ, irvsiei into Six Pans, ibt
Ther upper ttstg terf<T than the knurr: Eatb Flwtr
indsfij in a Spatha, or Skt.it b. b, whicb is tmptfid
Tir> l nitr of the Flewtr it flaud the
Germcn, crowned with a trifid Sryma; and ailrntjd h
*te!ot%ofitn. btsb fitpp\$rt fmail
Jemitt. Each Flower is fuccceded by a raoA/h W-
vifit, dividid into Three C% ttfa* art JtUtd with fmet
triangular Seed.

THIS is placed by Doctor Linnæus in the Third Di-
vision of his Third Class of Plants, intituled, Tri-
dentata, each Flower having Three Stamens, and
Three Sryma. There is One Species of this Genus
figurd in the Hortus ^-c^... witi, the following
Title, *Gladiolus tripartitus plantæ asperifolia*, Vol. I.
Tab. 41. The Flowers of that Plant are more ir-
regular than those of the Plant here figured; but as
this agrees with the general Characters which Doctor
Linnæus has applied to this Genus, I have placed it
under that. The Flower being monopetalous, separates
it from *Gladiolus*, and being irregular in its Form, from
his *Gladiolus ruygensis*.

The Species here represented is,

ANTHUS A, tju. Ctn. \$6.
itrihui I'HIJU, JhrdHi » » »
try's d'f'f'it. As we have no English Name for this
Genus, and the Flower approaching near the Cor-
lag, I shall call it *Jaragy Corlag*, with narrow
farrow'd Leaves, and white Flowers, flwding in one
View on the Stalk.

This Plant hath a bulbous Root, in Shape <>d SIM
like those of the Vernal Crocus, but the Coverl of the
Root is white, and very thin. From the Root arise
Five or Six long narrow Leaves, which lit dtrjily lur-
rowed: Between these arise the Flo *cr ft cm, which it

about a F(iot and hilf hii;h, bending on one Side, and
toward the Top are produced Five or Six Flowers,
ranged on one Si: r the Stalk, each having i Two-
Iravd Sjjjtha, or Sheath. These sit smaller than those
of the *Camsleg*, and have i^l ube about half an Inch
long; Ib that the !flower is of One Leaf, in whJcJi it
dir'trs from iht I *Corlag*. It is of i pure white
when it first o[Kns but jitrward changes to a darker
Colour. In the I nter of the Flower is placed the
Germcn, crowned with Three Sryma, of * dark * o-
lour, ittrnied by Three fiv Stamnt, The < ger-
men after wjrd become! (rot ... 1-vclilil, opening
in Thr« Oils, which ire fillc-d ... ar Seed),
it flowers ;i Me), and the Serdi i ... aft.

This Plant vai r*(ed from *Set*.
The *Cast of Geti lhpt*, in the Year 1751, and hath
loweted the Two ljl Tfean in the *Chbtfte-Gsrdfn*, where
it hilh pfrfcted S«di. It require* to be (held'r'd
from the Frost in Winter, therefore if they are placed
under an Hot-bed Frame in Autumn, and in mile; Wea-
ther the Glasses kept off, that th« Plints may have as
much free Air « prillihl, they will thrive much bet-
ter than in «Ort ... Wtither the
Glasses must be covered with Mats, to picvem thr Cold
from pentntin, which would destruy the Ruots, for
they begin to put out (heir Leavet in *OOthfr*, which
continue growing all the W'inter; find in V.....^*j,
Leiv« decay, i» that the Rooti may be r-
Angttf, after thr Seeds are ripe. They may be kept
out of the Ground till the 1: anning o *Offittr*, * hen
they !li.l<i be planted in *Von*, rilled » th light fardy
Earth, and may be exposed to the • wen Air, until there
is Danger of Frost, when they should be removed into
Shel«•1. As th'« Ruots are small, so they must not
not be planted in Li: ge Pots; for in such rchy will
not thrive. Th< largest Ruots should have a Penny-
pot, and the smaller a Three-farthing, and the leall a
Halfpenny-pot; so that a Fnune of Three Lighu wilt
contain many of ilie Pou.

P L A T E XLI.

ANTHUS A, tju. Ctn. \$6.
Pulvcrata, Tern. Pl. R. H. 391. Tab. 311.

Wandcart, Edoy Fish, or BuirT fr*.

THIS Genus of Plants is, by Doctor Linnæus,
ranged in his Seventeenth Class, intituled, De-
cussata Decussata, the Flower having Ten Stamens,
Nine of which are joined together, and the other stands

separat, fo it to form Two Bodie*. To thti Genul
he has joined the *Raria Jenu*, *Eranca*, and one Species
of *Cytis*: Doctor Tournefort places it in his Fourth
Class of Plants, with a papilionaceous Flower of several
Leaves, whose Point changes to a short Pod of One
Cell. Mr. Ray places it in his Twenty-first Class of
Plants, with papilionaceous or leguminous Flowers, with
irregular pennated Leaves. The Title *Pulvcrata* was
applied

applied to one Species of this Genus, by J. E. BaiK, and the other old Writers on Botany, for its supposed Virtues of the Plant in healing Wounds, but the old Author is more general: he olddt Auteurs i fo Do&or Utm*ns hath adopted this Name Kid rejected the other.

The Species here reprofemed arc,

Fig. i. AXTHVLLIS btrbatta fisUi; fustr... J's lateraJtbui, Ihrt. pf. Bladder-Pea, or Kidney-Vetch of Spain. Twntfir'r calk it, Vxbtraria pauapbyiks, fyj. R. l., and Cijfwr Banbin cities tt,^jj:nu fistapi,, Pin. J2I. and "John Raubtn, Trifschum £... ifficariim, 11\$. %6t. a, rtpr; opened on ch^ Plant. * is a [ingle Flowr ii in the fwclliug Empalement. r, ii the upj or Standard of the Mower. J> the trifid Style. t,<x* of the Scamina ftpirar<i from the Body, This is the Fourth Sort of Vthurmi* in the Carder,, Di- iary.

This Plant grows naturally in the South of France, Spain, PerttgaJ, Il&'y, and other waitr. Countries, whrrc it is a Weed in their Arabic ! and. The Root is annual, but if the Seeds are perm itted to Scatter on the Ground, the Plants will come up with v... »nd as their Brjnchi spread wide, trailing on the Ground, ttry barjm;: troubiei are permitted to grow large. The Flowers a ti'jced in Bunches, at the J... Leaves; but as they hive little Beauti feldom perrmitted to have a Place, except in Botanic Gardens, for the fake of V... : tbw«» in July,

and the Seed, ripen in September, which if permittid to Scatter, the Plants will come up the following Spring, without any Carr.

Anthyllis Barba Jovis
Fig. 2. ANTHYLLIS barba Jovis, foliis pinnatis simplicibus, floribus capsatis, Herb. Gall. 371. Shrubby Kidney-Vetch, with small pinnated Leaves, and Flowers growing in Heads, commonly called Barba Jovis, or Silver Bush. This is the Barba Jovis pulchra Jacq. J. B. l. 31 c. and Barba Jovis, C. B. P. 397. Jupiter's Head, or Silver Bush, is called from the Whiteness of the Leaves. This is the first Sort of Barba Jovis in the Garden's Dictionary. This grows naturally in the South of France, in Spain, Portugal, and Italy, where it rises to the Height of Eight or Ten Feet, with many woody Branches, which are garnished with fleshy winged Leaves, which abide through the Year. The Flowers are produced in the Spring, at the Extremity of the Branches, growing in Clusters or Heads, and are white. These are succeeded by short Pods, in each of which there are generally Two Seeds. They ripen in July, in the natural Places of its Growth, but in England the Seeds rarely come to Maturity. It is preserved in many curious Gardens, for Variety, and is removed into the Green-house in Winter, being too tender to live abroad through the Winter in England; but it should have as much free Air, as possible in mild Weather, otherwise the Branches will draw, and become weak, so will not produce Flowers; nor do the Plants make a good Appearance when they are weak. In England these Plants flower about the End of May, or the Beginning of June.

P L A T E X L I I .

ANTIBARIUM, Tiw*. hfl. R.I. 167. Tab. ... gif

SHAP*D«AOO«₁ er V ALVES-SHOUT.

J H I S it rural in the Fourth Section of ... wnt-
fin'i Third Claft of PUna, imituted, I fobs a* <numah*, fijiukus, and fr/Inuid l'k-vn Leaf. Mr. Rjy plates it in the Set Nineteenth daft, intituled, faliuli/trc* m irreiukr vrI,Jf.Vkvaer. Doftor Umuni pIi, hit Fourteenth Claft of Plants, IMZMRMM* jhgifpntma. And to ttm Genut U or TtaJ-Jtax, the ^farina of TmntJ Dtkmui. But in this, I think, he ... by many Botaniltt, the Genus, it rather occailons (Learner \ and the Imam and H«el or Spur hncr; efcaped tI (hould not be rrjoftrd. Bcll DirTerence in the Ntiarnm i their Seedveflelt, v KH> Two Uenera. TV Specie* here reprrfcv

differ in ... V... \ are almost white, others yellow, and red, and in some the Flowers have a red or purple Flower, with yellow or white Edges. But all these Varieties will arise from the Seeds of any of them; so that they must be accounted distinct Species. But Doctor Lessner has allowed but Three Species of this Genus, including the wild Sort; whereas there are Four distinct Species of the Garden-kind, which always preserve their Differences from Seed.
1, represents the Flower growing on the Spike. 2, is a Flower split open, shewing the Four Stamens. 3, are the Four Stamens taken out of the Flower. 4, are longer than the other Two. 5, is the Seed-vessel. The Three first Sorts in the Garden's Dictionary are Varieties of this Species. When their Plants are set in good Ground, they grow very large and rank; but in poor Ground, or upon old Walls or Buildings, they do not come to half that Size; so that they may be supposed different Plants; but when the Seeds of those on the Walls fall down upon the Borders in the Garden, the Plants will then put on a different Appearance. When these Plants grow upon Walls, or in Rubbish, their Branches will not be so succulent as those which grow in good Ground, so they will resist the Frost much better, and will abide much longer, for when they grow very rank, they seldom live longer than One Year; whereas the other upon Walls will abide many Years.



ANTIRRHINUM *virgatum* folio bipinnato racemo c. 12. an

Antirrhinum virgatum L. f. *Antirrhinum* L. f. *Antirrhinum* L. f.

Antirrhinum



APHACA *Lob. Icon 30*

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Handwritten text at the bottom right of the page, likely a collector's or artist's mark.



Fig. 1.
APOCYNUM frondosum foliis oblongis
 alternatis floribus axillaribus parvis et latis. Vahl.

Fig. 2.
APOCYNUM frondosum foliis ovatis
 foliis brevibus angustis et glabris. Vahl.

W. Miller del.

Published according to the MS. by P. Miller sculp. 1792.

J. Nees fecit.

P L A T E XLIII.

APRACA, TOURN. *Tab. R. II. 309. Tab. 283. Raii-Meth. 103. L'Esprit, Lin. Gen. 751.*

THIS Plant is ranged in the Second Section of Tournefort's Twelfth Class, intitled, Herbs with a Pea-flower, whose Pointal turns into a long woody-like Pod. Mr. Ray places it in his Twenty-first Class of Plants, with a leguminose Flower, having single Leaves, and smooth Pods. Doctor Linnæus ranges it in his Seventeenth Class of Plants, intitled, *Diadelphis axillaris*, joining this to the *Lathyrus* and *Cytisium* of Tournefort; but as it is very difficult to distinguish the Plants of this Class, without taking the Order of their Leaves and Tendrils to our Assistance, as Tournefort and Ray have done. As if we do, we must separate this Genus from the *Lathyrus* and *Cytisium*, as this hath single Leaves, and the Tendrils proceeding from the Joints of the Stalk between the Leaves which grow opposite.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

There is not one Species of this Genus at present known, which is here represented, viz.

AI'HAI A, *Lab. Lin. 70. Yellow Vetchling.*

a, represents a single Flower, which is of the Pea-bloom kind. b, the Empalement of the Flower, which is divided into Five Parts. c, the Pointal, which afterward becomes the Pod. d, tin Pod intire. e, the Pod just opened, (hewing how the Seeds are ranged.

This Plant is, by Caspar Bauhin, intitled, *Vicia lutea, folia carnosa ovata*, Pin. 145. and by John Bauhin, *Vicia pae Titine angulata lutea filipes fere lata*, J.B. 2. p. 210. There is another Variety of this Plant mentioned by Yarrington, in his Institutions of Botany, with a white Flower striped with Black; but this is only a seminal Variation, which doth not continue, but changes to yellow when sown.

The *Apraca* is found growing wild in several parts of England, chiefly in the Fields which are sown with Wheat and Rye, or such other things as are sown in Autumn; for if the Seeds of this Plant are sown in the Spring, they seldom grow the first Year; which is the Reason of its being rarely found in such Fields as are ploughed and sown in the Spring. This is a trailing Plant, which grows to the height of a foot, falling down by the Tendrils, to whatever Plants grow near it; and where there happens to be no Support near, the Branches trail upon the Ground. The Flowers are produced in June and July, and the Seeds ripen in August; which if permitted to scatter, the Plants will come up better than when they are sown with Care.

There is little Beauty in the Flowers of this Plant to recommend it; but as the Leaves are a natural Loofenets in the trailing Branches, which renders it proper for Ornaments in Needle-work, or for printing on Linens, so we judged it might prove acceptable to such Persons who are employed in either of these Branches.

P L A T E XLIV.

APOCYNUM, *Raii Meth. Plant. 58. C. B. P. 302. Tournefort, Tab. R. II. 91. Tab. 20. Lin. Gen. Plant. 269.*

DONJ-EANE, in French Apocin.

THIS Genus of Plants is, by Mr. Ray placed in his Eighteenth Class, intitled, Herbs with many woody vessels succeeding each Flower. Doctor Tournefort ranges it in his First Class of Plants, with a monoperalous Bell-shaped Flower, whose Pointal changes into a Fruit composed of several Sheaths, or Husks. Doctor Linnæus places it in the Second Division of his Fifth Class of Plants, intitled, *Pentandria Digynia*.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented are,

Fig. 1. A) *APOCYNUM ..MDCM folia oblonga acuminatis floribus* of *riha amptii funks* with oblong pointed Leaves, and large yellow spreading Flowers.

Fig. 2. *APOCYNUM fandelii amptii fere villosa luteo filipes ramulis angulatis glabris*, *Hook. Manf.* Climbing Apocynum, with a large yellow hairy Flower, and a smooth angular swelling Fruit.

NUM. VIII.

a, represents the Front of the Flower spread open. b, the hinder Part of the Flower, showing the Cup, which is divided into Five Parts. c, the angular swelling Seed-vessel. d, one of the Seeds taken out of the Pod, with the Down adhering to it.

These Two Plants were discovered by the late Doctor William Hughes, at Vera Cruz, in New Spain, in the Year 1729, and the Seeds of both Sorts he sent to England, where many of the Plants were raised in some of the curious Gardens; but as they grew too high for the Scovers which were then built, and being too tender to live thro' the Winter in England, without artificial Heat, so they perished before they perfected any Seeds. The first Sort produced Flowers in the *Chelsea-Garden*; but the second Sort grew so luxuriantly, as to spread over all the Plants which grew near it, and had no Appearance of flowering.

In the native Country of their Growth, these Plants are generally found in Woods, where they twist themselves about the neighbouring Trees, and climb to the Height of Thirty or Forty Feet. They produce their Flowers in July, and their Seeds ripen in August following.

The Hgurr of both these PUnu were drwn by Doflor HwjlwHi on the Spot where he dilcovtrd them, and were fent to roe, with dxw Defection

Death, as he had bequeathed me all his Pat- Driv un* mg», ind CoUeffi on of dried Plants.

P L A T E XLV.

AFOCVNIM *tritum*, *Africanum*, *villosa fructu, foliis*
feSe laid fubki' jato, Par. Est. 24.

Upretit African Dogi-taiu, tm/i 4 tmry Fruu, and brvad

*j references a Tingle Flower, whk the five-ct. Petals are fallen, and the five-ct. Nectarium open the hinder Part </ the Flower, with the Empulment. t, the P'oinol of the Flower, which rises between the five-iornered Nectarium, which afterward begins to m the 'occl, M a' d. e, is the Pod full-grown and indur. f, the Pod opening, showing how the Seeds are ranged over eatli other. g, a single Seed withosi- its Down.

This Plant was sent me from the *Cape of Good Hope*, in the Year 1751, from which I received several Plants, which have since flowered, and perfected their Seeds, in the *Chelsea Garden*. It is a Shrub, rising about Five or Six Feet high, dividing into several spreading Branches, which are furnished with Leaves, placed irregularly, being sometimes opposite, and often growing alternate, and frequently Three Leaves coming out round the Stalk, as if they arise from the same Joint. The Leaves are about Three Inches long, and half an Inch broad in the middle, and are hairy. The Flowers are produced in Bunches which come out from the Branches, by the Foot-stalks of the Leaves, and are of a whitish Colour, a little inclining to purple. There are of One Leaf, cut into Five Parts, and stand on pretty long Foot-stalks. The Flowers are supported by roundish swelling Pods, which are beset with Hairs; and when ripe do open lengthwise, and disclose the Seeds, which are placed insidiously, like Slates upon Buildings, each having a Plane of soft Down adhering to the upper-part, which help to disperse the Seeds to a great Distance.

There are Two other Species of this Plant, which approach near to this; and Doctor *Linnaeus* hath supposed them to be only several Varieties, so makes them the: (amr i bu< as they do no I v.ir) when raised from Seeds, lo tly may with Certainty be deemed distinct Species. The Two of, « are, the broad and narrow smooth Willow-leav'd Dog-bane. These Two differ from each other only in the Breadth of their Leaves; the latter having pointed Leaves, whereas those of the former are more obtu{, and their Differences do con-

stantly hold in the Plants which are raised from Seeds. The broad-leaved Sort is found growing naturally in *Spain*, as also in *Adwersa*, from whence the Seeds have been sent to *England*. But it is also a Native at the *Cape of Good Hope*, from whence the Seeds were first brought to *Holland*; but the Sort here figured differs greatly from both these Species in the whole Habit of the Plant; for the Branches of this grow diffused, whereas the other grow erect; and there is a great Difference in their Pods, those of the other terminating in a sharp Point, whereas these are obtuse; and the Leaves of this are broader than either of the other, and are pointed and hairy; so there can be no Doubt of its being a distinct Species, especially as it always maintains this Difference when raised from Seeds.

These Three Sorts are propagated by Cuttings, which should be a Day or Two so dry, after they are separated from the Plants; for as the Plants do abound with a milky Juice, so if the wounded Part be not dried before the Cuttings are planted, they are very subject to rot; as they also are, if they receive too much Wet; therefore the safest way to propagate these by Cuttings, is to plant them in Pots, filled with light Earth, and to plunge the Pots into a moderate Hot-bed of Tanners-back, giving them but little Water. This may be done in any of the Summer Months, and the Cuttings will put out Roots in a Month, when they must be exposed to the open Air, to harden them before Winter. The Plants do not require any Heat in Winter, so may be preferred in the Green-house, being careful that they have not too much Wet at that Season. They flower most Part of Summer, and the Seeds ripen late in the Autumn.

The Down, which adheres to all the Species of *Dog-bane*, is very soft and elastic, so that it be pressed close together, so former is the Weight removed from it, but it expands to its former Bulk. This is much used in *France* for stuffing of Cushions and Pillows, being extremely light and soft. It is there called *De la Balle*. In *England* it hath been used for Quilts, being very proper for Persons who are troubled with the Gout, who cannot bear any weight covering over them; this being very warm, yet is light as not to be felt, or occasion any Pain. But as this Down cannot be had in large Quantities from *English* Growth, so those Persons who are desirous to have it, must procure it from *America*, where several Species do grow in great Plenty.



AQUIFOLIUM *frax. longifolia* var. *et. et. et. et.*

*Aquilegia
canadensis
L.*

*Del. J. Smith
1825*



AQUILEGIA parviflora prostrata Canadensis Cornut. Canad. 60.

Del. J. Smith in the bot. Soc. 1825

P L A T E XLVI.

AGRYFOLIUM, TOURS. *Tab. R. H. 600. Tab. 371. Agrifolium Rati Meth. Plant. 755. Lin. Gen. Plant. 158.*

HOLLY-TREE; in French HOUE.

THIS Genus of Plants is, by Doctor *Tournefort*, ranged in the Second Section of his Twentieth Class, intitled, *Trees and Shrubs with a Flower of One Leaf, whose Petal changes to a Fruit bearing four Seeds*. Mr. *Ray* places this Genus in his Third Division of *Trees and Shrubs bearing Berries which have four Seeds in each*. Doctor *Linnaeus* puts this Genus in his Fourth Class of Plants, intitled, *Tetrastria Tetrasperma*, which he takes, *Diuisio Tetrasperma*. The *Linnaean* hath been, by most of the modern Writers on Botany, applied to the *Evergreen Oak*; but as this must be placed under *Quercus*, by every Writer on the Method of ranging Plants, as the Characters are the same, the Doctor may be better excused in applying this Title of *lin* to the *Holly*, than in many other Instances where he has changed the Names of Plants; because this of *lin* hath been applied by some of the old Writers on Botany to the *Holly*, but he is not so excusable in joining to this Genus, the *Daphne of Platanus*, and the *Coffee*, neither of which do agree in their Characters with the *Holly*; for the *Daphne* hath a Funnel-shaped Flower divided at the Top into Three Parts, having but Three Stamens, which is succeeded by an oblong Fruit, having but One Seed; so that it should not be placed in this Class, but in his Third Class of Plants. The *Coffee* should also be placed in his Fifth Class of Plants, for the Flowers have each Five Stamens; so that it is plain the Doctor had not seen the Flowers of either of these Plants when he published the last Edition of his *Genera Plantarum*; nor is it to be supposed that he has seen the Plants either growing, or in Specimen of the *Coffee*: for he supposes that the ever-green Sort, whose Leaves are placed alternately on the Branches, to be the same as the *Daphne Holly*; whereas the Leaves, and Sprouts of the *Daphne Holly*, are totally different. He also supposes the deciduous *Coffee*, whose Leaves grow opposite, to be the same with the *Phytolacca Capensis*, which is figured in the *Eden-Garden*, which are as different as the former.

The Species here figured is,
 AGRIFOLIUM *fr. Aegilium 1793. J. R. 1. 114. The Common Holly. This is, by Geoff. Barthez, intitled, Eux. arabica sacifera, filio Junonis, Piv. 455.*

P L A T E XLVII.

AGRYFOLIUM, TOURS. *Tab. R. H. 413. Tab. 242. Rati Meth. Plant. 79. Lin. Gen. Plant. 605.*

COLOMBINE; in French ANCHOILLE.

THIS Genus of Plants is, by Doctor *Tournefort*, placed in his Eleventh Class, intitled, *Herbs and Under-herbs with a polypetalous anomalous Flower*. Mr.

a, represents a single Flower, with its Four Stamens. *b*, the entire Berries. *c*, a Berry cut through, showing the Four Seeds lodged in their separate Cells.

Doctor *Lam*us* takes (but *Illex foliis acuti uttus spicata, Hort. Clif. 40*). As there are some of these Plants which produce only male Flowers, which are not succeeded by Fruit, and others whose Flowers are hermaphrodite, and have Berries succeeding them; to this Genus, according to Doctor *Linnaeus*'s System, should be added in his Twenty-second Class of Plants, and in his First Division, which he takes, *Diuisio Tetrasperma*.

The Holly-Tree is so well known in England as to need no Description. It grows naturally in the Woods in many Parts of England. The usual Growth of these Trees is from Twenty to Thirty Feet high, though in some Places there are some of a greater Height. The general Growth of them is not more than I mentioned. They flower in June, and the Berries are ripe in Winter. These Berries, when sown, do very rarely grow the first Year; so they are generally buried one Year in the Ground, and taken up again in the Autumn, and sown: The Spring following the Plants will come up; so that there is one Year's weeding of the Beds sowed by this Method; and the Seeds succeed much better than those which are sown the first Year.

The Holly being ever-green, has been long propagated in the Gardens for its Beauty, and was formerly in great Use for making Hedges; but since the old Method of clipped Hedges and thorn Trees hath been cast out of Gardens, the Holly has not been so much propagated. Though there are few Ever-greens of greater Beauty, where they are judiciously disposed. The Variety of variegated Hollies, which have been preferred in the English Gardens, greatly exceeded what could be found in any other Country; and for some Years were esteemed the greatest Ornaments of the English Gardens; so that in many of them, these Trees were so much crowded, as to leave little Room for other Plants; but since the Alteration of the English Taste, they have been almost totally rooted out. Yet, when these Trees are properly disposed in Gardens, and permitted to have their natural Shape, they are very ornamental in the Winter-Season.

From the Bark of the Holly is made Birdlime, and the Wood is used by the Turners for many of their Wares, being very hard and white, and polishes very smooth.

Mr. *Ray* ranges it in his Eighteenth Class of Plants with irregular Flowers, which are succeeded by Podis. Doctor *Linnaeus* places it in his Fifth Division of the Twentieth Class of Plants, intitled, *Polyandria Pentagyna*; the HOWC having many Stamens, and Five Germens. The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The

The Specks here representd is,

AIVitrti* ptfixS* fT4tax Cat!,:• of Cornut. Canal. Co. Lin. y dwarf Columbine of *Canad. id**. a, shows the Flower, b, the Numb of Stamina, which stretch out beyond the Corolla. c, the Seed-vessel, which is composed of Five Cells, each terminating with a crooked Tail. This is the Sixth Species mentioned in the *Gardner's Dictionary*. By Doctor *Linnaeus* it is titled, *Aspalysa nutaria recta, fascicular corolla longioribus, Hort. Upsal. 153.*

Doctor *Tournefort* enumerates Thirty-nine Varieties of *Columbine*; but these are all reduced to Three Species by Doctor *Linnaeus*, which is too small in Number; for although the various Colours of their Flowers should not be admitted as Differences, yet the Structure of their Flowers may be allowed to distinguish the Spe-

cies; therefore those which are usually termed the Starry Columbine, must be distinguished from those called the Rose Columbine; and there are three other which are as distinct, mentioned by *Tournefort*, exclusive of this. And there is another Variety of this, mentioned in the Catalogue of the King's Garden at Paris, under the Title of *Aspalysa Canadensis prostrata prostrata*; but I doubt of their being different Species; for from the same Seeds I have had Plants which grow not more than One Foot high, and others have been near double that Height; so that I suspect it may be owing to the Soil and Situation of the Plants, that this Difference in their Growth is occasioned, for I have not observed any Difference in their Leaves or Flowers. This Plant flowers in April, and the Seeds ripen in August. It grows naturally in Canada, Virginia, and most of the Northern Parts of America, from whence the Seeds have been sent to Europe.

P L A T E XLVHL

ARBU Tfi, Town. hfi. R, H. 393. Tab. 361. Raii M-
ibed. PLOKI. 155. Lin. Gen. Plant. 433.

! STRAWIT«V-T«1, is French ARBOUSIER.

THIS Genus of Plants is ranged, by Doctor *Tournefort*, in his Twentieth Class, intitled, *Trees and Shrubs with a monopetalous Flower, whose Petal becomes a soft Fruit, filled with hard Seeds*. Mr. *Ray* places it among the Trees bearing Berries, including several Seeds; and Doctor *Linnaeus* ranges it in his Tenth Class of Plants, intitled, *Dicandria Monogyna*, the Flower having Ten Stamina, and One Germen.

The Characters of this Genus are exhibited in the *Gardner's Dictionary*.

The Species here represented are,

t. i, A*
Arbutus folia serrata, fructu ovato, officinali, Hort. Pef. The Strawberry-Tree with a sawed Leaf, an oblong Flower, and oval Fruit. a, shows the oblong Pitcher-shaped Flower. b, the oval Fruit. c, the Fruit cut transversely, shewing the Five Cells in which the Seeds are lodged. d, the Fruit cut longitudinally. e, the Seed taken out of the Cell. f, the Style which is stretched out at the End of the Fruit.

Fig. 1. ARBUTUS folia serrata, L. R. P. 460. Strawberry-Tree with a sawed Leaf, and round Fruit.

It is not certain if these are distinct Species, or only Varieties which arise from the same Seeds; however, as there is so great a Difference in the Flowers and Fruit of these Trees, so we have exhibited the Two Sorts as they are generally termed by the Gardeners. I have also observed, that where these have stood near each other, in the same Soil and Exposure, that the Sort with round Fruit has been the most plentiful Bearer.

These Trees grow naturally upon the Hills in *Sed and Spain*, as also in the western Part of *Ireland*. They rise to the Height of Twenty or Thirty Feet, but do rarely rise with an upright Stem, usually standing into many Bums near the Ground, which put out, on every Side, Branches, which are garnished with oblong sawed Leaves, of a bright green, and are stiff. These abide all the Winter, and are thrust off in the Spring by the new ones; so that it is always clothed with Leaves. The Flowers appear in September and October; soon after which time, the Fruit, which succeeded the Flowers of the former Year, are ripe; for they are at least a Year from the flowering to the ripening of the Fruit.



VACCINIUM foliis serratis flore oblongo fructu ovato
 VACCINIUM foliis serratis. L.



✓H(T11 TtJ rams* /rctirn/* nitus folus lanceari lacunolatis rigidis subitis
 argentis flore magna aureo pediculo longissimo

St. ...

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ARGEMONE Mexicana Linn. 459.

W. Goussier del.

Published according to the Art by W. Bache & Co. 1810

W. Goussier sculp.

P L A T E XLIX.

ARCTOTIS, *Lin. Gen. Plant.* 886. *Arctotheca*, *Vaillac.*
R. Scien. 1720. *Anemohespermos*, *Herm. Cat. Com.*
Hon. Amfi. 2. p. 45.

We have no *Engliffh* Name for this Genus of Plants.

THIS Genus of Plants is by Doftor *Unnaus* ranged in his Nineteenth Clafs[^] intituled, *Syn-genefta Polygamia iffSma[^]*; the hermaphrodite Flowers in each Empalement being abortive, the Female Flowers only having Seeds fucceed them. *Vatlant*, in the Memoirs of the Academy of Sciences for 1720. ranges this Genus in his Clafs of corymbiferous Wants with radiated Flowers -, and Doftor *Boerhaave* Places it in his Clafs, intituled, *Gymnomonofpcrma dip Me.* Doctor *Herman* gave the Title of *Anemonofpermas* to this Genus, from the Charafer of the Seeds, which are furrounded with a Down, like thofe of the *Anemone*, and *Vaillant* gave it the Title of *Arctotheca*, from the Sheath or Cover of the Seeds being hairy like a Bear; and the *French* Name which he adds to it *Ourfe*. The other Characters of this Genus are exhibited in the *Gardeners Dictionary*.

The [^]fcpcJ[^]We[^]rel[^]efented is,

ARCTOTIS *rami Tdecumbentibus, foliis lineari-lanceolatis rigidis fubtus argenteis, fiore magno aureo, pediculo longiffimo.* i. e. *Artlotis* with trailing Branches, narrow ftiff Leaves, white on their Under-fide, and a large golden Flower Handing on a long Foot-ftalk.

This Plant has been lately introduced into the Gardens from the *Cape of Good Hope*, where all the Specles of this Genus do naturally grow : But this Sort hath by much the molt fpecious Flower of any yet discovered. I received this Plant from Do&or *Adrian Van Royen*, the late Profeffor of Botany in *Ley den*; and have fince diftributed it to many curious Perfons in *England*. The Branches of this Plant are woody, and fpread themfelves fiat on the Surface of the Ground. Thefe are garnifhed with Leaves, which come out in no regular Order, but are placed on every Side the Branches. They axe about Four Inches long, and about half an Inch broad toward the End where they are broadeft, with one longitudinal

Rib in the Middle; the Upper-fide being of a dark-green Colour, and fmooth •, but the Under-fide. is very white. They are ftiff, and for the moil part entire; but fome few are cut in on their Sides into Three Parts, and others into Five; as they are reprefented in the Figure. From between the Leaves the Foot-ftalk of the Flower arifes, which is near Six Inches long, having on the top One large Flower, whofe Rays are of a gold Colour within, but of a pale yellow on the outfide: At the Bafe of the Rays there is a beautiful Circle of black chequered with white; and the Difk within the Circle is of the fame Colour with the Rays. Thefe Flowers are produced in *May* and *June*; but they are not fucceeded by any more till the next Seafon; whereas moft of the other Species of this Genus are feldom deftitute of Flowers, except in the middle of Winter. This Sort produces no Seeds in *England*; but it is very eafily propagated by Cuttings; which if planted in any of the Summer Months, and placed upon an old Hot-bed, fhading them from the Sun in the middle of the Day, they will take root in Five or Six Weeks; when they fhould be expofed to the open Air, that they may not be drawn up weak; for the more the Plants are expofed to the open Air, the better they will flower; but in the Winter they muft be protefted from Froll; fo that if the Pots are placed under an Hot-bed Frame in Autumn, where in mild Weather they may enjoy the free Air, and in the Nights, or when it is cold, they may be cover'd with the GlafTes and Mats to fcreen them from Froft, they will thrive and flower better than when they are more tenderly managed. In Summer they muft be placed in the open Air, with other exotic Plants from the fame Country, where they will make a fine Appearance during their Seafon of flowering. As the old Plants are fubjeft to rot in Winter, therefore there fhould be a Supply of young ones raifed from time to time to fucceed them; for the young Plants will flower better, and make a finer Appearance than the old.

This is the latt Sort mentioned in the *Gardener's Dictionary*. At the time when the laft Edition of that was printed, this Plant had been but lately introduced into *England*; fo the Culture of it was not fo well known as at prefent •, therefore I have inferted it here.

P L A T E L.

ARGEMONE, *Tourn. Injl. R. H.* 239. "Tab. 121. *Lin. Gen. Plant.* 574.

THIS Plant is ranged in the Second Seftion of *Toumefort's* Sixth Clafs, *mitzulcdjHerbswithaRofe-foaped Flower, whofe Pointal or Empalement turns to a Fruit with One Cell.* Doftor *Linnaeus* places it in his Thirteenth Clafs, intituled, *Polyandria Monogynia*; the Flower having many Stamina, and One Germen. In *Engliffh* it is called PRICKLY POPPY.

NUMB. IX.

There is but One Species of this Genus, which is here reprefented; *viz.*

ARCEMONE *Mexicana* *Injl. R.H.*[^] *Mexican Prickly Poppy.*

This is by the Two *Bauhins* called *Papaver fpinofum*, *Pin.* 172. *Prod.* 92. *J. B.* [^] 397. Doftor *Morifon*, in his *Hijiory of Plants*, 2. p. 277, intitles it *Papaver fpi* nofum luteum, foliis albis venis notatis.* Doftor *Linnaeus* has added Two other Species to this Genus, which

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Dottor

Doctor *Tournefort* placed under *Papaver*, to which Genus they more properly belong, as they agree in their Character with the *Welch Poppy*; which is continued under the Genus of Poppy by Doctor *Linnaeus*: And this Species he titles *Argemone capulis quinquevalvibus foliis spinosis*, *Spec. Plant.* 508. *a*, shews the Flower, with the Stamina in the Centre, surrounding the Germen; *b*, the Seed-vessel, opening at the Top; *c*, the Seeds taken out of the Capsule.

The Seeds of this Plant were brought from *America*, by the Title of *Figio del inferno*, or *Ficus infernalis*, the Infernal Fig; supposed to be so called from a Resemblance between the Seed-vessel of this Plant and the Fig; but being closely beset with Prickles, it may have endangered the Lives of some ignorant Persons, who have

attempted to eat it. The whole Plant abounds with yellow Juice, like the *Celandine*, which flows out on the Plant's being broken or wounded. The Seeds of this Plant are used in the *West-Indies* to purge; and the Juice of it is esteemed good for sore Eyes. It is used for many Disorders in the *West-Indies*; but in *Europe** I believe, it is not used in Medicine.

This Plant grows naturally all over the *West-Indies* where it is a very troublesome Weed in all the cultivated Lands; for if a few Plants are suffered to scatter their Seeds, they will sufficiently flock the Ground. And in those Gardens in *England*, where this Plant hath been sown, the Seeds have fallen, and the Plants have in many Places become troublesome to root out again.

P L A T E L I.

ARISTOLOCHIA, *Tourn. Inft. R. H.* 162. *Tab.* 71. *Rail Meth. Plant.* 89. *Lin. Gen. Plant.* 911.

BIRTHWORT.

Tournefort places this Genus in the Second Section of his Third Class of Plants, intitled, *Herbs with anomalous tubulous Flowers of One Leaf ending in a Tongue*. *Mr. Ray* ranges it in the Second Section of his Nineteenth Class, which he titles, *Herbs bearing Pods, with an irregular difform Flower of One Leaf*: And Doctor *Linnaeus* places it in his Twentieth Class of Plants, and in the Fifth Order; which he calls *Gynandria Hexandria*, from the Stamens or Anthers being joined to the Pointal.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented are,

Fig. 1. ARISTOLOCHIA *clematitis* *refta*, *C. B. P.* 307. Upright climbing Birthwort. This is the *Aristolochia Saracenicæ* of *Dodonæus*, *Pemp.* 326. and *Aristolochia clematidis vulgaris* of *John Bauhin*, *Hift.* 3. p. 560. Dr. *Linnaeus* titles it *Aristolochia foliis cordatis, caule erecto, floribus axillaribus confertis*, *Hort. Upfal.* 279. *Spec. Plant.* 962. This is the Third Species enumerated in

the *Gardener's Dictionary*. In *French* it is called *Aristolochie*.

Fig. 2. ARISTOLOCHIA *longa vera*, *C. B. P.* 307. The true long-rooted Birthwort; in *French*, *Aristolochie Ion-gue*. Doctor *Linnaeus* titles it, *Aristolochia foliis cordatis petiolatis integerrimis obtusifusculis, caule infirmo, floribus foliariis*, *Spec. Plant.* 962. This is the Second Species in the *Gardener's Dictionary*.

The First Sort is very common in the *English* Gardens, Where-ever it is once planted, it spreads so fast by its creeping Root, as to render it difficult to extirpate again; for the Roots will run Three or Four Feet deep in a light Soil; and if any Part of the Root is left in the Ground, it will shoot up again, and produce a great Number of Plants; and some of these Roots having been thrown out of Gardens, have spread themselves in Fields, and by the Side of Highways; so that some Persons have supposed this Plant to be a Native of *England*; but as it is never found remote from Gardens, it is certain that this is not the natural Place of its Growth; but was introduced from *France*, where it is found wild in the Fields. The other Sort grows naturally in the South of *France*, *Spain*, and *Italy*; from whence the Roots are brought to *England*, for medicinal Use.

p L A T E LII.

Arum *Town. Inft. R. H.* 152. *Tab.* 69. *Rail Meth. PL* 74. *Lin. Gen. Plant.* 915.

WAKE-ROBIV, or CUCKOW-PINT.

Doctor *Tournefort* ranges this Genus of Plants in the Second Section of his Third Class of Plants, intitled, *Herbs with an anomalous or cowed Flower of One Leaf*

Mr. Ray places it in his Seventeenth Class of Plants which he titles, *Berry-bearing Herbs*. Dr. *Linnaeus* places it in his Seventh Division of the Twentieth Class of Plants, intitled, *Gynandria Polyandria*, from the Stamens being inserted in the Germen. The whole Structure of the Flower in this Genus is very singular. The Characters of this Genus are exhibited in the *Gardener's Dictionary*.



Fig. 1. ARISTOLOCHIA *decaurita* var. C. & P. 307.
 Fig. 2. ARISTOLOCHIA *longa* var. C. & P. 307.

Published according to the "71^AJ* : M" > > !"

P L A T E VII.

ACANTHUS, *Tourn. Injl. R. H. 176. PL 80. Lin. Gen. Plant. 711.*

BRANK URSINE or BEARS-BREECH.

THIS Genus of Plants is ranged in the Fifth Section of the Third Class of Plants, in *Tournefort's Institutions of Botany* intitled, *Herbs with anomalous Flowers of One Leaf*. Mr Ray places this Genus in his Class intitled, *Herbs whose Seeds are lodged in Pods having a difform or irregular Flower of One Leaf*. By *Rivinus* it is ranged under his Class of *irregular Flowers of One Leaf*. Doctor *Linnaeus* ranges it in his Fourteenth Class, intitled, *Didynamia Angiospermia*. And Doctor *Van Royen*, in the *Prodromus* to the *Leyden Garden* places this Genus in his Class of Plants intitled, *Ringentes Angiospermia*.

The particular Characters of this Genus are described in the *Gardener's Dictionary*. #, shews a single Flower, separated from the Spike; *b*, represents the Fore-part of the Flower, which is divided into Three Segments; *c*, the Hinder-part of the Flower; *d*, One of the Stamina at full Length, with its Apex taken out of the Flower; *e*, the Ovarium, which afterward becomes the Seed-vessel; *l*, the Seed-vessel intire; *g*, represents the Seed-vessel cut tranversely, shewing the Seeds as they are lodged in the Husk; *h*, the prickly Empalement or Cover of the Flower.

The Species here represented is,

ACANTHUS *raricribus* fe? *brevioribus aculeis munitus*. *Tourn. Injl. R. H. 176. i. e. BEARS-BREECH* or BRANK URSINE, guarded with fewer and shorter Prickles. By Doctor *Plukenet* this Species is titled, *Acanthus fylvestris mitioribus* [p. *Almag. Bot.* and in the Catalogue of Plants in the Garden at *Pisa*, it is mentioned with this Title, *Acanthus medius rarioribus* &c? *brevioribus aculeis donatus Fagon*; and in this Book there is a Figure of a Leaf in the Second Plate, which the Author supposes to be a different Species from that which is here represented; but as I have raised several Plants from the Seeds, which were sent me by the Author, so I am convinced that it is the same Plant here figured, having had it growing in the *Chelsea Garden* many Years, standing near the Plant of *Tournefort's* which was raised from Seeds sent from the Royal Garden at *Paris* and has been an old Inhabitant in *Chelsea Garden*.

Doctor *Linnaeus* mentions but Two Species of this Genus, which are European Plants, these are the *smooth* and *prickly Bears-breech* -, in which he is followed by

Doctor *Van Royen*; so that neither of them mention this Sort, supposing it to be only a Variety; but from many Experiments which I have made, in raising the Three Sorts from Seeds, I can affirm they never vary, but constantly produce the same Species as the Seeds were gathered from; as doth also the Fourth Sort, mentioned in the *Gardener's Dictionary* which approaches near to the first or *smooth leaved* Sort, but the Leaves are larger, and of a shining Green.

It is generally supposed, that the Foliage on the Capitals of the *Corinthian Pillars* is taken from the *smooth* Sort of *Acanthus*; but by those Figures which we see represented in the Books of Architecture, they have a much nearer Resemblance to this Species. And as this Sort grows naturally in many Places in *Italy* and also in the Islands of the *Archipelago* so we may suppose that this may be the Plant from which they composed the Capitals of the Pillars of that Order of Architecture, especially as it is much more common in those Countries.

The *smooth* Sort of *Bears-breech* having been figured in several Books of Botany already, and there being no good Figure of this Plant extant, so we imagined that this might be more acceptable to the curious; especially as the essential Characters of the Genus are the same in both, the Difference between the Two Species being in their Leaves, this Sort being much more jagged* and the Incisions of the Leaves being terminated by Spines; whereas those of the other Sort have fewer Cuts which are obtuse, and have no Spines on them.

The *smooth* Sort is that which is directed by the College of Physicians to be used in Medicine; but it is now rarely prescribed; for the Herb-women generally supplied the Markets with either the *Hellebor'after*, or *Sphondylium*, instead of this Plant; so that when it was ordered, the right Plant was very seldom used; which may have occasioned the leaving of it out of Praxidice. The *Germans* in general substitute the *Sphondylium* or *Cow-parsnep* for this, which is by most of their Writers intitled *Branca Urjina*; by which Name it is mentioned in all their Dispensaries.

The Leaves of this Sort are a Foot and half long* about Nine Inches broad, arising with a Foot (talk immediately from the Root; between the Leaves arise the Flower-stems, which are commonly Three Feet high* which are garnished with Flowers from near the Ground to their Top.

These Plants begin to flower the End of *May*, and continue till the latter End of *August* the Flowers at the Bottom of the Spike appearing first, so that on the same Spike there is often a Continuation of Flowers near Two Months.

p L A T E viii.

Alex. Tourn. Injl. R. p. 615. PL 386. Lin. Gen. Plant. 1043. Raii Meth. 157.

The MAPLE-TREE.

THIS is placed by *Tournefort* in the Third Section of his Twenty-first Class, intitled, *Trees and Shrubs with a Rose-flower whose Pointal turns to a mul-*

tipular Fruit. Doctor *Linnaeus* in the former Editions of his *Genera Plantarum*, ranges this in his Eighth Class of Plants, intitled, *Ottandria Monogynia* from the Flowers having Eight Stamina, and a single Style* But, in the last Edition of his Method, he has removed it to his Twenty-third Class of *Polygamia Monoecia*, because there are Male and Hermaphrodite Flowers on

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the fame Plant. Mr. Ray places this Genus in his Clafs of Trees with a dry Fruit, having Wings.

The Characters of this Genus are defcribed in the Gardener's Dictionary; c, represents an Hermaphrodite Flower, with its Eight Stamina; b, a Male Flower, having no Ovarium, c, the Calyx or Flower-cup; d, the Seeds with its Wings.

The Species here represented are,

Fig. i. ACER Platanoides. Munt. Phyt. Fig. u. Maple with a Plane-tree Leaf, commonly called the Norway Maple. This is the Acer montanum orient alisPlatani foliis atro-virentibus. Pluk. Phyt. Tab. 252. l. 1. and in the Uortus Cliff. it is titled, Acer foliis palmatis acute dentatis, fclribus corolla fpeciofis corymbofis 143. and in the Flora Suec. Acer foliis quinquelobis acuminatis acute dentatis glabris, flortbus corymbofis, ^ .303.

This Tree is a Native in the Northern Parts of Europe, and was firft introduced into the Englifh Gardens from Norway; fo has been generally known by the Name of Norway Maple among the Gardeners. It grows to a large Tree; the Wood is hard and tough, and of a white clofe Texture, and is much ufed by the Inhabitants of the Countries where it naturally grows. It hath not been much cultivated in England, till of late Years; fo that there are few large Trees to be found in the Gardens at prefent: But as it is found to be of quick Growth, and extremely hardy, refitting the Spray of the Sea better than moll other Sorts of Trees, fo it has been greatly propagated within a few Years paft in the Nurseries about London. This is the Seventh Species in the Gardener's Dictionary.

Fig. 2. ACER Virginianum, folio majore, fubtus argent eo, fupra viridifplendente. Pluk. Aim. 7. Phyt. Tab. 2. l. 2. The red or fcarlet Flowering Maple of Virginia. This is, by Doftor Herman, titled, Acer Virginianum foliis fubtus incano, ftofculis ex viridi rubentibus. Par. Bat. p. 1. Tab. 1. and in the Hort. Upfal Acer foliis quinquelobis acuminatis acute ferratis, petiolis teretibus, p. 94. In Linnæus's Species of Plants, Acer foliis quin-

quelobis fubdentatis fubtus glaucis, pedunculis fmplicifimis aggregatis, 1055.

The Figures which have been exhibited of this Species are very imperfeA-, that in Doftor Plukenet hath no Flowers, and Do&or Herman's Figure has but few, and thofe are represented too fmall. Mr. Catefly's Figure represents the Seed-veffels very perfect, but the Flowers are not very correft; the Stamina are fretched out too far from the Corolla, and are ill-coloured.

There are Two Varieties of this Tree cultivated in the Nurseries near London. The firft was fent to England by Mr. Banijler, from Virginia, and has been many Years in the Bifhop of London's Garden at Fulham, the Phyfic Garden at Chelfea, and fome others. This produces fmall fcattering Bunches of Flowers.

The other was raifed in the Gardens of Sir Charles Wager, at Parfons Green near Fulham, in the Year 1725. The Flowers of this are produced in clofe Bunches, and the Branches are fuller garnifhed with them than are thofe of the other; fo that the Trees make a much finer Appearance when in Flower. The Gardeners diftinguifh this by the Title of Sir Charles Wager's Maple, the other being called Scarlet Flowering Maple; but as there is no Difference in their Flowers, Seeds, or Leaves, fo they muft be deemed but One Species, as they are only accidental Varieties arifing from Seeds. This is the Fifth Species in the Gardener's Dictionary, where the other is placed as a diftint Sort; but, upon Examination, I can find no fpecific Difference between them. This ieldom grows very large in England; the largeft Trees which I have feen are not more than Twenty Feet high, and their Stems not more than One Foot Diameter. The Wood is clofe and white, but the Branches, are often fplit down from the Trees, where they are much expofed to the Winds. From this Tree (as from mod of the other Sorts of Maple), diftills a fweet Juice from the Earts which are wounded, during the Spring, which, being boiled, produces Sugar.

The Firft Sort flowers about the Middle of April, and the Second in the Middle or latter End of March, at which time they make a fine Appearance.

P L A T E D C

ACHILLEA, Lin. Gen. Plant. 871. Parmica Tourn. Inft. R. II. 496. Tab. 283. Ageratum Rail Meth. Emend. 38.

Sweet Maudlin, or Common Maudelin.

This Genus of Plants is, by Doftor Tournefort, ranged in the Third Section of his Fourteenth Clafs of Plants, intituled, Herbs with a radiated Flower, having no Down adhering to their Seeds. By Mr. Ray it is placed in his Clafs of Plants, intituled, Herbs with a Corymbiferous naked Flower. By Doftor Unnaus it is placed in his Nineteenth Clafs of Plants, with Male and Female Flowers inclofed in the fame Empalement, whofe Stamina and Anthera are joined in a Cylinder.

The Species here represented is,

ACHILLEA foliis pinnatis foliolis lineari-lanceolatis baft furcumauSlis. Flcr. Leyd. prod. 176. Maudlin with hoary Tanfey Leaves. This is, by Doftor Tournefort, titled Parmica Orientalis, foliis Tanaceti incanis fore aureo, Cor. Inft. '37. It is the Sixth Species of Ageratum, in Boerhaave's Index Plantarum.

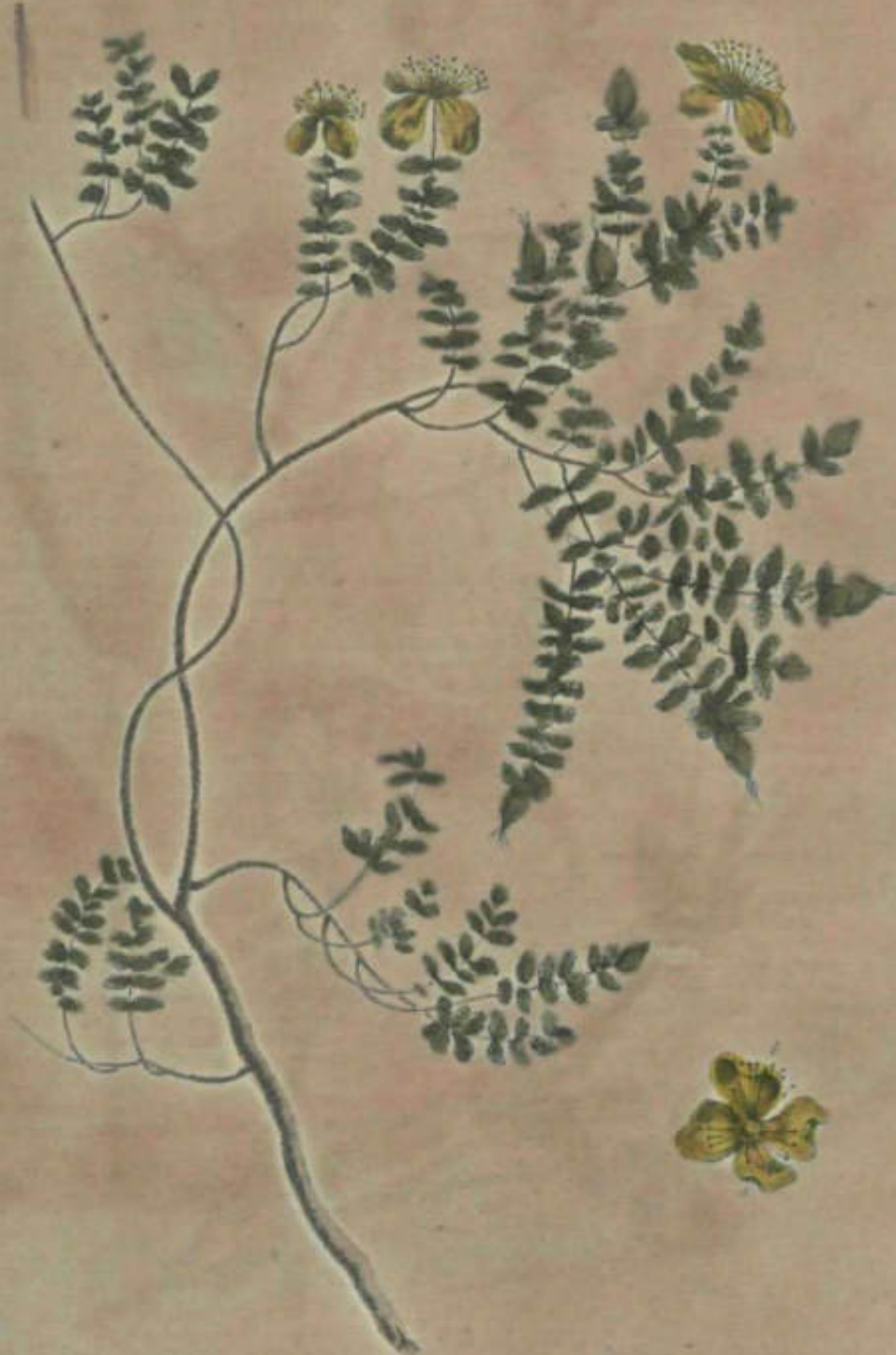
This Genus of Plants was, by the Bucanists of the left Age, first discovered in Egypt MAODSK or MAODSK; but Doftor Tournefort has applied that Title to a Plant whose Characters are very different from those here. **us LtduZs^Sl the? id f * * *** this Genus, as the Character of Parmica to or Sneezewort, agreed pretty well with the common Parmica, for Linnæus has, E B T, giving this Epith S d J, te u o ^ Genus, with is an old Title of the Tarloit.

The Characters of this Genus are defcribed in the Gardener's Dictionary; c, represents a Single ^ C j ^ ^ ^ mfr * * * Flowers, which are inclofed in ^ & fine Head of ^ ment; c, the Half-Florets J? the common Empalement; d, a Floret or H ^ CO mpoft the Rays of which there are feveral ft each e ^ A ^ Phrodite Flower, of Embryo's of the Seeds.

This is the Thirteenth SD. " in the Gardener's Dictionary, mentioned re lth been the Books of Botany;

Desman polyflora L.

2117



1877
Desman polyflora L. *Desman polyflora* L. *Desman polyflora* L.



Asparagus fistulosus
Asperula fistulosa

Fig. 1

Fig. 2

Fig. 1. ASPERAGUS fistulosus C. B. P. 314.
 Fig. 2. ASPERULA sive Rubraea montana sive C. B. P. 334.

Illustrationes in tab. 1. de fr. & herb. 2. p. 118.

W. Miller del.

W. Miller del.

P L A T E LV,

ASPARAGUS, *Tburn. Inf. R. H. 300. Tab. 154. &** *Method. Plant. 75. Lin. Gen. Plant. 382.* Asparagus, Sparagus, or Speerage, corruptly called *Sparrow-grafs.* In French, *Aperges.*

THIS Genus of Plants is by Doftbr *Tournefort* ranged in the Eighth Section of his Sixth Clafs, intituled, *Herbs with a Rofe-Jbaped Flower, whofe Point al, or Empalement, turns to a [oft Fruit.* Mr. *Ray* places it in his Seventeenth Clafs of Plants, which includes the Herbs bearing Berries: And Dr. *Linnaeus* ranges it in his Sixth Clafs of Plants, intituled, *Hexandria Monogynia*, i. e. Plants whofe Flowers have Six Stamina and One Pointal.

The Species here repreftented is*

Fig. 1. ASPARAGUS *fativa*, C. B. P. 489. Commonly cultivated Asparagus. This is the *Asparagus Hortenfis* of *Dodonxus*, *Pemp.* 703. 2nd the *Asparagus Hortenfis* &? *Pratenfis* of *John Bauhin*, *Hijl. Vol 3. 2 75.* Garden Asparagus. Dr. *Linnaeus* titles it *Asparagus caule herbaceo erefto-, foliis fetaceis filipulis paribus, Flor. Suec.*

This is the Sort which is commonly cultivated in the Gardens, and is one of the molt delicate Produhd of the Kitchen-Garden; therefore is well known to moft Perfons in the State when it is proper for the Table: But after the Shoots have advanced fo far as to produce the Flowers and Seeds, it is not fo generally known; therefore we thought it might not be difagreeable to the Public to give a Representation of it here, *a*, represents the Bell-fhaped Flower, confifting of One Leaf; *b*, (he Berries full-grown •, *c*, the Seeds taken out of the Berries. This is the Firft Species enumerated in the *Gardener's Diftionary.*

The other Characters of this Genus are exhibited in the *Gardener's Dictionary.*

There has been great Doubt among the Botanifts, if the Wild and Garden Asparagus were the fame Species; fome having fuppofed they were, and only differed by Culture; while others have affirmed that they were fpecifically different. But having made the Experiment by Sowing of the Seeds of the Wild Sort in the Garden, I found no other Difference between them than in the Size of the Shoots, thofe of the Garden being larger; but the Wild Sort fhut up earlier in the Spring, when it was growing in the fame Situation with the Garden. The Shoots were equally weftafted; and, by faving Seeds from fome of the largeft Shoots of the Wild Sort, the Plants, which were raied from thofe Seeds, produced Shoots almoft equal in Size to any of the Garden Asparagus: Therefore I make no doubt but the Third Generation would have been full as large •, but this I had

no Opportunity of trying. *Tournefort* writes of this menflrukl by *Caffar Bauhin*, Mr. *Ray*, *Tournefort*, and other Authors •, viz. of cultivated. 2. The narrow-leaved Wild. 3. The maritime Sort, with thick Leaves. But I beheve thefe only differ accidentally, from Culture, or foely for I have *ken* fome of the Third Sort, which was cultivated in a Garden in *Wales*, from the Seeds gathered near the Sea, which did not differ from the common; yet *Magnol* and fome others, have fuppofed ic to be a different Species, becaufe the tender Buds of it were

bitter, and the Berries were larger: But whoever has been converfant with the Culture of Asparagus, muft know that neither of thefe ought to be admitted to make a Difference •, for from the fame Root there has been cut Buds perfectly fweet, and very bitter • and, on the fame Stalk, there have been frequently Berries of various Sizes; fo that we may fafely agree with Mr. *Ray* and *Caffar Bauhin* to pronounce them to be only accidental Variations, produced from the Soil and Situation,

It grows wild in *Lincolnshire*, *Ejflex*, and *Cornwall*, in the Meadows near the Sea. The tender Buds of the Garden Asparagus are boiled and eaten in the Winter and Spring; and the Roots and Seeds are ufed in Medicine,

Fig. 2. ASPERULA *Raii Meth. Plant* 54. Ger. Herb. 666. Park. Theat. 563* C. B. P. 334. Lin. Gen. Plant. 113. Aparine Tourn. Inf. R. H. 114. Tab. 39. Woodroof, or Woodruff. In French, Muguet.*

Mr. *Ray* ranges this Genus in his Twelfth Clafs of Plants, intituled, *Herbte Stellate*, from the Leaves of all the Plants in this Clafs being placed round the Stalks at each Joint, pointing like the Rays of a Star.

Doftor *Linnaeus* places it in his Fourth Clafs of Plants, titled, *Tetrandria Monogynia* \ the Flowers having Four Stamina and One Germen. *Tournefort* has joined this Plant to the Genus of *Aparine*, or *Goofe-grafs* -, making it a Species of that, which he ranges in the Ninth Section of his Firft Clafs, which he titles *Herbs with a Bell-fhaped Flower of One Leaf, whofe Empalement turns to a Fruit having Two Seeds joined together.*

Doftor *Linnaeus* has made a Genus under this Title, and has added fome Species of *Gallium* and *Rubia* to this Genus.

The Species here repreftented is,

ASPERULA, *five Rubecula montana odora, C.B.P. 334. Woodroof, or Woodruff.* This is the *Asperula odorata*, fore *albo*, of *Dodonaus*, *Pemp.* 355. By *Parkinfon* it is titled, *Asperula, ant Afergula, odorata. Theat. 563.* Doftor *Linnaeus* titles it, *Asperula foliis cflonis lanceolatis, fiorum fafciculis pedunculatis. Flor. Suec.* 114. *Tournefort* puts it under *Aparine* by the following Title -, *Aparine latifolia montana humilior, Inf. R. H. 114.* *a*, represents the Leaves growing in Whorles round the Stalks; *b*, the Umbels of Flowers; *c*, a fingle Flower taken from the Umbel.

This Plant grows wild in fhady Woods in many Parts of *England*-, fo is rarely kept in Gardens; but being ufed in Medicine, we have given a Figure of it. The Roots of this Plant do fpread far in the Ground; fo that where it has taken good Root, it will multiply faft enough by the Roots; but it doth not often produce Seeds: which is frequently the Cafe of many other Plants, which have creeping Roots. The Stems come immediately from the Root, and rife about Six Inches high. Thefe are garnifhed with Leaves at every Joint, which are generally Six or Eight in Number. They are in Shape like thofe of the *Cliver* or *Goofegrafs*, but fmooth. The Flowers are produced at the Top of the Branches in Umbels, which are white, and have a fweet Scent, They come out in *April* and *May*, and in Autumn the Shoots die to the Ground.

P L A T E LVI.

ASPHODELUS, *Tourn. Inft. R.H. 343. Tab. 178. Rait Meth. Plant. 116. C. B. P. 28. L's. Gen. Plant. 379. Aphodel, or KirtgVfpear. In French, Asfodele.*

DO or *Tournefort* ranges this Genus of Plants in the First Section of his Ninth Clafs, intituled, *Herbs with a Lilly-flower of One Leaf, cut into Six Parts, whose Pointal turns to a Fruit.* Mr. *Ray* places it in his Twenty-third Clafs of Plants, which he titles *Herbs with Grafs-leaves bearing Flowers, which have a tricafpular Seed-veffel.* Dr. *Linnaeus* puts it in his Sixth Clafs of Plants, titled, *Hexandria Monogynia*, from the Flower having Six Stamina and One Style. And the effential Difference which he makes between this Genus and *Ornithogalum* is, that the Flower of this is of One Leaf, and thofe of *Ornithogalum* have Six. Mr. *Ray* makes One of its Charafters to confift of the Roots which have many Tubers, or Fangs.

The Characters of this Genus are exhibited in the *Garbener's Dictionary*.

The Species here represented is,

ASPHODELUS, *foliis plāntis, caule ramofo, floribus fpedris* u e. Aphodel, or King's-fpear, with broad plain Leaves, a branching Stalk, and Flowers placed thinly. *a*, represents the Flower, which is deeply cut into Six Parts; *b*, the Seed-veffel, which is divided into Three Cells.

This Plant was raifed from Seeds in the *Chelfea* Garden, Anno 1751, where it produced Flowers the following Year. The Seeds came from the *Cape of Good Hope*, where this Plant naturally grows.

The Roots of this Plant are compofed of many Tubers, or Fangs, each about the Size of a little Finger, toward the upper Part, where they are largeft, and diminifh gradually downward to the Size of a fmall Straw. Thefe are joined together at the Crown (like the Roots of *Afparagus*), where the Buds are formed, from whence the Leaves are produced, which are generally Seven or Eight in Number, coming out without any Order. Thefe are Nine or Ten Inches in Length, and an Inch and Half broad in the Middle, leflening gradually to both Ends. They are fmoother, and of a glaucous or fea-green Colour. From the Centre of the Root arifes the Flower-ftem, which grows about Two Feet high,

and divides into feveral Branches, having a few narrow Leaves, generally one being placed at every Division of the Branch. The Flowers are produced thinly on the Branches, forming a loofe Spike, or Thyrfus. They are white, and confift of One Leaf, which is deeply cut into Six Parts. In the Centre is placed the Germen, fupporting the Pointal, attended by Six Stamina, which are inferted in the Valves of the Neftarium, and alternately fhort. The Germen becomes a roundifh Seed-veffel, opening in Three Cells, which are filled with triangular Seeds.

I do not find this Plant mentioned in any Botanic Books, although it is very likely to have been formerly in the *Dutch* Gardens. There having been fome Paintings of the Plant in feveral Flower-pieces, which are fuppofed to have been done upwards of Sixty Years. However, it has been loft for fome Years in *Europe* and has been lately recovered from Seeds, which were brought from the *Cape of Good Hope*, to *England* and *Holland*. The First Seeds which I received from thence, was at the latter End of the Year 1750, which were fown in *October*, and, in *March* following, the Plants came up, and made a confiderable Progrefs that Summer, and, the following Spring, 1752, produced Flowers, and perfected their Seeds. Since which time, I have received many of this Plant from the *Cape of Good Hope* in feveral Years, fo that we may fuppofe it to be pretty common there. There is no certain Seafon of this Plant flowering. For the First Year, it flowered in *May*; and next then it has flowered in *August* and *September*, and, when the Plants are kept in Warmth, they fometimes flower in Winter. When the Flowers are fully blown, they make a pretty Variety among other exotic Plants, but, unlefs the Seafon is dry and favourable, thofe Plants, which are expofed to the open Air, do not open their Flowers kindly.

This Plant is too tender to live through the Winter in the open Air in *England*, fo muft be kept in Pots, and houfed, in Winter, or placed under a Hotbed Frame, where the Froft is kept out by Covering: In which Management, the Plants will thrive better than in a common Green-houfe. In Winter, thefe Plants muft have little Wet; for much Moifture, at that Seafon, is apt to rot their Roots. It is propagated by Seeds; and the Roots do not increafe in *England*.

P L A T E LVII.

ASTLR, *tourn. Lift. R. H. 481, Tab. 274. Raii Meth. Plant. 53. Lin. Gen. Plant. 858. Helenium VailL. N. Gen. Ml. R. Sc. 1720. Starwort. In French, Afire*

DO or *Tournefort* ranges this Genus of Plants in his Fourteenth Clafs, intituled, *Herbs and Under-Jhrubs with a radiated Flower, which is fucceeded by Seeds having Down.* Mr. *Ray* places it in his Seventh Clafs of Plants, which he titles *Herbs with a difcous radiated Flower, and pappofe Seeds.* Doftor *Linnaeus* places it in his Nineteenth Clafs of Plants, which he titles *Syngenefia Polygamia*, from their being Male, Female, and Hermaphrodite Flowers included in the fame Empalement.

The Species here regrefentgdjtre,

Fig. 1. ASTER *Carolinianus pUofius conyza ctrule* fl'ia floribus luteis, qtiāfi umbellatim difpofitis*; i. e. Hairy *Carolina* Starwort, with Leaves like the blue *Conyza*, and yellow Flowers difpofed in a Sort of Umbel. *a*, represents the Rays of the Flower, which are flightly cut into Three Parts at the Pointal; *b*, the Germen of the Flower, which is compofed of feveral Florets; *c*, (fews one of the Half Florets which compofe the Flower taken out of the Empalement; *d*, represents a Floret taken out of the Difk, fitting on the Embry of the Germen; *e*, in the Centre of which is placed the Pointal/-



ASPHODELUS fistulosus var. communis fistulosus sp. —

Collected in the

W. J.



ASTER *Carolinianus*
procumbens *Boottii*
occurrens *var.* *Boottii*

ASTER *Carolinianus* *pileatus* *Coryza* *caerulea* *foliis* *floribus*
luteis *quasi* *umbellatim* *dispositis.*

J. M. Smith pinxit.

Publ. according to the sketch by P. Miller drawn by the artist.

J. M. Smith sculp.



ASTRAGALUS *Alpinus parviflorus alpinus* Steph. & H. 1815

Handwritten note or signature.

Handwritten text, possibly a collector's name or location: "L. H. ...".

Handwritten note or signature.

The Seeds of this Plant were sent me from *South Carolina*, in the Year 1742, by my late Friend Dr. *Thomas Dale*, which succeeded in the *Chelsea* Garden, where the Plants flowered the following Year, but the Season proved too cold to ripen the Seeds, and the Plants being biennial, they perished in Winter.

This Plant produces many hairy oblong Leaves near the Root, which come out without any Order. They are from Four to near Six Inches long, and almost an Inch broad. From between these Leaves the Stalk arises immediately from the Root, which is Two Feet and an Half high, sending out several Side-branches. These are garnished with hairy Leaves of the same Shape with those at Bottom, but are smaller, and are placed alternately on the Branches, which they closely embrace, having no Foot-stalk. At the Top of the Stalk, the *flowers are produced, which are large, and of a yellow colour, composed of many Half Florets, which form the Border, or Ray, and the Disk in the Centre is composed of several Florets, each having a Pointal in the Middle, and attended by Five (tender Stamina, which do not extend beyond the Corolla. At the Bottom of the Pointal is placed the Embryo, crowned with a pap-pole Down, which serves to waft the Seeds abroad when they are ripe. These are included in one common scaly impalement.

This Plant approaches near to one which is figured by Dr. *Plukenet*, Plate 340, which he titles *After lutens -Mariatus, faligneis brevioribus foliis hirsutis pubescentibus, junmo caule ramofius*. But the Leaves in his Figure are much less than those of our Plant, and the Flowers are smaller; and their Foot-stalks are garnished with Leaves close to the Empalement; so that I doubt of its being the same Plant.

This must be ranked in the Genus of *After*, if We follow *Tournefort's* Method; but, according to *Faillan's*, it should be under that of *Helenium*; and Dr. *Linnaeus's* System places it in his Genus of *Inula* which he distinguishes from *After* by its Empalement not being reflexed, and the Anthera being feated in the pap-pole Down.

Fig. 2. *ASTER Americanus procumbens, Belli dis minor is < facie, Houft. Manf. i. e. Trailing American Starwort, having the Appearance of the lesser Daizy.*

This Plant was discovered by the late Doctor *William Houfton*, in the Year 1739, growing in Plenty in the sandy Ground about *Vera Cruz* in *America*; where he drew the Figure, and made a Description of the Plant upon the Spot; which he sent to *England* with the Seeds, some of which grew in the *Chelsea* Garden, and the Plants flowered the following Summer, but did not perfect their Seeds.

It hath (tender fibrous Roots, which creep in the Ground, and send out many (tender round Stalks, which bend and incline to the Ground. These are about Four or Five Inches long, destitute of Leaves, each sustaining One Flower, in Shape and Size of those of the common Field Daizy, of a whitish purple Colour; but the Rays are narrower. The Disk is composed of several Florets, which are succeeded by small Seeds crowned with a pap-pole Down. The Empalement, which includes the Flowers, is scaly, as represented at G.

As this Plant is a Native of a warm Climate, so it will not live in the open Air in *England*: therefore the Seeds must be sown in an Hot-bed, and the Plants will require a Stove to maintain them through the Winter.

P L A T E LVIII.

ASTRAGALUS, *Tourn. Inft. R. H. 415. tab. 233. Raii Meth. Plant. 106. Lin. Gen. Plant. 799. Milk-Vetch. In French, Aftragale.*

THIS Genus of Plants is by Dr. *Tournefort* ranged in the Fifth Section of his Tenth Class, intitled, *Herbs with a papilionaceous Flower, whose Pointal changes into a bicapfular Pod*. Mr. *Ray* places it in his Twenty-first Class, and Third Division, which he titles *Leguminous Herbs, which are not three-leaved, whose Pods have a double Row of Seeds*. Dr. *Linnaeus* places this Genus in his *candria*, from the Flowers consisting Ten Stamina, which form Two Bodies, Nine of them joining together, and the Tenth Hanging separate.

The Species here represented is,

ASTRAGALUS *Alpinus procerior Alopecuroides* Inft. R. H. 416. i. e. Taller Fox-tail Milk-Vetch of the Alps. This Plant is intitled by Dr. *Linnaeus*, in the Catalogue of Mr. *Clifford's* Garden, *Aftragalus capitulis oblongis, MiBus calycibus, & leguminibus lanatis*, p. 361; and, *Spedes Plantarum, Aftragalus caucaseus, spicis cy-mnticis, ykffltubus calycibus, leguminibifque lanatis*, p. 755.

This Plant was discovered by Dr. *Tournefort* growing in the Alps, who brought the Seeds to the Royal Garden at *Paris*, where it succeeded, and produced Seeds,

which have been communicated to most of the Botanic Gardens in *Europe*. But, since his time, this Plant has been found growing naturally in *Siberia* from whence I have received the Seeds.

There are several Species of this Genus now known; but that which is here figured, is one of the most specious; and as there is not a good Figure of the Plant in any of the Botanic Books, so I have chosen this to represent the Genus, *a*, represents the Pod separated from the Spike-, *b*, shews the Pod opened lengthways, with the double Row of Seeds, which is one of the Characters of this Genus; *c*, is a single Seed taken out of the Pod. The Spikes of Flowers are conspicuous in the

This Plant seldom continues longer than Three Years. The first Year, it rarely rises up to flower; but when the Plants come up in the Spring, they will get Strength before Winter; so will flower stronger the following Summer. The Flower-stems rise near Two Foot high, and produce One or Two close obtuse Spikes of Flowers, which closely furround the Stem, having very short Foot-stalks. The Empalement of the Flower, as also the Pods, are almost completely covered with a soft Lanugo, or Down. The Flowers are yellow, and of the Pea-blossom Kind, consisting of a Standard, a Keel, and Two Wings. In the Keel is closely wrapped the Ten Stamina and Pointal. After the Flower is past, the Pointal becomes a short Pod, having Four or Six Kidney-shaped Seeds. It flowers in July, and the Seeds ripen in September.

P L A T E LDL

BALSAMINA, fount. Ltd R 4 St. Balsamina frutescens, Gen. IV. 146. Lin. Cat.

Dr. Linnaeus ranges this Genus of Plants in his Eleventh Class, intituled, Herio with a polygamous anther Flower, whose Petals turn to an anther when ripe. Mr. Ray places it in his Twelfth Class of Plants, Dr. Linnæus places it in his Nineteenth Class of Plants, and keeps the Title of Balsamina, which was applied to it by Bvdonics, and some other Authors, from the Seed-vessel being impatient to the Touch when ripe; for, upon it being touched, it opens, and throws out the Seeds to some Distance.

The Species here represented is,

BALSAMINA, flore majore plena elegantissima. Female Balsamine, with a white Flower, elegant yfringed. represents the Title of the Flower, which is bent at the Foot-stalk, where there is a Spur or Heel produced, in what the Title signifies, the Forepart of the Flower, the Pod when fully grown, the Seeds.

The Seeds of this Plant were brought from China, under the Title of Immortal Eagle Flower. It has been preserved several Years in the Gardens of curious Persons, and if Care is taken to pull off all the Flowers from the Plants, which are not double or well-coloured, permitting them to have Seeds, the Kind may be preserved without degenerating in England.

There & one sort of this Plant common in the Mantis of America, which is called Cockspur. But this grows very large in our Gardens, and very rarely comes to flower till late in the season; nor are the Flowers so double as in the other sort; so it is scarce worth propagating here. I do imagine, that this was introduced from India to these Islands, and is not a Plant natural to that Country, where, by its tearing Plenty of Seeds, it is now become so common there, as to be thought a Plant of that Country; but the Inhabitants have not been careful in saving or the Seeds, so it hath degenerated there so much, as to have few Plants with double Flowers. The common Sort with single Flowers has been long cultivated in the English Gardens; but was first brought from India, where there are several other Species of this Genus, but fewer of them approaches to the Sort here figured in beauty. Dr. Urmeus supposes the common Balsamine to be the same Species; in which I think he mistakes; for the Flowers of this are near double the Size of those of the common Sort; so that aitho' the colours of the Flowers may vary, and the double degenerate to single Flowers, yet they will never alter in the Size of the Flower, nor will the Plants have the same appearance; so that they may be put down as different Species.

The Title of Balsamina was applied to this Genus by name of the old Botanic Authors, who joined this with the Momordica, to which they gave the Title of Balsamina, of no other reason than that of the Fruit burling open on the Touch, when ripe, as the Pods of the other do; but there is no Affinity either in the powers or Fruit of the Two Plants; the Momordica approaching near to the Cucumber in Flower and Fruit.

P L A T E LX.

ASTERIA.

The Characters of this Genus are,

The Empalement of the Flower is of One Leaf cut into Five narrow Segments to the Bottom: The Flower is composed of many oblong pointed Leaves, or Petals, which are inserted in the Empalement, each turning inward toward their upper Part, so as to form a Cup over the Stamina somewhat like the Flower of the starchy Anemone. In the Centre of the Flower is placed the roundish Ovarium which is composed of Five Germina, and is attended by many short Stamina, crowned with blunt Summits.

THIS Plant must be ranged, according to Dr. Linnæus's System, in his Class, in his Order of the first Class, under the following Title: Frutex corni foliis conjugatis, floribus inftar Anemones stellata, petalis crassis rigidis, colore fordide rubente, cortice aromatico, Vol. I. p. 46. It is commonly known in the Gardens by the Name of Allspice; but as that Title has been long applied to the Jamaica Pepper, so the fixing of it to this Plant may occasion Confusion in their Names.

In England this is but a low Shrub, rarely rising above Three or Four Feet high, and, in its natural Country seldom more than Eight or Ten Feet. It divides into many irregular Branches, which are covered with a bright brown Bark, which is very aromatic. These Branches are garnished with Leaves placed by Pairs opposite which are oval, being near Two Inches long, and about One and an Half in the Middle, generally ending with a Point, having One longitudinal Vein, with Three or four horizontally to the Sides. At the Extremity of the Branches the Flowers are produced singly, supported by short Foot-stalks. These are composed of many narrow

crowded together, of a very dark COPPER colour, in their Centre a roundish Ovarium, composed of five Germina, surrounded by a great Number of short Stamina, but at Summits of a yellow Colour. The Ovarium always falls away with the Petals of the Flower in England, and never grows so large as that which is uncertain what Seed-vessel it produces.

As this Plant has not had any proper Title given it in any of the Botanical Books, so I have applied the following Name to it, in Honour of my worthy Friend Dr. Astruc, who was born in the City of Lyons.

BALSAMINA, fruticosa, caule fruticosa; i.e. shrubby, with oval pointed Leaves and woody Stalks. The lower Part of a Flower, with its Empalement, bestows the Forepart of it, and c. the many Stamina which surround the Ovary.

Dr. Linnaeus's Exoticarum, has figured this Plant in his Species Plantarum, by the Title of Balsamina, which seems to approach near to the Name of this Plant, and is the best of its kind; but the Size is like to the Height of a Cherry tree, and the Leaves are much larger than those of this Plant, and the double of its being so large.

This Plant was procured from Carolina by Mr. Catesby, who already made it in that Country, but I have been informed, that the Transplantations of Carolina have not been in their Gardens of late Years, so have great it there.

This Shrub will live in the open Air in England, if planted in a warm Situation; but its severe Winter is frequently killed, when the Plants have not time to get harden'd before they are exposed to the Winds.



BASTERIA. *Folia multo-annuata* ex *Frax.*

A. L. Smith del.

L. L. Smith sculp.

Printed & colored by W. H. Burdett, 15, N. 2nd St., N. York.



B.V. CHINIA foliis ovato-lanceolatis, lobis longifris »»» parallelis

R. L. ...

Published according to the ...

...



Handwritten notes in cursive script, likely describing the specimen or the artist's process.

BELLADONA *mujeribus* *folia* *Atropa* *belladonna* *L.* *Sp. Pl. R. H. 77.*

A. Smith del.

Published according to a list of subscriptions by the Author dated 27, 1728.

W. Miller sculp.

P L A T E LXI.

BAUHINIA, *Plum. N. Gen. Plant** 23. *tab. 13. Lin. Gen.* 459. Mountain Ebony.

THIS Genus of Plants is by Doftor *Linnaeus* ranged in his Sixth Clafs, intituled, *Decandria Monogynia*, the Flowers having each Ten. Stamina and One Style.

The Species here reprefted is*

BAUHINIA *foliis ovato-cordatis lobis longiffimis parallelis* i. e. Mountain Ebony, with oval Heart-lhaped Leaves, with very long Lobes ftanding parallel, *a*, reprefts the Flower, with its Ten incurved Stamina; *b*, the Style of the Flower; *c*, the Pod; and *d*, the Seed taken out of the Pod.

The Charafters of this Genus are exhibited in the *Gardener's Dictionary*.

The Plant, heré reprefted, approaches near to the *Bauhinia non aculeata, folio ampliori bicorni*, of Father *Plumier*; but the Lobes of the Leaves are much longer nor are the Flowers fo large as thofe of his Plant, which is figured in the *Hortus Malabaricus*, by the Title of *Velutta-Mandaru*; and is, by Dr. *Linnaeus*, titled *Bauhinia foliis ovatis lobis acuminatis femiovatis Spec. Plant.*

There are many Species of this Genus, which are Natives of the *Weft and Eaft Indies*, in both of which they are equally common. The Seeds of this, as alfo of Two other Species, I have received from *Jamaica*, by the Title of *Mountain Ebony*, the Wood of the Trees being very hard and black, fomewhat refembling the true libony, occafion'd their fo calling it; and having no

better Epithet for it in *Englilh*, I have Continued that Name to it. I have received Seeds of another Sort from *Jamaica*, by the Title of *Upright Honey-fuckle*, the Plants of which are now growing in the *Chelfea Garden*, but have not yet flowered. This Sort feldom grows taller than Five or Six Feet, in its native Soil, but the Extremities of every Branch are garnifhed with large Clusters of Flowers, fomewhat refembling thofe of the *Honey-fuckle*, from whence it had this Name. The common Title of this Genus of Plants in the *Eaft Indies* is MANDARU, to which they add fome other Epithet to diftinguifh the Species. One of the Species, which is that of Father *Plumier* before-mentioned, has been titled by fome ancient Botanifts *Arbor S. Thorny* and the Flower *Flos Divi Thorns*; the Flowers of that Species being ftriped with purple, the ignorant People had a Superftition that they were ftriped with *St. Thomas's Blood*.

There are a much greater Variety of thefe Plants than are mentioned in any of the Books of Botany; for I have Specimens of at leaft Twelve Sorts, which are very diftint*, fome of which have twining Stalks, others have their Stems and Branches full of Thorns; many of thefe came from *Jamaica*, and others were fent me from the *Leeward Iflands*.

As thefe Plants are Natives of hot Countries, fo they will not live in *England*, unlefs they are placed in a Hot-houfe in Winter; but a moderate Warmth will preferve them, provided they have not much Wet in Winter. Several of the Sorts flower very well in *England*, and make a very good Appearance in the Hot-houfe, when they are in Flower; fo are as well worth preferring, as moft other exotic Plants; and the Seeds of them may be eafily obtained from the *Weft Indies*. The Culture of them is fully inferted in the *Gardener's Dictionary*.

P L A T E LXII.

BELLADONA, *Tourn. Inft. R. H.* 77. *tab. 13. Solanum lethale, feu Belladonna, Raii Methi. Plant.* 74. *Atropa Lin. Gen. Plant.* 222. The Deadly Night-fhade.

THIS Genus of Plants is by *fmrncfort* ranged in the Firft Section of his Firft Clafs of Plants, intituled, *Herbs with a Bellhaped Flower, of One Leaf, whofe Pointal changes to a foft pulp Fruit*. Mr. *Ray* places it in his Seventieth Clafs of Plants, bearing *Berries which grow feperate*. Dr. *Linnaeus* ranges it in his Fifth Clafs of Plants, intituled, *Pentandria Monogynia*, the Flowers having Five Stamina and One Germen.

The Species here reprefted is,

BELLADONA, *majoribus foliis et floribus, Lift. R.H.* 77. Deadly Night-fhade, with larger Leaves and Flowers, *a*, reprefts the Bell-fhaped Flower, which generally turns downward; *b*, one of the Berries intire, when ripe; *c*, fhews the Fruit cut open; and *d*, the Seeds.

This is by *Clufius* called *Solanum lethale Belladonna* and by *Tragus*, *Solanum hortenfè nigrum*; by *Caffar Eauhin*, *Solanum Melanocerafus*, *Pin.* 166; by *Parkinfon* and *Gerard*, *Solanum lethale*; and in *Englilh*, *Dwale*, or *Deadly Night-fhade*. Doftor *Linnaeus* has changed the Title of this Genus to *Atropa*; and this Species he calls *Atropa caule herbaefo, foliis ovatis integris. Sp. Plant.* 181. There is another Species of this Genus, mentioned by *Clufius* and *Tournefort*, having fmaller Leaves and Flowers; but if there is a real Diffinshon between thefe Plants, I have not fctn the latter in any of the *Englilh* or *Dutch Gardens*.

The Sort here figured grows wild in feveral Parts of *England*, but particularly about *Rochejier* and *Chatham* in *Kent*, where I have obferved it growing from between the Joints of old Walls, and in molt of their unfrequented Lanes; and in *Woodlock-Park*, in *Oxfordshire*, and *Up-Park*, in *Hampshire*, in great Plenty. This Plant hath a perennial Root, and an annual Stalk, which decays to the Ground in Autumn, and frefh Shoots are put out from the Roots early in the Spring, which, in a rich moid Ground, will grow to the height of Five Feet,

but on poor Land, or when the Plants grow out of the Joints of Walls, their usual Height is from Two to Three Feet. The Flowers are produced singly from the Joints, between the Leaves, on pretty long Footstalks : These are large and Bell-shaped, divided at their Rim or Edge into Five Parts, and are of a dusky brown greenish Colour on their Outside, and purplish within. In the Centre of the Flower is placed the oval Germen, supporting a fiender Stile, attended by Five Stamina, which extend the Length of the tubulous Flower, and are crowned with thick Summits, which incline on one Side. When the Flower falls off, the Germen turns to a globular soft Fruit, resting in the permanent Empalement *, this is flattened at Top, and when ripe is of a shining black Colour, filled with a purple Juice, in which are many Kidney-shaped Seeds. It flowers in *June, July* and *August* and the Fruit is ripe in *August, September*, and *October* -> for there is a Succession of Flowers and Fruit on the same Plant upwards of Three Months.

The Berries of this "Plant are of a malignant nature; and being of a sweet Taste, many Children have been poisoned by eating them *, therefore the Plants should be destroyed before they produce Fruit, in all Places where Children are permitted to walk, to prevent the ill Effect which may otherwise happen. The only safe Remedy against the Poison of these Berries is to drink a large Glass of warm Vinegar, as soon as possible after eating of the Berries, which will prevent then having a bad Effect. The Leaves of this Plant are sometimes used in outward Applications, for Inflammations, or to abate hard Swellings or Tumours ; and some Persons have used them for the Cure of Cancers and scrophulous Diseases.

If the Berries of this Plant are permitted to fall on the Ground, the Seed; will produce Plenty of the Plants the following Spring-, for the following Plant* will to perfect its Seeds, will soon fill the Ground with Plants.

P L A T E LXIII.

BERBERIS, *Tourn. Inst. R. H.* 614. *Tab.* 385. *Rail Meth. Plant.* 154. *Lin. Gen. Plant.* 399. The Barberry Bush. In *French, Epine-vinete.*

THIS Genus is by *Tournefort* ranged in his Second Section of the Twenty-first Class of Plants, intitled, *Trees and Shrubs with a Rose-shaped Flower*, whose Pointal becomes a Berry. Mr. *Ray* places it among his Trees and Shrubs which have Berries with many Seeds, which are not umblicated and Dr. *Linnaeus* ranges it in his Sixth Class of Plants, intitled, *Hexandria Monogynia* -, i. e. Plants whose Flowers have Six Stamina and One Style.

The Species here represented is,

BERBERIS *Dumetorum*, *C. B. P.* 454. The common Barberry or Pipperidge Bush,

This is the *Berberis vulgo qua & Oxyacantha putata*, *J. B.* 1. 52.; and, by *Dodonaus*, is intitled, *Spina acida five Oxyacantho pempt.* 750. Dr. *Unnaus* titles it, *Berberis pedunculata racemosa*, *Mat. Med.* 290. *Sp. Plant.* 330.

This Bush is frequently found growing in the Hedges in several Parts of *England*; though I believe it is not a Native of this Country ; but the Seeds have either been scattered in the Places where they are found growing wild, or the Plants have been removed out of Gardens *, for I have never seen it growing wild in any of the Woods : But wherever any of these Plants happen to grow, they soon propagate very fast, both by Suckers, which are abundantly sent forth from their Roots, as also from Seeds falling, or being scattered by Birds.

It grows to the Height of Six or Eight Feet, with many Stems arising from the Root, and these do branch out on every Side, so as to form a large Shrub or Bush.

The Branches are long and brittle, armed with sharp Thorns at the setting on of the Leaves, which are, for the most part, triple, like the three-thorned *Acacia*. The Bark is white on the Outside, but the inner Bark is of a deep yellow. The Leaves are placed alternately on the Branches, which are oval, their upper Part being blunt and rounded, and neatly indented on their Edges, having a sharp acid Juice. The Flowers are produced in Bunches, like those of Currants; these are Bottle-shaped, spread open at their Brims, and are of a yellow Colour, having Six compressed Stamina, each of them crowned with a double Summit: In the Bottom of the flower is situated a roundish Nectarium, divided into Two Parts. After the Flower is fallen, the Germen becomes a Fruit of an oblong Form, having One Cell, in which are lodged Two hard oblong Seeds. The Flowers are produced in *May*; these have a strong faint Smell; so that where there are many of the Bushes growing, it is very disagreeable for any Person to approach them at that Season. The Fruit is ripe in *September*, when they are brought in Plenty to *London* Markets, and sold for Pickling.

The inner Bark > and the Berries of this Shrub, are used in Medicine. The inner Bark is accounted opening and attenuating, and is esteemed good against the Jaundice, taken either in Infusion or Decoction. The Juice is very cooling and restringent, and good & moisten the Mouth, and quench Thirst in burning Fevers. A Conserve made of the Fruit is serviceable against all Kinds of Fluxes, and is frequently ordered in the Jaundice. The Seeds are also reckoned to have the same Quality, but are seldom used.

The Propagation and Culture of this and the other Species of this Genus, are fully inserted in the *Gardner's Dictionary* *, so I need not repeat them here,



Berberis dumetorum C.R.P. 444

Berberis dumetorum

Berberis dumetorum in the herb. of the Botanic Garden of Cambridge

Berberis dumetorum



BIDENS. calycis albuginis squamosis, fructibus rotatis, involucri non decidui, coronati, & tubi...

Linnaeus del.

Linnaeus sculp.

Published according to an Act of Parliament by C. Miller Junr 1758.



II I ON ON I A'. *luis pennatis microribus foliolo mucronatis suscipitibus inflexis* (la/A) *radicata*

St. Louis de la Riv.

Reprinted according to a list of specimens by St. Louis de la Riv. about 1728.

St. Louis de la Riv.

P L A T E LXIV.

BIDENS, *Cafalp.* 488. *Vourn. infi.R. H.* 462. *tab.* 262. *Lin. Gen. Plant.* 840. *Cannabina aquatica Raii Meth. Plant.* 37. *Verbefina Rivin. Ceratocephalus Vaill Mem. Acad. R. S.* 1720. Water Hemp Agrimony.

mnOurnefort ranges this Genus in his Twelfth Clafs of ^x Plants, with flofculous Flowers, and Seeds without Down ₅ Mr. *Ray* places it in his Eighth Clafs of Plants, which he *fitz* *Corymbifer* flore radiato* ; and Dr. *Lin-n*us* puts it under his Nineteenth Clafs of Plants, intitled *Syngenefia Polygamia tqualis-*, which includes thole Plants, whofe Female and Hermaphrodite Flowers* included in the fame *Involucrum*, are equal

The Species here reprefented is, *p*

BIDENS calyce oblongo fciamofa feminibus radu corolla non deciduo coronatis *Juffieu* <, Water Hemp-Agrimonia, with an oblong fcaly Empalement, whofe tlowers and Empalement are permanent, and never fall away from the Bud. *a₉* (hews the fcaly Empalement, clofely embracing the Flower-bud *5 K* the Rays of the Flower, which are indented at their Extremity; *c*, the Hermaphrodite Flowers, which compofe the Disk; *d₉* One of the Female Flowers, taken out of the hm-palement, to which adheres a tingle Seed ₅ *, One of the Seeds taken out of an Hermaphrodite Flower; *l*, reprefents the fmall Stamina, with their globular Summits.

The Charafters of this Genus are exhibited in the *Gardener's Biflionary*.

The Seeds of this Plant were fent from *Peru* to the Royal Garden at *Paris*, where it has flourifhed a few Years paft, and the Plants have produced Seeds there, which have been communicated to feveral curious Gardens in *Europe*. The Seeds were fent me in the Year 1753; and the following Summer the Plants flowered, and produced good Seeds in the *Cbelfea* Garden. It riles to the Height of Four Feet : The Stalks do become

hard and ligneous, and divide into many Branches; which are garnifhed with oblong fmooth Leaves, which are incire; thefe are placed oppofite by Pairs : At the Extremity of the Branches the Flowers are produced, each Handing fingle upon a Foot-ftalk, which is garnifhed with fmall Leaves, clofe to the Empalement of the Flower. This Empalement is compofed of many Scales, placed *imbricatim*, like the Tiles on an Houfe, and clofely embrace the Flower, which is compofed of a Border of Female Flowers, having each One Leaf (tretched out like a Tongue forming the Ray of the Flower; and in the Centre are many Hermaphrodite Flowers, which are tubulous * and thefe do compofe the Disk of the Flower : Each of thefe have Five flender Stamina, fupporting a globular Summit: In the Centre is placed the Germen, which afterward becomes a fingle oblong Seed. The whole of the Flower continues, and never falls off fo that when the Seeds are ripe, the Rays of the Flower are remaining firm, and only change their Colour; and adhere fo clofely to the Seeds, as to render it difficult to part them. The Flowers when blown are as large as thofe of the common Marygold, and are of a yellow Colour.

The Seeds of this Plant muft be fown upon an Hot-bed in the Spring; and, when the Plants come up, they muft be tranfplanted to another Hot-bed, to bring the Plants forward ; but they muft not be drawn too much, which will render them very weak : therefore when the Weather is favourable, they fhould have a large Share of Air admitted to them. By the Beginning of *June* they fhould be inured to bear the open Air by Degrees, and, about the Middle of that Month, they fhould be tranfplanted, with Balls of Earth to their Roots, fome of them into Pots, and others into warm Borders, fhading them until they have taken Root •, after which Time they will require no farther Care, but to water them in dry Weather. In *July* the Plants will flower, and the Seeds are ripe in *Offober* : But in wet cold Seafons the Seeds will not ripen in *England*, unlefs the Plants are fheltered under Glaffes.

P L A T E LXV.

BIGNONIA, *tourn.InJi.R.H.164.. fab.* 7*^r. *Lin. Gen. Plant.* 67. *Raii Meth. Plant.* 90. *Gelfemmum Cor nut.* The Trumpet-Tree, *vulgo*.

THIS Genus of Plants was eftablifhed feyb[^] *nefort*, who gave it this Title in Honour to the late learned Abbe *Bignoti*, who was principal Librarian, to the King of *France*, and he ranged it in the Third Section of the Firft Clafs of Plants, intitled, *Herbs with an anomalous Flower of One Leaf, fpreading open at their Brijn*. Mr. &? places it in his Nineteenth Clafs of Plants, «*q/** a labiated Flower of One Leaf, which is fucceeded tyrons ; and Dr. *Limunuvats* it in his Fourteenth Clafs of Plants, intitled *Didynamia Angiofermia*, the Flowers of this Clafs having T**o* long and Two fhort Stamina.

The Species here exhibited is,

BIGNONIA foliis finnatis minoribusjdiolis mucronatis marginibus incifis geniculis radicals ; i. e. Trumpet-flower (or *Bignonia*), with fmailer pointed winged Leaves, beino-cut on their Edges* and Roots coming out from the Joints of their Stalks, *a*, reprefents the Flower intire, growing in a Clufter, at the Extremity of the Branch -, *b*, fhews a Flower opened lengthways, with the Two longer and Two fhort Stamina, and the Pointal fituated between the Two long Stamina; *f*, reprefents the Pod, when full grown, and the Seeds ranged *imbricatim*, like Tiles on an Houfe; *d*, a fingle Seed taken out of the Pod, with its Wing adhering to it.

This

This Species is, by Mr. *Gatejly*, titled *Bignonia fraxini foliis, coccineo flore minor e*; i.e. *Bignonia* with *Ash-Leaves*, and a smaller scarlet Flower. He has given a Figure of it, but it wants the Seed-veffel; and the Colour of his Flowers is much more like the larger Sort, which Dr. *Tournefort* titles *Bignonia Americana fraxini folio, flore amplo Phœnicio*, *Injl. R. H. i64*. This last has been many Years an Inhabitant in molt of the curious Gardens in *Europe* but was brought from *Norlh America*, where it grows naturally in the Woods, fattening its Branches to the tall Trees, by the Roots which are sent forth at the Joints, whereby they are supported, and mount up to the Top of the highest Trees. And when they are planted near Walls, the Roots will fasten themselves into the Joints of the Wall, and, where they have room, will rife to the Height of Fifty or Sixty Feet. This larger Sort is figured by *Cornutus, Ferarins*, and several other Botanists, by the Title of *xjelfeminum Hederae Indicum*, from the Resemblance of its Flowers to those of the *Jasmine*; and the *French* do now call it *Jafmin de Virginie* but in *England* it is generally known by the Title of *Trumpet-flower*, or *Mexiccite*.

The Plant here figured is, by many Botanists, supposed to be only a Variety of the larger Sort, but all the Plants of this Sort which have been raised from Seeds in the *Englijh* Gardens, for several Years past, do retain their Difference, so they may be allowed to be distinct Species. There are Two old Plants in the *Chelfea* Garden, One of each Sort, which have grown near each other above Fifty Years, and do constantly produce Flowers every Year, which are remarkably different in their Size and Colour, as also in the Size and Shape of their Leaves, but it is of late Years that this Sort has been much propagated in the *Englijh* Gardens. The Seeds of it were sent from *Carolina* in 1724 by Mr. *Catejby*, from which many Plants were raised; and since that Time the Seeds have been frequently sent to *England* from that Country, and great Numbers of Plants have been raised in the Gardens; but the Plants which have been raised from Seeds are several Years before they flower, and are not near so productive of them as those Plants which are propagated by Suckers, or Cuttings from old Trees.

P L A T E LXVI

BISTORTA, *Tourn. Injl. R. H. 511. Tab. 291. Raii Meth. Plant. 22. Polygonum, Lin. Gen. Plant. 445.* Biftort, or Snake-weed.

THIS Genus of Plants is by *Tournefort* ranged in his Fifteenth Class, intitled, *Herbs with jamineous Flowers, whose Pointal becomes the Seed, wrapped in the Empalement*: Mr. *Ray* places it in his Fifth Class of Plants, with *jamineous Flowers, which are succeeded by Seeds*; Dr. *Linnaeus* places it in the Third Division of his Eighth Class of Plants, intitled *Qtandria Trigynia** the Flowers having Eight Stamina and Three Styles; and he joins this, the *Perficaria, Fagopyrim*, and *Helxifie*, of his former Edition, to the Genus of *Polygonum*^ making these only Species of that Genus.

The Species here represented is,

BISTORTA major radice minus intorta, C. B. P. 192. The greater Biftort, or Snake-weed, *a*, represents the Flowers as they grow in a clofe Spike, *b*, is a fingle Flower taken from the Spike, which flies they have no Empalement, so the Corol of the Flower afterward clofely furrounds the Seed.

This is the *Bijiorta major vulgaris* of *Parkinson* and *Gerard*; by *John Bauhin* it is titled *Bijiorta major rugofloribus fclis, hiji. 3. 538.*; and Dr. *Linnaeus* titles it, *Polygonum caule fimplitijimo monajiachyo, Jo I Us ovatis in petiolum decurrentibus, Mat. Med. 188. Spe. Plant. 360.*

This Plant grows naturally in moist Meadows, in several Parts of *England*, particularly in *Torkfhire*, and ibme of the Northern Counties. It is found in pretty great Plenty in *Batterjea* Meadows, near the River-side, which is the only Place so near *London* where I have ob-

erved it growing,rally. The usual Time of its flowering is in *May* and *June*; though, when the Autumn proves moist and favourable, it frequently flowers again in *September* and *October*, but especially if the Meadows are mowed for Hay, and the Stalks and Leaves of the Plants are cut pretty near the Ground, then they put out new Leaves and Stalks from the Roots, and these produce a fresh Succession of Flowers in the Autumn: And where any of these Plants are preserved in Gardens, if the Stems are cut down as soon as the Flowers are past in Summer, they will push out fresh Stalks soon after, if they grow in moist Ground, or are duly watered, and these will have Plenty of Flowers in the Autumn; when these Plants will make as good an Appearance in a Garden, as many other Plants which are allowed to have a Place there.

It propagates greatly by its running Roots; so that when it is once allowed a Place in the Garden, it will soon multiply fast enough. The Leaves and Stalks decay in Winter, and the Roots put out new early in the Spring.

The Roots of Biftort are used in Medicine, which are drying and binding, so are esteemed to be of Service in all Kinds of Fluxes and Hemorrhages, either from the Bowels, or in any other Part. They are also *exhiber mic, and good in peffential Fevers. They re_n fon, and the Bite or Sting of venomous Creatures.

These Roots have also been used for tanning of other, for which Purpose Rewards have been & *? Perfons by way of Encouragement; but the great Quantity of Roots which would be required for this Purpose in order to supply the Want of Oak-Bark, is more than can be procured growing wild, and I fear it will never answer the Expectance of cultivating it, as the Oak-tree can be had in Plenty in moist Parts of *England*.



INDIA MAI OB. *Andropogon squarrosus*, Willd. & A. S. If 2

Del. & Sculp. G. S. G.

Published according to the original by P. de la Roche, 1786.



BLATI \ IJ V *alba* C. B. P. 244.

A. G. G. G. G.

Published according to an Act of Parliament by P. Miller. London, 1726.

A. G. G. G. G.

Π Π Κ Χ Μ. Ι. Constantinopolitana flore
ref. V. r. corubus calyce variis et can. b.



G. B. Smith pinxit

Rehensit according to the sketch of P. Miller Tab. 42. Fig. 26

J. J. Goussier sculp.

P L A T E LXVII

BLATTARIA, *Tourn. Inft. R. H. H7- 9**.* ^{61.} *Itsi*
Meth. Plant. 85. Verbaſcum, Lin. Gen. Plant. 217.
 Moth Mullein ; in French, *Herbe aux mites.*

TOURNEFORT ranges this Genus in his Second Clafs of Plants, intituled, *Herbs with a Wheel-floaped Flower of One Leaf whoſe Pointal turns to a dry Fruit.* Mr. Ray places it in his Nineteenth Clafs of Plants, *whoſe Flowers are uniform, monopetalous, and are ſucceeded by dry Capſules.* Dr. Linnaeus puts it in his Fifth Clafs of Plants, intituled, *Pentandria Monogynia*, the Flower having Five Stamina, and One Germen. Doctor Tournefort, Mr. Ray, and ſome other Botanifts, have ſeparated the Plants of this Genus from the *Verbaſcum*, or Common Mullein, on account of their Seed-veffels being round, whereas thoſe of *Verbaſcum* are oblong, ending in a Point.

The Species here repreſented is,

BLATTARIA *alba*, C. B. P. 241. White Moth Mullein. *a*, repreſents the Plant before it ſhoots out the Flower-ſtem •, *b*, the long Spike of Flowers ; *c*, the ſingle Flower, taken from the Spike, ſhewing the Five Stamina, and the ſingle Stylus, as alſo how the Flower is joined at the Baſe, ſo as to fall off intire, though it is cut into Five Parts almoſt to the Bottom, *d*, repreſents an intire Seed-veffel; *e*, the ſame cut through horizontally, ſhewing the intermediate Partition which divides it into Two Cells; *f* the Seeds taken out of the Capſule.

This Plant is, by Lobel, titled, *Blattaria fore albo, perperam verbaſcum femina vulgb.* *Icon. 563.* and by John Bauhin, Parkinson, and others, *Blattaria flore albo*, i. e. Moth Mullein, with a white Flower. There are Two other Varieties of this Plant, one with a Roſe-coloured Flower, and the other with a worn-out purple Flower; but theſe are accidental Varieties which do vary, and are not conſtant. This with white Flowers often pro-

duces Roſe-coloured Flowers; and the Seeds of the Roſe-colour ſometimes produce Plants with the purple Flowers. Theſe are biennial Plants, which periffiſh ſoon after they have perfe&ed their Seeds. The Plants very rarely ſhoot up their Flower-ſtems the Firſt Year, but ſpread their Leaves cloſe upon the Surface of the Ground, in the manner repreſented in the Figure j and the Spring following the Flower-ſtem is put forth from the Center of the Plant, which riſes to the Height: of Three or Four Feet, according to the Goodneſs of the Soil wherein they grow. The Flowers are produced almoſt the whole Length of the Stem, at every Joint; One or Two coming out from the Wings of the Leaves, and theſe ſucceed each other, ſo that the ſame Stem will be garniſhed with Flowers upwards of Two Months. The uſual Time of their Flowering is in *June, July,* and *Auguſti* and their Seeds ripen in *October*; which, if permitted to fall on the Ground, will grow much better than if ſown, eſpecially if they are not ſown in Autumn, ſoon after are ripe; for the Seeds ſown in the Spring do often fail, or frequently remain till the following Autumn before they grow.

Doctor Tournefort enumerates Fifteen Varieties of this Genus, Eleven of which are undoubtedly diſtinct Species, ſeveral of them having perennial Roots, and ſome have perennial Stalks ; but they are alſo as different in the Form of their Leaves as moſt other Species of Plants of the ſame Genus; ſo ſhould not be confounded as they are by Doſtor Linnaeus, in his Species of Plants, where he enumerates only the common yellow Moth Mullein, and ſuppoſes all the others to be but feminal Varieties; whereas many of them, which I have cultivated above Thirty Years, have always retained their Difference when raiſed from Seeds. All the Species of this Genus are hardy •, and if they are ſown upon poor Land, and in Rubbiſh, or happen to grow upon old Walls, they will refill the greateſt Cold of this Country -, but in a rich moiſt Soil they often rot in Winter.

P L A T E LXVIII.

BORRAGO, *Toirn. Inft. R. H. 133. Tab. 53: Borago Raii Meth. Plant. §6. Lin. Gen. Plant, 172.* Borage j in French, *Bourrache.*

THIS Genus of Plant is, by Do&or Tournefort, ranged in the Fourth Section of his Second Clafs, intituled, *Herbs with a Funnel or Wheel-ſhaped Flower of One Leaf whoſe Pointal is attended by Four Embryos, which afterward become ſo many Seeds inchſed in the Flower-cup.* Mr. Ray places this Genus in his Thirteenth Clafs of Plants, intituled, *Herbs with rough or prickly Leaves, whoſe Flowers are ſucceeded by Four naked Seeds:* And Doctor Linnaeus ranges it in his Fifth Clafs of Plants, intituled, *Pentandria Monogynia*, from the Flower having Five Stamina, and One Stylus.

The Species here repreſented is,

BORRAGO *Conſtantinopolitana, flore reflexo caruleo, calyce veficaria, Tourn. Cor. 6. i. e.* Borage of Conſtantinople,
 NUMB. XII.

with a blue Flower, whoſe Petals are reflexed, and a ſwelling Empalement. This Plant is, by Doſtor Linnaeus, titled, *Borago calycibus tubo corolla brevioribus, foliis cordatis, Hort. Cliff. 45. u e.* Borage with an Empalement ſhorter than the Tube of the Flower, and Heart-ſhaped Leaves. *a* <, repreſents a ſingle Flower, drawn but of the Empalement, and reverſed to ſhew the Tube; *b*, repreſents the Empalement, with the Pointal ariſing from the Baſe, between the Four Embryo's, and itretched Out beyond the Empalement ; *c*, ſhews the Five Stamina, connected at their Summits v/ith the Pointal.

This Plant hath a perennial Roſt, which ſpreads and increaſes very much when it is planted in a light dry Soil •, and if it has a warm Situation, it will live in the open Air without any Cover : But as it is a very early Shooter in the Spring, generally flowering in *February*, in mild Seaſons, ſo when it happens to prove Froſt in *March*, the Flower-ſtems are frequently killed, where
 N they

they grow in an open Exposure; but near the Shelter of Walls, or other Fences, they are seldom injured; for I have had them growing some Years in a North Border, where the Sun never appears in Winter; and even there the Plants have thriven well: But these rarely flowered with me so well as those which were in a warmer Situation.

The Flower-stems rise near Two Feet high, but many of the Flowers begin to open before it is Six Inches from the Ground; for the Flowers, at their first Appearance, are collected into a close Spike; but as the Stem advances in Height, the smaller Flower-stalks branch out into a diffused Spike. These come out alternately from the main Stem, and have each a single Leaf growing at their Base. The Flowers all hang downward, and the Corol is reflexed black, somewhat like those of the *Cyclamen*, or Sow-bread. These are of

a pale blue Colour* having their Stamina and Pointal connected together at their Summits, which is One of the Characters of this Genus. There are Four Embryos, situated at the Bottom of the Impalement, which become so many naked Seeds; but these seldom ripen in England, but the Plant increases abundantly, by its creeping fleshy Root.

As the common Borage is a Plant well known to most Persons, we have omitted giving the Figure of that Plant, and have made choice of this, to explain the Characters of the Genus.

Doctor Tournefort found this Plant growing naturally near Constantinople, from whence he sent the Seeds to the Royal Garden at Paris \ where they succeeded, and from thence many curious Gardens have been furnished with the Plant.

P L A T E LXIX.

BROWALLIA, *Lin. Gen. Plant.* 691. *Baku Dist. Hort. Hort. Chel. bid.* 67. *AEL. Phil. n.* 452. p. 2. We have no English Title for this Plant.

Doctor Linnaeus ranges this Genus in his Fourteenth Class of Plants, intitled, *Didynamia Angiosperma*, from the Flower having Two long and Two short Stamina, and many Seeds inclosed in One Capsule. According to Tournefort's Method, it should be placed in the Fourth Section of his Third Class of Plants, intitled, *Herbs with an anomalous and perforated Flower of One Leaf*: And it will come into Mr. Ray's Nineteenth Class of Plants, with an irregular difform Flower of One Leaf.

The Characters are;

It hath an irregular Funnel-shaped Flower of One Leaf, with a cylindrical Tube, stretched out a good Length beyond the Impalement, as at a; the upper Part (or Limb) of the Flower b, is spread open, and deeply divided into Five Parts, each of which is again cut into Two shorter Segments, which are round, the Two upper Segments being a little broader than the lower. From the Bottom of the Tube arise the Two long Stamina, which are broad and reflexed, as at C; and the Two shorter d*, which do not extend beyond the Tube of the Flower. In the Center is situated an oval Germen, supporting a slender Stylus. The Germen afterward becomes an oval Capsule, filled with small naked Seeds.*

The Species here represented is,

BROWALLIA foliis lanceolatis petiolis longis, caule ramofo, radice annua; i. e. Browallia with Spear-shaped Leaves, with long Footstalks, a branching Stalk, and an annual Root.

This Species differs from that which is figured in the Clifford Garden, the Leaves being broader, and toward the upper Part of the Stalk they are placed op-

posite. The Plants were brought from Peru, when the first Sort grows naturally, and were sent me from the curious Garden of Duke D'Ayen at *Bu German*, which have succeeded the Two last Years in the *Chelsea* Garden. The other Sort, which is figured in the Clifford Garden, was sent to England by Mr. Robert Millar, from *Panama*, in the Year 1735; which succeeded in the *Chelsea* Garden, where it has continued to flower, and produce Seeds every Year; but the Plants of both Sorts perish in Autumn, so that the Seed must be sown upon a Hot-bed in the Spring, and the Plants brought forward on another*, otherwise they will not perfect their Seeds in England. The Plants usually grow about Two Feet high, and spread out into many Branches on every Side the Stalk; These are garnished with Leaves of the same Shape with those on the main Stem, but are much smaller. Toward the End of these Branches the Flowers are produced singly, upon long Footstalks, arising from the Wing of the Leaf. Each Flower has a (short Impalement of One Leaf, which is cut into Five Parts: Out of the Center of the Impalement the Flower arises, which is crooked and bent downward. The Top of the Tube is spread open, and the Brim, or open Part of the Flower, has some Resemblance to a lipped Flower, being irregular: It is of a bright blue Colour, sometimes inclining to a purple: When the Germen is far away, the Germen in the Center becomes a single Cell of One Cell, filled with small brown ingnariarceds. The flowers in July, August, and September, and the Seeds are ripe in Five or Six Weeks after.

When this Plant was first raised in the *Chelsea* Garden, I gave it the Title of *Balea*, in Honour to Mr. Zwart, an eminent Botanist, and a great Friend of Mr. Ray's. By this Title it was delivered to the Royal Society, and printed in *Tranfajtio*, and alio in the Catalogue of the *Chelsea* Garden: And by the same I communicated the Seeds to Doctor Linnæus, who afterward changed the Name to *Browallia*, and printed it in the Catalogue of Mr. Clifford's Garden; so that this latter Title is become universal amongst Botanists.



Handwritten notes in the upper right corner, possibly identifying the plant or its source.

Handwritten text at the bottom left, possibly a reference or collection number.

#.L.,,.,, del.

Handwritten text at the bottom center, likely a date or location: "Litho. according to - list of - specimens by G. Miller Feb 22. 1766."

Handwritten text at the bottom right, possibly a signature or artist's name.



Fig. 1.

Fig. 2.

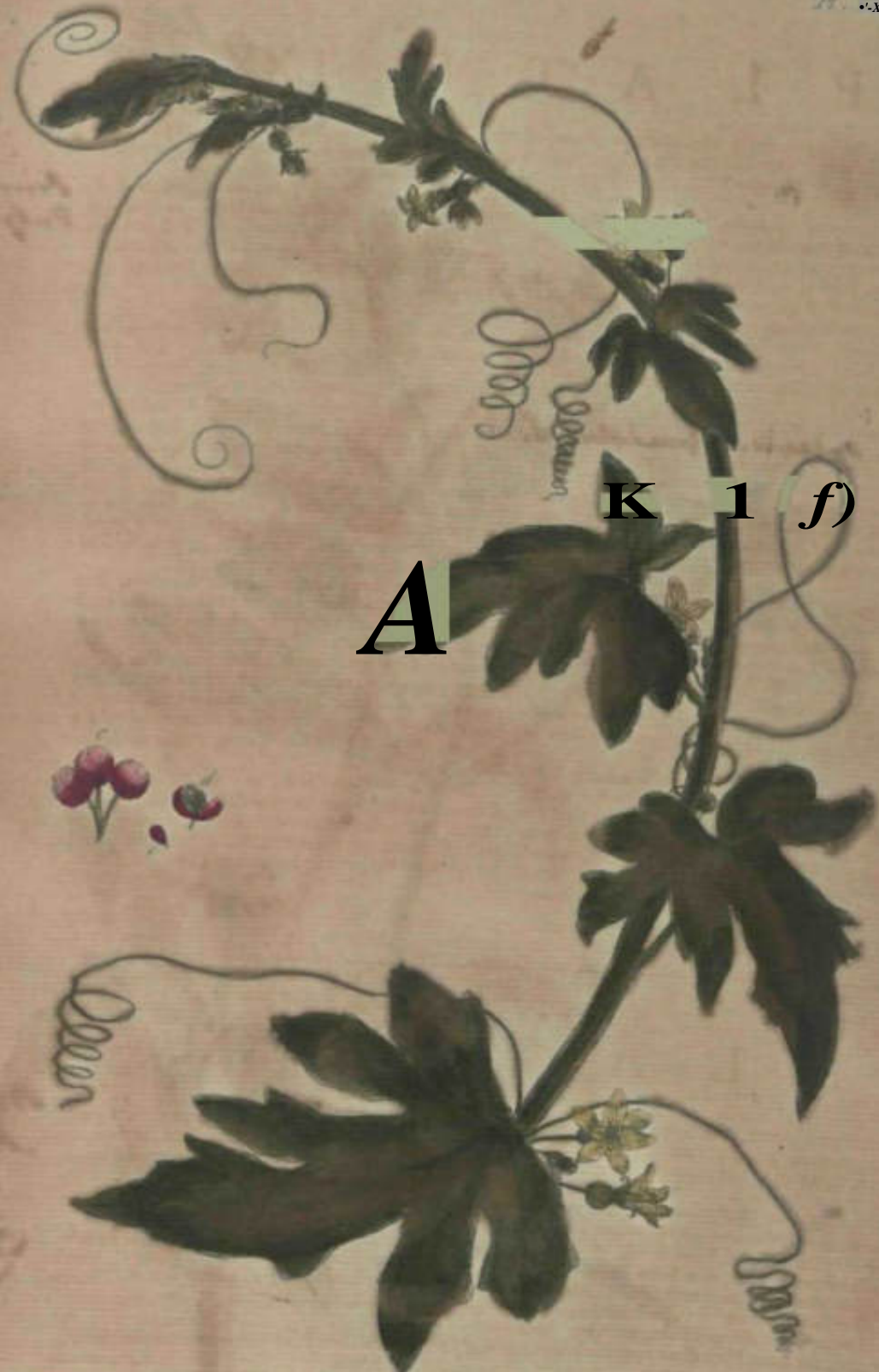
VINELLA odorata Lupinus spec. violaceo Desv. Journ. Bot. Soc. Lond. 1827.

J. L. Smith del.

Published according to an Act of Parliament by J. L. Smith January 24 1828.

J. L. Smith sculp.





A K 1 f)

BRYONIA *crepea* fere *alba* Linn. *rubra* C. DC. *sp.* 237.

B. crepea DC.

Illustration according to a list of specimens by P. Miller, January 18, 1798.

W. Miller del.

P L A T E LXX.

BRUNELLA, *Tourn. Injl. R. H. 182. Tab. 84. Prunella Rait Meth. Plant. 62. Lin. Gen. Plant. 654. Self-Heal; in French, Brunelle.*

THIS Genus is, by Do&or *Tournefort*, ranged in his Fourth Clafs of Plants, intituled, *Herbs with a Lip-flower of One Leafy whose upper Lip is crested, or woked*. Mr. *Ray* places it in his Fourteenth Clafs of Plants, whose Flowers grow in Whorls round the stalks. Do&or *Linnaeus* ranges it in his Fourteenth Clafs, intituled, *Vidynamia Gymnofermia*, from the blowers of this Clafs having Two long and Two fhort lamina, and being fucceeded by Four naked Seeds.

The Species here represented are*

FIG. 1. *BRUNELLA odorata Lufitanica, flore Diölaceo, Barrel* Icon. 561. i.e. Portugal fweet-fcented Self-heal, with a violet Flower. a, represents the Flower intire, with its Empalement; b, the Two longer; and ^ the Two fhort Stamina; d, the Seeds taken out of the Empalement.*

This Plant is, by Do&or *Tournefort*, titled, *Clinopodium Lufitanicum fpicatum &? verticillatum, Injl. R. H. 195** and by *Cornutus Bugula odorata Lufitanica, H. Canad. 46.* Do&or *Linnaeus* titles it, *Prunella brafteis pinatodentatis ciliatis, L*fl. def. 31. Sp. Plant. 601.* This Genus is by fome Botanifts titled *Prunella*, and by others *Brunella*; and by the fame Authors the Titles are indifferently ufed; but the Difpenfaries generally have it *Prunella*.

This Plant is annual, perishing as foon as the Seeds *¹ ripe; and if the Seeds are permitted to fcatter, the Plants will come up in the Autumn, and live thro* the Winter; fo will flower earlier the next Summer than thofe which are fown in the Spring. The Plants will require no other Care but to be kept clean from Weeds, and to be thinned, if they ftand too near each other.

They flower in *June*^ and the Seeds are ripe in *Auguft* and *September*. It grows naturally in *Spain* and *Portugal*.

FIG. 2. *BRUNELLA major, folio fton diftefto, C. 5, P. Greater Self-heal, with an intire Leaf. a, represents the Flower. This is the Prunella vulgaris, or Common Self-heal, of Storkinfon and Gerard. The Characters of this Plant are exhibited in the Gardener's DiSionary.*

This Plant grows wild in the Meadows in moil Parts of *England*, and flowers in *June* and *July*. This is the Species which is ufed in Medicine; fo we have exhibited a Figure of it. It is much ufed as a vulnerary Herb, and is brought from *Switzerland*, with feveral others, under the general Appellation of Wound-Herbs. - The Leaves and Flowers of this Plant are ufed; fo the beft Time for gathering of this Herb is when it is in full Flower. It is precribed in *Ptifans*, in *Broths*, and in *Apoxems*, for Spitting of Blood, and for the Bloody-flux, and for all Sorts of *Hemorrhages*, or *Fluxes of Blood*. It is ufed by way of *Injection* in deep Wounds, and by way of *Clyfter* in the *Bloody-flux*.

As this Sort grows naturally in the Meadows* it is not admitted into Gardens *; but whoever hath a mind to cultivate it, fhould fow the Seeds foon after they are ripe, when the Plants will come up much better than when the Seeds are fown in the Spring. The Plants are very hardy* fo require no other Care but to keep them clear from large Weeds. They feldom continue longer than I¹ wo Years; but the Seeds being permitted to fcatter, furnilh Plenty of young Plants to fupply their Place.

There is another Species of this Plant with cut Leaves; but this is not fo common in *England* as the former, but in many Parts of *France* and *Germany*. It is the moft commonly found wild, and is indifferently ufed for the fame Purpofes as our common Sort.

P L A T E LXXI.

BRYONIA, *Tourn. Injl. R. H. 102. Tab. 28. Bryonia alba, RaitMeth. 72. Lin. Gen. Plant. 970. White Briony, or White Vine; in French, Coleuvrée.*

THIS Genius is, by Doctor *Tournefort*, ranged in the Seventh S&ction of his Firft Clafs of Plants, intituled, *Herbs with a Bell-Jhaped Flower of One Leaf, whose Empalement turns to a flefhy Fruit, or Berry.* Mr. *Ray* places it in his Seventeenth Clafs of Plants, intituled, *Berry-bearing Herbs*; and Do&or *Linnaeus* places it in his Twenty-firft Clafs of Plants, intituled, *Monocotyledonea*; the fame Plant producing Male and Female Flowers.

The Species here represented is,

BRYONIA *offera, five alba, baccis rubris, C. B. P. 397.* common white Briony, with red Berries, or white Vine.

FIG. 1. *Bryonia officinalis, Bauhin titled, Vitis alba, five Bryonia, J. 1. 14. ^ £)o&or Linnaeus titles it, Bryonia foliis pal-*

matis Utrunque callofo-fcabris, Hort. Cliff. 453. in French, Coleuvrée, ou Vigne blanche. It is called white from the Colour of the Root, to diftinguifh it from the *Tamnus*, which in the Difpenfaries is titled, *Black Briony*; the outer Skin of the Root being of a dark Colour.

a, represents the male Flower, ftanding on the Pedicle; b, the female Flower, refting on the Embryo, which afterwards becomes a Berry, represented at c, which is intire; d > the fame cut open; e, the Seed.

The Roots of this Plant run deep into the Ground, and grow to a large Size. Thefe have been reduced to an human Shape, by fixing a Mould (fuch as is ufed by the Image-makers to form their plaifter Figures) to the Roots when young, leaving them growing in the Ground; and, if the Mould is not too large, the Root will grow to fill it in One Year, and be of die intended Form. And then they dig up the Roots carefully, with all their Fibres, and exhibit them to View for *Mandrakes*, and have thereby impofed* upon ignorant Perfons.

The

The white Briony has been generally supposed to be male and female in different Plants; for in many Plants the Flowers have been all male, and in others mostly female: But I have observed that several Plants, which I cultivated in different Parts of the Garden, were of differing Sexes while young; but the Plants which produced only male Flowers, the Two first Years of flowering, afterward had Flowers of both Sexes; but the Number of female Flowers the first Year was small, but as the Plants grew older, they became more fruitful, and the same I have observed in the *Mulberry*, and some other Trees, which produce Flowers of both Sexes.

This Plant grows naturally on the Sides of Banks, and under Hedges, in most Parts of *England*. The young Shoots begin to appear in *March*, these put out Tendrils, which fasten to the Branches of whatever Bushes grow near them, whereby they rise to the Height of *Seven* or *Eight* Feet, their pliant Shoots

intermixing with the Branches of the Hedges, so are supported from trailing on the Ground. The Flowers come out at the Wings of the Leaves, Two or Three upon each Footstalk. These open in *May*, and are of a whitish-green Colour, being cut into Five Parts almost to the Bottom. The female Flowers rest on the Embryo; which afterward becomes a globular Berry, turning to a bright red Colour, when ripe, which is in the Autumn, when they hang down from the Hedges in small Clusters.

The Roots, Shoots, Leaves, and Berries, of this Plant are used in Medicine, and are esteemed good to remove obstinate Obstructions, being powerfully purgative. The best Season to take up the Roots for use is in the Autumn, as soon as the Shoots decay; but the Leaves and Shoots are best for Use in the Spring, when they abound with Juice.

P L A T E LXXII.

BUGLOSSUM, *Tourn. Inji. R. H. 133. Tab. 53. Raii Meth. Plant. 56. Anchufa, Lin. Gen. Plant. 167.* Buglosses; in French, *Buglofe*.

THIS Genus is, by Doctor *Tournefort*, ranged in the Fourth Section of his Second Class of Plants, intitled, *Herbs with a Funnel-shaped Flower, having Four Embryo's seated round the Pointal, which afterward become many Seeds wrapped in the Emplacement of the Flower*. Mr. *Ray* places it in his Thirteenth Class of Plants, which he titles, *Herbs with rough Leaves, having Four naked Seeds succeeding each Flower*. Doctor *Linnaeus* has altered the Title of this Genus to *Anchufa*; which Name was applied to One Species of this Genus with red Roots, and by the Title of *Anchufa* has been long known in all the Dispensaries. And Mr. *Ray* thought the Character of its red Roots sufficient to establish a distinct Genus, so he has on that Account separated it from *Buglossum*. This comes into Doctor *Linnaeus's* Fifth Class of Plants, intitled, *Pentandria Monogynia*; the Flower having Five Stamina, and One Stylus.

The Species here represented is,

BUGLOSSUM *angustifolium majus, fore caruleo, C. B. P. 256.* Greater narrow-leav'd Garden Buglosses, with a blue Flower, *a*, represents a single Flower, with its Tube at full Length -, *b*, shews the Front of the Flower depressed, and spread open; *c*, the Emplacement of the Flower; *i*, a Seed taken out of the Emplacement.

This is the *Buglossum vulgare majus, J. B. 3. 574.* and the *Buglossum angustifolium, Lob. 576.* commonly called Garden Buglosses, to distinguish it from the annual Wild Buglosses; and I believe the Plant here figured

the Two Allowing, which are in *Tournefort's Corollarium*; viz. *Bugla, Jun orientalis angustifolium altissimum, and Buglossum vici* - *ale angustifolium, fore parvum ruleo* -, for I have frequently referred by both these Titles, which have always been common Garden Buglosses, so that if those are distinct Species, I have not had the good Fortune to see them. There is also a Variety of this than the Colour of the Flower, so it is scarce worthy being mentioned.

it will continue some Years, when it is in full bloom, but in rich moist Ground it seldom lasts more than one or two Years: For when the Plants are young, they are complete with their first Year, and are ready to flower in Winter. These Plants are of several Stems, according to the Age or Strength of their Roots, which rise about two Feet high, and are of a narrow Tube, which are divided into three or four Parts, which divide into three or four tubulous stalks, which are blue monoptalous tubulous stalks, growing in a loose Spike for the most part. These are the Seeds, which are produced about a Month after the flowers fall away. It grows wild in *Italy, Spain, in the South of France, J. Gennary*.

The Flowers of this Plant are One of the Four Corollated Flowers, and are sometimes used in Medicine, and are supposed to have the same Virtue as the other Species, and are good to cure the Dropsy, and to drive away Melancholy.



HYGLOSSUM angustifolium majus flore caeruleo C. B. 1753

H. angustifolium

Illustrated according to the original in the Herbarium of the University of Padua

Hyglossum

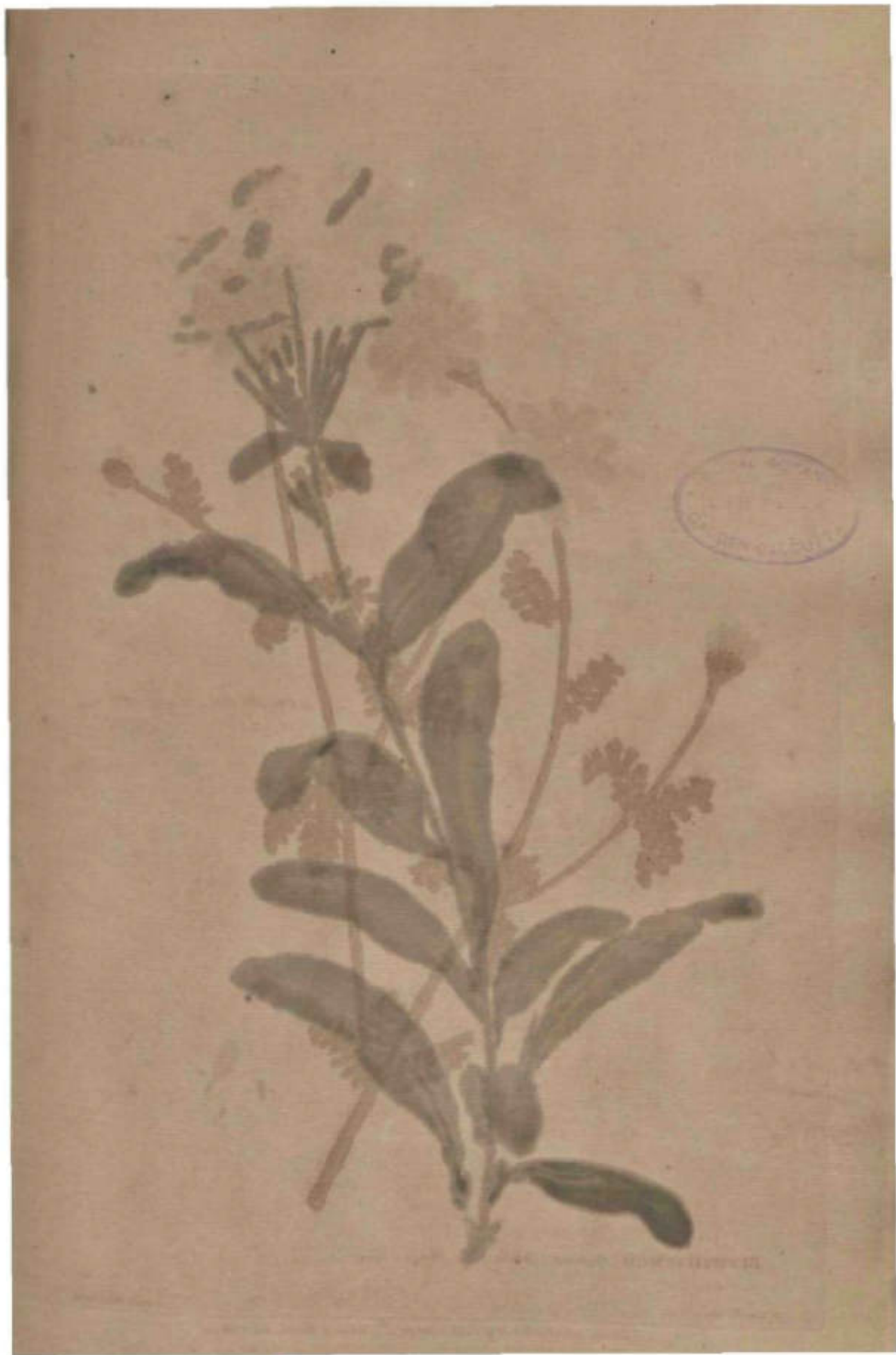


BUPHTHALMUM *Gravicomis* *Crotale folia* *Boiss.* *Cent. 3.*

W. Savatieri del.

J&U according to a brief Description by Mr. Miller in *March. 20. 1786.*

J. Miller sculp.





Faint handwritten notes in the upper left corner.

Calandula Hybrid.

Faint handwritten notes in the middle left.

Faint handwritten notes in the lower left.

Small handwritten marks or initials.

BUPLEURUM, albiflorum, latius folio. Hoff. B. H. 210.

Handwritten note below the main title.

Handwritten text at the bottom center, possibly a date or location.

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P L A T E LXXIII.

SUPHTHALMUM, C. B. P. 134. J. B. 3. 124. *Chrysanthemum* Cluf. Hift. 332. *Cotula Tcorn. Inft. R. H. 495.* Tab. 282. *Anthemis Lin. Gen.* 870. Ox-eye; in French* *Oeil de Bœuf.*

DOCTOR *Tournefort* ranges this Genus in the Third Section of his Fourteenth Clafs of Plants, intituled, *Herbs with a radiated Flower, whose Seeds have no Down adhering to them.* Mr. *Ray* joins this Genus to *Chrysanthemum*, and places it in his Seventh Clafs of Plants with a corymbiferous radiated Flower. And *Dodor Linnaeus* ranges it in his Nineteenth Clafs of Plants, joining this with the *Chamamdam* of *Tournefort*.

This Species here represented is,

BUPHTHALMUM *Creticum Cotul* folio, flore luteo, Breyn.* Cent. 1. True Ox-eye, with a Leaf like (linking May-weed, and a yellow Flower.

Of this there are Two Varieties; one with yellow, and another with white Flowers; which are both mentioned by *Do&or Breynius*. There is also a Third, with naked Flowers, having no Rays, which is, by *Do&or Linnaeus*, placed in his Genus of *Anacyclus*. But all these Varieties will arise from the Seeds of the same Plant, as I have many Years observed; and often the Flowers with Rays, and the naked Flowers, have been on the same Branch; so they may truly be made but One sort. These Plants do not only vary in their Flowers, but the Leaves also are different, some being finely divided, and the others having broader Sides; and this is frequent, from the

Flowers, and whose Leaves are not so finely divided as those of the white, and is supposed to be the true medicinal Ox-eye.

a, represents the Bud of the Flower, (hewing the scaly Empalement \ *b* > the Outside of the Flower, when open; *c*, the Rays of the Flower fully expanded; *d* > one of the Half-Florets, or Rays, taken out of the Flower; *e*, one of the Seeds fitting on the Placenta; *l*, a single Seed separated from it.

This is an annual Plant, which perishes soon after the Seeds are ripe -> and if the Seeds are permitted to fester, the Plants will come up in the Autumn -, and unless the Winter proves very severe, will live in the open Air; and these will come much earlier to Flower than those which are sown in the Spring, and will grow much larger. Their usual Time of flowering is in *July* and *August*, though there will be some few Flowers succeed those till the End of *September*. The Seeds ripen in about Five or Six Weeks after the Flowers decay. The Plants grow to the Height of Two Feet; and if they are allowed room, do spread out into many lateral Branches, especially in good Land.

This Plant has been continued in most of the Dispensaries for many Ages, and is supposed to be the same which *Dioscorides* recommends, as good for the Jaundice* and to restore the Skin to a good Colour. But of late Years it has been entirely disused in the Shops; and whenever Ox-eye has been ordered, the Greater Ox-eye Daisy has been used. It grows naturally in *Spain* and *Portugal*, from whence I have received the Seeds.

P L A T E LXXIV.

BUPLEURUM, *Tourn. Injl. R. H. 309. Tab. 163. Lin. Gen. Plant. 291. Sefeli, C. B. P. 161. J. B. 3. 2.197. Dod. Pempt. 312.* Harevear.

DOCTOR *Tournefort* ranges this Genus of Plants in his Seventh Clafs, intituled, *Herbs and Under-Shrubs with a Flower of several Leaves which expand in Form of a Rose and grow in an Umbel.* Mr. *Ray* places it under the Title of *Sefeli Aethiopicum frutex*, in the Fourteenth Section of his Eleventh Clafs of Plants which contains the umbelliferous Plants, with simple Leaves; and *Dodor Linnaeus* ranges it in his Fifth Clafs of Plants, intituled, *Pentandria Digynia*; the Flower having Five Stamina, and a double Stylus. The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented is,

BUPLEURUM *arborescens, falcis folio, Inft. R. H. R. 310.* Tree Harevear with a Willow Leaf, *a*, represents an entire Flower, taken from the Umbel, hewing its Empalement; *b*, (hews the Front of the Flower ex-

panded, which *h* divided into Five Leaves -, *c*, represents the Seeds. This is, by *Caspar Bauhin* titled *Sefeli /Ethiopicum falcis folio* Pin. 161. and by *John Baubitt*, *Sefeli Mthiopicum fruticosum folio Periclymeni*, Hift. 3* P. 2. 197. By *hodonkus* it is titled, *Sefeli Mthiopicum frutex-t Pempt. 312.* Shrubby Hartwort of *Mtbiopia** By this last Title it is generally known in the Nurseries near *London*. *Doftor Linnaeus*, in his *Species of Plants*, titles it, *Bupleurum frutescens, foliis chovatis integerrimis*, p. 238.

This is an Evergreen Shrub, which will rise to the Height of Five or Six Feet, and divides into many lateral Branches; and may be reduced to a regular Head, by pruning off the lower Branches, so as to make it rise to have a Stem. The Branches are well garnished with oblong, smooth, shining, green Leaves, of a pale soft Colour. These remain through the Year, which renders this Shrub very beautiful in the Winter Season; for as the Branches grow pretty close together; and are furnished with Leaves their whole Length, so it forms an handsome Shrub. The Leaves are placed alternately

on the Branches, and are Four Inches long, and near One broad in the Middle. The Flowers are produced in Umbels, at the Extremity of every Branch \ these are composed of Five narrow Petals, which are of a yellow Colour at first, but fade away to a brown. These are succeeded each by Two long, narrow, striated Seeds, which rarely come to Maturity in *England*. The Time of its Flowering is in *July* and *August*.

This Plant grows naturally in the Southern Parts of *France*, and in *Italy*, and generally along the Coast near the Sea, upon* Rocks. It has been long an Inhabitant in some of the *English* Gardens, where it was, for many Years, preferred in Pots, and placed in Greenhouses in Winter, supposing it was too tender to live abroad in *England*. But of late Years it has been much propagated by the Nurseries Gardeners near *London*, and is become a com-

mon Shrub in most of their Gardens; where it resists the Cold of the severe Winters, provided it is planted on a dry Soil; and if the Bottom is a Gravel, Stone, or Chalk, with a Foot of Earth thereon, it will prevent the Roots from running deep in the Ground; whereby the Plants will be more fortified in their Growth, so will be hardier to resist the Cold, and of longer Duration, than those which have a rich deep Soil.

The Method of propagating this Shrub being inferred in the *Gardener's Dictionary*, I shall not repeat it here.

The Seeds of this Shrub are much more acrid, and of a stronger Smell, than those of *Marfeilles Hart* therefore some Physicians suppose they are possessed of noble Virtues, and consequently, to be more effectual in the *Thysiac*.

P L A T E LXXV.

CALENDULA* *Ray Meth. p. 36, Tabern. 231* Lin. Gen. PL CalibaTourn* Journ. Inft. R. H. 498. Tab. 284. JDimorphotheca Fail. A.C. 1720. Cardispermum^ranf. A* Pa?- 4« *724** Marygold; in French, *Soud*.

MR. *Ray* ranges this Genus of Plants in his Eighth Class, intituled, *Herbs with a corymbiferous radiated Flower* \ and continues the old Title of *Calendula*, given by *Tabernemontanus*, and some other old Writers it, on Botany, to it - But *Dodlor fournefort* has appropriated *Cappari Bauhins's* Name of *Caltha* to it, and places it in the Fourth Section of his Fourteenth Class of Plants* intituled, *Herbs with a radiated Flower, whose Seeds are inclosed in the Empalement*. But *Doftor Linnaeus* has restored the old Title of *Calendula* to this Genus, and has applied that of *Caltha* to the *Populago* of *Tournefort*, which, by most of the old Writers, was titled *Caltha falujtris*. *Doftor Linnaeus* places this Genus in his Nineteenth Class of Plants, intituled, *Syngenejia Polygamia neceffaria*. *Mr. Vaillant*, in the *Memoirs* of the Academy of Sciences for the Year 1720, has separated these, and some other Species, from the Genus of *Marygold*, and constituted a new Genus of them, under the Title of *Bimorphotheca* *, which signifies a Plant having Two Sorts of Ovaries. It was afterwards titled *Cardispermum*, in the *Memoirs* for the Year 1724, from the Seed being shaped like a Heart. But as the Seeds of some of the Species are of a different Form, so this Title is not very proper. Therefore *Doftor Linnaeus* has joined them again, very rightly, to the other Species of *Marygold*.

The Species here represented are,

FIG. 1. CALENDULA foliis dentatis, *Flor. Leg. Pr. 177*, *Marygold* with indented Leaves, *a*, represents the Flower-bud inclosed in the Empalement; *b*, the Backside of the Flower, when open *, *c*, the Fore-

of the same -, *d*, the Seed taken out of the Empalement.

This Plant is, by *Doftors Hermann and Boerhaave* titled* *Calendula humilis Africana, flore intus albo, foris violaceae*

fimplici Lugd. 104- i. e. Low African Marygold, with simple Flowers; which are white within, and of a Violet-Colour on their Outside. *Doftor JAnnaus* titles *Calendulis foliis lanceolatis denticulatis pedunculis fliformibus, Hort. Upfal 274*. And *Mr. Vaillant* calls it, *Dimorphotheca foliis incisis, ovarii minoribus. Ael. R* \$* 1720**

FIG. 2» CALENDULA foliis radicalibus finuatis ^caulinis fuperne denticulatis, *Flor. Leyd. prod. 177. i. e. Marygold* with its lower Leaves finuated, and those on the upper Part of the Stalk indented, *a*, represents the Flower-bud before it opens; *b*, shows the Outside of the Flower when open; *c*, the Inside of the same - This is titled by *Mr. Vaillant*, *Dimorphotheca pubescens, foliis incisis, florem minore, ovarii majoribus. At. R* \$* J720*. And by *Doftor Umeus** *Calendula foliis lanceolatis, dentatis pedunculis Juperne incrajatis, Hort. Cliff.*74«*

The Seeds of this Plant were brought from the *Caff of Good Hope* (where they grow naturally), into the *East* in *Holland*, about Sixty Years ago; and thence all the curious Gardens in *Europe* have been furnished with them. They are both annual Plants, which are hardy enough to thrive in the *East* and *10* are very proper Ornaments for the Borders in Flower gardens. If the Seeds are put into the Ground in *April* or *May*, the Plants will flower in *July*, and the Seed* will ripen in *September*; but if the Seeds are sown at different times, there may be a Succession of flowering Plants for Three or Four Months *, but those which come to Flower late in the Season, will not produce good Seed.



Fig. 2.

Fig. 1.

Fig. 1. CALENT-VI JL, ?... *Conoclinium dentatulum* N. & G. prostratum. *Herb. Lugd. bot.*
 Fig. 2. ASTER *radix. caulis. folia. pinnatifidus. folia ovatis. pinnatifida. multiflorus. unilobus.*

H. K. del.

Published according to a list of Parliament by W. Miller & Sons in 1791.

W. Miller sculp.



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Fig. 2.

Fig. 1.

Fig. 1. Cannabis sativa L. - M. C. B. P.
 Fig. 2. Cannabis indica L. - M. C. B. P.

Windsor 18.

Delicately engraved by G. S. G. - Hand 209 1/2

W. G. S. G.

P L A T E LXXVI.

Fig. 1. CALENDULA [^]VJ *linearibus denticulatis et integerrimis*, Flor. Leyd. prod. 1771. i. e. **Marygold**, with very narrow whole Leaves, which are denticulated. *a*, represents the Bud of the Flower before it opens; *K* flies the Outside of the Flower when open; *c*, the Inside of the Flower fully expanded; *d*, the Seed.

Calendula linearibus denticulatis et integerrimis.
THIS Plant is raised, by Doctor *Comarum*, *Bellis Africana*, *florum-pediculis foliosis, foliis angustis et vtegris*, Hort. Amjl. 2.97. by Doctor *Boerhaave*, in the Catalogue of Plants, in the *Leyden Garden*, it is titled, *Laltha Africana foliis croci angustis, florum petalis externe Purpurascensibus, interne albis*, p. 113. i. e. **African Marygold**, with narrow Saffron Leaves, and the Rays of the flower purple on their Outside, and white within; by *Vaillant* it is called, *Dimorphotheca Jaticis folio*, *Vaill. Ail.* 720; and by Doctor *Linnaeus*, *Calendula foliis linearibus Mintegerrimis, caule fuhnudo*. *Sp. Plant.* 922.

The Seeds of this Plant were brought from *NizCape of Good Hope*, in the Year 1698, to *Holland*, where it was first raised in *Europe*; and was figured by Doctor *Comarum*, in the Second Volume of the Plants in the *Amsterdam Garden*, under the Title of *Bellis*, &c. above 113. and from that Garden, most of the curious Gardens in *Europe* have been furnished with this beautiful Plant: but although this has been long in the *English Gardens*, yet it is not so commonly seen there as might be expected, or as it deserves; for there are few Plants which continue in Flower so long as this, there being scarce any Month in the Year, when there are not some of the Flowers open: but from the Beginning of *March* to the Middle of *Winter*, there is a constant Succession of Flowers: and as the Plants only require a little Protection from Frost, they are worthy of a Place in every curious Garden.

FIG. 2. ASTER caule ramofo scabro perenni, foliis ovatis, sessilibus pedunculis nudis unifloris 5 Star wort, with a perennial, rough, branching Stalk, oval Leaves set close to the Branches, and a naked Footstalk supporting a single Flower.

The Occasion of this Plant being exhibited here, out of the Order pursued in this Work, was, from its being supposed a Marygold, at the Time when the Figure was drawn on the Plate, which was soon after the Flowers appeared, before the Seeds were so forward as to shew their Down, which fits on their Top, and is one of the distinguishing Characters of Starwort from Marygold; and this being a Plant undescribed, we were induced to exhibit the Figure, therefore hope we may be excused for this Freedom, as we shall be careful not to repeat it. It is probable there may be some who may object to the placing this Plant in the Genus of *Aster*, because the lower has a simple Calyx; so would rather have it a *Calendula* or *Orthonna*: But as the first has Two Sorts of Seeds

without any Down, so it cannot, with propriety, be placed there. And the *Orthonna*, whose Seeds are situated in a downy Receptaculum, differs from this, whose Seeds are crowned with a downy Pitme.

The Seeds of this Plant were sent me from the *Cape of Good Hope*, in the Year 1753, but without any Title* The following Spring, two Plants came up from them in the *Chelsea Garden*, which have flourished extremely well there, and have been propagated since in Plenty.

The Plant has many fibrous Roots, from which arises a purplish Stalk, which divides into many Branches near the Root, so as to form a low bushy Plant, for it seldom rises much more than Two Feet high; but the Branches will extend more than a Foot on every Side: These are garnished with oval Leaves about an Inch long, and a Third Part of an Inch broad; they are pretty thick and succulent, and are rough to the Touch, coming out at the Joints of the Stalks by Pairs opposite, and sometimes Three at a Joint, or in other Places Two larger and Two smaller at the same Joint, having no Footstalks: Toward the upper Part of the Branches, the Footstalks of the Flower arise, which are from Four to Six Inches long, and naked, each supporting a single radiated Flower, *a*, represents the Flower-Bud, (showing the scaly Empalement; *b*, the under Side of the Flower, when open; *c*, the Inside of the Flower, when fully blown; *d*, the Placenta, with the Seeds fitting with their Down; *e*, a single Seed taken from the Placenta, with the Down on its Top.

The Rays of the Flower are of a fine Sky-blue Colour, which, after they have been some time expanded, turn back toward the Empalement: The Disk of the Flower is yellow. After the Flower falls away, each of the Florets, which compose the Disk, is succeeded by a single Seed, crowned with a soft Down. The whole Plant is a little acrid to the Taste.

This Plant is never destitute of Flowers the whole Year: for, in the Winter Season, there will always be a Number of them in Beauty, though, at that Time, they are not quite so large as in Summer; however, they make a fine Appearance at all Seasons; and as they only require to be protected from Frost, they deserve a Place in every curious Garden. The Plants which I raised in the *Chelsea Garden*, which were placed in a Frame, with wooden Shutters to cover them in the Frost, have been as vigorous, and continued flowering through the Winter, full as well as those which were placed in the Green-house: but as yet I have not tried if they will live in the open Air, as the Plants were in no other *English Garden*; so till a larger Stock of Plants are raised, it is not prudent to try this Experiment: But from what I have observed, it may be supposed, the Plants will live in the open Air, if they are planted in a dry Soil, and warm Situation, which will be a valuable Acquisition to the Flower Garden.

P L A T E LXXVII

CANNABIS, *Tournef. Inst. R. H. H. sis. Tab. 309. R. III. Meth. Pl. 19. Un. Gen. Plant. 988.* Hemp; in French *Chauvre*.

DOCTOR *Tournefort* ranges this Genus in the Sixth Section of his Fifteenth Class of Plants, intitled, *Plants with apetalous Flowers, which are Male* «*a Female indifferent Plants. Mr. *Ray* places it in his

Fifth Class of Plants, which he titles, *Herbs with Jami* neous Flowers, which are of Two Sexes: And Doctor Linnaeus* places it in his Twenty-second Class, intitled, *Jdioecia Pentandria*, from the Plant's being Male and Female, and the Flower having Five Stamina. As the Male and Female Hemp arises from the same Seeds, so we have represented them both in this Plate*

FIG. x. *CANNABIS, foliis digitalis mas, Lin. Hort. Cliff**
§§. Male Hemp, with fingered Leaves.

FIG. 2. *CANNABIS, foliis digitalis famina, Lin. Hort. Cliff. 475.* Female Hemp, with fingered Leaves.

*a*_f shews the Spikes of Flowers on the Male Plant, which are composed of Five shorter slender Stamina, supporting oblong square Summits *j* these are included in an Empalement, cut into Five Parts to the Bottom •, *£*, represents the Flower of the Female Plant, which consists of an Empalement of One Leaf, which is permanent; the Flower having no Petals, but in the Center of the Empalement is lodged the Germen, supporting Two long Styles with a pointed Stigma: The Germen afterward becomes a globular depressed Seed, as at *c*, *c*.

Some Authors have distinguished these Plants by the Titles of *Sativa* and *Erratica* *j* i. e. the manured and the wild Hemp; but as they come from Seeds indifferently, where-ever they are sown, or in Places where the Seeds are accidentally scattered, that Distinction is not proper. There is a Necessity of having some Plants of the Male Hemp among those of the Female, in order to tender them prolific: Therefore those should not be drawn out from between the others, until their Spikes of dusty Flowers are quite faded; for in *Lincolnshire*, where a large Quantity of Hemp is generally cultivated, they frequently have drawn out all the Male Plants, which is called *Fimble-hemp* soon after they were distinguished, by which they supported the Female Plants, which are called *Karle-hemp*, would have more Room to flourish but, by this, they were deprived of the Crop of Seeds •, so that, by this dear-bought Experience, they have altered their Method, and do not draw away the Male Plants soon. I have myself made Trial of this Experiment for several Years, by removing all the Male Plants of Hemp from the Female, as soon as they were discernible •, and although the Female Plants have continued strong and flourishing, yet have they never produced any good Seeds.

As Hemp is of such singular Use in this Kingdom, it is great Pity that a much greater Quantity of it is not cultivated in *England*, for there are many large Tracts of boggy light Land, which would produce it as well as any Part of *Europe* •, and this might employ many <> the Poor, who are, at present, a great Burthen to their Parishes •, and hereby a considerable Sum might be saved to the Nation. And in such Places where it is now cultivated, if half the Quantity of Seeds, which is usually allowed to an-Acre, were sown, and the Plants if more; the Produce would be much more; for, by separating and leaving some Plants single, and allowing them Room to spread, they have been Four times as large in their Stems as those which have grown near each other on the same Spot of Ground, and have produced more Hemp than Six of the best Plants which grew near together, in the common Method of Culture.

The Male, or *Fimble-hemp*, is always fit to pull by the End of *August*; for when their Spikes of Flowers are decayed, the sooner they are pulled the better they will be; for they soon begin to shrink and decay, so afford less Hemp. And by doing this in Time, there will be a longer Continuance of Employment for the Poor, in watering and breaking of it-, for the Seeds of *Male*, or *Karle-hemp*, will not be ripe till after *Michaelmas*, so the Plants must not be drawn up before *October*, for till then they will continue in Vigour. The Seeds of Hemp is the only Part used in Phycic, and, at present, those are rarely prescribed -, an Oil is drawn from them, which is used for many Purposes; and the Seeds are reckoned very good for Poultry, when given to them in moderate Quantities; for, being warm, it is fuppoken to cause Hens to lay Eggs in great Plenty. The famous *Bangue*, which is so much used by the *Indians* and *Persians* to promote Venery, is a Species of Hemp; and* by the Descriptions given of it, not much differing from the common Sort.

As this is one of the most-conspicuous Plants wherein their different Sexes appear so strongly, we have chafed to exhibit this Plate for that Purpose, rather than for its Beauty,

P L A T E LXXVIII.

CAPNOIDES, **Tourn. Infi. R. H. 423. Tab. 237. Fumaria* > *Lin. Gen. Plant. 760.* Slender podded Fumitory.

THIS Genus of Plants is, by Doctor *Tournefort*, ranged in his Eleventh Class, which is titled, *Herbs with a polypetalous anomalous Flower, whose Pointal turns to an unicapular Fruit*; and Doctor *Unnaus* places it in his Seventeenth Class of Plants, titled, *Diadelphia* <H§%*ndria*, the Flower having five Stamina, which are separated into Two Bodies. Mr. *Ray* has removed the Genus of *Fumaria* to a great Distance from its Congeners, and placed it with a few others in his Twenty-fifth Class, which contains such Genera as he was at a Loss where to range.

There is but One Species of this Genus, which is here represented.

CAPNOIDES, *Infi. R. H. 423.* Podded Fumitory,

A, represents a single Flower taken from the Spike, whose Characters are the same with Fumitory; *b* > (shews the Pointal arising from the Bottom of the Empalement; *c*, an entire Pod •, and *d*, the Pod opening lengthways^ with the Seeds adhering by their Placenta *j* •, the Seeds out of the Pod,

Cornutus, who is the First Author that mentions this Plant, calls it, *Fumaria filiquosa Jempervirens*, p. 59. how he came to add the Epithet of *Jempervirens* to it, is not easy to conceive; for it is an annual Plant, which perishes soon after the Seeds are ripe-, and it may be supposed, this Appellation has led Doctor *Unnaus* in the Mistake he has made, by joining this to the *Fumitory*, making them the same Species \ to which also adds the yellow *Fumitory*: But whoever has observed the Three Plants, cannot doubt of their being different Species; for the yellow and white *Fumitories* are perennial Plants, which grow close to the Ground, and whose Flowers are produced on Footstalks, arising immediately from their Roots; whereas this Plant rises with an upright Stem a Foot and half high, dividing into Branches •, and from the Wings of the Leaves arise Footstalks of the Flower: The Flowers of this are all larger and more beautiful than either of the other.

As this Plant will come up from the Seeds, scattered in the Autumn, those Plants will be strongest and come earlier to Flower, than those which arise from Seeds sown in the Spring: The former do generally! in *June*, and the latter in *July* and *August*, and then Seeds ripen soon after.

P L A T *



C. A. I. Voi DBS R. H.

P. Linnæus del.

Printed and sold by R. K. & R. L. at the Royal Academy of Sciences, London.

Ed. 1753.



CAPRIFOLIUM japonicum flor. rubra verticillata Sieb.

2. 1. 1. 1. 1.

At the University of California, Berkeley, April 20, 1851.

W. H. Harvey





CARDIACA *folia lucida* & *perforatis* in *caulis* glabris *Ammon.* *Blatt.* 2. 10.

22. 10. 11

Illustration of the plant of Polanski, Bot. t. 1. p. 10.

22. 10. 11

P L A T E LXXIX.

CAPRIFOLIUM, *Town. Lift. R- H. 608. Tab. 278. Rail Method, 145. Periclymenum, J. B. 2. 104. C. B. P. 102. Lonicera, Lin. Gen. Plant. 210. Honeyfuckle. In French, Chevrefeuille.*

DR. *Tournefort* ranges this Genus of Plants in the Sixth Section of his Twentieth Clafs, intituled, *Trees and Shrubs with a monopetalous Flower, whose Empalement afterward becomes a Berry.* Mr. *Ray* places it 'among the *Trees with an umbilicated soft Fruit, having feveral Seeds:* And Doct^r *Linnaeus* ranges it in the Fifth Clafs of Plants, whose FlowerS have Five Stamina, and a fingle Stylus; and has changed the Title to *Lonicera*, which *Plumier* had given to a new Genus of Plants which he discovered in *America*; the Flowers of which have fome Affinity with thofe of the *Honeyfuckle*, but the Fruit is a large oval Berry, with One Seed: And the Flower, having Six Stamina, hath occasioned the Doctor's removing it to his Sixth Clafs, in the laft Edition of his *Method*-, and alfo to alter the Title of *Plumier's* Plant to *Loranthus*. So he has continued that of *Lonicera* to this Genus, to which he has added the *Periclymenum*, *Cbamacerajusi* *Xylofteum*, and *Diervilla*, -of *Tournefort*; alfo the *Symphoricarpos* of *Dillenius*: But he has feperated the *Triojiefpermum* of *Dillenius* from this Genus, which in the former Editions, he had joined to it.

The Species here reprinted is,

CAPRIFOLIUM *Germanicum, flare rubello ferotinum, Brofs. Inft. R, H. 60S. Late-red flowering Honeyfuckle.*

#> represents the Tube at the Bottom of the Flower. £> the iuDer Part, #qjh* : h is cut into feveral Segments, ^irh<£M4pHMT>#*^ £> the iuDer Part, #qjh* : h is cut into feveral Segments, the Pointal which is extended beyond the Stamina, d, the Berries which inclofe the Seeds. The Characters of this Genus are exhibited in *The Gardener's Dictionary*.

Tivis Plant is titled, *Periclymenum perfoliatum fcrotinum Jpeciojius*, in the Catalogue of the *Royal Garden at Paris*: And, by the Nurfery Gaadeners' near *London*, it is called,

The Late-red Honeyfuckle^ to diftinguifh 'it from ano ther, which approaches near to this, which they call *The Dutch Honeyfuckle*. Both thefe flower later in the Seafon than *The Italian Honeyfuckle*: But this, which is here re- prefented, produces a greater Quantity of Flowers toge- ther than either of the former Sorts*, fo that it makes thai fineft Appearance, during the Seafon of its flowering, of any of the Kinds.

It is difficult to determine if thefe are diftin6t Species, or Varieties which have been produced from Seeds; but they are all undoubtedly different from our wild *Englijh Honeyfuckle*, although they have been generally fup- pofed to be the fame: For the *German* Writers having applied to their common Honeyfuckle this Title, the *Englijh* Botanifts have fupposed our wild Sort was the fame, fo have confounded them together; but whoever will be at the trouble to examine them, will find a re- markable Difference in the whole Habit of the Two Plants. The *Englijh* Sort hath very (lender trailing Branches, which incline to the Ground, unlefs they are fupported by neighbouring Trees; fo that it is notpof- fible, by Culture, to train it to a Stem. The Leaves are alfo fmaller, and covered with a fine foft hairy Down; whereas thofe of the *German* Honeyfuckle are large, and more connected to the Stalk, and lefs hairy: The Flowers are larger, and are formed into globular Bunches.

This Sort is now greatly propagated in the Nurseries,' being extremely hardy, and may be trained up with Stems to have large bufhy Heads; the Branches, being ftrong, will fupport themfelves better than thofe of fome other .Sorts; and as the Plants make fo fine an Appearance when in Flower, it renders them more valuable. The usual Time of their flowering is in *July*.

This Sort has not been fo long an Inhabitant of the *Englijh* Gardens, as that which is (tiled, *The Dutch Honeyfuckle* -, for, about Forty-five Years ago, I remember it was efteemed a great Curiofity, when it was called, *The Flemijh Honeyfuckle*, and was probably brought over by fome of the *Flemijh* Florifts, who at that Time came over annually with Flowers and Plants for Sale.

P L A T E LXXX.

CARDIACA, *Tourn. Inft. R. H. 55. Tab. 8j. Rail Method. Plant. 64. Leonurus, Lin. Gen. Plant. 641. Mo- therwort. In French, Agripaume.*

THIS Genus of Plants is by Dr. *Tournefort* ranged in the Second Section of his Fourth Clafs, intituled, *Herbs with a Lip flower of One Leaf, whose upper Lip (or Galea) is hollow like a Spoon.* Mr. *Ray* places it in the Fifth Section of his Fourteenth Clafs of Plants, which he titles, *Herbs whose Flowers grow in Whorles round the Stalks, at the Setting on of the Leaves.* Doct^r *Linnaeus* places it in his Fourteenth Clafs of Plants, intituled, *Qidynamia Gymnospermia.* The Flowers of this Clafs have Two long and Two (hort-Stamina, and Four naked Seeds fucceed each Flower. But he has altered the Title of this Genus to *Leonurus*, which had long been *pphed to another Genus of Plants, which were Natives of the *Cape of Good Hope*: But thefe the Doct^r has **nged under the Genus of *Phlomis*, though, from the **F**orin of the Flower, I think, they do not any-way agree **N**o. B. XIV.

with the Characters of *Phlomis*, as the *Galta* of the Flower is fretched out a confiderable Length beyond the lower Lip, and is not curved over it clofely, as in the *Phh- mis*. But the Doct^r's Characters are drawn from the Empalement of the Flower.

The Species here reprinted is,

CARDIACA *foliis tenuius & profundius incifis glabra, Am- man. Ruth. 49. Smooth Mocherworc, with Leaves deeply cut into narrow Segments.*

a, represents the Empalement of the Flower. £, (hews a fingle Flower taken from the Whorle, exhibiting the Four Stamina with the Pointal, with the upper Lip (or Galea) intire and hollow, and the under Lip (or Beard) cut into Three Parts, c, (hews the Style which is placed in the Center of the Flower. d> the Four Seeds with the Empalement. And e, the naked Seeds taken out. Doc- tor *Linnaeus* titles this Plant, *Lecnurus foliis tripartitis laciniatS*

laciniatis, calycibus villosis, Harl. Upfa V 111. i.e. Lion V
tail with tripartite jagged Leaves, and a hairy Empale-
ment.

This Species is a Native of *Tartary*, from whence the Seeds were sent to *Peterflmrg* and were sown in the Imperial Garden there, where the Plants grew and perfected their Seeds; so that from thence all the botanic Gardens in *Europe* have been furnished with the Seeds. There are Two distinct Varieties of this Plant, One of which hath smooth Stalks and Leaves, and the other is very hairy. The Seeds of both Sorts were sent me by Do^r Amman, late Professor of Botany in the *Imperial Academy* at *Peterburgh*, which have been several Years growing in the *Chelfea* Garden, and retain their Difference from Seed; so may be allowed to be different Varieties, if not distinct Species; though *Dodlor Linnaeus* supposes them to be the same.

We have but Two Sorts of Motherwort that are

Natives of *Europe*, which are; The common Sort, which is found wild in many Parts of *England* though it is supposed not a Native here: The other is one with curled Leaves. These Two are by many Botanists supposed to be only Varieties; but, from many Years Experience, I find they constantly keep their Difference from Seeds.

From whence the Sort with curled Leaves was obtained is uncertain. Mr. *Ray* is the First Author who mentioned it, and says, he received the Seeds from *London*, which grew with him. Both these, when once planted in a Garden, will soon multiply, especially if the Seeds are permitted to scatter; for these will grow where-ever they fall, and become troublesome Weeds. The Plants grow to the Height of Four or Five Feet y they flower in *June* and *July*, and the Seeds ripen in Autumn. The Stalks decay in Winter, but the Roots will abide many Years.

P L A T E LXXXI.

CARYOPHYLLUS, *Tourn. In/I. R. H. 3.29. Tab. 174. Rait*
Metb. Plant. 109. Dianthus, Lin. Gen. Plant. 500.
The Pink. In *French, Oeilkt.*

TOURNEFORT ranges this Genus of Plants in his Eighth Class, intitled, *Herbs and Under-shrubs, with a polypetalous and Clove-gilly-flower Flower*. Mr. *Ray* places it in his Twenty-first Class of Plants which he titles, *Herbs with pentapetalous Flowers, having many Seeds included in a Vessel*: And *DOCTOR LINNAEUS* ranges it in the Second Division of his Tenth Class of Plants, intitled, *Decandria Digynia*, from the Flowers having Ten Stamina, and Two Styles: And he has changed the Title of the Genus to *Dianthus*, having applied the Title of *Caryophyllus* to the *Clove*, to which *Doctor Tournefort* has added the epithet of *Aromaticus*, to distinguish it from this Genus.

The Species here represented are,

FIG. 1. CARYOPHYLLUS *montanus umbellatus, floribus variis luteis ferrugineis Italiens* Barrel. *Observ. 648. i. e. Umbellated Mountain Pink of Italy, with changeable yellow and rusty Flowers.*

a, represents one of the Petals of the Flower taken out of the Empalement. *b*, *b*, the Ten Stamina crowned with Summits, *c*, the Two Styles situated in the Center of the Flower, *d*, the Seed-vessel cut open, to show how the Seeds are lodged, *e*, One of the Seeds taken out of the Vessel.

This Plant was discovered by *Father Barreter*, in the Mountains of *Abruzzo* in *Italy*; and it has since been discovered in *Spain*, from whence I received the Seeds, which have succeeded in the *Chelfea* Garden. It hath the intire Habit of the *Armeria Clujii*, or *Sweet William*. The Flower-stems rise about a Foot and a half high, which are garnished with Leaves somewhat like those of the *Carnation*, but are of a darker Green. These are placed opposite by Pairs; the Tops of the Stalks are terminated by close Umbels of Flowers, each being composed of Five Leaves. Some of these are yellow, and others of a rusty Iron Colour, which often is seen in the same Umbel; but, in general, the different Colours are in different Umbels. The Season of its flowering is in *July*; but, when the Weather proves cool and moist, there will

be a Succession of Flowers till the End of *September*. The Seeds ripen in the Autumn. The Roots of this Plant will abide Two or Three Years, but the young Plants of the Second Year do always produce the greatest Quantity of Flowers; so that it is much the better Method to raise annually young Plants, and destroy the old Roots: But the young Plants do rarely flower the First Year they are raised; so that the Second Year they are in the greatest Perfection: Therefore, to have a constant Supply of the Plants, there should be every Year a fresh Parcel raised from Seeds.

FIG. 2.

CARYOPHYLLUS *Jinensis fupinus, leucoii /olio**
flore plena, Boerh. In & Alt. The Double *China Pink**

This Plant is a Native of *China*, from whence the Seeds were sent by the *Jesuit Missionaries* to *Paris*, about the Year 1705; since which Time the Seeds have been dispersed to most Parts in *Europe*. The Plants, which were for many Years produced in the *European* Gardens, were single Flowers, till about the Year 1722, when there were many Plants with double Flowers produced in some of the Gardens at *Paris*, but, whether they arose from Seeds of the single Sort sowed in *England*, or were produced from new Seeds obtained from *Gbina*, & difficult to determine; but in the Year 1722, when I first Time I had seen these of the *English* Gardens.

There are great Varieties in these Flowers, which constantly arise from Seeds; so that from the Seeds of One Plant, there will be many different Colours produced. These are a great Ornament to the Flower-Garden in the Autumn, for they continue flowering from *July* until the Frost puts a Stop to them: And these Flowers had an Odour equal to their Beauty, they would deserve one of the first Places in a Garden; but they are without any Sort of Scent, which has occasioned their being too much neglected: For the great Beauty and Variety of Colours in their Flowers, renders them worthy of a Place in every good Garden. The Flower-stems of these Plants are from Six to Eight Inches high and the Flowers terminate the Stalks. The Roots will often last Two Years, provided they are growing in a dry Soil; but they are generally perished from Seeds every Year.



Fig. 1. *CARYOPHYLLUS* *serotinus* L. *serotinus* L. *serotinus* L.
Fig. 2. *CARYOPHYLLUS* *serotinus* L. *serotinus* L. *serotinus* L.

Delin. et sculp. J. Wandelaar. 1766.



CASSIA fistula Linn. folia bipinnata, caeruleo castoreo, etiam nigrescente, floris magnis, calycis punctis, seminibus
 Datis et nomine in herb. Botanicis, fasc. Botanicis, tom. 1. p. 178. — 1788. — 1789.

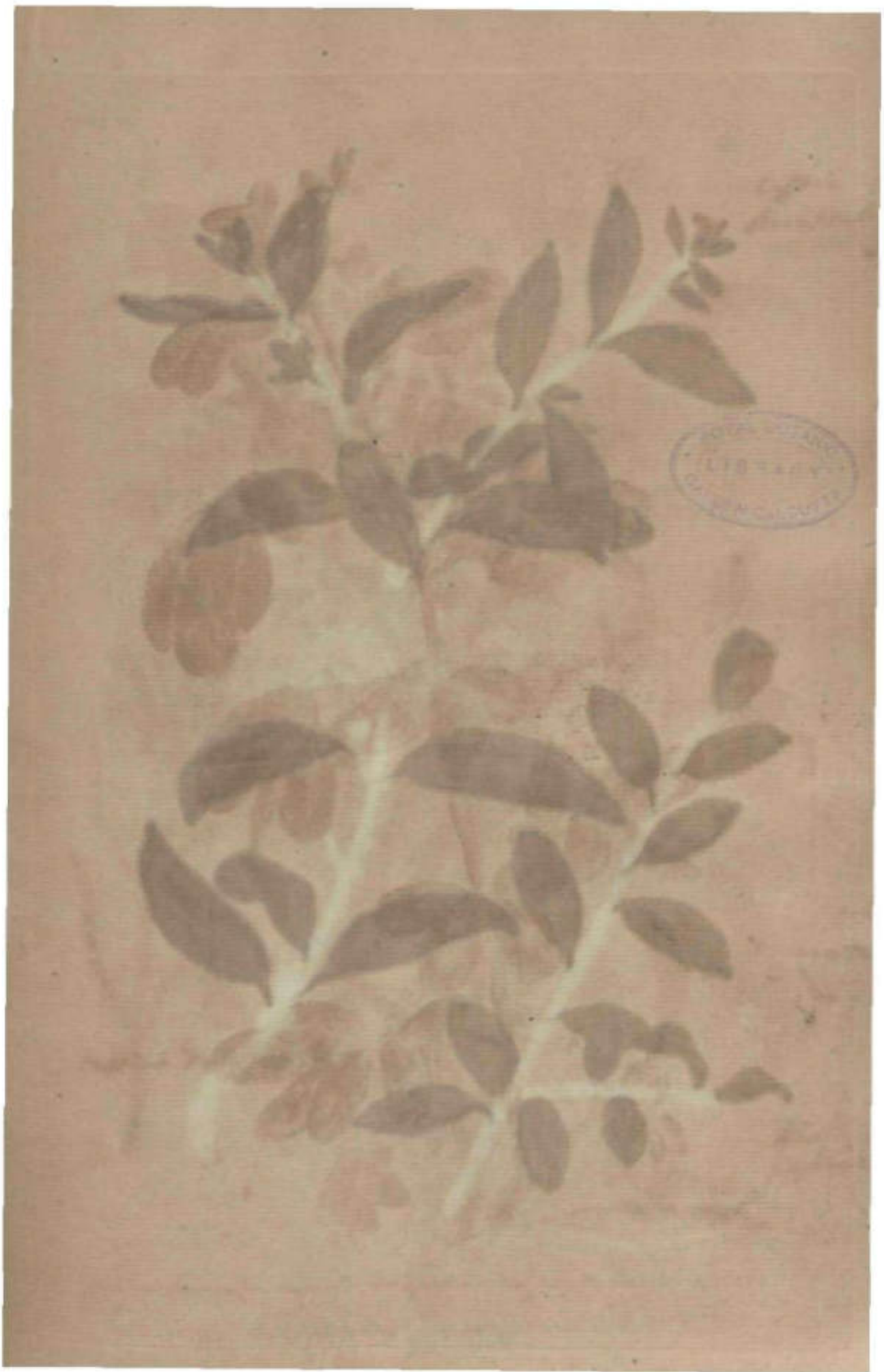




Fig. 1. CASSINE foliis ovato-lanceolatis serratis oppositis divinis floribus & corymbosis
 Fig. 2. CASSINE foliis lanceolatis serratis in oppositis floribus axillaribus

W. Savoy del.

Illustration according to the original made by W. Savoy in April 1758.

W. Savoy del.

P L A T E LXXXII.

CASSTA, *Tourn. Injl. R. H.* 619. *tfab.* 392. *RaiiMetbcd.*
Plant. 160. *Lin. Gen. Plant.* 461. *Senna Jpuria, Houft.*
MSS. Wild Senna, *vulgè.*

DOCTOR *Tournefort* has placed this Genus of Plants in the fifth Section of his Twenty-first Class, intituled, *Trees and Shrubs with a Rose-flower, whose Pointal turns to a Pod.* Mr. *Ray* ranges it among the Trees with a Flower of Five Leaves, and Doctor *Linnaeus* places it in his Tenth Class of Plants, intituled, *Decandria Monogynia*; the Flower having Ten Stamina, and One Pointal. Doctor *Houjioun* in his Manuscript Catalogue of the Plants which he discovered in *America*, has separated all the Species of this Genus, whose Seeds are not included in Pulp, from those which are; and he has given the Title of *Senna Jpuria* to that Genus, and stains that of *Cajfta* to those whose Pods have Pulp Surrounding the Seeds. This Distinction was first made by Doctor *Herman*, but, after his Time, they were joined again by most of the Writers on Botany.

The Species here represented is,

CASSIA *foliatis trijugatis ovatis exterioribus majoribus sicre magno, filiqua pentagona alata*, i.e. Wild Senna (or *Cassia*) with Three Pair of oval *Pinnæ* to each Leaf, the upper being the largest, a large yellow Flower, and a Five-angle winged Pod.

a represents the Spike of Flowers arising from Footstalks of the Leaves. *b* shows a single Flower taken from the Spike, exhibiting the Ten recurved Stamina. *c*, the Pod, which has Five *Alæ*, or Wings, running longitudinally from the small Footstalk.

Doctor *Houftoun* titles this Plant, *Senna spuria plerum-*

que hexaphylla, fiore magno, filiqua pentagona alata, MSS, 195. This Plant approaches near to the *Cajfta filiqua quadrangulari*, *Hort. Elth.* in its Leaves; but the Flowers of our Plant are near twice as large, and the Pods are much more turgid than those of the other Plant, and the Wings of the Pods are broader. Beside these Differences, there is another very essential one; which is, the Plant here figured is perennial, and the Stem will become ligneous, whereas the other is an annual Plant.

This Plant was discovered by the late Doctor *William Houjltm*, at *Campeachy*, from whence he sent the Seeds, which were sown in several curious Gardens in *England* where they have flowered and perfected their Seeds, in those Gardens where there were good Stoves to preserve them through the Winter: For, as the natural Country of this Plant is very hot, so it will not live in *England*, unless it is placed in a warm Stove.

It usually grows about Four or Five Feet high, having a woody Stem, with several lateral Branches. These are garnished with winged Leaves, each having Three Pair of Lobes (or small Leaves), which are broadest at their Extremity, where they are bluntly rounded off. At the Footstalks of the Leaves the Flowers are produced, which are formed into close short Spikes. These are composed of Six Petals (or Leaves), which expand in Form of a Rose, and are of a bright yellow Colour; in the Center of which is situated the Style, attended by the Ten recurved Stamina. After the Flower is past, the Style becomes a Pod of about Six Inches in Length, swelling in the Middle, and having Five Angles, or Borders, lengthways. These contain many Liver-coloured Seeds, which are a little compressed.

The Leaves of this Plant have been substituted for *Senna* in the natural Place of its Growth.

P L A T E LXXXIII.

CASSINE, *Lin. Gen. Plant.* 333. *Pluk. Mantifs.* 40.
 Caffiberry Bush, South Sea Tea, or Yapon.

THE Characters of this Genus are exhibited in *The Gardener's Dictionary*. Doctor *Linnaeus* ranges it in the Third Division of his Fifth Class of Plants, intituled, *Pentandria Trigynia*, the Flowers having Five stamina and Three Stigmas.

The Species here represented are.

CASSINE *M. ovata lanceolatis ferratis oppositifolius deaduis, floribus corymbosus*. The Caffiberry Bush, *vulgò.*

This is, by Doctor *Plukenett*, intituled, *Caffine vera Tarquamfiliis Arbutul* Pbillyrea, foliis antagonyiis, ex Provincia CaroHniensi, Mantifs.* 40.

Doctor *Linnaeus* has supposed this Plant, and the *Phillyrea Capensis folio Celasfri, Hort. Ellb.* to be the same; and also the *Fruex JEthiopicus alaterni foliis, Seb. Tbef.* and has added the *Ceratus Sebejlin* domestic* foliis aliquid accedens of Phikenett* to it; whereas they are so many different Plants: Therefore, it may be supposed that the Plant here figured; for *h* differs from

the *Phillyrea Capensis* greatly in the Shape of the Leaves, those being broader, rounder, and of a much harder Texture, than the *Caffine* and continue through the Year, being an Evergreen; whereas the Plant, here figured, sheds its Leaves in Winter: And it differs from *Seba's Frutex ALlihiopicus* in its Leaves growing opposite whereas those of *Seba's* Plant are ranged alternately,

a, represents One of the Flowers taken from the Bunch, showing the Five Stamina. *b* is one of the Berries, which is entire. These have commonly Three Cells, in each of which is included a single Seed.

FIG. 2. CASSINE *foliis lanceolatis alternis sempervirentibus floribus axillaribus*. South Sea Tea, Yapon, or Evergreen Caffine.

This Plant is separated by Doctor *Linnaeus* from the other, and placed in his Fourth Class of Plants; and he has join'd it to the common *Holly* under the Title of *Ilex*, making this and the *Baboon Holly* the same Plant: But if the Doctor had seen the Flowers of the Two Plants, he would not have been guilty of this Mistake, for the Flowers of the Plant here represented, have Five Stamina, and do agree with the other Sort in all the Characters

raders, it should not be separated; nor can any Person, who sees this and the *Baboon Holly*, ever suppose them to be the same Species, as there is a remarkable Difference in all their Farts.

Mr. *Cateby*, who has figured this Plant in his *Hijory of Carolina*, calls it by Doctor *Plukenet's* Name; viz. *CaJine vera floridanorum arhufcula baccifera alaierni ferme facie, foliis alternatimfilis tetrapyrene*, *Pink. Mant.* 40. *Catejb. Hist.* Vol. II. p. 57. In his Plate the Plant is figured with the Berries, when ripe, having no Flowers; and it seldom produces Flowers in *England*: Therefore the exhibiting a Branch of it here, was with a Design to shew how it differed from the first Species, because they have been by some Persons supposed the same, Mr. *Cateby* seems positive that this Plant is the same as that which grows at *Paraguay*, the Leaves of which are dried and used for *Tea* in most Parts of the Continent of *New Spain*; so that the Jesuits of *Paraguay* drive a great Trade with it, and draw great Riches into their Province by this Commodity. And I have been well informed, by Persons who have seen the Shrubs there growing, that

they have Two different Shrubs, from which they gather. Two Sorts of this Tea, which they distinguish by different Titles, and, so far as they remember the Shape of their Leaves, believe them to be the Two Sorts here represented. The Leaves of the first Species are extremely bitter; an Infusion of them is very serviceable in recovering lost Appetites, as also to remove Pains of the Stomach: But it should not be made too strong, lest it prove emetic, or cathartic. This Shrub will grow to the Height of Ten or Twelve Feet, and forms itself into a very spreading bushy Head. It often flowers in *July*, but I have not heard of its ripening any Fruit in *England*. It will live abroad in the open Air, if planted in a sheltered Situation; but when it is in a cold strong Soil, and too much exposed, the tender Shoots are frequently killed in Winter.

The Second Sort is an evergreen Shrub, which is not so hardy as the former; so will not live in the open Air in *England*, unless it is planted in a very warm Situation. This seldom grows so large as the former, and very rarely produces Flowers in *England*.

P L A T E LXXXIV.

CASTANEA, *Tourn. Infl. R. H.* 584. *fab.* 352. *Rail Meth. Plant.* 140, *Fagus, Lin. Gen. Plant.* 951. *Chestnut.* In *French, Cheignr.*

The Characters of this Tree are exhibited in *The Gardeners Dictionary*.

DOCTOR *Jurnefort* ranges this Genus in his *JL* Nineteenth Class, which contains the *Trees and Shrubs with amentaceous Flowers, which are produced in separate Parts from the Fruit on the same Trees*. And Mr. *Ray* places it in his Class of *Trees whose Flowers and Fruit grow at remote Distances*. Doctor *Linnaeus* has joined this Tree to the Beech, making it only a Species of that Genus, so has applied the Title of *Fagus* to this, and places it in the Eighth Section of his Twenty-first Class of Plants, intitled *Monoecia Polyandria*, which includes those Plants, which have Male and Female Flowers on the same Plant; and the Flowers have many Stamina.

Doctor *Unnaii* has applied the following Title to this Plant, *fagus foliis lanceolatis acuminato-ferratis fubtus nudis* *Hon. Cliff.* 447. but I think this should not be joined to the Beech-Tree, but continued as a distinct Genus under the Title by which it has been universally known for many Ages; for, as the Male Flowers of the Beech-Tree are collected into globular Heads, and those of this into cylindrical Spikes, so this Distinction is sufficient to separate them, were there no Difference in their Fruit.

The Species here represented is,

The Distinction which some Authors have made, between what they term the Wild and the Manured Chestnut, is only from the Size of their Fruit, as hath been observed; but I suppose there may be a better Reason for continuing the Appellation of *Manured* to those with large Fruit, because in many Countries, where the Trees are cultivated for their Fruit only, the Inhabitants graft from those Trees which produce the fairest Fruit, whereby they preserve them in Perfection: Whereas those Trees, which are raised from the largest Nuts will degenerate; so that few of them will produce so large Fruit as their parent Tree: Therefore, whoever is desirous to have this Fruit in Perfection, should procure Grafts from such Trees as do produce good Fruit, and graft them on young Chestnut Stocks, by which Method they may continue the Kind.

•CASTANZA *fatha*, *C. B. P.* 418. The Manured Chestnut.

This Epithet is generally applied to those Trees which produce large Fruit, which, by the *French*, is distinguished by the Appellation of *Marronier*; but, as the Nuts taken from the same Tree will produce Trees whose Fruit will greatly differ as to their Size, so the Varieties arising from Seeds (should not be regarded by Botanists,

it represents the Spikes of Male Flowers, which are composed of many long slender Stamina, included in a Bell-shaped Empalement of One Leaf, which is cut into Five Parts at the Top. *b*, shews the Spikes of Embryo's, which have no visible Flower, but Three Styles which rest on the Top. These are produced at a Distance from the Katkins, or Male Flowers, *c*, shews a Fruit with its prickly Cover. And *d*, One of the Covers open, shewing the Three Cells in which the Nuts are lodged.

There can be no Doubt of this Tree having been formerly in great abundance in several Parts of France, since many of the old Buildings are found to be partially of this Timber; and there are many Records which mention several Forests of these Trees: But it happened that a Tree so common here, whole is so valuable, should be almost extirpated in France is not easy to account for.

Cappia
Arctostaphylos



CASTANEA sativa C. B. P.

Castanea sativa

Castanea sativa C. B. P. *Castanea sativa* C. B. P.

Castanea sativa

Castanea sativa



CAULIS *arvensis serrata* Lottin. C. B. P. 112.

Handwritten text, likely a signature or date.

Handwritten text, likely a description or location of the specimen.

Handwritten text, likely a date or reference.



Handwritten notes in the upper left corner, likely bleed-through from the reverse side of the page.



Handwritten notes in the lower left corner, including the name 'Ceanothus' and other illegible text.

Ceanothus • *foliis lanceolatis* - Linn. Sp. pl. 1758.

Small handwritten text below the main caption.

Printed text at the bottom center, possibly a date or reference: "Printed and sold by W. Clowes, 7, St. Dunstons, London, W. 1848."

Small handwritten text at the bottom right corner.

P L A T E LXXXV.

CAUCALIS, *Tourn. Inji. R. H. 323. Tab. III. Echinophora, Col. Ecphr. 1. 97. Rail Meth. 53. Tordylium, Lin. Gen. PL 293. Baftard Parfley.*

THIS Genus of Plants is by Doftor *Tournefort* ranged in the Sixth Section of his Seventh * Clafs of Plants, intituled, *Herbs with umbellated Flowers, ranged circularly* * whose Empalement turns to Two large Seeds which are chanelled with deep Furrows. Mr. *Ray* places it in the Thirteenth Section of his Eleventh Clafs of Plants, which he titles, *Plants with umbellated Flowers, and prickly Seeds.* Doftor *Linnaeus* has ranged this Plant in his Genus of *Tordylium*, which is included in the Second Division of his Fifth Clafs of Plants, intituled, *Pentandria Digynia*, the Flowers having Five Stamina and Two Styles.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented is,

CAUCALIS *arvensis echinata latifolia, C. B. P. 152* Broad-leaved prickly Field Baftard Parfley.

** represents a fingle Flower taken from the Umbel, Aewing the Flower, which confifts of Five Parts. *b*, represents a Clufter of Seeds. *c*, the Empalement of the Flower, which is cut into Five acute Segments. *d*, the Two Seeds which fucceed to each Flower, *e*, a fingle Seed feperated, fhewing the fmooth Side.

John Bauhin has titled this Plant, in his Hiftory, *Lapfula canaria latifolia, five caucalis, Vol 3. p. 2. 80.* And, by *Columna*, it is titled, *Echinophora quarta major platyphyllos purpurea*. *Par. 1. 97.* And, by Doftor *Linnaeus*, it is intituled, *Tordylium umbella conferta mediuf-*

cula, foliis pinnatis, foliolis lanceolatis incifo-ferratis *Sy Lin. Sp. PL 240.*

This Plant is annual, rifting from the Seeds which fall in the Autumn, where they are permitted to fcatter, or when they are cultivated in Gardens: The Seeds fould be fown foon after they are ripe, otherwise they do not fucceed well. The Plants grow about Two Feet high, and divide into Branches, which are deeply chanelled, and covered with Hairs; thefe are garnifhed with broad Leaves, which are divided into feveral Lobes, being deeply cut or jagged, and ferrated on their Edges. At the Top of each Branch the Flowers are produced in Umbels, each of thefe being compofed of Three, Four, or Five, fmaller Umbels, which are for the mod part compofed of Seven Flowers; thefe are of a purple Colour, having Five Leaves, and in the Center is placed the double Ovarium, attended by Five Stamina; thefe are inclofed in an Empalement of One Leaf, cut at the Top into Five acute Segments. When the Flower is paf, the Ovarium fwells, and becomes Two Seeds joined clofe together, covered with a prickly Coat or Cover. It flowers in *June*, and the Seeds ripen in *Auguft* or *September*.

The Plants of this Genus were formerly eaten as Sallad Herbs, but of late they have not been ufed either in Food or in Medicine; but fome of the medical Writers have attributed great Virtues to thefe Plants. *Matthiolus* fays, that thefe Herbs comfort the Heart, and remove Obftructions of the Liver and Spleen, and cleanse the Bladder and Reins of Gravel, if the Juice of the Herb is drank. There are many other Virtues attributed to thefe Plants, but at prefent they are not ufed. It grows wild in fome Parts of *Cambridgefhire*, but not very common. *Lobel* fays it is called *Caucalis* from the Form of the Seeds, which refemble oblong hemifpherical Veffels.

P L A T E LXXXVI.

CEANOTHUS, *Lin. Gen. Plant. Edit. 5. Celajtrus, Edit. i. Euonymus, Com.Mort. Amft. 1. p. 16y. Pluk. Almag. *39. Jerfey Tea.*

DOctor *Linnaeus* ranges this Plant in the Firft Section of his Fifth Clafs of Plants, intituled *Pentandria Monogynia*, from the Flowers having Five Stamina and One Style. In the Catalogue of the Garden of Mr. *Clifford*, and all his former Writings, he joins this Plant to his Genus of *Celastrus*, or Staff-tree; from which he has fince feperated it, and conftituted a new Genus, of which we have at prefent Four Species.

The Characters are,

The Flower hath a turbinated Empalement of One Leaf, which is cut at the Top into Five acute Segments, and is permanent. The Flower is compofed of Five roundifh Petals, which are equal, and do not extend beyond the Empalement, as is represented at *a*. In the Centre of the Flower is fituated the three-cornered Germen, on which is placed a cylindrical Style having a blunt Stigma -, thefe are attended by Five Stamina, placed oppofite to the Petals, crowned with roundifh Summits. When the Flower is paf, the Germen becomes a three-cornered dry Capfule, represented at *b*, being divided into Three Cells, each having a fingle Seed, represented *c* and *d*; at *e* is fhewn a Clufter of the dry Seed-vffs, as they naturally grow.

NUMB. XV.

The Species here represented is

CEANOTHUS *foliis trinerviis, Lin. Sp. Plant. 195. i. e.* Ceanothus with Leaves having Three Ribs or Veins.

This is commonly called *New Jerfey Tea*, and by fome Gardeners *Carolina Spirea*. This Plant is titled by Doftor *Commelin* *Euonymus Novi Belgii Cornifemin* < *e foliis, Hort. Amft. 1. 167.* and Doftor *Plukenet* calls it *Euonymus Jujubinis foliis Caroliniensis, fruttu parvo fere umbellato, Almag. 132. Tab. 28. F. 6.* In the *Hortus Cliff or tianus* and the *Flora Virginica*, it is titled *Celastrus inermis, foliis ovatis ferratis trinerviis, racemis ex fummis alis longiffimis* and, in the Catalogue of the Garden at *Upfal*, Doftor *Linnaeus* has titled it, *Ceanothus corymbis folio lorigicribus*

P- 51.

This Shrub is a Native of *North America*, from whence the Seeds have been brought to *England* by the Title of *New Jerfey Tea*, as it is fuppofed, from the Leaves being ufed as *Tea* in that Country. It was many Years ago growing in the Bifhop of *London's* Garden at *Fulham*, as alfo in Mr. *Derby's* Garden at *Hoxton*, but was for feveral Years after loft in *England*, and has been recovered again from *America* within a few Years paf, fo as to be at prefent pretty common in mod of the curious Gardens near *London*. Doftor *Plukenet*, who was the Firft Author that has mentioned this Plant, has alfo given a fmall Figure of it in his *Phytographia*, but it is

Q^

too

too small and imperfect, being drawn from a dried Specimen. Doctor *Commelin's* Figure was drawn from a Plant which had been too tenderly nursed in a Green-house, whereby the Spikes of Flowers are separated, and drawn very loose; whereas when the Plants grow in the open Air, the Flowers are always produced in very close Spikes, as they are represented in the Figure here annexed. In the Description of this Plant, Doctor *Commelin* mentions that the Leaves continued on it all the Winter; and only dropped off in the Summer, when they were immediately succeeded by new ones: But this must have happened from the Plants being too young, and their being kept in a warm Green-house; for all those Plants which grow in the open Air, shed their Leaves in the Autumn, and this they also do in their native Country, so there is no Doubt of its being a deciduous Shrub. The Seeds of this were sent to Doctor *Commelin* from *New Holland*; and I have received Seeds of it from *New England, Virginia, Philadelphia, and Carolina*, so that it certainly grows naturally over the greatest Part of *North America* & for the *French* Writers mention it growing very common in *Canada*, where the Cattle browse on the young Shoots, whereby it is always kept very low; and they recommend the Use of the Root in venereal Cases.

This Shrub seldom rises more than Three or Four Feet high in *England*, branching out on every Side near

the Ground. The Branches are very lender; and as it is pretty late in the Spring before they begin to shoot, unless the Autumn proves dry and mild, the tender Shoots are often killed down very low by the early Frosts; but, in favourable Seasons, the extreme Parts of the Shoots only are injured by the Cold. These Branches are garnished with oval-pointed Leaves having Three longitudinal Veins running from the Footstalk to the Point, which diverge in the broad Part of the Leaves from each other: The Leaves are placed opposite by Pairs, and are of a light-green Colour. At the Extremity of each Shoot the Flowers are produced in close thick Spikes, which are composed of Five small Leaves, and are of a clear White: These appear in July, and make a very fine Appearance during their Continuance; for, as every Shoot is terminated by one of these Spikes, the whole Shrub is covered over with Flowers, the Branches commonly growing very close to each other. After the Flowers are past, there succeeds to each Flower a tricarpular Seed-vessel, flattened at the Top, opening into Three Cells, each having a single Seed. In warm Seasons the Seeds will ripen very well in *England*. This Shrub is best propagated by Seeds, which should be sown in small Pots, and plunged into a moderate Hot bed, to bring up the Plants, which should be enured to bear the open Air by Degrees, as soon as they have obtained a little Strength.

P L A T E LXXXVII.

CELASTRUS, *Lin. Gen. Plant.* 239. *Euonymus, Com. Hort. Amjl.* 1. 163. *Rauï Bend.* 72. *Method. Plant.* 155. *Lycium, Boerh. Ind. alt.* 2. 237. The Staff-tree.

THIS Genus of Plants is ranged by Doctor *Linnaeus* in his Fifth Class of Plants, intitled, *Pentandria Monogynia*, from the Flower having Five Stamina and a single Style. The Title of *Celastrus* has been applied to One Species of *Alaternus*, by many of the old Writers on Botany; so Doctor *Linnaeus* has revived that Name, and constituted a Genus under that Title, and has applied it to some Plants which were distributed under Two or Three different Genera by former Botanists.

The Characters of the Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented is*

CELASTRUS *spinis nudis, ramis teretibus, foliis acutis, Hort. Cliff.* 72. i. e. Staff-tree with naked Spines, taper Branches, and pointed Leaves. This has been ignorantly titled *African Berberry* by some Gardeners.

a, represents a single Flower spread open, shewing its Five Leaves, with the Five Stamina which are spread open, as at *b*; and in the Center is situated the swelling Ovarium, supporting the cylindrical Style, *c*, shews an entire Fruit, with its permanent Empalement. *d*, the Fruit cut through transversely, shewing the Three Cells, with the Seeds lodged in them. And *e* a single Seed taken out of the Fruit.

This Plant is figured, in the *Hortus Amstelodamensis*, by the Title of *Lycium Aethiopicum, pyracanth* foliis*, Vol. 1. p. 163. Doctor *Boerhaave*, in the Catalogue of the *Leyden* Garden, mentions this Plant twice, first under the following Title, *Rhamno fimilis Africana, fructu triloculari, folio Pyracanthi, Ind. Alt. z. p.* 212. and afterwards by this Title, *JLuonymus Africanus crassifolius*

fempervirens, capsula triloculari asperata rubente Ind. Alt* 2. p.* 237. Doctor *Plukenet* gives it the following Title, *Euonymo affinis Aethiopica, Lycii foliis &? aculeis, fructu Euonymi Almag. 130. Tab. 280.*

This Plant grows naturally in *Ethiopia*, from whence the Seeds were brought to the Gardens in *Holland*; and, from the Plants which were there raised, most of the curious Gardens in *Europe* have been supplied. It seldom grows more than Three Feet high in the Gardens here. The Stem of this Shrub is generally crooked, and the Branches are, irregular and taper. These are garnished with Leaves which are about Two Inches long, and half an Inch broad, some ending in a Point, and others are obtuse; they are stiff, and of a shining green Colour, smooth on their Edges, and are placed without any Order on the Branches. The Flowers are produced loosely in small Tufts, (landing upon pretty long Footstalks) these are of a dirty-white Colour, and are composed of Five Petals, which spread quite open, and in the Center is placed a swelling Embryo, crowned with a tapering Style; these are attended by Five Stamina, which arise from the Embryo, and spread open, being situated between the Petals of the Flower, each being crowned with a blunt Summit. After the Flower is past, the Embryo swells, and becomes an oblong pointed Fruit, of a reddish Colour, which opens into Three Cells, in each of which is lodged an oval hard Seed. The usual Time of its Flowering here is in *June, July, and August*, and the Fruit ripens the Winter following. As these Plants are ever-green, so they make a pretty Variety in the Green-house during the Winter-season, especially when they have a good Quantity of Fruit on their Branches, which, together with some Flowers which are frequently produced at that Season, make a very agreeable Appearance during the whole Winter, which renders this Plant more valuable. The Method of propagating it, together with the Culture, are fully exhibited in the *Gardener's Dictionary*.

N. 1802

Arbutus
laevis
et pl.
Cornus
latifolia
Lep.



Celastrus
sp.
Lep.

CELASTRUM *sp.* *laevis* *var.* *laevis* *foliis* *ovatis* *laevibus* *Herb. Hort. Cliff.*

W. Smith del.

J. Miller sculp.

Printed according to an Act of Parliament by R. Taylor, 1794.



CELTIS fructu obscure purpurascante Scop. 612.





Fig. 1. CERASUS hortensis plene flore C.B.P. 457.
 Fig. 2. CERASUS fruticosa Canadensis oblonge anguste folio flore fructu parvo Linn. Hort.

Revised according to the notes of the artist pp. the letters May, 22, 1788

P L A T E LXXXVIII.

CELTIS, *Tourn. Inft. R. H. 612. Lin. Gen. Plant. 1012.*
Lotus arbor, Rail Meth. Plant. 150. The Lote or
Nettle-tree. In French, Micocoulier.

THIS Genus of Plants hby Doctor Tournefort placed in the Second Section of his Twenty-first Clafs, intituled, *Trees and Shrubs with a Rose-Flower, whose Pointal turns to a Berry.* Mr. Ray ranges it in his Clafs of Trees whose Fruit is succulent, and joined to the Bottom of the Flower. Dodor Linnaeus places it in his Twenty-third Clafs of Plants, intituled, *Polygamia Monoecia*, from the fame Tree having Male and Hermaphrodite Flowers.

The Species here represented is,

CELTIS fruëiu obfeure pur pur afcent e, *Tourn. Injl. 612.*
American Lote or Nettle-tree, with dark-purple Fruit.

*» represents an Hermaphrodite Flower, *b*, a Fruit full grown, *c*, the Fruit cut tranfverfely, {hewing its fingle Cell, *d*, a Seed taken out of the Cell. *, the Two crooked Pointals which (land on the Embryo, and are encompass'd by the Stamina in the Center of the Flower. Mr. Ray titles this Tree, *Lotus arbor Virginiana, fruftu rubro, Hift. 1917. Do6lor Gronovius, in the Flora Firginica, calls it Celtis procera, foliis ovato-lanceolatis ferrafis, fruffu pullo, p. 195; and Doftor Linnaeus, in his Species Plantarum, titles it, Celtis foliis oblique-ovatis ferratis acuminatis, p. 1044.*

This Tree grows naturally in *North America*, where it becomes a large Tree : It is generally found on moift rich Ground, in the Woods over moft Parts of *North America*. This Species is much more common in *England* than that with black Fruit, though the latter grows naturally in the South of *France*, in *Spain*, and *Italy*; yet is equally hardy, and will bear the C&ld of this Climate full as well. But I do not remember to have iben more than Two large Trees of the *European* Sort in any of the *Englijh* Gardens ; one of which was growing in the Bifhop of *London's* Garden at *Fulham*, and the other

in Do6lor *UvedaPs* Garden at *Enfield*: The latter was (landing a few Years fince, when I paid a Vifit to that Garden ; but the other at *Fulham* was cut down, with many other curious Trees, feveral Years ago.

There are feveral pretty old Trees, now growing in the Gardens near *London*, of the Sort here figured, which produce great Quantities of Fruit annually, and there feldom comes any Quantity of Seeds from *North-America* without having fome of thefe among them ; fo that it is now become common in moft of the Nurfery Gardens near *London*. The Flowers of this Tree are produced in *May*, and always appear as foon as the Leaves are put out, fo they are fully expanded before the Leaves are grown to half their Size, as may be feen by the Branch here exhibited with the Flowers, which is represented in the natural State of the Tree at that Seafon; and the other Branch, which is laid at the Bottom, represents their Leaves when grown to their full Size. As it is late in the Spring before the Leaves come out, fo they commonly continue as long in Beauty in the Autumn, for they are the lateft in fading of any of the deciduous Trees ; nor do they alter their Colour long before they fall, but continue in full Verdure till within a few Days of their dropping off; and, fo foon as they begin to fall, the Trees will in a few Days be quite deftitute of Leaves, fo that the Litter which their falling Leaves occafion may be fooner cleared away than that of any other deciduous Tree. There is little Beauty in the Flowers or Fruit of this Tree; but, as the Branches are well clothed with Leaves, which are of a fine green Colour, fo the Trees, when mixed with others in Wilderneffes, make a pleafing Variety during the Summer Seafon. The Wood of this Tree, being tough and pliable, is efteemed by Coach-makers for the Frames of their Carriages.

The Leaves of the Sort here represented are much broader and fhorter than thofe of the *European* Kind, which, together with the Colour of the Fruit, makes a fufficient Diffindion between them.

P L A T E LXXXIX.

CERASUS, *Tourn. Inft. R. H. 625.Tab. 401. Rail Meth. Plant. 150. Prunus, Lin. Gen. Plant. 546. The*
Cherry-tree. In French, Cerifier.

DO6lor Tournefort ranges this Genus in the Seventh Section of his Twenty-first Clafs of Plants, intituled, *Trees and Shrubs with a Rose-shaped Flower, whose Pointal becomes a Fruit having a hard Shell*

Mr. Ray places it in his Clafs of Trees with moift Fruit which is fattened to the Bafe of the Flower: And Dodtor Unnaus ranges it in his Twelfth Clafs of Plants, which he titles *Icofandria Monogynia*; in this Clafs he places all thofe Plants whose Flowers have more than twenty Stamina. In the laft Edition of his *Genera Plantarum*, he has joined to the Plum the *Apricoek*, *Cherry* and *Padus*, of his former Edition, making all the fame Genus-, but, although they nearly agree in

the Characters of their Flowers, yet, if the Fruit is admitted as one of the Characters, the *Cherry* muft be kept feperate from the *Plum* by the Shape of the Fruit, and particularly of the Stone, which in Form is very different; nor will the *Cherry* grow upon a Plum-ftock, or the *Plum* upon a *Cherry*-ftock, by grafting or budding; fo that there is an effential Difference in their Nature; for all Trees and Shrubs of the fame Genus are found to fucceed when budded or grafted upon each other, however they may appear to differ in their outward Form.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented are,

FIG. 1. CERASUS hortenfis, pleno flore, C. B. P. 450.
 The Manured or Garden *Cherry-tree*, with double Flowers.

Flowers. This is the *Cercus multiflora* of *Tabernaemontanus*, and *Cercus pleno flore* of *John Bauhin*.

This Tree is cultivated in the Gardens for the Beauty of its Flowers, which come out in *May*, and, during their Continuance, make a very fine Appearance, each Flower being as double as a common Rose, and of a much larger Size than any of the single Flowers; so that, as the Trees are generally well garnished with them, there are few of the Flowering Trees which make so good an Appearance as this. It is propagated by grafting or budding it upon any common Cherry-stock; but, when they are designed for large Standards, the black or wild Cherry-stock is best; but, if they are intended for low Shrubs, they may be grafted upon the *Bird Cherry*, which will stint their Growth, and cause them to be Dwarfs.

FIG. 2. *CERASUS pumila Canadensis, oblongo angustifolio, fructu parvo, Du Hamel*. Dwarf Cherry, with narrow Leaves, and a small Fruit.

This is probably the same which is described by *Mat-*

thicks, Gerard, and some other Botanists, and was formerly in many of the *Englijb Gardens*. This Shrub seldom rises more than Three or Four Feet high, and divides into many (tender) Branches near the Ground, which are covered with a reddish brown Bark; these are garnished with long narrow Leaves, which are whitish on their under Side, and of a light Green on their upper Side, coming out without any Order. The Flowers come out Two or Three together at each Joint, the whole Length of the Branches, supported by long (tender) Footstalks, each having Five Leaves, which are much narrower than those of the common Cherry; these are succeeded by a small red Fruit, which is of an acid Taste. It flowers in *May*, about the same Time as the common Cherry, and the Fruit ripens in *July**. The Branches of this Shrub, being laid down in the Ground, take Root, so may be easily propagated by that Method. The Seeds of this Cherry were sent me from *Paris* by the Title of *Ragouminier*, which I find is the Name given to it in *Canada*, where they also call it *Nega*, or *Minel*. This Shrub may be planted in Wilderness Quarters, where, being intermixed with others of the same Growth, it will add to the Variety.

P L A T E X C.

CEREUS, Par. Bat. 122. Boerh. Ind. Alt. 1. 292. JuJJ. A3. R.S. 1716. Callus, Lin. Gen. Plant. 529. Torch Thistle.

THIS Genus of Plants is by Doctor *Boerhaave* placed among those Plants which have many Pods succeeding to each Flower, which by no means agrees with this Plant; but it would more properly come under his Class of Apple-bearing Plants, where he has placed the *Opuntia*. Doctor *Tournefort* has not mentioned this Genus in his Institutions of Botany; though many of the Species had been figured and described by *Herman*, and other Botanists, before *Tournefort*. Mr. *Ray* has inserted this Genus, with some others which were omitted in his *Method of Plants*, in an Appendix to that Book. Doctor *Linnaeus* ranges this Genus in his Twelfth Class of Plants, intitled, *Icosandria Monogynia*, the Flowers having many Stamina and One Style, and he has joined to this Genus the *Opuntia* and *Melocactus* of *Tournefort*, and the *Peregrina* of *Plumier*.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented is,

CEREUS scandens minor polygonus articulatus, Par. Bat. 120. Smaller creeping Torch Thistle, with jointed Branches having several Angles. It is also titled, by Doctor *Herman*, *Cereus curaffavicus amplexicaulis polygonus minor, Par. Bat.*; and, in the *Hesperides Norimbergensis*, it is called *Cereus Americanus major articulatus, flore maximo non Heferient e, suaviffimum odor empirante, Vol. 1. p. 133. Tab. 234.* Doctor *Linnaeus* titles it *CaRusrepens jubquinquangularis, Sp. Plant.* ^6y.

a represents the scaly Empalement of the Flower, which is composed of many narrow long Leaves, which are of a yellowish Colour within, *b*, shows the white Petals of the Flower, *c*, the Style in the Center of the Flower, which is divided at the Top into many (tender) Segments, *d*, the Stamina of the Flower, with their blunt Summits, which immediately surround the Style. *e*, represents the Bud of the Flower before it opens. *f*, the Embryo of the Fruit, which, in the Country

where it grows naturally, swells to the Size of a Bergamot Pear; but, in *England*, the Whole falls off together, without producing any Fruit.

It grows naturally in the Islands of *America*; where the Branches fasten their Roots into the Bark of Trees, whereby they support themselves, and climb to the Tops of the tallest Trees.

In *Europe* this Plant is preferred in Stoves, being too tender to live through the Winter here without artificial Heat. If the Pots, in which these Plants grow, are placed against the Wall of the Hot-house, the Branches ^{TM P u t} ^t Roots which will fasten themselves to the Wall, and may be trained to the Top of the Hot-house; and, where there is a sufficient Height for them to grow, they will in a few Years run to a great Extent, and will produce a great Number of Flowers annually. These Flowers are of short Duration, never continuing in Beauty above Eight or Ten Hours; beginning to open in the Evening between Seven and Eight of the Clock, are fully blown by Eleven, and by Three or Four the next Morning fade, and hang down quite decayed; but, during their Continuance, there is scarce any Flower of greater Beauty, or that makes a more magnificent Appearance, for the Calyx of the Flower, when open, is near a Foot Diameter; the Inside of which, being of a splendid yellow Colour, appears like the Rays of a bright Star, and the Petals of the Flowers being of a pure White adds to the Lustre; and the vast Number of recurved Stamina, surrounding the Style in the Center of the Flower, make a fine Appearance; and add to this the fine Scent of the Flower, which perfumes the Air to a considerable Distance: There is scarce any Plant which deserves a Place in the Hot-house so much as this; especially as it is to be trained against the Wall, where it will not take up Room. The usual Season of its Flowering is in *July*, and, when the Plants are large, they will produce a good Number of Flowers, so that there will be a Succession of them for several Nights, and many of them will open the same Night: I have frequently had Six or Eight Flowers open at the same time, which have made a most magnificent Appearance by Candlelight; but none of them have ^{TM P u t} succeeded by any Appearance of Fruit.



*Callis
...
...*

...

...

CEREUS grandis var. polygonus articulatus Desf. Bot. 125.

... Lond. 11.

... Lond. 11.

...

Handwritten text at the top of the page, including a date "1771" and a name "Linnæus".



P L A T E XCI.

CERINTHE, *Tourn. Inft. R.H.79. ^ab.16. RaiiMeth. Plant. 57. Ljn^ Qen% piant. 171. Honey wort. In French, Melinet.*

Tournefort places this Genus in the Third Section of his First Clafs of Plants, intituled, *Herbs with a Bell-Jhaped Flower of One Leaf, whose Pointal turns to a dry Fruit having Two oblong Seeds.* Mr. Ray ranges it in his Thirteenth Clafs of Plants, which he titles *Herbs with rough Leaves*; and Doctor *Linnaeus* Places it in his Fifth Clafs of Plants, intituled, *Pentandria Monogynia*; the Flower having Five Stamina, and a Single Style

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here represented is,

СЕРУК HE *quorundam major, flore ex rubro purpurascente,* J. B. 3. 603. Greater Moneywort, with a purplish red Flower.

*a** shews a Flower cut open, representing the Stamina
b. *d* represents the Empalement of the Flower with Us Pointal. *d*, the Sffid-veffel containing Two Seeds.

This is the Third Sort mentioned in the *Gardener's Dictionary*,

Caspar Bauhin titles it *Cerinthe flore ex rubro purpurascente, Pin. 258.* Doctor *Linnaeus* joins this Species to that with yellow Flowers, making them only different Varieties, under the following Title, *Cerinthe foliis amplexicaulibus, frutibus geminis, corollis obtusifculis patulis,* L' P^{ant} 136. *i. e.* Honeywort, whose Leaves embrace the Stalks, with a double Fruit, and a spreading obtuse *lower. But although, from the Colours of the Flowers of the Two Sorts only, they may be esteemed Varieties; yet I could never find that either of them changed or altered their Colours from Seeds; for I have cultivated both Sorts for Thirty Years, and have always found,

that the Seeds produced Plants with the same coloured Flowers as those from which they were gathered. These Plants grow naturally in *Italy, Spain,* and several Parts of *Germany.*

The *Bees* are very fond of these Plants; so that, during their Continuance in Flower, they are constantly flying from Flower to Flower, -and sucking out the mellous Liquor which is lodged in the Bottom of each. The Flowers of these Plants do generally hang downward; so that the *Bees* are upon the Wing during their thrusting their Proboscis up the Flower to get out the Liquor. I believe there can be no doubt of this Plant being the same with what the ancient *Romans* mention under the same Appellation. *Virgil* titles it *Cerint ha ignobile gramen,* which Epithet may probably be given to this Plant, from its becoming a very troublesome Weed, and that no Cattle will eat it. For these Plants do produce a great Number of Seeds, which in a warm Climate do vegetate immediately after Rain, whereby the Ground is filled with the Plants: And as, in those warm Countries, there may be Three or Four Successions of Plants from Seeds in One Year^ so they may be ranged among those which are esteemed as bad Weeds. However, as it is a favourite Plant of the *Bees,* so those Persons who have an *Apiary* should cultivate a Number of these Plants in their Gardens, where, by the Diversity of their spotted Leaves, and hanging Flowers of different Colours, they will add to the Variety.

They are annual Plants, which, if sown in the Spring, do flower in *July* and *August,* and their Seeds ripen in *September* which if permitted to scatter, the Plants will many of them come up the same Autumn; and in moderate Winters, or if growing in a warm Situation, they will live through the Winter and these autumnal Plants will grow much larger than those which are sown in the Spring, and will flower at least a Month earlier: But as the Stems of these Plants are succulent, a very hard Frost generally kills them.

p L A T E XCII.

CHELIDONIUM, *Tourn. Inft. R. H.23J. Tab. 116. Lin. Gen. Plant. 572. Chelidonium majus, Raii Meth. Pl. 100. The greater Celandine; in French, Chelidoine, or Eclairé.*

Tournefort ranges this Genus of Plants in the Sixth Section of his Fifth Clafs, intituled, *Herbs with a crests Jha-ped Flower, whose Pointal turns to a Pod One Cell.* Mr. Ray places it in the Fourth Section of the Twentieth Clafs of Plants, which is titled *Herbs K'Uk anomalous Flowers of Four Leaves.* Doctor *Linnaeus* ranges it in his Thirteenth Clafs of Plants, intituled, *Mtyandna Monogynia*; the Flowers having many Stamina, and One Style. To this Genus he joins the *Glau-««»of Tournefort.*

The Characters of this Genus are exhibited in the *hardener's Difiionary.*

The Species here represented are,

ЧЕЛ HELIDONIUM *majus vulgare, C. P. B. 144. j ^ .common greater Celandine. This is the Chtlidonta otjohn Bauhin, Par. 3. 482. and Chelidonium »W Dod. Pemp. 48, rNUMB. XVI.*

#, represents the Petals of the Flower, which are Four in Number, placed in Form of a Cross. *b*, the single Style in the Center, *c*, the many Stamina, *d*, the Pod laid open. *e*> the Seeds.

FIG. 2. CHELIDONIUM *majus, foliis quernis, C. B. P. 144.* Greater Celandine, with Oak Leaves. This is the *Chelidonium folio lacinato* of *John Bauhin, 3. 483.* and the *Chelidonium majus laciniato flore^ Cluf Hift. 203.* Doctor *Lirwam* supposes these to be only feminal Varieties \ so joins them together under the following Appellation. *Chelidonium pedunculis umbellatis, Spec. Plant. 505.* But, from upwards of Thirty Years having cultivated both these Plants, I could never find they altered, but their Seeds always produced the same as the Parent Plant. But there is another Species mentioned by some Writers on Botany, by the following Title: *Chelidonium majus, foliis & flore minutissime laciniatis, II. R. Par.* which is only a Variety of the Second Sort; for I have frequently had Plants produced from the Seeds of that, whose Leaves and Flowers were much finer cut, and jagged, than those of the Parent Plant: And these Varieties are frequently seen growing together; but I never saw the

K co m mop

common Sort rife from the Seeds of thofe, nor do the Seeds of the common ever produce thefe; therefore they may be allowed as deferent Species.

The Firft Sort grows wild in uncultivated Places, and on the Sides of Banks in divers Parts of *England*, and flowers in *May* and *June*. The Second Sort is only to be found in fome particular Places where it has been fown; but if the Seeds are permitted to fcatrer, the Plants will come up, and maintain their Situation in as great Plenty as the common Sort, and become a troublefome Weed in Gardens.

The common Sort is ufed in Medicine, and is efteemed aperitive and cleaning, opening Obftructions of the Spleen and Liver; and is in great Ufe in Curing of the Jaundice and Scurvy. It is alfo by fome reckoned to be cordial, and a good Antidote againft the Plague. A Quantity of this Herb is put into the Compofition of *Aqua Mirabilis*. The Juice of this Herb is ufed out-

wardly to take away Warts, Specks, and Films; for Tetter, Ringworms, and (curly Breakings-out. The bruifed Herb, mixed with Hogs Lard, being applied to Warts, will confume them, as I have frequently experienced. The Juice of this Plant is by fome recommended to be applied to the Eyes, to eat off Film; but as it is very full of Acrimony, fo it may be very dangerous, unlefs it is mixed with other Things to blunt the Edge of its Acrimony, as Milk is faid to do. It may alfo be unfafe to adminifter this inwardly without the fame Precaution.

In the laft Edition of *Rafs Synoffis*, this Plant is intitled *Papaver corniculatum luteum*, *Chelidonia difum*, p. 309. to diftinguifh it from the *Chelidonia minus Ger.* which Dr. *Tournefort* has placed in the Genus *Ledum nunculus*, and Doctör *Boerhaave* has feperated from the *Ranunculus*, and put under the Title of *Chelidonia*, from the Empalement of the Flower having Three Leaves.

P L A T E X C I I I .

CHELONE* *Tourn. Acad. Reg. Sc.* 1706. *Tab. 7. Fig. 2.*
Flor. Virg. 70. *Bitten. Gen.* 11. *Lin. Gen. Plant.* 666.
We have no *Englijh* Name for this Plant.

THIS Plant (hould be ranged in the Fourth Sediön of *Tournefort's* Third Clafs of Plants, intituled, *Herbs with an anomalous perforated tubulous Flower of One Leaf*; and, according to Mr. *Ray's* Method, it hould be ranged in his Nineteenth Clafs of Plants, intituled, *Herbs with an irregular Flower of One Leaf* having many Seeds in a *Capfule*. Doctör *Linnaeus* places this Genus in his Fourteenth Clafs of Plants, intituled, *Didynamia Angiofperma*; the Flowers having Two long and Two fhorter Stamina, and many naked Seeds fucceeding each Flower.

The Chara&ers of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here repreftented is,

CHELONE *floribus fpeciojis pukherrimis colore rof<e damafcen<e*, *Clayt. Flor. Virg.* 71. *Chelone* with a fpecious Flower of the Colour of the *Damask Rofe*.

a, represents the Corolla of the Flower fplit open, *b* «iid *c*, the Four Stamina, Two longer than the other. *d*, the Stylus. *e*> an intire Seed-veffel. *l*, the Seed-veffel cut through, (hewing the Two Cells, *g*, the Seed.

There are Two or Three more Species of this Genus of Plants; one with a white Flower, which is the mod common in the *Englijh* Gardens; another with a pale blue Flower, which is at prefent very rare in *England*; and one which is called *The Humming Bird Tree* by *Jofcelin*, in his *New England Rarities*. This is alfo pretty rare in *England* at prefent. They are all Natives of *North America*, where they generally grow upon boggy Places, and propagate much by their creeping Roots. The Sort here repreftented is the moft beautiful, the Colour of the Flowers being of a deep Red, and the flowers are lbmewhat larger than thofe of the

white. This is the Second Sort mentioned in the *Gardener's Dictionary*, which was fent from *Virginia* by Mr. *Clayton* a few Years pad. Thefe Plants are very hardy, and propagate faft by their creeping Roots; they require a moid Soil and a fhady Situation, flower in *Auguft* and *September*, but do rarely produce good Seeds in *England*; fo are only propagated by planting of their Roots, which is beft done in *March* before they put out their Shoots, when they will foon make new Roots, and thefe will be eftablifhed before the dry Seaön comes on; for if they are tranfplanted lafe in the Spring* they will not have Time to get good Rooting in the Ground before the Heat of Summer; fo that if the Seafon proves dry, they will not make any great Appearance that Year in Flower, and thofe which are tranfplanted in the Autumn, feldom do well if Winter proves fevere or very wet; therefore the Spring is by much the moft eligible Time to part and tranfplant thefe Plants.

As thefe Plants flower in Autumn, when there is a Scarcity of other Sorts, fo it renders them more valuable. Their Shoots generally rife Two Feet high having their Leaves placed oppofite, whole Bafe joifh the Stem without any Footstalk; and fometimes there are Three Leaves produced at the fame Joint, being ing the Stem. The Leaves are from Two to Three Inches in Length, ending in a blunt Point. They have feveral tranfverfe Veins in them, and are fawed on nei Edges. At the Top of the Stalk, the Flowers are produced in Spikes, each coming out from a leafy which before clofely embraces the Flower Buds; they feem to be placed *imbricatim*, like the Tiles on Houfe; but when the Flowers puffi forward, they extended a confiderable Length beyond thofe leafy vers. The Flowers are of One Leaf, are tubulous, open at their Extremity, fomewhat like thofe or the *Snapdragon*; but, inftead of the upper Part flexed as in that Flower, thefe are brnt over the fo as to form fome Refemblance of a *Tortoise*; whence Doctör *Tournefort* applied this Title to the Genus.



Acinthe
Major

Plat. bot.
Major

R. Linnæi del.

CHELONE *rubra.*

Publ. according to the original by G. Miller from 1736.

Jeffries del.



CIRSIIUM majus & singulari capitulo serrato vel incurvo altero? C.B.P.

W. Smith del.

Illustration made at Edinburgh by W. Smith, June 17 1788

W. Smith sculp.



Handwritten notes in the upper left corner.

Handwritten notes in the middle right area.

Handwritten notes in the lower left corner.



CLINOPODIUM folios ovalis rugosis verticillis ciliatis distantibus.

A. Zanetti del.

J. G. Miller sc.

Published according to the order of Parliament by J. Miller, London 1751

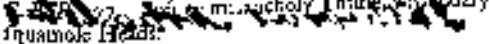
P L A T E X C I V .

CIRSIUM, *Town. Inft. R. H. 447- #**• 2SS- Cap. Bauhin. Pin. 377. Rail Metb. Plant. 40. Carduus⁸ Ltn. Gen. Plant. 532.* The great English foft, gentle, or melancholy Thiftle.

Doctor *Tournefort* ranges this Genus in the Second Section of his Twelfth Clafs of Plants, intituled, *Herbs with a flofculous Flower, whose Seeds have *owg adhering to them.* Mr. *Ray* places it in his Ninth Clafs of Plants, intituled, *Herbs with a compound Flower whose Flofcules are tubulous, and inclofed in a common Empalement, formed in an Head.* Doctor *Unuaus* ranges it in his Nineteenth Clafs of Plants, intituled, *Syngenefia polygamia aqualis*, from the Stamina being joined in each Tube, and Male and Female Flowers in the fame common Empalement. He has joined this Genus to the *Carduus*, or Thiftle; but Doctor *Tournefort*, and others, have feperated from that Genus all thofe Plants yvhoie Leaves and Heads are not armed with Spines.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here repreftented is,

CiKstvfagulap capitulo squamalo, velincanum alter urn,


a represents the Embryo of the Seed at the Bottom of the Floret *b*, where the Five Stamina and Stylus is fliewn. *c*, is One of the Seeds taken out, with the Plume on its Top. *d*, (hews the Stamina taken out of the Floret.

This is the *Cirfium Britannicum Clufii repens*, *J. B. 3. 46.* and the *Cirfium Anglicum* *jj> Cluf. Hijt. 168.* by Doctor *Haller* it is titled *Cirfium joins lsvge lanceolatis Jer-*

ratis, fubtus tementofis, Helv. 6%3. and, by Doctor *Lin³ iteus, Carduus foliis lanceolatis dentatis ampUxicaulibus> Jpinitlis in^qualibus ciliatis, cattle inermi^ Hort. Cliff. 392. i. e.* Thiftle with Spear-shaped indented Leaves embracing the Stalks, having foft Spines and a fmooth Stalk.

This Plant grows naturally near *higkberougk Hill* in *Torkjhire*. I found it in the Park adjoining to *Burrough Hall*, the Seat of *Robert Fentvick*, Elquire, but in thde uncultivated Places where it grows wild, the Stalks feldom rife much above a Foot high; whereas, in Gardens, it is generally double that Height, and the Leaves are fo much larger, that it feems a different Plant -, but, by tranfplanting it into Gardens, it foon difcovers itfelf by its greater Growth. The Stalk is fingle, arifing immediately from the Root, and is garnifhed with Leaves, which are Four or Five Inches long, and One and an half broad at their Bafe, where they embrace the Stalk. Thefe are of a fhining green Colour on the upper Side, and white underneath, being lightly indmred on their Edges, where they are befet with fine foft Prickles. Thefe are placed alternately. On the Top of the Stalk is produced a fingle Head, like that of a Thiftle; and at the Joints are often fingle Heads produced, having a foft, hairy, fealy Empalement, in which is contained many Female and Hermaphrodite Flowers of a purple Colour, which refit on the Embryo's, on a downy Placenta. The Seeds are alfo crowned with Down. The Roots of this Plant do creep far under the Surface of the Ground, whereby it propagates very faft, efcpecially in a light Soil.

This Plant is feldom preferred in Gardens, unlefs for the fake of Variety -, but I have feen it much cultivated in fome Gardens of Quacks, who pretended to cure Madnefs with it; which probably may have been occasioned by the EngUjh Appellation of *Melancholy Thijlk* given to it by *Parkinfon*.

P L A T E X C V .

CLINOPODIUM, *fourn. Inft. R. H. i?4- TM; 9* Rf Metb. Plant. 94. Lin. Gen. Plant. 644.*

Tournefort ranges this Genus in the Third Section of his Fourth Clafs of Plants, intituled, *Herbs with a labiated Flower of One Leaf, whose upper Lip is ereEl.* Mr. *Ray* places it in his Fifth Section of the Fourteenth Clafs of Plants, intituled, *Herbaceous Plants with verticillate Flcwers and oppofite Leaves* Doctor *Unnau* places it in his Fourteenth Clafs of plants, titled *Didynamia Gymnojpermia*, from the Flowers having Two long and Two bore Stamina, and being fucceeded by naked Seeds.

The Characters of this Genus are exhibited in the *Gardener's Dictionary*,

The Species here repreftented is,

CLINOPODIUM *foliis cvatis rugefis, vertidllis omnibus diftantibus*, i. e. Field Bafil with oval rough Leaves, and the Whoiles of Flowers (landing at a great Dif-

a, represents a fingle Flower feperated from the Whories, with its Empalement. *b*, the upper Lip of the Flower fpread open, *c*, the Four Stamina, Two long and Two shorter. *d*, a fingle Seed.

This Plant is a Native of *Egypt*, from whence the Seeds were fent to *Europe*, and the Plants have for fome Years pad grown in many curious Gardens, It hath a peitnniai

perennial Root, but annual Stalks, which grow a Foot and an half high. These are garnished with oval Leaves, having many transverse deep Furrows, and are of a dark green Colour, placed opposite, at about Five or Six Inches asunder. There are commonly Two or Four Side-Branched from the main Stems, produced toward the Bottom, and the Whorles of Flowers are produced at every Joint toward the upper Part of the Stalks. These are pretty large and hairy. The Flowers are somewhat larger than those of the common Field Basil, and are of a deeper Colour, stretching a little more out of the Empalement. The Leaves of this have at first Sight much the same Appearance; but when they are observed with Attention, the Difference is soon observed between the Two Sorts: But the greatest Difference is in the Leaves and Whorles of Flowers being placed at a greater Distance, and the Stalks growing sparsely in this Species; nor do the Plants continue so long as those of the common Sort.

This Sort flowers in June* commonly a Fortnight or Three Weeks before the common *Field Basil* and the Seeds ripen in September-, which if permitted to scatter, the Plants will come up in the Autumn; and if the Winter proves favourable, they will live in the open Air, provided they grow on a dry Soil; but in moist Ground they are frequently destroyed, especially when the Plants are young.

This Plant approaches near to the *Clinopodium Orientale Origani folio, flare minimo** Tour. Cowl. 12. But by comparing this with a Specimen of that Sort from the *Paris Garden*, I find the Leaves of that are smoother, and placed much nearer together on the Stalks than those of this Sort, and the Flowers are smaller; for it may be deemed a distinct Species, as these Differences are permanent, and do not alter in any of the Plant which arise from the Seeds.

P L A T E X C V I .


CLYMENUM, *Tourn. Inft. R. H. 396. Tab. 218. Lathyrus viciformis, feu Clymenum, Rait Meth. 103. Lathyrusi Lin. Gen. Plant. 781. Chichliog Vetch.*

Rburnefert ranges this Genus in the Second Section of his Tenth Class of Plants, intitled, *Herbs with a papilionaceous Flower, whose Point al turns into a long unicapfular Pod.* Mr. Ray places it in his Twenty-first Class of Plants, which contain the Herbs with *papilionaceous or leguminous Flowers* and this Genus in his First Order, which includes those Plants which are not trifoliate: And as the Leaves of this Plant do resemble the *Lathyrus* and *Vicia*, so he titles the Genus *Lathyrus Viciaformis*. But Dodon *Linnaeus* joins this, the *Apkaca* and *Niffclia* of *Tournefort*, to the *Lathyrus*, and places it in his Seventeenth Class of Plants, intitled, *Diadelphia Decandria*; the Flowers of this Class having Nine Stamina joined together, and a single One (standing separate). In this Class of leguminous Plants, *Dodon Tournefort* has departed from his own System, in the Division of the Genera, but there was a Necessity for his so doing, because, by the Method which he proposed of ranging the Plants from the Form of the Flower and Seed-veffel only, he must have enlarged many of the Genera to so great an Extent, as to have rendered it difficult to distinguish the Species, so as not to perplex his Students: And Nature seems to have pointed out this Method of dividing them by the Form of their Leaves, which are the most obvious Characters, and therefore are easily comprehended than those small Differences of the Flower cup, &c.

This Genus *Tournefort* distinguishes from *Lathyrus*, by its Leaves having several Conjugations placed on a Midrib, which ends in a Tendril, whereas those of *Lathyrus* have but one Pair of Leaves growing on a leafy Border of the Stalk, which ends in a Tendril.

The other Characters of this Genus are exhibited in the *GaiJtJcr's Dictionary*.

Th| Species here represented is.


CI^MENUM *Hispanicum flore vario, fidiq; articulate** *Tourn. Inft. 396. i. e. Spanifli Chichling Vetch, with a variegated Flower and a jointed Pod.*

a, represents the Flower in Front, (showing the Standard, the Keel, and the Two Wings, *b*, the hinder Part of the Flower. *c*, the Nine Stamina joined together, and One separated from them. *d* the Pointal, which afterwards turns to the Pod *e*; and *l*, a single Seed taken out of the Pod.

This is by *Dodon Morifon* titled *Lathyrus Viciaoides floris vexillo Pbnicio, foliis labialibus, fubalbescentibus, fidiq; Orobi, Inft. Par. 2. 55.* and by *Do&or Linn** *Lathyrus pedunculis fubunifloris^ cirrhis polyphyllis^ foliolis alternis Hort. Cliff. 363.*

This Plant grows naturally in *Spain* and *Portugal* from whence the Seeds have been sent to *England*. A have also received the Seeds from *America*; but it is not certain that it grows naturally there, or that the Seeds have been carried from *Europe* and may have propagated there in so great Plenty, as to render it doubtful whether it was not a Native of that Country. For if the Seeds are permitted to scatter in a Garden, the Plants will come up, and maintain their Situation without any Culture.

It is an annual Plant, and may be propagated in the same manner as the *Sweet Pease*. Those Plants which come up in the Autumn, if they are not destroyed by very severe Frost in Winter, will flower in *May* and *June** and the Seeds will ripen in *July*, but those which come up in the Spring, will not flower till a Month or Five Weeks after; so that, by sowing at both Seasons, there may be a Continuation of Flowers for Two or Three Months, which will mix a Variety in the Borders of the Flower Garden.



*Clematis
Petalium*

CLYMENUM, *Hymn. ii. Flore varia, filiqua articulata* Tournef. Voy. 286.

Collected according to Act of Parliament by R. Miller June 28 1752.

W. Miller del.

J. P. Miller sculp.



CHIRONIA *fontifera oppositifera* - Linn. Sp. plant. 190.

J. Smith del.

Engraved according to Act of Parliament by G. S. Walker sculp.

J. S. Walker sculp.

Faint handwritten notes in the upper left corner.



Faint handwritten notes in the lower left corner.


CNEORUM - *See H. Cliff - 11*

R. L. Smith del.

Painted according to a sketch by J. H. Smith, July 1856

P L A T E X C V E

CHIRONIA, *Lin. Gen. Plant.* 227. *Centaurium minus Com. Plant. Rar.* 8. *Tab.* 8. *Old. Plant. Afr.* 26. African Leffer Centaury.

Sorts have Two, he has feperated them, and Con* fittud this Genus by the Title of *Cbironia** from *chiron* the .

TH E Charaders of this Genus are,
The Empalement of the Flower is permanent, and is of One Leaf, which is cut into Five acute Segments at the Top, as is represented at a. The Flower is of One Leaf having a large Tube, and is spread open at the Top where it is divided into Five equal Segments, as is represented (it b. In the Center of the Flower is situated the oval Germen, supporting a slender Style c, which is declined and is surrounded by Five Stamina d, each being crowned with a large contorted Summit. After the Flower is paji, the Ovary becomes a swelling Capfule, filled with small Seeds.

This Genus of Plants is by Do&or *Linnaeus* ranged in the First Section of his Fifth Clafs, intituled, *Pentandria Monogynia*. The Flowers have Five Stamina, and One Style. There are several Species of this Genus, which have been titled *Leffer Centaury* by the several Writers who have mentioned them : Some of these have a pulpy Berry succeeding their Flowers, and others have their Seeds inclosed in a Capfule : So that, if their Fruit is admitted as a Characteristic in distinguishing the Genus, these must be feperated to different Genera.

The Species here represented is,

CHIRONA frutescens capfulifera, Lin. Spec. Plant. 190. Shrubby Chironia, whose Seeds are contained in a swelling Pod. This is by Doctor *Commelin* titled *Centaurium minus Africanum arborefcens latifolium, flore ruberrimo Rar. Pl.* 8. The Shrubby African Leffer Centaury, with broad Leaves and red Flowers. Dr. *Linnaeus* has joined all the common Species of the *Leffer Centaury* to the Genus of *Gentian*, so has abolished the Title of *Centaurium*: But as the several exotic Species have but One Style, and the *European*

This Plant is a Native of *Africa*, from whence the Seeds were brought to some curious Gardens in *Holland*, where it has been many Years preferred : But as it can be only propagated by Seeds, which are but seldom perfected in the cooler Parts of *Europe*, so the Plants have not been common in the Gardens; and being somewhat difficult to preserve through the Winter, has also prevented their being made so common as might have been expected, because the Beauty of their Flowers renders it worthy of a Place in every curious Garden.

It hath a fibrous Root, which spreads near the Surface of the Ground. The Stalks are round, and inclining to be ligneous ; but are of a soft Texture: These grow from Two to Three Feet high, having several Branches on every Side, which grow erect : These are garnished with succulent Leaves, which are an Inch or more in Length, and an Eighth Part of an Inch broad, ending in an obtuse Point. At the Ends of each Shoot the Flowers are produced, which are tubulous, and spread open at the Top like those of *Periwinkle*. These are of a bright red Colour; and when there are a large Number of the Flowers open on the same Plant, they make a very fine Appearance. In the Center of the Flower is placed an oval Germen, upon which there is fixed a recurved Style, having a blunt Stigma at the Top. This is surrounded by Five incurved Stamina, each supporting a large Summit. When the Flowers fall away, the Germen becomes an inflated Capfule* which is filled with small Seeds. The Flowers are produced from June to Autumn, and the Seeds ripen in *October*. This Plant (should be placed in an airy Glass Case in Winter, where it may enjoy a dry Air, and much Sun, but will not thrive in a warm Stove; nor can it be well preferred in a common Greenhouse, because a damp moist Air will soon cause it to rot.

P L A T E X C V I I I.

CNEORUM, *Lin. Gen. Plant.* 47. *Chamaetia Tourn. Inf.* R. *H.65i. Tab.* 421. *C. B. P.* 462. *Raii Meth. Plant.* 152. Widow-wail; in French *Camelée*.

THIS Genus of Plants is by Doctor *Linnaeus* ranged in his Third Clafs, intituled, *Triandria Monogynia*, from the Flower having Three Stamina and One Style. Do&or *Tournefort* has placed it in the Appendix to his Institutions; but it should be ranged in his Twentieth Clafs of Plants, tho' by his Method it would be feperated on account of the Flower having Three Petals; whereas those of that Clafs are monopetalous. Mr *Ray* places it in his Division of Trees and Shrubs which have noifl: Berries not umbilicated, each having a single Seed.

The Species here represented is,

CNEORUM, Hort. Cliff. 18. Widow-wail. This is the *Chamaetia tricoccos* of *Caspar Bauhin* and *Dodonaeus* &UMB. XVII.

and the *Cneorum* of most old Writers On Botany: So that Doctor *Linnaeus* has only applied the ancient Title to this Genus, instead of the modern Name of *Chamaetia tricoccos*. It has also been titled *Thymelea* by some Botanists; but as that Name is now applied to the *Mezeron*, and other Plants agreeing in the same Character, which have Flowers of One Leaf, so this Plant must not be ranged with them.

a, represents the Empalement of the Flower ; *b*, the Three Petals of the Flower; *c*, the Berries or Seeds, each Flower being succeeded by Three Seeds or Berries joined together.

The Characters of this Genus are exhibited in the *Gardeners Visionary*.

This humble Shrub seldom rises more than Two Feet and a Half high in this Country, but spreads out on every Side with many lateral Branches, so as to form a thick Bush. The Stems are ligneous, and almost as hard as those of the Box-tree \ and the Wood is of a pale

pale yellow Colour under the Bark. The Branches are garnished with Leaves, Which are stiff, of an oval Shape, about One Inch and an Half long, and a Quarter of an Inch broad, of a dark-green Colour, having a strong Vein or Rib thro' the Middle. The Flowers are produced single from the Wings of the Leaves, toward the Extremity of the Branches, which are of a pale yellow Colour, composed of Three Petals, which spread open, and a round Germen at the Bottom, having a single Style, which doth not rise above half the Length of the Stamina, which are Three in Number, (standing erect, and are situated between the Petals. After the Flowers are fallen, the Germen becomes a Fruit, composed of Three Seeds joined together after the same manner as those of *Tibymalus* or Spurge: These are first green, afterwards turn of a brown Colour, and when ripe are black. The Flowers begin to appear in May, and are succeeded by others during the Summer Months; and, when the Autumn proves favourable,

these Shrubs will continue in Flower till the End of October.

This Plant was formerly nursed up in Greenhouses, and supposed to be too impatient of Cold to endure the Winters in the open Air; but by Experience it is found hardy enough to resist the greatest Cold in England, provided it is planted on a dry Soil; for in wet Land their Roots will perish with little Cold; whereas many Plants, which have been growing in the open Air in the Tully-Garden at Chelsea upwards of 20 Years, are yet in great Vigour.

As this is a low Evergreen Shrub, so it may be very ornamental, if placed in the Front of Plantations of Evergreen Trees and Shrubs, for as the Branches grow pretty compact, and are well garnished with Leaves, so it will hide the Ground between the taller Shrubs better than most other Plants; and being a durable Shrub, will not want to be renewed: It rises better from feathered Seeds, than if sown with Care.

P L A T E X C I X .

COLUTEA, *Town. Inj. R. H. 649. Tab. 417. Raii Meth. Plata. 163. Lin. Gen. Plant. 776. Bladder-Sena*; in French, *Baguenaudier*.

THIS Genus of Plants is by Doctor Tournefort ranged in the Third Section of his Twenty-second Class, intitled, *Trees and Shrubs with a papilionaceous Flower, whose Leaves are placed on each Side the Mid-rib, either alternately or by Pairs*. Mr. Ray places it in his Class of Shrubs with papilionaceous Flowers and pinnated Leaves. Doctor Linnaeus ranges it in his Seventeenth Class of Plants, intitled, *Diadelphia Decandria*, the Flowers having Ten Stamina, Nine of which are joined together, and the other stands off at some Distance.

The Species here represented is,

COLUTEA *(Ethiopia flore phœnicio, folio Barba-jovis, Breyn. Cent. 1. 70. i.e. Ethiopian Bladder Sena, with a scarlet Flower, and Leaves like those of Jupiter's-beard. This is the Fourth Sort mentioned in the Gardeners Dictionary.*

a, shows the Flower, with its Petals; *b*, the Ten Stamina; *c*, the Pointal, which afterwards becomes an inflated Pod, as represented at *d*, which contains several kidney-shaped Seeds (seen at *e*).

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

Dr. Linnaeus titles this Plant, *Colutea fruticosa, foliolis ovato-oblongis*. By the English Gardeners it is called *Scarlet Colutea*.

This Shrub is hardy enough to live abroad in the open Air in England when the Winters are favourable, and they are planted on a dry Soil, and in a warm Situation: But in severe Winters the Plants are generally destroyed, so that it is necessary to have a few Plants in Pots, which may be sheltered in Winter, left those in

the open Air should be destroyed. But those which live abroad make much stronger Plants, and produce a greater Number of Flowers, than those which are housed in Winter.

The Plants of this Kind are seldom of long Duration; most of them decaying the Second Winter, yet in some favourable Seasons I have seen of these Plants, in a warm Situation, Three Years old, which were upwards of Six Feet high, with very large Heads, and all the Branches covered with Flowers, which made a very fine Appearance: But the usual Height to which these Plants grow, is from Two to Four Feet, and those which are exposed to the open Air will have many lateral Branches, well garnished with Spikes of Flowers, coming out at the Wings of the Leaves; which being of a scarlet colour, and intermixed with the silvery Leaves of the wants, afford an agreeable Variety. The usual Time of its flowering is in June, and the Seeds ripen in September; but in favourable Seasons the Plants often produce several Flowers in Autumn: And many times those wants, which are raised pretty forward in the Spring, will produce Flowers in August, and sometimes perfect their Seeds in October, when the latter Season proves mild.

Those Plants which are planted in Pots, to be sheltered in Winter, must be treated hardily, otherwise their Branches will be very weak, and produce but few flowers; therefore they should remain abroad in a sheltered Place until the Middle of November, unless the frost should prove severe; and when they are removed into the Greenhouse, they should be placed close to the Windows, that they may have as much free Air as possible. During the Winter they should have but little Water; and in March should be taken out of the greenhouse, and placed under some Cover, where they may be protected from any hard Frost, yet have a great share of Air to harden their Shoots before their Flower-buds are formed.



Ethiopia
Sulphur

Colutea
Ethiopia
1811
1811

COLUTEA. *Ethiopia flore phoenice folio Barb. juss. Beng. Coat. v. 1. p. 1.*

R. Smith del.

Illustrat. arabicae bot. et animal. horti bot. Julij 1798.

1811



C n J, U T E A Si-//•/•' »i•//>•' ''f• 'oo''''''•• caule frutic. /<•—

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Published according to the order of the ... 'i'i';if

1811



Fig. 1. CONVALLARIA foliis ovatis cordatis acutis basi petiolaribus sessilibus multifloris. Phil. Bot. 1753.
 Fig. 2. CONVALLARIA foliis ovatis. Fl. Lap. 1753.

Painted according to the collection of P. de Tournefort by P. de la Roche July 1753.

P L A T E C .

COLUTEA.

THIS is of the same Genus with the Plant represented on the former Plate. The several References there made to the Authors who have treated of the Characters of the Flower will serve this Plate also therefore need not be repeated.

The Species here represented is,

COLUTEA *foliolis ovatis integerrimis, caule fruticoso*.
Shrubby Bladder-Sena with oval Leaves, which are intire.

This Shrub is a Native of the East. The Seeds of it were brought to England some Years since by the Rev. Doctor *Pocock*, who gathered them in Turkey, but did not note the particular Place of its Growth: But Doctor *Ruffel*, who resided many Years at Aleppo on his Return to England brought some dried Samples of this Plant, among many others which he had collected in the Neighbourhood of that City and he assured me this Shrub was very common in that Country, and generally passed for the common *Bladder-Sena*: But whoever will compare the Two Plants together will soon see they are two very different Species: And the Difference constantly continues in all the Plants which arise from Seeds of both Sorts, as I have several Years observed: Therefore I have chosen to give a Figure of it, as it is at present undescribed; and have added a Leaf of the common *Bladder-Sena* on the Side of this, to shew how they differ in the Shape of their Leaves.

a, represents a single Flower fully blown; *b*, shews the Keel of the Flower opened, whereby the Ten Stamina, surrounding the Style at *c*, are represented; *d*, shews a Pod opened, that the Seeds at *c* may be seen how they are ranged in a single Row, adhering to a firm Membrane, which fastens both the Valves of the

Pod, and through which the Nourishment is conveyed to the Seeds.

This Shrub seldom grows more than Six or Seven Feet high in this Country. The Branches are extended on every Side, and are much more pliant than those of the common *Bladder-Sena*, therefore do not grow so erect. The Leaves are also much smaller, and of an oval Shape; whereas those of the common Sort are broad, obtuse, and indented at their Extremity, and are of a glaucous or whitish-green Colour. The Flowers are little different from those of the common Sort; but they appear at least a Month earlier, and there is a Succession of Flowers continued till late in the Autumn, which renders this much more valuable than the common Sort: And as the Branches of this Sort do not shoot so luxuriantly, nor so upright, so they are in less Danger of being broken by strong Winds in the Summer; which frequently happens to the common Sort, whereby they are rendered unprofitable, especially in small Gardens, where they are not protected from the Violence of Winds by other Trees and Shrubs.

This Sort is propagated by Seeds, in the same manner as the common *Bladder-Sena*, and is equally hardy; but the Earwigs are great Destroyers of the Seeds: So that, in order to have Plenty of the Seeds, there should be the same Caution taken as is usual to preserve the Flowers of Carnations; which is, to hang a Number of Lobster-claws, or the Bowls of Tobacco-pipes, inverted, in several Parts of the Shrubs, into which these Insects will retire for Shelter, and may be daily destroyed: But where this Precaution is not observed, they will eat into the Pods of the *Sena** and devour all the Seeds. This Sort of *Bladder-Sena* sends forth many Suckers from the Roots, by which it may also be propagated; but the Plants raised from Suckers are not so valuable as those which are propagated by Seeds, as they never grow so strong, and are subject to produce many Suckers from their Roots.

P L A T E C L

CONVALLARIA, *Lin. Gen. Plant.* 383. *Polygonatum* *Tourn. Inf. R. H.* y. *Tab.* 14. *C. B. P.* 303. *Rail Meth. Plant.* y. *Solomon's Seal*; in French, *Seau de Solomon*.

THIS Genus of Plants is by Doctor *Linnaeus* ranged in the first Section of his Sixth Class of Plants, intitled, *Hexandria Monogynia*, the Flower having Six Stamina and One Style. To this Genus he adds the *Lilium convallium* of *Tournefort*, and the *Unifolium* of *Dillenius*. Doctor *Tournefort* places it in the Second Section of his first Class of Plants, intitled, *Herbs with a Bell-shaped Flower of One Leaf, whose Point becomes a soft Fruit or Berry*. Mr. *Ray* ranges it in the Third Division of his Seventeenth Class, in which are placed the berry-bearing Plants.

The Species here represented is,

FIG. 1. CONVALLARIA *foliis amplexicaulis cauliteretis pedunculata axillaribus multifloris*, *Phil. Bot.* 218. *Lin.*

Spec. Plant. 315. 1. e. *Solomon's Seal* with a taper Stalk, whose Leaves closely embrace it, and many Flowers on each Footstalk, proceeding from the Wings of the Leaves.

a, represents a single Flower intire, taken from the Stalk; *b*, another Flower placed upright to shew the Stamina and Pointal how far these advance. *c*, is a Flower cut open, (shewing the Infertion of the Six Stamina, and the Pointal situated on the Top of the Embryo, which afterwards turns to a Berry *d*, which has a soft thin Pulp, in which is inclosed a single Seed. *e*, shews the Berry cut through.

This is the *Polygonatum latifolium maximum*, *C. B. P.* 303. and of *Tournefort*, *Inf. R. H.* 78. 1. e. The largest *Solomon's Seal*, with broad Leaves. This Sort approaches near to the *Polygonatum latifolium Hellesbori albi foliis*, *C. B. P.* but differs from it in its being smaller, and the Leaves not so long, or so deeply veined; nor do the Flowers grow so large. This is the Fifth Sort

of

of *Polygonatum* mentioned in the *Gardeners Dictionary*. It grows naturally in the Woods of *Germany, Italy, and France*; but it is equally as hardy as our common *Solomon's-Seal*, which is found in the Woods in some Parts of *England*.

FIG. 2. CONVALLARIA foliis cordatis, Flor. Lap. 133.
i. e. Convallaria with heart-shaped Leaves. This is the *Li Hum convallium minus C. B. P.* and the *Unifolium Dod. Pempt. 205.* *Camerarius* titles it *Gramen Par-naffi. Epit. 744.* and *Tournefort, Smilax unifolia humilima, fofit. R. H. 654. i. e.* Dwarf Smilax with One Leaf.

This Plant seldom grows more than Four or Five Inches high, arising with a single Footstalk from the

Root, upon which there is One or Two heart-shaped Leaves, which closely embrace it. The Top of the Plant has many small Tubes, and spread open at the Top, which are divided into Four or Five Segments: The Flowers are pale; the Embryo turns to a fleshy Berry, in which is inclosed a single hard Seed.

Plant, which with many other creeping-rooted herbs, which rarely continue fruitful. This is the *Li Hum convallium minus C. B. P.* and the *Unifolium Dod. Pempt. 205.* *Camerarius* titles it *Gramen Par-naffi. Epit. 744.* and *Tournefort, Smilax unifolia humilima, fofit. R. H. 654. i. e.* Dwarf Smilax with One Leaf.

P L A T E G E L

CONVOLVULUS, *Tourn. Inf. R. H. Si. Raii Meth. Plant. Liferot. G. m. Plant. 9.* Bindweed in *Archi*

THIS Genus of Plants is by Doctor *Tournefort* ranged in the Third Section of his first Class, in titled *Herbs with a Beset-flowered Flower of One Leaf, whose Point turns to a dry Fruit, having several Cells.* Mr. *Ray* places it in his Nineteenth Class of Seeds, titled, *Herbs bearing their Seeds in Pods, having Jar Flower of One Leaf* And Doctor *Umuja* in his Fifth Class of Plants, intitled, *Pentandria Monogyma*, the Flower having Five Stamina and One Style.

The Species here represented is,

CONVOLVULUS *Syrians, Scammoniac Syriaca Mar. run. p. 2. 12. S. 1. Tab. 3. i. e.* Syrian Bindweed, or *Sifnan Scammony.*

a, b, c, d, e, f, g. is the Root from whence the Scammony is taken, *b*, figures a Flower in Front; *c*, the Back of the Mower, with its Empalement; *d*, is a Flower cut open, to shew the Five Stamina and the Style; *e*, is a Seed-vesicle which is commonly divided into Three Cells, *f*, is one of the Seeds taken out of the Vesicle; *g*, is a Leaf separated from the Branch.

This is the *Convolvulus foliis sagittatis poftice truncatis sedunculis bifloris, Flor. Leyd. Prod. 427. Lin. Sp. Plant. 153.* and the *Scammonia Syriaca, C. B. P. 294.* *John Bauhin* titles it *Scammonia Syriaca flore trajore Convolvuli Hijii. 2. 163.*; and *Lobel, Scammonium Syria cum Antiochenum, Icon. 620.* in English, *Scammony*, in French *Scamonee*. This is the Thirty-third *Convolvulus* mentioned in the *Gardeners Dictionary*. Altho' the native Country of this Plant is about *Aleppo*, yet it is found to be hardy enough to live in the open Air in *England*. The Stalks of this Plant are annual, and perish in Autumn; but the Root abides several Years, and will grow to a large Size. The Branches come out in the Spring?

which trail on the Ground, and extend to a great Length on every Side, but have no Disposition to climb but toward their Extremity (as do most of the other Species of *Convolvulus*), the Stalks being straight, and branch out into many smaller ones. The Leaves are placed alternately on the Branches, sustained on Pedicles an Inch long: They are for the most part triangular, but vary in their Shape, some having (short, others longer Ears at their Base. The Flowers are produced at the Wings of the Leaves, on Footstalks, which are Five or Six Inches in Length, each having Two Flowers; but these never open together; for when the first is fully blown, the other is but a small Bud; so when the first decays, the other comes forward to flower; whereby there is a Succession of Flowers continued on the Plants for a long time. The Flowers are of a pale sulphur cream Colour, and are larger than the small wild *Convolvulus*. These are frequently succeeded by Seeds in *England*, which are inclosed in a dry Seed-vesicle, which hath for the most part Three Cells, in each of which is inclosed a single Seed. The Seeds of this Plant were first sent me by Mr. *Richard* Gardener to the King of *France* at *Trianon* and *Verfailles 1* in the Year 1753, which were sown in the full Ground, where they grew very well, and have continued to this time, producing Plenty of Flowers every Year in *June, July, and August*, and the Seeds ripen in *September*.

The *Scammony* which is used in Medicine is taken from this Plant; which is done by wounding of the Root, and placing a Shell to each of the Incisions to receive the milky Juice, which flows out plentifully where-ever the Plant is wounded; and when this is hardened, it is exported for Use: But of late Years they have added some other things to the Juice, to augment the Quantity, whereby the Quality of the Medicine is greatly altered, so that it is not so good as a Preparation of the Juice of the common Sort of *Convolvulus* which grows naturally in most Parts of *England*.



Cox. II. 11. *Ipomoea* f. *Acuminata* *Ipomoea* *Her. Hort. 2. p. 21. tab. 2.*

Published according to an Act of Parliament by P. Colver July 27. 1746.

J. Stiller del.



CONYZA. var. *Strophosia*. major. *Strophosia* L. H. B. 182.

Leaves painted by G. C. L. from a drawing by G. C. L. H. B. August 28 1820.



Asarum canadense
Asarum canadense

Asarum canadense
Asarum canadense
Asarum canadense
Asarum canadense

CORTEX Asarum canadense *Asarum* *Asarum*

Asarum

Asarum canadense *Asarum* *Asarum*

Asarum

P L A T E GUI.

CONYZA, RaiiMeth. Plant. 33. Boerh.Ind. Plant. 116. After. Tourn. Inji. R. H. 48 \ Tab. 274. Erigeron, Lin. Gen. Plant. 855. Fleabane > in French, Conife.

MR. Ray ranges this Genus of Plants in his Seventh Clafs, which includes thofe Plants that have a radiated difcous FJower, and downy Seeds. Doçlor *Linneus* places it in his Nineteenth Clafs of Plants, intituled, *Syngenefia Polygamia ^perflua*. The Flowers of this Clafs are Male, Female, and Hermaphrodite, joined and included in the fame common Empalement; and, according to Dodtor *Tournefort's* Method, this mutt be ranked with the Star-Worts, in his Nineteenth Clafs of Plants; in which he deludes the Plants that have a radiated difcous FJower, and pappofe Seeds.

The Species here represented is,

CONYZA mas *Theophrasti*, major *Divfcoridis*, C. B. P. *65- The Male Fleabane of Theophrastus, and the Greater of Diofcorides.

*, fhews an intire Head of Flowers, included in one common fcaley Empalement; *b*, one of the Florets which compofe the Difk of the Flower, which is cut to fhew the Five Stamina and Pointal; '*c*', the ary supporting the Style; *d*, one of the Half-ts which compofe the Border of the Flower; and *e* is one of the Seeds, with its Down.

This is, *i*, *j*, *e* *Conyza major* of *Dodoneus* and *Clufius*. *John Raubm* titles it, *Conyza major Montpelliern odorata*, *Hil.* 1053- *i* - *e*. The greater fweet-fcenred Fleabane of *iviontpelijer*. This is the Fourth Species in the *Garden-nary*. Doçtor *Linnaus* has joined this Plant to *ne hroundje!*, and titles it, *Erigeron pedunculis unijloris weralibus, calycibus Jquamofis*, *Hort. Upfal.* 258. *Tourne-*

fort has not mentioned this Plant in *hWnfütutions of Botany*, altho' it is a common Plant in the South of *France*^ from whence I received the Seeds; and as there is not a good Figure of the Plant in any of the Books of Botany, I have had this taken from the growing Plant in the *Chel/ea* Garden.

The Root of this Plant is perennial; but the Sialk is annual, and decays in Autumn, foon after the Seeds are perfe&ed, and new Stalks arife from the Root every Spring. Thefe grow about Three Feet high, and are garnifted, with Leaves placed alternately, which are from Four to Six or Eight Inches long, and Three broad, in the wideft Part. They are a little hairy, and foft to the Touch; but in hoc Weather both Leaves and Stalks fweat out a glutinous Liquor, which is very clammy. The Flowers are fingle, and grow at the Extremity of each Branch: Thefe are of a yellow Colour, having a Border of Semi florets, inclofing a great Number of Florets which are Hermaphrodite, and are all inclofed in a common fcaley Empalement. Thefe have a ftrong Scent. After the Flowers are pad, the Ppintal of each turns to an oblong Seed, having Down adhering to it, by which the Seeds, when ripe, are wafted by the Wind to a confiderable Diftnce.

This Plant grows naturally in the South of *Francs*., in *Spain*, and *Italy*, where it is ufed to drive away Fleas and Gnats, as fome fuppofe, by its ftrong Scent being dilagreeable tothofe Infeçts; but I rather think they are caught by the clammy Juice of the Leaves and Stalks; fo that when any of thofe fmall Infeçls happen to ikip on the Plant, they are fattened thereto, and cannot difengage themfelves from it, as I have often obferved to be the Cafe of fome of the fmallier Flies and Gnats, when they have fetthd upon the growing Plants in hot Weather, at which time the Leaves are very clammy.

P L A T E civ.

QORNUS, Tourn. Inji. R. H. 641. Tab. 410. Raii Meth. 147- *Lin. Gen. Plant.* 139. *Virga Savguinea*, *Villen. Gen. Nov.* Dogwood *j* in French, *Cornouiller*.

D9CTOR *Tournefort* ranges this Genus of Plants in the Ninth Section of his Twenty-firft Clafs, intituled, *Trees and Shrubs with a Rofe flower, wbofe Empalement turns to afony Fruit*. Mr. Ray places it among *the fCS and Shrubs* which have an umbilicated Fruit, including a fingle hard Seed. And Doçlor *Linnaus* ranges it in his Fourth Clafs of Plants, intituled, *Tennatna Monogynia* &c the Flowers of this Clafs having our Stamina, and a fingle Style.

The Species here represented is,

CORNUS fylvefiris, fruttu albo *Gmelin. Amman. Ruth. p.* 98. *u* e. Wild Dogwood, with a white Fruit.

*, (hews a fingle Flower, which is compofed of Four the Four Stamina > fauated between the Petal > the Flower; *c*, the Embryo in the Center of the *XVIII.*

Flower; *d*, the Berries when ripe; *arid**, the Seed taken out of the Pulp.

This Shrub was firft difcovered by *G//**, who was ProfefTor of Botany at *Peterjburgh*, at *Tobolio*, and afterwards by *Mefferfchmidian*, one of the Botanifts who were fent by the Empreß of *Ruffia* to fearch after new Plants, towards the Confines of her Dominions, near *Kanfchatki*, by whom the Seeds were fent to *Peterflurghy*, under the following Title, *Cornus fanriva, feu Virga fanguinea baccis albis racematim h<erentibus, jucco lafcefcente plenis*.

The FVuit of this Shrub was frnt to *England* by Doçtor *Amman*, the late ProfefTor of Botany at *Peterjlurgh*, from which feveral Plants were raifed, and afterwards propagated in fome of the Nurferies near *London*; and for fome Years it was fold as an *American* Shrub, and by fome it is yet thought to b^ fo; though we can have no doubt of its being a Native of *Ruffia** nor have there been either Plants or Seed of this Kind brought from *America*. There is one Sort of *Female Dogwood* in the Gardens, which has been fenc from *America*, in fome Particulars, rçfcmbing this; but the Leaves

Leaves are narrower, and deeper veined, than those of our Sort here figured. The Flowers grow in smaller Umbels, the Fruit is smaller, and of a deep blue Colour, when ripe; whereas those of this are white, and the Pulp is so transparent, that the Seeds are visible within it: So that the *American* Sort approaches nearer to our common *Wild Dogwood* than to this.

It hath a woody Stem, which puts out many lateral Branches near the Ground; so that unless the Plants are trained up while they are young to have Stems, they generally extend their Branches on every Side, to a great Distance, near the Ground. These Branches, during the Summer, are of a brownish Colour; but in

Winter they change to a fine red, so as to be very conspicuous at a good Distance, and have a pretty Effect, when intermixed with other Shrubs, during that Season. The Flowers are produced in large Umbels at the Extremity of every Shoot, towards the End of *May*. These are white, and consist of Four Leaves, with four ultimate Stamina crowned with yellow Summits, and a single style in the Center. The Empalement afterwards turns to a white pulpy Berry, inclosing one hard Seed: But unless these Shrubs are planted in a stiff Ground, they rarely produce much Fruit, except in cold wet Seasons.

P L A T E CV.

^cORONA IMPERIALS, *Tourn. Inft. R. H. 37. Tab 107*

ASÆJ5 Crown Imperial; in French > c —

FOURNEFORT ranges this Genus of Plants in the fourth Edition of his Ninth Class, intitled *Flower of Six Leaves, whose Petals are Zoned*. Mr. Ray places it in his Twenty-third Class of Plants intitled *Herb with Grassy Leaves, and Flower of Six Leaves*. Doctor *Linnaeus* ranges it in his Sixth Class of Plants intitled *Hexandria Monogynia*; the lower of this Class having Six Stamina, and One Style. In the former Editions of his *Genera Plantarum*, he titled this Plant *Penhumb*, and joined the *Corona Regalis* to the Genus, making *Penhumb* only Two species; but in the last Edition, the Doctor has joined these to the Genus of *trillaria*.

The Species here represented is,

Corona IMPERIALIS, flore pulchre luteo, Inft. R. H. 272. Crown Imperial, with a fine yellow Flower. This is the Ninth Sort mentioned in the *Gardeners Dictionary*.

a, represents a Tintire Flower, with the Pointal extended below the Petals, and the Stamina surrounding it, which are not stretched lower than the Border of the Flower; *b*, shows the Seed-vessel intire; *c*, the same opened, to show the Rangement of the Seeds; and *d*, one of the Seeds taken out of the Pod.

This is the *Lilium five Corona Imperialis, per omnia major, flore luteo, H. R. Par. i. e.* The greater Crown Imperial, with a yellow Flower. There are several Varieties of this Plant, which are preferred in the Gardens of those Persons who are Lovers of Flowers. These are enumerated in the *Gardeners Dictionary*, where there is a

full Account of their Culture exhibited. So I shall only add a Remark or two, which is wanting there.

The Sort here represented is one of the most beautiful of the Genus, the Flowers being large and of the finest Colour. When these Roots are planted in good Ground, and permitted to stand unremoved for Three or Four years, their Stems will rise upwards of Four Feet high, and produce a great Number of Flowers; but these stalks, require to be supported; for, as their Time of flowering is in the Beginning of *April* (at which Season the Winds are often tempestuous), so the Stalks being tender, are frequently broken off by the Winds, if they are left tall. As this is one of the earliest tall Flowers of the Spring, it makes a good Appearance in the Middle of the Borders in a Garden: There may be many of these Roots planted, for they have a strong Scent of a Fox; so that those Persons who cannot endure the Smell of that Animal, should be careful to plant them with these Flowers, when

This Plant was originally brought from *Perfia* to *Constantinople*, and from thence was introduced to these Parts of *Europe*, about the Year 1570, when the *White Tulip*, and several other Plants, which now adorn the *English Gardens*, were introduced; and though these are Natives of a Country much warmer than *England*, they are now well inured to this Climate, as to thrive as well as in their natural Places of Growth, and are rarely injured by Froth.

As the stalks of this Plant decay in *June*, the Roots may be taken up soon after, and may be kept out of the Ground till the End of *August*, which is very convenient for sending of them from one Country to another, and therefore the Flowers have been spread thro' *Europe*; and lately have been introduced into *North America*, where they thrive

Pl. ex.



Turonia imperialis

Turonia imperialis
L.

TURONIA IMPERIALIS *flor. pubes. lami. Ind. H. B. 1754.*

Labels written in 20 of Museum by L. C. ...



(*Ott) - ii. l. i. *Verbena flex. var. infl. H. 610.*

Al. B. 1810.

Al. B. 1810.

Botanical Society of London by J. Miller & Sons 22° 1786.



*Coronilla
glaucifolia
L.*

CORONILLA, *maritima glaucifolia* Jacq. Bot. H. 530

W. Smith del.

J. J. Smith sculp.

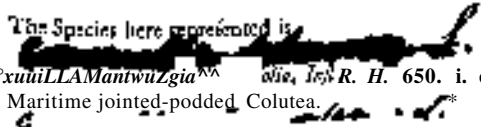
Printed according to an Act of Parliament by J. J. Smith August 22nd 1828

P L A T E C V I

CORONILLA, *Tourn. Inft. R. H. 650. Raît Meth., Plant.*
163. *Lin. Gen. Plant.* 789. Jointed-podded Colutea.

DOCTOR *Tournefort* ranges this Genus in his Twenty-second Clafs of Plants, intituled, *Trees and Shrubs with papilionaceous Flower s^ and conjugated Leaves, joined to a common Midrib.* Mr. *Ray* places it with *W§ filiquofe Trees with a papilionaceous Flower, and winged Leaves.* Do&or *Linnaeus* ranges it in his Seventeenth Clafs of Plants, intituled, *Diadelphia Decandria;* the Flowers of this Clafs having Ten Stamina, Nine of which are joined, and one (landing at a Distance.

The other Characters are exhibited in the *Gardeners Dictionary.*

The Species here represented is

Maritime jointed-podded Colutea.

a, shews the Carina or Keel of the Flower; *b*, the Standard or Vexillum; *c*, the Nine Stamina joined, and One separate, with the Pointal; *d* the Pod -, *e*, a Seed taken out.

This is the *Colutea scorpioides maritima 'glauc folio,* *C. B. Pin.* 397. and the *Colutea scorpioides odorato, Profp. Alp. Exot.* xvi. p. 17. *Dodlor Linnaeus* titles it, *Coronilla fruticosaf, foliolis undenis, extimo majore, Spec. Plant.* 743. The Two Sorts mentioned by *Calpar Bauhin* and *Profp. Alpinus*, have been always esteemed as different Plants: But I have found that they are the fame, and only vary according to the Soil and Situation where they grow; for in a poor dry Soil, or when by Accident any of the Plants happen to grow from the Joints of on old Wall, they will be much whiter than those which are in a better Soil; and from this Difference in Appearance, many good Botanifts have been deceived: But, by changing the Place of Growth, I have found that the Plants

have always altered in their Colour; fo that those which were of a filvery Colour when growing on a poor dry Soil, by being planted in better Ground have altered their Appearance to the glaucous Colour; and, on the contrary, by planting those Plants which have been of that Colour into a rubbiihy dry Soil, the Plants have been tinted in their Growth, and become of a filvery Colour; and all the Plants which come up from Seeds taken from either Variety, arise the fame, when sown in the fame Place: So that the extreme Whitenefs which these Plants have, when growing in the rocky Parts of *Crete*, may deceive an able Botanift, as it did *Profp. Alpinus*, who supposed it a different Plant, and gave it the Title of *Colutea scorpioides odorata, Plant. Exot. ij.*

This is a very humble Shrub, rarely growing more than Two Feet high, when planted in a good Soil; but in a dry barren Place, not much above One Foot. The Stem is hard and Woody, from whence the Branches are produced on every Side, near the Ground, fo as to form a low bulhy Shrub. The Leaves are pennated, and are composed of Five Pair of small Leaves, with an odd one at the Extremity. At the Joints where the Leaves are produced, there are Two ear-flaped Leaves, which closely embrace the Stalks. These are not expressed by *Alpinus* (fo that if his Plant is different from this, it is in this Particular): The Flowers reproduced in Clusters* Handing on long slender Foot-ftalks, which come out from the Joints where the Leaves have their Origin. These are of a yellow Colour, and have a strong sweet Scent, and the Plants always producing great Plenty of them, make a fine Appearance during the Month of *May*, which is their Season for flowering, and the Seeds ripen in *August* and *September*; which, if permitted to scatter, will come up the Spring following, and require very little further Care, than to remove the Plants to the Places where they are designed to remain, and to keep them clear from Weeds.

P L A T E C V I

CORONILLA, *Turn. Inji. R. H.* jointed-podded Colutea.

THE Characters of this Genus, which are exhibited in the *Gardeners Dictionary*, are represented to this Plate.

The Species here represented is,

CORONILLA *herbacea > flore vario, Inji. R. H. 650. Herbaceous* jointed-podded Colutea* with a variable Flower.

a, shews the Carina or Keel of the Flower; *b*, the Vexillum or Standard; *c*, the Stamina and Pointal; *d* the Pod; and *e*, a single Seed taken out of the Pod.

This is the *Securidaca dumetorum major, flore vario, M-quisarticulatis, C. B. Pin.* 349. and the *Colutea herbacea dumetorum major §liquis articulatis, flore vario, H. L.* and by *Morrison* it is titled, *Coronilla, feu polygala dumetorum major §liquis articulatis, flore vario* Hist. il.* 119. *Dodor Linnæus* has titled it, *Coronilla herbacea leguminibus ere&lis*

teretibus thrafsis numerafis foliis glabris, Hort. Cliff. 362. This is the Third Species in the *Gardeners Dictionary.*

It hath a perennial creeping Root, by which it multiplies so fast, as soon to spread over a large Trail: of Ground & therefore it is an improper Plant for small Gardens; nor should it be allowed a Place in any Garden, near other Things; because it will soon spread over and destroy them: But as there are Successions of Flowers, from the Beginning of *June* to the End of *August*, on the same Plants, so a small Space may be allowed to this Plant, in some Corner of large Gardens, where better Things will not thrive; for this is so hardy as to thrive in any Soil or Situation.

This Plant was formerly proposed to the curious in Agriculture as a proper Food for Cattle -, and a few Persons did make Trial of it: Some of whom found by Experience, that it might be cultivated with great Ease, and become very beneficial to the Farmer; but it was never extended very far. I suppose for the same Reason as many other valuable Things are neglected; only because they were not cultivated by their Predecessors: I remember to have seen a large Spot of

Ground

Ground planted with this at *Deepden*, near *Barking* in *Surry*, at a S^h of the Honourable Mr. *Howard*, which although it had been neglected for some Years after his *De&IjEm.* was growing so rank, as to spread over and get ^{at} fether of all the rank Weeds, Brambles, &V. which had been permitted to grow among the Plants: And I measured some of the Branches which I cut off, and found them upward of Five Feet long, and very tender their whole Length: So that a small Spot of Ground will afford a good Quantity of Fodder for Cattle; especially as it will grow fast enough to be cut Five or Six times a Year: And in dry Seafons, when there is a Scarcity of other Herbage, this will be found an excellent Plant to supply the Want. The Cattle I have tried with this Herbage, were *Horfes* and *Cozvsy* both of which seemed to eat it greedily: And there can be no doubt of its being a better Food for any Cattle than the *Common Vetches*, which are sown

for that Purpose, an, as this is an abiding Plant, so it is much preferable to any which require to be renewed every Year. The only Objection, of any force, which I have yet heard made to the Culture of this Plant, is the Difficulty of extirpating it, when it is once planted; for the Roots spread more than Couchgrasses in the Ground. But as the Plant will last for ever, (so it should be always planted where it may remain; and upon such Land as is too dry reproduce other Herbage, this may be a very profitable Plant. I have some Roots which have been planted above Thirty Years, and are in as great Vigour as they were at first planting. This plant seldom produces much good Seed in *England* which may be accounted for from the Roots creeping so far into the Ground; for many of the creeping rooted Plants become barren as to Seeds. But they propagate so much by the Root, as to supply the want of Seeds.

P L A T E



CRASSULA, *Bitten.* *Hurt. Elth.* 114. *Tab.* 96. *Lin. Gen.* *Plant.* 352. Letter Orpine, or Live ever.

THIS Genus of Plants is by Dodder *Linnaeus* ranged in his Fifth Class of Plants, and in the Fifth Division, intitled, *Pentandria Pentagynia*; which includes those Plants whose Flowers have Five Stamina and Five Pointals.

The Characters of this Genus are,

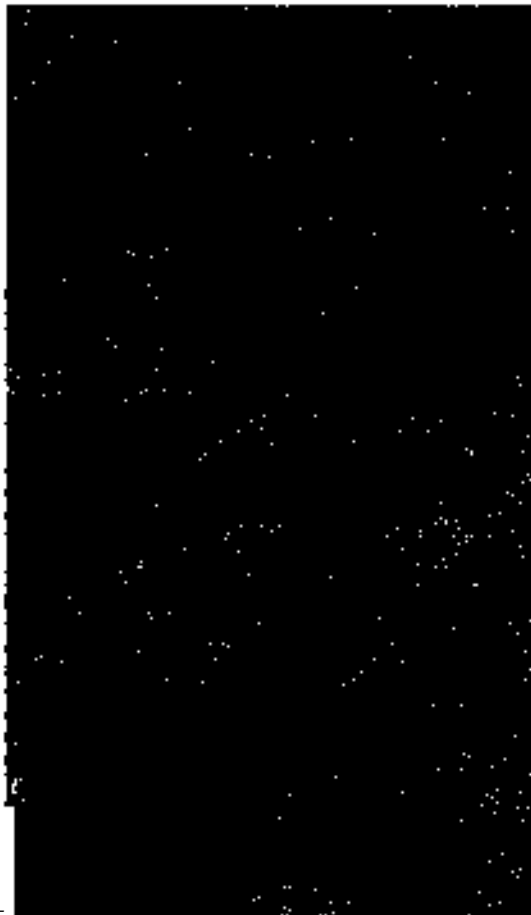
The Flower hath a five-leaved Empakment; the Corolla consists of Five narrow Leaves, which are joined at their Base but are reflexed, and spread open at the Brim: In the Bottom of the Tube are situated Five Neflaria, and there are Five Stamina situated round these, which arise from the Bottom of the Tube, and extend to the Brim: At the Bottom of the Tube are placed Five oblong-pointed Germina; after the Flower is past, these become Five Capsules, opening lengthwise, and filled with small Seeds.*

The Species here represented is,

CRASSULA *altijfima* *perfoliata*, *DHL Hort. Elth.* 114. *Tab.* 96. i. e. Tailed Crassula, whose Leaves do closely embrace the Stalks.

a, (shows a single Flower taken from the Bunch; *b*, the Five Stamina; *c*, the Five Germina which are in the Centre of the Flower; *d*, the Seed-vessel.

This is the first Species enumerated in the *Gardeners Bilingual* where the Culture of it is fully exhibited. It was several Years propagated in the Gardens of *Holland* and *England*, before it produced any Flowers, and was supposed to have been an *Aloe*, and the young Plant without Flowers was figured by Doctor *Commelin*, Professor of Botany at *Amsterdam*, with the following Title, *Aloe Africana caulefcens perfoliata ghuca, O? ncn spinosa, Pr*L Botan.* 74. *Tab.* 23. Dodder *Linnaeus* has given the following Title to this Plant; CRASSULA *foliis lanceolato-fubulatis sessilibus connatis candluuUlis fab-*





CRABOLA *alpina* proflans. Carl. Linn. *alpina*

Linnaeus



CHAENACTIS, Virginiana foliis Arbuti. Torr. 1823.

Recept. magis. 10. of Linnæus. by J. P. & M. in Sept. 1823.

J. S. Mill. del.



CRINUM foliosum (Linn.) Mill. Syst. 227.

Painted according to the description by L. de Miller, Sept. 27, 1794.

J. Miller del.

P L A T E C I X.

Crataegus, *Tourn. Injl. R. H. 633. Mespilus* Lin. Gen. Plant. 549. *Sorbus* H. L. Bat. 699. Wild Services in French, *Alifier*.

TOURNEFORT ranges this Genus of Plants in his Twenty-first Clafs, which is intituled, *Trees and Shrubs with a Rose Jhaped Flower, whose Em-palement turns to a Fruit incloftng feveral callous Seeds.*

Doftor *Linnaeus* places it in his Twelfth Clafs of Plants, intituled, *Icojandria*; and he feparates the *Crataegus*, *Sorbus*, and *Mespilus*, from each other, by their Number of Styles; the *Crataegus* having Two; the *Sorbus*, Three 5 and the *Mespilus*, Five, in each Flower. But this Diftin&tion is not conftant in all his Species. And, as *Tournefort* has feparated the *Crataegus* and *Sorbus* from the *Mespilus*, on account of their Fruit, the Two former having Five Cells in which their Seeds are lodged, and the latter but One, fo we choofe to abide by this Diftindion.

The Species here represented is,

Crataegus *Virginiana foliis arbuti* *Tourn Injl. R. H. 633.* Virginia Wild Service, with an Arbutus Leaf.

a, represents the Flower expanded; *b*, the many Stamina; *c*, the Five Styles in the Center of the Flower; *d*, the Fruit intire, and *e*, the fame cut tranfverfly, to fhew the Five Cells in which the Seeds are lodged.

This is by Doftor *Breynius* and *Herman* titled, *Sorbus Virginiana foliis arbuti*; and by Doftor *Linnaeus*, *Mespilus inermis foliis lanceolatis crenatis fubtus tomentofis*, *Hort. Cliff. 189. i.e.* Medlar without Spines, and fpear-shaped Leaves indented on their Edges, and their Underfide woolly. But thefe Indentures on the Edges of the Leaves are fo fmall, as not to be difcovered but by a very near View*

The Shrub is a Native of *North America*, where it grows naturally in moift Woods. It feldom rife more than Five or Six Feet high in its native Country; but, in *England*, Three or Four Feet is the greateft Height that I have feen any of them. It divides into many (fender Branches, which are garnifhed with oblong fpear-shaped Leaves placed alternately. Thefe are of a pale Green above, and of an Afh-colour on their Under-fides, which are woolly. The Flowers come forth at the Divifion of the Branches, and alfo from the Wings of the Leaves, in fmall Bunches (landing on long Footstalks. Thefe confift of Five Petals, which fpread open in Form of a Rose; they are of a dull white Colour, with feveral brown Spots on their Upper-fide. In the Center of the Flower is placed the Germen, fupporting Five Styles which are furrounded by a great Number of Stamina. After the Flower is pad, the Germen becomes a round umbUicated Fruit, having a thin Pulp incloing Five Cells, in which are lodged fo many hard Seeds.

The Flowers of this Shrub appear in *May*, and the Fruit ripens in *October*; which fould be then gathered, and the Seeds fown foon after; for if they are kept out of the Ground till Spring, they will not grow the firft Year.

But, as this low Shrub fend out many Suckers from its Roots, fo it is chiefly propagated by thofe in *England** as it is by much the quicker Method. But the Plants which are produced from Suckers do feldom rife to have Stems; for they are generally foapt to put forth young ones by their creeping Roots, as to retard their upright Growth.

This Plant delights in a moift light Soil, and fhould have a fhady Situation, where it will thrive and produce Plenty of Flowers and Fruit, which will make a Variety when intermixed with other humble Shrubs at the Seafon when it is in Flower and alfo in the Autumn, when the Fruit begins to ripen.

P L A T E C X.

CRINUM Lin. Gen. Plant. 366. *Lilium* Herm. H. L. 682. *Lilio Aphodelus*. *Tourn. Injl. R. H. 344.* Dill. *Hort. Elth. Com. Rom. Rar. Plant. 15.* Aphodel Lilly.

THIS Genus of Plants is by Doftor *Linnaeus* ranged in the firft Divifion of his Sixth Clafs, intituled, *Hexandria Monogynia*: The Flowers having Six Stamina 2nd One Style. By Doftor *Herman*, and other Botanills, it was placed with the *Lilly*, but has been feparated from that Genus by *Tournefort*, and other later Writers, who gave it the Title of *Lilio-aphodelus*, from the Root having many fle(hy Knobs like thofe of *Aphodel*, and the Flower being like that of the *Lilly*. But as Doftor *Linnaeus* has rejested thefe compound Names, fo he has applied the Title of *Crinum* to this Genus of Plants.

The Charadlers are,

The Umbel of Flowers is inclofed by a Two-leafed Spatha or Sheath, which is rejested when the Flowers appear: The Corolla of the Flower is of One Leaf, having a long cylin-

drical Tube, and deeply divided at the Top into fix Parts, which are reflexed: In the Bottom of the Tube is fituated the Germen, fupporting a Style which is crowned with a fmall Stigma. There are Six Stamina which arife from the Bottom of the Tube, and are joined to the Safe of the Petals: Thefe are longer than the Style, and are crowned with oblong Summits, which are incumbent. After the Flower is pajy, the Germen turns to an irregular Bulb.

The Species here represented is,

CRINUM *foliis carinatis*, Lin. Flor. Zeylan. 127. *Spec. Plant. 292.* Aphodel Lilly, with hollow keel-lhaped Leaves.

a, represents the tubulous Flower cut deeply into Six Parts-, *bb*, the Stamina crowned with its Summit; *cc*, the Style-, *d*, the Spatha or Involucrum, which inclofes the Flower-Buds; *e*, the Bulb fully grown, which is formed by the Germen.

This is titled, by Do&or *Herman*, *Zeylanicum buU biferum&umbelliferum*, *H.L. 682. i.e.* Bulb-bearing Lilly

of *Ceylon*, with Flowers growing in an Umbel. There is another Species of this Genus, which differs from this which is here represented, in the Stems of the Flowers, and the Leaves being of a purple Colour, and the Petals of the Flower have a purple Stripe on their Outside i but in other Respe&cs it agrees with this.

This is a very ornamental Plant for the Stoves; for, as it grows naturally in the warmest Climates, so it will not thrive in *England** but in the warmest Stoves. The Plants generally flower Three or Four Times every Year, to have *no* regular Seasons of appearing; sometimes in the Middle of Winter, at other Times in Spring, Summer, and Autumn; but as their Petals are of a tender Texture, they do not continue in Beauty longer than Four or Five Days.

The Flower-Stem arises immediately from the Root, on the Outside of the Leaves, which is about Two Feet high j and, at the Top, there are Eight or Ten

Flowers, which are placed in the Form of an Umbel, being closely joined at their Base, but spread *open* above. These are of a beautiful white Colour, and smell very sweet. The Stamina are stretched out to a considerable Length beyond the Petals, which *do* also spread open, each being crowned with a profuse Summit, fully charged with yellow Farina. After the Flowers are past, the Germen swells and becomes an oblong Bulb; which, when put into the Ground produces a Plant of the same Kind: So that there are never any Seeds on these Plants, but they are easily propagated by these Bulbs; as also by Offsets from their Roots.

It grows naturally in the *Island of Ceylon** and in several Parts of the *Spanish West-Indies*. I received the Roots of both Sorts from *Panama*; and have since been supplied with more from *Cartagena*, which have multiplied greatly in the *Chelsea* Garden.

P L A T E C X I.

CROCUS, *Tourn. Injl. R. H. 350. Tab. 183, 184. Raif. Meth. Plant. 116. &g. Gen. Plant. 53. Saffron* ^ in French, *Saffran*.

THIS Genus of Plants is by Doctor *Tournefort* ranged in the Second Section of his Ninth Class, intitled, *Herbs with a Lilly Flower of One Leaf cut into Six Parts, whose Empalement turns to a Fruit*. Mr* *Ray* places it in his Twenty-third Class, which he titles, *Herbs with Grass Leaves which bear Flowers, and have tricarpular Seed-vessels*. Doctor *Linnaeus* has separated this and some other Genera from the rest of the Class, where they properly belong, and, by all the former Writers on Botany, have been placed; because their Flowers have but Three Stamina: Whereas the other Genera of the same Class have Six in each Flower. But this is not a natural Division of the Plants, since in all the other essential Characters they agree. The Characters of this Genus are exhibited in the *Gardeners Dictionary*.

The Species here represented is,

Crocus fativus, *C. B. P. Manured Saffron*.

a a, (hews the Three Filaments in the Flower, which are the Parts gathered, prepared, and are sold under the Denomination of *Saffron* \ *b b* is the Style which rests on the Germen. This is by Doctor *Morison* titled, *Crocus autumnalis fativus*, *Hist. 2. p. 335. *. e. Autumnal manured Saffron*. Doctor *Linnaeus* has supposed, that the other Sorts of autumnal *Crocus*, and also those of Spring, are only Varieties of this. But whoever will be at the Trouble of comparing them, will find they are essentially different. The other Species of autumnal *Crocus* have all of them the male Parts very perfect; whereas they are wanting in this; for the Three Filaments occupy their Place. Indeed there are not any of these autumnal *Crocus*'s which perfect their Seeds in *England*; so we have not had an Opportunity to observe if they alter when propagated that Way, But, however

near these may approach to the true *Saffron*^ the Spring flowering *Crocus* must be allowed to be a different Species from these, not only from their Times of flowering, but also as they are specifically different in their Roots, Leaves, and Flowers. Nor do the Seeds of any of the Spring *Crocus*'s ever produce Plants which flower at any other Season; so that the only Variation of these Plants which arise from Seeds, is in the different Colours of their Flowers; and, therefore^ we may safely pronounce the true *Saffron* to be a distinct Species from the others.

Where this Plant is a Native we cannot learn; for it is cultivated in most Parts of *Europe*. Nor is there any Mention of its growing naturally any where, by any Writers on Botany; or of its producing Seeds in *Europe* of the Countries where it is cultivated, though it may be supposed that in its native Country it may. #^u it is always propagated by the Root in *Europe*.

When the Roots of this Plant are put into a deep rich Earth, they are very subject to run downward, and produce taper Roots, which are by the Cultivators of *Saffron* called *Spickets*, which, if planted again, become barren of Flowers. Therefore the Land, which is the most proper for this Plant, is such as hath a light Surface, not very deep, lying upon a Bed of *Chate*, which is the Nature of the Soil about *Saffron* *JVald*TM and in *Cambridgehire*, where there is more of it cultivated, than in any other Part of *England*. The Method of cultivating, gathering, and manufacturing of this Commodity is fully inserted in the *Gardeners L.*; ; . . . an Account of the Profit arising from it.

The Time of its flowering is about *Michaelmas*, ⁿ(1) sometimes a little later, according to the Season * ^r> until there has fallen some autumnal Rains, the Flowers do not appear in Plenty. And the Plenty of *Saffron* depends on the Autumn proving mild and favourable, for when there happen (hard Frosts at the Time of its flowering, the Crop will be but small and poor.



Crocus sativus L. 1683

Handwritten notes:
 Crocus sativus
 L. 1683



if

v f r

CUCERALIS. *Pinn. Long.*

Collected during a tour of observation by John R. W. Wood, Sept. 21, 1841.



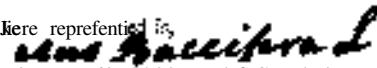
CYRTOSIA floribus papilionibus et pappis mucronatis Linn.

Planta in monte ...

P L A T E CXII.

CUCUBALUS, *Tourn. Inft. R. H. ^39- Tab. iy6. Raii Metb. Plant. 74. Lin. Gen. Plant. 502.* Berry-bearing Chickweed.

THIS is by *Tournefort* ranged in his Eighth Clafs of Plants, intituled, *Herbs and Underfrubs*^ with a Flower of many Leaves fhaped like the Gilliflower, whofe Pointal becomes the Fruit. Mr. *Ray* places it in his Seventeenth Clafs of Plants, which contain the Berry-bearing Herbs. Doctor *Linnaeus* puts it in his Tenth Clafs of Plants, intituled, *Decandria trigynia*, from the Flowers having Ten Stamina and Three Styles. And he has added feveral of thofe Species of *Lychnis* to this Genus, which have inflated Empalements. But as this Plant hath its Seeds inclofed in a pulpy Berry, and the *Lychnis* has a dry Seed-Veffel, fo they fhould not be joined together, if we do allow the Fructification to be wnfidered a diftinguifhing Character of the Genus.

The Plant here reprefented is,

 CUCUBALUS *Plinii Ludf. 14.29.* The Cucubalus of *Pliny*, according to the *Hiftoria Lugdunenfis*.

#> reprefents the Flower with its fwelling Empalement •, *b*, the Stamina; *c*, an intire Fruit; *d*, the iame opened longitudinally, to (hew the Arrangement of the Seeds; *e*, a fingle Seed taken out of the Berry.

The Characters of this Plant are exhibited in the *Gardeners Dictionary*.

This Plant is by *Cafpar Bauhin* titled, *Alfine fcandens vaccifera*, *Pin. 250.f. e.* Climbing Berry-bearing Chickweed. By *John Bauhin* it is called *Cucubalum quibufdam*^ vel *Alfine baccijera*, *Hift. 2.175.* *Bodonaus* calls it, *Alfine repens*, *l.*, 403, Creeping Chickweed. And *Linnaus*

titles it, *Cucubalus calycibus campanulatis petalís diftantibus fruttu color at 0, ramis divaricatis*, *Sp. Plant. 414. i. e.* Cucubalus with a Bell-fhaped Empalement, the Petals ftanding at Difances, a coloured Fruit, and divaricated Branches.

This Plant will grow to the Height of Eight or Ten Feet, where it hath a Hedge or Buthes to climb on, otherwife the Branches trail upon the Ground if they are not fupported. Thefe are herbaceous, and die to the Root every Year. The Leaves grow oppofite at every Joint, which refemble thofe of *Chickweed*, both in Shape and Colour, but are larger, and foft to the Touch. The Flowers are produced at the Winers of the Leaves, ftanding fingle upon flender Footstalks: Thefe have a íweln Empalement, fomewhat like the *Winter Cherry*. They are compofed of Five Petals of a pale whitifh Colour, and are íplic "at their Extremities. Between thefe ftand the Stamina with their Summits furrounding the Germen, which, when the Flower is paf, turns to an oval Berry almoft as large as a fmall Black Cherry. As the Fruit enlarges, fo the Empalement becomes more reflexed; and, when it is at the full Size, appears open, the Empalement being turned back to the Pedicle. The Fruit is very black when ripe, and is as foft as the Berries of *Nightfhade*, and are as full of Pulp, which furrounds the Seeds. The Root is perennial, and will fpread far in the Ground, where it is allowed Room. Mr. *Ray* obferved this Plant growing naturally in the Hedges about *Frankfort*; as alfo in *Italy* and the *South of France*. *ArH Cluftus* found it in great Plenty about *Salamanca*. It is preferred in fome *Englijh Gardens*: But the Berries are by fome Perfons affirmed to have no lefs deadly Quality than the *Sleepy Nightfhade*: So the Plants fhould not be permitted to grow in Places where Children frequent.

P L A T E CXIII.

CUNONIA, *Buttn. Cun. Tab. 1. Antholyza, Lin. Gen. Plant. 56. Gladiolus Cornut. Canad. 78.* The Scarlet Cunonia.

THIS Genus of Plants is by Doctor *Linnaus* ranged in his Third Clafs, which is intituled, *Triandria fnonogynia*^ the Flowers having Three Stamina and One Style. But according to *Tournefort*^ Method of ranging the Plants, it muft be put under his Ninth Clafs; for as he diftinguifhes them by their Form and Number of Petals, foall thofe Plants which have been ufually termed Liliaceous, are brought together; whereas Doctor *Linnaus*, who diftinguifhes the Claffes of Plants by the Number of their Stamina, has feperated feveral Genera from their ufual Clafs, to a confiderable Difance, becaufe they have but Three Stamina; whereas the other Genera of this old Clafs of Plants have generally Six Stamina.

The Species here delineated is,

Cunonia floribus fejjilibus, fpathismaximus, Buttn. Cun. Tab. 1, .; e. Cunonia with Flowers growing clofe to the Stalk, and large Spathae or Sheaths.

The Characters are,

The Flowers grow alternate, each being included in a large Spatha or Sheath which is permanent; they confift of One Leaf, which is divided into Four Parts; the upper Segment being fir etched out to a much greater Length than the others, and as erett, having the Appearance of the Creft in the labiated Flowers. The Two Side Segments are floirt, and adhere clofely to the Inferior or Lip, which is flightly divided at the Extremity. In the Center of the Flower is fituated the Germen, fupporting a flender Style, crowned with a blunt Stigma; this is attended by Three Stamina which ftand erett, and are fretched out beyond the Style. The Germen afterward turns to an oblong Seed-veffel, having Three Partitions or Cells, in which are lodged many broad flat bordered Seeds lying ever each other as Tiles on an Houfe.

a, reprefents the Two Wings of the Flower; *b*, the Standard; *c*, the Three Stamina; *d*, the Style; *e*, the Seed-veffel; *f*, a fingle Seed; *g*, the Bulb or Root of the Plant; *h*, the Spatha or Sheath which inclofes the Flower-Bud.

Am linnet! has joined this Phut to his Genus of *Antibolyza*; but, as the Shape of this Flower is very different from that of that Genus, the under Segment being very short, and the 7th. or Staminal being ere ft. One of which in the *Antibolyza* being gdecimbent, "Iud the Seeds of *thi*- being triangular, whereas thole of the *Cwurnia* is ringed, Co we choofe to abide by the Definition of Doctor *Boissier*, whoeftabMed this Genus by the Title of *Qmania*, in Honour to Mr. *Ctains*, a great Collector of rare Plants, who lives at *Amfitran*.

Root is bulbous, Ihaped very like that of *Crocus*. The Leaves are long and narrow, of a pale Green, with a Furrow through tht; Middle. The Sralk is round, arising immo. Jyfrom the Root, and grows near Two Feet high, which is garniflit toward the Top with fewend Flowers of a bright fcarlet Colour placed alternately, on I ranged on one Side of (he Stalks, (landing errft; each of thefe is included in a thin Sheath, which divides when the flowers are blowing. Thefe Flowers are mpnopettolus, but are cut into Four Segments - the upper being very long, ftands ered, and covers the Three

Stamina and Style like an Bond, The Two Side Segmen an: flort andobtufe; tiefe have fome Refetnblar.ee to the Wings of the papilionaceous Flowers, and cloley embrace the lower Part of the Stamina. The under Segment is very fhort, cloley adhering to the Spatha. The Three Stamina and Style rcl up>n the Germen, and are fretched out near the Length tit the upper Segment or Standard. Wlien the Flower falls away the Germen fwdis to an oblong Seedveffel, wbt is divided into Three Cells, whicharerjiid with comprdIM Seeds having Borders or Wings. Ir. Howers in *Mqn* and the Seeds ripen in *July*. This Plant mtft be ranged between the *Gladiolus* and *Antbolyza*. It is a Native of the *Cape of Good Hept*, from whence J have received the Seeds. There is a Plant of this Genus figured by *Cwmtus* in his *Hijlery of Canada Mavis* j but the Leaves of his are much /liorter, the Two Wings of the Flower longer, and die Spat ha much fmaikr, than in the Plant here reprinted j fo it mult certainly be diftint from ours. He titles his, *Gladiolus Jethhphus fittr cecdm*, p. 78. i. 1. Corn-flag of *Ethiopia* with a fcarlet Flower.

Centaurea Baccifera

P L A T E CXIV.

Centaurea Baccifera, L. J. R. H. W. T & ^54 to W. & W. 47. *Cmtauna Liu. Gm. Plant.* 850 **Biu; Botcte; in French, Bkttt.**

Hen. VR, par. Narrow lono-leaved **Belgki** Blee- botde.

THIS Genus of Plants is by *Tournefort* ranged in Under

Of Wants which he titles, H*Ai tw/i • cslttStd into Heads. Doilor *lAnnux* ranges, It in his Nineteenth Ciafs, intituled, *Sjngentft** WM, from their being Ftmile and Hermaphrodite Ffowen in the fame Head. To this Genus he joins tht JWM *CentwrittK majtu* and *Calcilmpa*: But by fo doing, he multiplies the Species, fo as to render it difficult to diftinguifh chem.

These Two Species are by Doctor *Linnaeus* fuppofed to be the fame; therefore he does not mention the better in his Species of Plants. To the Firft, he gim the following Title, *Centaurea ealydbss firralu*, hlih *UiKW iatis dKuncxtibus ceuUfimplidffim*, *Hurt. Cliff* 422- 11- Greater Centaur, with &wed£(npale«en», ffear-/lap«d running Leaves, and a fimpj..Sta)k. The Ch^ adicti ^, TM ^5 n"s f^ "h'bitedin the *Gardners Ditiwary*.

The Firft of thefe Plants is an old Inhabitant of the *tagW* Oardens, and was formerly ufed in Medicine, but of Ute Years has been fldom preefftrf. Th« Roots of this PJant do creep much in the Ground, and put forth many Offsets, fo that, if they ate not retrenched, they will foot, f_pMad over a U T R ; of ground. But, as it propagates fo hit by its RoOH, k fldom produces Seeds in *England*.

The Species here reprinted are,

Fig. i. CVANUS *Montanushtij alius vel Verbofculum Cyaco-Hit*, C. B. P. 2j\$. i. c. Broad-leaved mountain Blee- bortfe. This is by fome called *Batibtlofs* *Button*.

g a, represents One of the Female Flowers; thefe compofethe Border; b, the Hermaphrodite Flowers, which are tubutous, and form the Dilk\ c, the fcaley Empale, ment; d, One of the Female Flowers taken from the Head i t, is One of the Hrrmaprodite Fiwera from the Dik; and l, is the Head or Dik diverted of the Female Flowers which form the Border.

Fig. 2. CYAHUS *angufiorU folio fc? iongiort Btlgiats*,

• i v Second Sort brought from the *LeyJai* Garden, >O the Year 172;. Before which Time it was not in any of our Gardens; but, by its bring fo *tfily* pvop*^{gawd}, « is now become very common here. Both thefe sorts begin to flower in *May*, and frequently continue 50 produce new Flowers for Three Months, epecially in mo.ft.cool Seafons. Whether the Second Soft «• originally obtained from the *Sted** of the Firft is «« Mly to determine, but they confantly pferirve tkir 1J Jterence in the Gardens, never varying from tach other. I he Leaves of the Firft are whiter than thoft of the Second, and are covered with a foft Down.



Fig. 1. CYANUS, montanus latifolius vel Verbasculum Cyanoides C. B. P. 278.
 Fig. 2. CYANUS, angustifolius & longiore Belgicus H. R. Par.

A. L. de C. del.

Published according to the Act by J. K. Miller Sept. 28

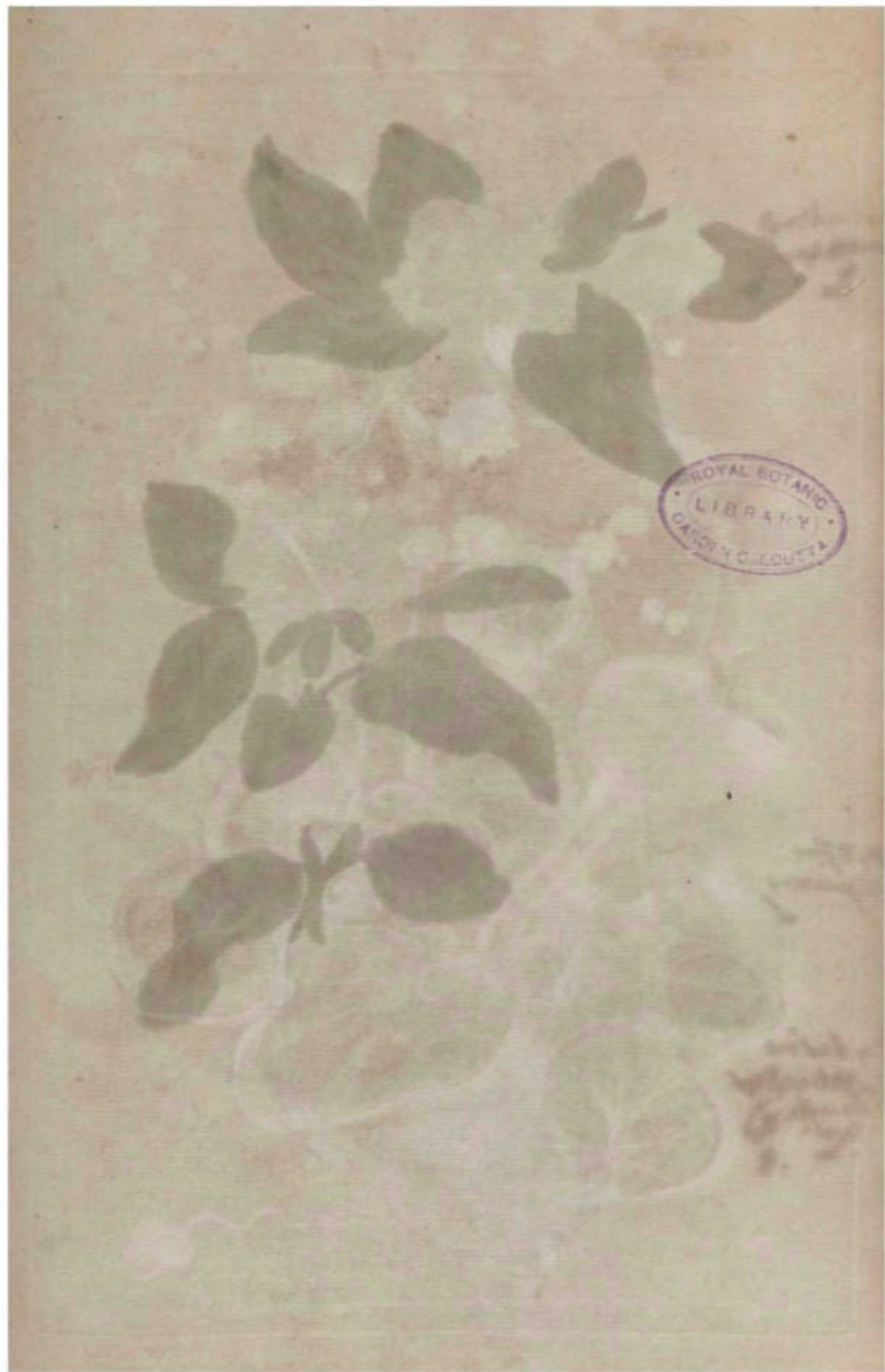
W. J. G. sculp.



CYCLAMEN, hyeme & vere florens folio angulato angulo.
 flore albo basi purpurea Linnæum, dictum. H. A. Par.



Linnæus, Mantissa, p. 100. Cyclamen, folio angulato, flore albo, basi purpureo.





Malus domestica Borkh. *Malus domestica* Borkh. *Malus domestica* Borkh.

Painted according to the description of *Malus domestica* by P. Miller Plukenet 24. 1708.

J. Miller del.

P L A T E CXV.

CYCLAMEN, Tourn. Inft. R. H. 154. Tab. 68. Raii Meth. Plant. 121. Lin. Gen. Plant. 184. Sow-bread \ in French, Pain de Pourceau.

CJT*OURNEFOR ranges this Genus in the Sixth Section of his Second Class of Plants, intitled, Herbs with a wheel-shaped Flower of One Leaf, whose Pointal afterward becomes a soft Fruit. Mr. Ray ranges it in the Second Division of his Twenty-third Class of Plants, intitled, Bulbous ajfines, or Plants nearly allied to those called Bulbous. Doftor Linneus ranges it in his Fifth Class of Plants, intitled, Pentandria Monogynia^ from their Flowers having Five Stamina and One Germen.

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

The Species here represented is,

CYCLAMEN byerne &? vereflorens^ folio angulofa^ amplofolio albopurpurea, Perficum diuim, R. H. Par. Perfian Winter and Spring-flowering Sow-bread, with a large angular Leaf, and a white Flower having a purple Bottom.

*» Ihews the Petals of the Flower, which are reflexed; K the Pointal and Stamina; c, the Seed-vessel, with the Footstalk of the Flower twisted round it; d, the Seeds taken out of the Capful.

Do&or Linnaeus fuppofes all the Species of *Cyclamen*^ Which are mentioned by the Writers on Botany, to be the fame; in which he is as much miftaken as those who have fuppofed a much greater Number of diftinct Species than are at prefent known: So that the Difficulty is to fettle which of them are fpecifically different; which is only to be known by frequently propagating them by Seeds, and obferving what Differences will arife by Culture. This I (hall attempt to ascertain from many Years Experience and Obfervation.

The Seeds of the *Cyclamen Hederifolio* C. B. P. which is the moft common in *England*, and thrives in the open Air very well, produces only Two Varieties, which

are the purple and white Flowers: But there is not the lead Variation in the Leaves, Roots, or Make of their Flowers \ fo that thefe are only accidental Varieties, and not diftinct Species.

The Seeds of the *Cyclamen hyemale orbiculatis foliis infer ne rubentibus purpurafcente fiore*, Count Herbariorum H* R. Par. or Winter-flowering Sow-bread with purple Flowers, never produces any Varieties; but the fame Sort constantly arifes from its Seeds; and therefore may with great Truth be deemed a diftinct Species from the others.

The Seeds of the Sort here figured will produce Two Varieties, one with a white Flower and purple Bottom, the other with a pale Flower and a deeper coloured Bottom; and fometimes there will arife fome Plants with rounder Leaves than others.

There is another Sort, which flowers in the Spring, different from either of thefe, viz. *Cyclamen verno tempore florens*, Cluf Hijl. 265. i. e. The Spring-flowering Sow-bread. This is lefs common in *England* than any of the other, and is undoubtedly a diftinct Species, the Seeds always producing the fame.

The *Cyclamen radice Anemones flore purpure minore odorato*, Boerb. Ind. alt. is fo very different from all the others in the Form of the Root, and the Size of the Leaves and Flowers, that no Perfon, who is acquainted with it, can fuppofe it to be the fame Species with any other: But as this rarely produces Seeds in *England*, fo I cannot from Experience fay how it may vary when raifed by Seeds.

The common Sort, with purple and white Flowers, is fo hardy as to endure the fevered Cold in this Country in the open Air. The next hardy Sort to this is the Winter-flowering Sow-bread with purple Flowers, which, with a little Shelter in frofty Weather, may be preferred in warm Borders: But all the other Sorts are too tender to live thro' the Winter in the full Ground in *England* unlefs they are well fecured from Frofts in Winter.

The common Sow-bread grows naturally in *Auftria*, *Hungary* and *Itria*: The other Sorts grow naturally in *Turky*, *Perfia*, and *Armenia*.

P L A T E CXVI.

CYDONIA, fount. Inft. R. H. 632. tab. 405. Rⁱⁱⁱ Meth. 143. *Pyrus* Lin. Gen. 550. The Quince s in French, Coignier.

CJT*OURNEFORT ranges this Genus in the Eighth Section of his Twenty-fifth Class of Plants, intitled, Trees and Shrubs with a rose-shaped Flower, whose Empalement becomes a Fruit with hard Seeds. ^ Mr. Ray places it among the Apple-bearing Trees with an umbiicated Fruit. And Dr. Linnaeus has joined this Genus to the Pear, making them only different Species of the fame Genus; and ranges it in the Fifth Division of his Twelfth Class of Plants, intitled, *Cofandria fentagynia*, from the Flower having more than Nineteen Stamina, and Five Styles.

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

N 234 XX.

The Species here represented is,

CYDONIA fruflu oblongo Uviort, Tourn. Inft. R. H. 632. The Pear-shaped Quince. This is the *Mala Cotonea majora* C. B. P. 434. and the *Cydonia majora* Raii Hift. 1453- in French, Coignier feme lie. Dr. Linnaeus titles it, *Pyrus foliis intergerrimis* Hort. Cliff. 160. l. e. Pear-tree with inure Leaves.

a, represents the Petals of the Flower when fully expanded; b, the many Stamina which are fituated round the Five Styles; t, the Fruit intire; d, the Fruit cut thro' the Middle, to fhew how the Seeds are lodged in thir Cells in the Center of the Fruit.

As the Quince is covered with a cottony Down, fo it may be feperated from the Pear, whose Fruit is not fo j but the other Characters are the fame: And as they

X

will

will take upon each other by being budded or grafted, that is a Confirmation of their new Alliance.

We have Three Sorts of Quinces which are cultivated in the *Englijj* Gardens; but the Sort here represented is esteemed the best for Kitchen Use, and may also be used in Medicine; tho' that which is called the Apple-Quince is the Sort directed in Dispensaries, for all the Purposes where Quinces are ordered. The Fruit and Seeds are the Parts used.

Whether these are distinct Species, or accidental Varieties which have been produced from Seeds, is hard to determine; because they are propagated only by Suckers, Layers, and Cuttings, and are rarely raised from Seeds, though this is the only Way to know if they will prove the same as the Parent Tree, but is too tedious a Method of propagating them; for I have

Plants now growing, of Fifteen Years *Old* Age, which I raised from Seeds; but they have not as yet produced any Fruit; so that whether any Variety of the Fruit can be obtained by* this Method is uncertain.

These Trees thrive best in moist Ground, so are generally planted by the Sides of Ponds or Ditches, where they hang over the Water, and in such Situations their crooked Stems, and dragging Branches, are not so much noticed as they would be in an open Spot of Ground, where they might be seen on every Side.

The several Sorts will take by grafting or budding on each other; so that where the Fruit is not of the desired Kind, the Trees may soon be altered, by putting several Grafts or Buds in different Parts of the Trees, and, as these grow, cut away all the Branches of the former Kind.

P L A T E CXVII

CYTISUS, *Tourn. hft. R. II. 647. Tab. 416. RaiiMeth Plant. 163. Lin. Gen. Plant. 785. Tree-Trefoil in French, Citife.*

THIS Genus of Plants is by *Doflor Tournefort* ranged in the Second Section of his Twenty-second Class, intitled, *Trees and Shrubs with a leguminous Flower, and Three Leaves upon each Footstalk*. Mr *Roy* places it among the Trees with a Butterfly Flower, bearing Pods, which have Three Leaves. Dr. *Linnaeus* ranges it in his Seventeenth Class of Plants, intitled, *Dtadelphia Decandria*, from the Flowers having Ten Stamina, Nine of which coalesce, and One stands off at a small Distance.

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

The Species here represented are,

Fig. 1. *CYTISUS racemis simplicibus erectis foliolis ovato-oblongis*, *Hon. Cliff. 354.* Tree-Trefoil with single upright Spikes of Flowers, and oblong-oval Leaves.

a, represents the Standard of the Flower; *b*, the Carina, or Keel; *c*, the Two Wings, or Ate; *d*, the Stamina, with the Style; *e*, the Style separated from the Stamina; *f*, the Three Leaves of the Plant; *g*, the under Part of the Flower; *h*, the Empalement.

This is the *Cytifus glaber nigricans* C. B. P. 100, in the Fourth *Cytifus* of *Clufms*.

Fig. 2. *CYTISUS floribus capitatis, foliolis ovato-oblongis caule fruticeo*. Tree-Trefoil with Flowers growing in an Head, oblong oval Leaves, and a woody Stalk

The first Sort grows naturally in *Aufiria, Bohemia, and Hungary*, and, for the Beauty of its Flowers, has been long cultivated in the Gardens abroad; but was

little known in *England* till of late Years, since I procured Seeds of it, which succeeded in the *Chelfea* Garden; from whence it has been distributed to several curious Persons.

This is a low Shrub, which naturally sends out many lateral Branches on every Side near the Ground, forming a bushy Shrub, and is with Difficulty trained to a stem. The Branches are slender, but grow erect: thickly garnished with oblong-oval Leaves growing three on each Footstalk, like *Trifolium*, which are smooth, and of a dark-green Colour. The Flowers are produced in long Spikes, like those of *Laburnum*, but hand erect, and are of a yellow Colour. As these Spikes are produced at the Extremity of every Shoot, so, when the Shrubs are full in Flower, they make a fine Appearance. This flowers in *July*, when most other Shrubs are past, which renders it more valuable.

The second Sort grows naturally in *Tartary*, from whence the Seeds were sent to the Imperial Garden at *Peterburgh*, and by the late Doctor *J. A.* who was Professor of Botany in that University, the Seeds were sent to *England*, and the Plants have been raised in several curious Gardens.

This shrub rises to the Height of Four Feet, and divides into many Branches, which are garnished with oblong-oval Leaves of a whitish-green Colour: These are produced by Threes and Fives on each Footstalk. At the Extremity of the Branches are Flowers produced in close Clusters or Heads, and are of the Peabloom Kind, of a yellow Colour, inclining toward black at the Bottom. Each Flower hath a large Empalement, which is permanent, and incloses the lower Part of the pod, which succeeds the Flower. The Pod is cloathed with three or four

Seeds. It is very hardy in respect to Cold; but thrives best in a light Soil, which is not too dry; and loves an open exposure, so will not thrive under the Shade of Trees.



Fig. 2.

Fig. 1.

Fig. 1. *CTTISR**, *iacfim.* < *iti* phorbis verica foliolo ovato oblongis Hort. Cliff. 322
 Fig. 2. *CYTISUS* flombis capitate foliolo ovato oblongis caule frutescente

Printed and sold by J. B. Smith, in Strand, London.



DAYERA, nomine folia oblongo-cordata marginibus dentatis floribus aculeatis

W. G. Smith del.

Painted according to the description by P. A. Miller Oct. 2. 1768

J. G. Smith sculp.



DELPHINIUM. *consolida* aphyllis lobellis integris floribus spicatis foliis palmatis multifidis glabris.

J. Tournefort delin.

Botanic Garden of Padua by P. Miller circa 1731

J. Miller sculp.

P L A T E CXVIII.

D'AYENA, *Monier*.

THIS Plant is fo titled in Honour to Monfeigneur *le Due U Ayen*, who is, a great Promoter of the Science of Botany, and has a noble Garden at *St. Germain* in France, which is amply furnished with Plants from many Parts of the World; and has appointed Doftor *Monier*, of the Royal Academy of Sciences, Suprintendant of it.

The Charafters of this Genus, are,

It hath Male and Hermaphrodite Flowers on the fame Plant, which arife from the fame Wings of the Leaves. The Male Flower a, hath an Empalement of One Leaf, which is cut into Five acute Segments, in the Center of which are filuated Five Stamina, crowned with blunt Stigma. The Hermaphrodite Flowers b, have alfo an Empalement of One Leaf, which u cut into Five Segments almojl to the Bottom as is repreftented at e: The Flower is of One Leaf tubulous at the Boot torn, rifing to fame Height above the Empalement, as at d, but fpriad open above, and divided into Five Segments, in the Center of which is placed a round five- cornered Germen fupporting a fngle Style: The Germen afterward becomes a round IOapfulc, as at e, having Five Furrows; and is divided into Five Cells, as at f, wmc b feparate into diftintt Parts when ripe, as at g, in each of which is lodged an oval Seed, as at h.*

We know but One Seecies of thif Genus at greffeft, viz.

Ayenia Pusilla.

D' A YEN A *hermit, foliis oblonga cordatis marginibus dentatis, floribus axillaribus.* Smooth D' Aycna, with oblong heart-fhaped Leaves, indented on their Edges, and Flowers produced from the Wings of the Leaves.

The Seeds of this Plant were fent from *Peru* to *Paris*, by the younger *Jufficu*, in the Year 1750, where th^{at} fucceded; and, when the Plants produced Flowers, the Title of D' i » was applied to it by Doftor *Monier*, of the Royaf Acadeiny of Sciences, who fent me the Seeds.

This is a low Ihrubby Plant, feldom ruing above a

Foot high, having woody Stalks, which divide into feveral Branches: Thefe are garnifhed at Difances with oblong heart-fhaped Leaves, having pretty long Footstalks, and are indented on their Edges. At the Bottom of the Footstalks of the Leaves the Flowers come out, generally Two at each Joint, o: t of which is Male, and the other Hermaphrodite: The Male is generally above the other, and is of fhort Duration, feldom continuing much more than One Day before it fades. The Hermaphrodite Flowers are compofed of an Empalement, and a tubulous Flower of One Leaf arifing our of it, which is extended the Length of the Tube beyond the Empalement, and is then fpread open at the Top, where it is divided into Five Segments, upon each of which is fituated a (ender Stamina, crowned with a blunt Summit, in the Center of which is placed the roundifh Germen, fupporting a fhort Style crowned with a round Stigma. The Flowers are of a purple Colour. After thefe are paf, the Germen turns to a roundifh prickly Capfulc, having Five deep Furrows, and is dU vided into Five Cells, which contain oval Seeds.

This Plant is propagated by Seeds, which muft be fown in an Hot-bed early in the Spring; and, when the Plants are One Inch high, they fhould be tranfplanted to a frefh Hot-bed, obferving to fhadethem till they have taken frefh Root; after which they fhould have free Air admitted to them every Day in warm Weather, and gently watered from time to time, as they may require. When the Plants have acquired Strength, they xnuft be carefully tranfplanted, each into a fm?!! Pot filled with light Earth, and plunged into another Hot-bed, where they may remain to flower and feed; for they are too tender to thrive in the open Air in *England*, fo fhould be confantly kept under Glaffes, in a moderate Warmth, giving them a large Share of Air in warm Weather. With this Management they will flower in *July* and *Auguft*> and the Seeds will ripen in *September* and *October*.

Thefe Plants may be preferved thro* the Winter, if they are placed in a moderate Degree of Heat: But as they produce Plenty of Seeds, it is not worth Trial to preferve the Plants, becaufe the young ones are always more produ&ive of Flowers and Seeds.

P L A T E CXIX.

DELPHINIUM, *Tourn. Inft. R. H. 4*6. ***. 241. R*j* Metb. Plant. 79. Lin. Gen. Plant. 602. Larkfpur *, in French, Pic & F Alouette.*

THIS Genus of Plants is by *Tournefort* ranged, in the Second SV&ion of his Eleventh Clafs, which includes the Herbs with an anomalous Flower, waoje 1 ointal changes to a many-ailed Capjule.

Mr. *Ray* places it in his Eighteenth Clafs, under which he ranges thofe Plants that have regular t lowers, which are fucceded by many fmall Pods.

Doftor *lira*^j ranges ic in the Third Diyifion of his Thirteenth Ciafs of Plants, intituled, *Polyandna*

trigynia, from their Flowers having many Stamina, an# Three Germina,

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

The Plant here repreftented is,

DELPHINIUM, *neftariis diphyllis, labellis integris floribus, fpicatis foliis palmatis multifidis glabris.* Great Bee Larkfpur.

This is the *Delphinium elatius fubincanum ferenne*^floribus amplis azureis, *Amman. Ruth. 175.* Tall perennial Larkfpur with large azure Flowers.

a, re-

a, represents a Flower taken from the Spike ; b, the Three Germina; c, the several Stamina; d, the three-cornered Capsule; e, a single Pod separated; f, the Capsule cut thro', transversely; g, the Seeds taken out of the Vessel.

This Plant hath a perennial Root, and an annual Stalk, which decays in Winter. The Stalks of this Plant grow to the Height of Six or Seven Feet, and are garnished with Leaves, which are broad, and divided into Five or Seven Parts, which are cut into many narrow Segments toward the Top. These Leaves come out alternately at the Joints of the Stalks, on long Footstalks, which turn back toward the Ground. The Flowers are produced in long Spikes at the Extremity of every Stalk, and are of a fine blue Colour. After the Flower is past, the Germina become three-horned Pods, or Vessels, which are filled with wrinkled Seeds.

The Seeds of this Plant were sent from Peterburgh by the late Dr. Amman who was Professor of Botany there, with Two other Species, which were natives of Tartary - from whence he had received their Seeds. One of these Sorts grows to the Height of Four Feet; the

grants cut almost to the Bottom other freedom rises Two Leaves are divided into many narrow Segments at the Bottom the Flowers are but few on each spike, and are large, and of a deep blue Colour. I suppose, is what Dodor Linnaeus has titled, Delphinium neadriusdiphyllis

he has added the Synonima of Delphinium elatum J'annpmunnefloribus amplis azureis Amman. h's xzh from Do&orJwman: So that he must be mistaken in the Plants of the other Two Sorts I received from Amman. The same Gentleman by different Names. It is the same Plant here called the Delphinium glabrum, Aconoti folii Rolof. which is another Synonima added by Daftor Linnæus to the Title above quoted.

In the Garden, where the Seeds have been frequently sown, and the young Plants have always retained their specific Difference, without the least Variation there can be no Doubt of their being the same.

P L A T E CXX.

DIGITALIS, Tourn. Inft. R. H. 165. Tab. 73. Rait Meth. Plant, 89. Lin. Gen. Plant. 676. Foxglove in French, Digitalis.

THIS Genus of Plants is by Tournefort ranged in the Third Section of his Third Class, which includes the Herbs with an anomalous Flower of one Leaf, which spreads open every IVay.

Mr. Ray places it in the Second Division of his Nineteenth Class of Plants, which contains the Vascular Plants with an irregular difform Flower.

Dodor Linnaeus ranges it in the Second Division of his Fourteenth Class of Plants, intitled, Didynamia Angispermia. The Flowers of this Class have Two long and Two shorter Stamina, and are succeeded by oval Capsules, containing many naked Seeds.

The Species here represented is,

DIGITALIS calycinis foliolis lanceolatis, corollis bilabiatis ccutu, caukfruticosa Lin. Up. Plant. 622. Foxglove with a Jhrubby Stalk, spear flaped Leaves to the Em palemenc, and the Two Lips of the Flower pointed."

This is the Digitalis acantoides Canariensis frutekfnf fioreatteo, Hert -Amfl. z. p. 205. and Gefnerio folii ceolatis ferratu pedunculo terminali laxepicato, Hort Cliff 31S. commonly called Canary Foxglove.

a, shews the Emplacement of the Flower; b, the upper Lip, which is extended beyond the other Parts of the Mower. c, shews its single, when divided into the Tube; d, the Two long and Two short Stamina; e, the Two Stigma; f, the Seed-vessel, inclosed by the Emplacement; g, the same cut thro' longitudinally; h, the Vessel cut thro' transversely, to shew the Cells in which the Seeds are lodged.

This Plant has been long an Inhabitant in some of the curious English Gardens, where, by its long Continuance, in Flower, it makes a fine Appearance, terminated with other exotic Plants. It rises to the

K FOUR being a woody Stem, which divides into several Branches: These are garnished with oblong spear-shaped Leaves, which are rough, and pliable, without stiffness.

in Sm. A. gth: These are of a yellowish Colour, interspersed with yellow, and are shaped somewhat like the ST. from whence Dodor Commeline gave the name of Digitalis to the oides.

TS: Plants grow whence the Seeds were brought to England and many of the Plants were raised in the Garden of the Bishop of London at Fulham, and also in the Royal Gardens at Chelsea. These were the first ever raised in England.

Plants The Seeds are very tender exotic Plants that scarce any of the Year within about Twenty produce plentifully in England.

40 The Flowers are produced in Spikes at the Extremity of every Branch, so, as the Roots are put out at different Times, till the new Season, and here, by the Plants are produced in different Seasons of the Year. The Plants are propagated, and where a plenty some in Flower the Plants are more valuable.

They are too tender to live in the Air thro' the Winter. The Seeds are very tender, and will not live in a dry Air. The Plants are very well suited to a moist and shady Soil, and will grow in a cold and shady Soil.

The Plant is propagated by the Seeds, which are sown in Pots filled with light and sandy Soil, and covered with a Glass in Winter; in a hot Summer, they will rise very well, and will grow in a cold and shady Soil.



Digitalis purpurea



DIGITALIS, vulgaris foliis lanceolatis serratis bilobatis ovulis bilocatis capsula fruticosa Lin. Sp. pl. 622.

Printed by J. Sturges at the Press of R. Clapham in the Strand



DIANTHUS floribus solitariis squamis • mly, ll'.. l, l; v. III. brevissimis corolla multiplex

W. L. ... del.

Published according to Act of Parliament by the Author ... f. —

W. L. ... sculp.



DIANTHUS. *Floribus aggregatis, parvis, albis, ciliatis, centro corollae lobis, & ciliatis, variegatis.*

W. Goussier del.

1788. Tab.

Plant. rarior. p. 10. f. 1. Dianthus barbatus.

P L A T E CXXI.

DIAHTHU*. Lin. Gen. Plant. 500. Meth. Plant. 109. r«r«. Injl. 3*9. Ro^nm 'French, Odlet. Commonly tion in England.

THIS Genus of Plants is r... Clafs, intituled, Decandria... Flower having Ten Stamina, and... Ray places it in his Twenty-second Clafs of Plants, m... Clafs, which he titles, Herbs miba... Leaves, whose Pointal turns to a Fruit... been, by most of the Writers on Botany... phyllus, Lm the Smell of the Flower... of Cloves, and from thence came... Chv-GilUxflaver, to distinguih it from that... Mover, ft has alfo by feme been... has been oftener applied to fome... to the Genus. Same of the Anuents have fuppoted it was called Vettnca* or Betonica, from the Vettones, a People of Spain.

In a former Number there were Two Spec... Genus exhibited under the former J... at which Time it was not propofed to have... more; but feveral of the Subcnbers being... have One or Two good Flowers of this... fented, we have, to comply with their Requeft, this and the following Plate.

This is the

DIANTHUS... viffimis, corolla multiplied... growing fngly a feay... and a double Flower. IMS... Appellation of Carnation with a flaked Flower.

There are great Varieties of this... dens of the Lious FlorHK... much improved them i but they

Tafte about them. Some Years ago the... Flowers, whofe Pods could not contain their numerous Petals were principally cultivated, as were alfo thofe wS Wed Flowers, commonly called Puttees; but at oreftent thofe Flowers which do not burft their Em- Ct and are termed Whole Blowers, zrc in the SEftem; as alfo fuch of them as have full Sfi, ^ Petals, with lively Colours, whole Petals a eTntire and not jagged at their Edges: Thefe are by the Florifts called Rofeleav'd Flake-Flowers, to diftm- luffh them from Piauettees. As every Seafon produces ^any new Kinds of thefe Flowers, fo there are Titles ^yen to them according to the Fancy of the Owner fo ?hit in every County their Names are frequent'y different • therefore the inferring of them here would be in- tirely ufelefs. The Two Flowers which are here re- nSt ed were raifed from Seeds, and have not been C u r e d with Titles; however, as they are fuch as the XV term complete Flowers, they mil convey an Idea of this DiffincYion to fuch as are not thoroughly

The ^ng^ Flower represented below is to exhibit the Ch^rafters of the Genus, which are not fo confpicuous fin double Flowers-, for although many of thole have he O^ans of the different Sexes perfect and produce A Kds vet are they (o covered with the Petals of ^Flower 'asC to be Ln, unlefs they are pulled out s whereas in the fngle Flowers the Stamina and byties ap-

Views. Mentis me Flower fully blown, with the Sta- and Styles in their natural Pofition -, b, (hevs the Ten Stamina, with their Summits anifng from the Em- palement, ftanding round the oval Germen; c, repre- fents the Two horned Styles anifng from the Apex of the Germen; d, (hevs the Germen taken out of the Em- palement, which hath Three Styles, which is not un- S m o n in thefe Flowers-, fo we judged t might be of Ufe to exhibit them here -, e, represents theaeed vefel cut open longitudinally, to fhew how the Seeds are ranged.

Theother Charafters of this Genus, w,th full Account of the Culture of the Plants, being exhibited in the Oar- dener'i ViBionary, we Ihall not repeat them here.

P L A T E CXXII

THIS Plant being of the... which is exhibited in the former Plate... requires no farther Account of the Uais... longs.

The Species here exhibited is,

linearibus tub** ^uantibusJorMs f... tubus equal, narrow Scales to their Empaieiment, t K,i... and the Flowers variegated. This is... Park. Par. Narrow-leav'd bearded G,rden... Gillyflower, with a white Flowei.ha^o... Middle. It is commonly called Painted Lady William.

NUMB. XXI.

<, represents the Bunch of Flowrtj terminating the Stalk • b the Petals of the Flower, which are fawed on f... the Beards or Scales of the hmpalc- are very narrow; d, the Ten Stamina, • S M t u m m U r i i f i n g from the Bottom of the Flower, e, the Two Styles fitting upon th, G,rmen -, /, the Seed vefel cut optn horizontally; g, the fame

K oft; Sort have, by many B r a n s ^ , been feperated from this Genus, and the Title of Ar- lerius Tplied to them; and from thence our Lngjh Names of Sweet William and Sweet John have been giv.n Them Thefirft has generally been applied to thofe with broad Leaves -, and the latter to the narrow leav'd Sorts, by the Gardeners; But moft or the later Bo- tanifts have placed thefe under the Genus of Caryophy- and, fy way of Diffia*on, have added

Epithet of *Barbatus* to them, from the narrow stiff Leaves which are ranged below the Empalement.

Doctor *Linnaeus* has also joined these under his Genus of *Dianthus*, distinguishing them from the Carnations by the additional Epithets of *fioribus aggregatis* \ but he supposes but One Species of the *Garden Sweet William*, and all the others to be only Varieties which have arisen from Seeds : In which I do far agree with him, as to allow the Difference in the Colours of the Flowers to make no Distinction, because these annually change; but the broad-leav'd and narrow-leav'd Sorts keep their Difference, so they may be allowed as distinct Species: Of each Sort there are many Varieties, differing in Colour and Form; and some have double Flowers which never produce Seeds, so are propagated by Slips or Layers.

The single Sorts seldom live longer than Two or Three Years ; therefore young Plants should be annually raised from Seeds, to supply their Place •, and although many of the Roots will continue longer than Two Years, yet their Flowers will not be so strong as those of the Second Year •, therefore young Plants (should always be preferred to old". In the Choice of the Seeds,

those Flowers which are the most beautiful should be marked-, and if all those of bad Colours are separated from them, as soon as they can be distinguished, the Plants produced from the Seeds will be less liable to vary : And if the Seeds are frequently changed by several Persons who live at a considerable Distance, and the soil in which the Plants grow are very different, the Colours of the Flowers may, by this Method, be better preserved than can, with the greatest Care, be done, where the Seeds are for many Years saved in the same Garden. . .

The Painted Lady Sweet William here represented, is one of the most elegant Flowers of this Tribe, and therefore better worth propagating for the Flower-Garden; for the Plants of this grow more compact, and the Flower-Stems are shorter, and therefore not so liable to be blown down or broken as those of the other, and there will always be a great Variety in the cuttish Shades of the Flowers, so do not require any Addition of the other Colours to be intermixed with them. In the tall growing Sorts, with very deep coloured Flowers, are very proper Ornaments for large rural Walks, or to intermix with Shrubs •, where they will thrive with little Care, and afford a pleasing Variety.

PL A T E CXXIII.

DICTAMNUS, Lin. Gen. Plant. 468. Fraxinella, Ray Meth. Plant. 79. Tourn. Injl. R. H. 430. Tab. 243.
Fraxinella, or White Dittany in French, *Fraxinelle*.

THIS Genus of Plants is ranged in the Tenth Class of *Linnæus* intitled, *Decandrin Monogynia*, from the Flowers having Ten Stamina, and one Style. Mr. *Ray* places it in his Eighteenth Class of Plants. The Flowers of this Class are irregular, and are succeeded by several Pods. *Tournefort* ranges it in the Second Section of his Eighth Class, intitled, *Herbs with a Flower of many Leaves, of an anomalous Figure, whose Pointal becomes a Fruit consisting of many Cells*.

The Plant here represented is,

DICTAMNUS, Hort. Cliff. 161. White Dittany, or *Fraxinella*. This is the *Fraxinella purpurea major multiflora*, *H. R. Par.* Great Purple *Fraxinella*, with many Flowers.

a, represents the upper Petals of the Flower, which stand erect; *b*, shows the Ten recurved Stamina, with their Summits; *c*, the Style which fits upon the Germen, and is extended the Length of the Stamina; *d*, the Seed-vesicle, composed of many Cells; *e*, shows the Seed as it is lodged in the Cells; and *f*, the Seeds taken out of the Cafe.

This Plant grows naturally upon the Mountains in *Italy*, and in some Parts of *Germany* •, but is propagated in *England* * for the Beauty of its Flowers. Doctor *Urnau* supposes there is but One distinct Species of this Genus, and the others are only femal Variations from it. The Sort with white Flowers is so; for I have had these come up from the Seeds of the purple: But that which is here figured, is certainly a different Species from the common Sort; for I have always found, that the Seeds of this produced Plants of the same Kind, though some of them have differed in the Colour of their Flowers. The common Sort hath short Spikes of Flowers, which grow thinly on the Stalks, so are not near so beautiful as this, which has occasioned its being disregarded •,

whereby it is much more rare in the *English* Gardens; which often happens to many other Plants, for the same Reason.

The Roots of this Plant continue many Years; the Stalks decay in the Autumn, and new ones are produced every Spring. The older the Roots are, the greater Number of Stalks will be sent forth from each, provided they are not disturbed; for how long the Roots will continue in Vigour, is hard to determine: Some have many which are more than Thirty Years old, and annually increase in their Strength: These send out near Twenty Stalks from each Root, which grow tall, and have long Spikes of Flowers; whereas young ones seldom have more than Three or Four Stems, and the Number of Flowers upon each are much fewer; therefore those who propose to have this Plant in Perfumery should plant the Roots, when young, in the * where they designed to remain; for they do not be transplanting well, when they are old.

The Stalks of this Plant rise near Three Feet high: These are garnished with winded Leaves, placed alternately; each being composed of Four or Five Pair of Lobes, with an odd one at the End, like those of the *4/b-Tree*, but are smooth on their upper dark green shining Colour; on the upper Part of the Stalk the Flowers are produced on every Side, forming a pyramidal Thyrse, or loose Spike. These are composed of Five or Six unequal Petals, which are irregularly disposed, Four of the upper ones being larger than the lower, and stand erect; the other downward, and are, in this Sort, of a purplish marked with Stripes of a deeper: From the Emplacement there arise Ten long Stamina, crowned with roundish yellow Summits; these are reflexed upwards; between which is situated a Style of the same Length, fitting upon a five cornered Germen, which afterwards turns to a Vtill with Five Cells, which are lodged many smooth shining black Seeds, which are hard. This Plant flowers in *May* and *June*, and its Seeds ripen in *October*; The Leaves and flowers have a (strong balsamic Smell. The Roots of it are used in Medicine.



DICTAMNUS *Fraxinifolius*.

Real. Anon. de Linn.

Published according to the Act of Parliament by P. Miller, Her Majesty's Printer.

J. de Miller delin.



Fig. 1. *DIOSMA*, foliis lanceolatis glabris serratis
 Fig. 2. *DIDYMA*, foliis lanceolatis glabris serratis bifloris, callositate alba. In plant. 177.

Botanical drawing of a set of *Diosma* by J. G. Miller in 1774





DIERVILLA, *Caulis et folia fructuosa flore luteo* Tourn. Art. 1746.

Planta montana in Sa. de Indis, et in C. de P. de S. de S. de S. de S.

P L A T E

CXXV.

DIERVILLA, *Town. Mem. Acad. R. S. 1706. Boerh. Ind. Alt. 277. Lonicera, Lin. Gen. Plant. 210.* We have no *Englijh* Name for this Plant.

Hu HIS Genus of Plants should be ranged in *X* *Teurnefort's* Twentieth Clafs, according to his Syttem, in which he includes the Trees and Shrubs, with a Flower of One Leaf, whose Etnpaiement turns to a Berry. Doctor *Linnaeus* has joined this to his Genus of *Lonicera*, and ranges it in his Fifth Clafs of Plants, intituled, *Pentandria Monogynia*, from the Flower having Five Stamina, and One Style. To this Genus he has added the *Caprifolium, Periclymenum, Chamactrafus*, and *Xylojeum*, of *Tournefort*, and the *Symthorkarpus* of *Dillenius*; in which he has not flintly followed Nature: For if the Flowers only are admitted as characteriftic Notes, fome of thefe muft be feperated; but if the Fruit be allowed as a Mark of the Genera, it will ftitU caufe a further Alteration; for as the Fruit of this Plant hath Four Cells, and thofe of *Lonicera* but Two, fo Ijudgr it-will be more intelligible to thofe who are not Adepts in Botany to keep them diftintf.

We know but One Species of this Plant at prefent i which is here reprinted.

DIERVILLA *Acadienhjis, fruticofo flore luteo, Tourn. Ac. R. S. 1706.* Shrubby Diervilla of Acadia, with a yellow Flower.

«, represents One of the Flowers feperated from the Bunch, (hewing its long Tube, with the upper Part divided into Five Segments; *b*, (hews the Flower cut open, with Part of the Tube taken off; *c*, represents the Five Stamina, and the Style-, *d*, (hews Two Stamina taken out of the Flower, with their round Summits i *e*, represents the tubulous Empaiement,

which is cut into Five acute Segments at the Top. Doftor *Linnets* tides this Plant *Lonicera racemistermina-Bus, felis ferralis, Sp. Plant. 175.*

This Plant was firft brought to *Europe*., from *Jacufa*, by Mr. *Vierville*, a *French Surgeon*: So *Tcurnefort*, upon examining its Characters, and finding it would not rano-e in any of his Genera, confituted a new Genus, and applied it to the Name of the Perfon who brought it. Since then the Plant has been found growing naturally in feveral of the Northern Parts of *America*, and particularly in *Nova Scotia*, in great Plenty.

It is a low Shrub, which feldom rses more than Three Feet high; the Stalks are (ender and woody; thefe have a reddifh coloured Baik, and are garnifhed with oblong pointed Leaves, which are (lightly fa wed on their Edges. They are placed by Pairs oppofite at the Extremity of the Stalk. There is often One Or Two fmall Branches produced, each of which is terminated by a loofe Bunch of yellow Flowers, which have long Tubes, and are cut into Five Parts at the Top, which turn backward. Thefe, in the native Courtry of their Growth, are fucceeded by oval Berries, which, when ripe, are of a black Colour, and have Four Cells in each of which is lodged a fingle hard Seed. In *England* the Berries are rarely formed, and thofe which fometimes do appear, never come to Maturity.

The Roots of this Plant creep far under Ground, and fend out many Stems, by which it propagates very fafh. As thefe rife during the Summer Months, fo many of thofe which come up in the Spring produce Flowers the fame Year, and hereby there is generally a Succeffion of Flowers from *May* to *September*-, for the Shoots of the former Year begin to flower early in the Summer, and the Branches from the Sides of thefe foon fo low» and before thefe are over, fome of the young Shoots will begin to (hew their Flowers > which renders the Plant more valuable.

P L A T E

CXW.

DIOSMA, *Lin. Gen. Plant. 241. Spiraea, Com. Rar. Pl. 2» African Spiraea vulgò.*

THIS Genus of Plants is ranged in *Linnaush* Fifth Clafs, intituled, *Pentandria Monogynia*^ Hower having Five Stamina, and One Style. Thefe Plants have been always ranged under the Genus of *Spiraea* by the Writers on Botany: But, according to *Linnaeus's* Syttem, they muft be feperated, on account of the Number of Stamina in the Flowers, for in thefe there are but Five, whereas thofe of the *Spiraea* have Twenty: Befide this, there is a five-pointed Neaarium in thefe Flowers, which is wanting in the *Spiraea*, but as to the Number of Petals in the Flower, and the form of the Seed-velfel, they agree with the Common *Spiraea*, fo might, according to former Syttems, be ranged with it.

The Species here reprinted are,

Fi* i DIOSMA *foliis Unearibus glabris acutis.* Diosma with narrow fmooth Leaves, terminating in a Point.

This Sort approaches near to the *Spiraea Africana odorata foliispilofa, Com. Rar. Pl. 3-* But the Leaves of this are longer, more pointing, and fmooth j in which they differ. This Plant was raifed in the Garden at *Chelfea*, fome Years paft, from Seeds which were fent from the *Cape of Good Hope*; and fince then many Plants have been raifed from the Seeds which have ripened in *England*, which retain their Difference} therefore it may be put down as a diftinct Plant.

It is a shrubby Plant, growing Three or four Feet high fendin^ out many lateral Branches, which extend pretty

pretty wide every Way, fo as to form a large bufhy Head. The Leaves are pretty long and narrow, ending in a fharp Point: Ticy are of a light green Colour, ndr Smooth; ahen bruifed, emit a ftrong balfanic*tabur. Tfctf lowers grow in fmall Clufters, toward the Extremitie of the Branches, which are white, and are compofed of Five obtufe Leaves or Petals, as is reprefented at *a*; in the Bottom of each Flower is fituated a five-cornered Nedarium, which is (hewn at *b*) this fits upon the Germen, which afterward turns to a five-cornered Veffel, reprefented at *d*, which hath Five Cells, containing feveral hard (hining black Seeds; *c*, fhews the Five Stamina of the Flower, which lie flat between the Petals.

Fig. 2. DIOSMA/OIUS *Uneari lanceolatis fubtus convexis bifariam imbruat*, Lin. Sp. Pl. 198. Diofma with narrow fpear-fhaped Leaves, which are convex on their under Side, and ranged Two Ways, like Tiles. This is the *Spiraea Africana*, *Erica baccifera foliis*, Raii Hijit. 3. 91. *Africana* Spiraea, with Leaves like the Berry-bearing Heath.

This is a low bufhy Shrub, which feldom rifes above

Two Feet high; but fpreads out its Branches far on every Side: Thefe are garnifhed with narrow fmoth Leaves, of a light green Colour, which are ranged on each Side the Branches, fo appear flat on the upper and under Side; when thefe are bruifed, they emk a very ftrong penetrating Odour. The Flowers of this Sort are produced fingly from between the Leaves, and are compofed of Five Petals, which are white, and tinged on their upper Surface, as reprefented at *e*. In this the Ne&arium is lefs vifible than the former, and the Seed-veffels are much fmaller, but of the fame Form.

Thefe Plants grow naturally at the *Cape of Good Hope*, where there are many other Species of this Genus, of which have been lately introduced to the *Engliff* Gardens, where they are very ornamental Plants to the Green-houfe, for they are feldom deftitute of Flowers. They are propagated either by Seeds or Cuttings: The latter, being the mod expeditious, is more generally pradiifed; for the Seeds feldom grow the Firft Year, but lie in the Ground till the following Spring. The Cuttings may be planted in any of the Summer Months, in Pots filled with light Earth, and plunged into a gentle Hot-bed, which will take Root in Five or Six Weeks.

P L A T E CXXVfc

DIOSPYROS, Lin. Gen. Plant. 1027. *Guajacana*, Tourn. Injt. R. H. 600. Tab. 371. Indian Date Plum.

THIS Genus of Plants is ranged in *Linn*us's* Twenty-third Clafs, and the Second Divifion, intituled, *Polygamia Dioecia*. Thefe are Male and Female in different Plants.

Tournefort ranges it in the Second Settion of his Twentieth Clafs, which includes the Trees and Shrubs with a Flower of One Leaf, whole Pointal turns to a Fruit with a ftony Seed.

The Charafters of this Genus are exhibited in the *Gardener's Dictionary*.

The Species here reprefented is,

DIOSPYROS *foliorum paginis difcoloribus*, Lin. Sp. Plant. 1057. Indian Date Hum, with Leaves whole upper and lower Sides are of Two Colours. This is the *Guajacana*, *J. B. 1. 138.* and the *Lotus Africana latifolia*, *C. B. P. 447.* Broadleaved African Lotus.

a, reprefents an intire Male Flower; *b*, fhews the fame, cut open; *c*, (fhews the Eight fhort Stamina, with their round Summits.

By fome this is titled *Guajacum Patavinum*; others call it *Pfeudolotus Africana*: But the Title of *Diospyros*, which is applied to it by *Linnaeus*, is taken from *Theophrastus*, who had given it to fome Plant nearly allied to this, if it was not the fame.

Where this is a Native is difficult to determine; but it is generally fuppofed it was brought from *Africa* to *Europe*, and the particular Place is thought to be *Mauritania*, where fome of the Trees are now growing;

though thefe may poffibly have been tranfplanted from fome other Country. The Occafion of its being called *Guajacum Patavinum*, was from One or Two very old Trees growing in the Garden at *Padua*, and the native Country from whence they were brought being unknown. There are fome who have mentioned this Tree to grow naturally in *Italy*, and the *South of France* but from the beft Information I can get, thefe have been planted there. This Tree has been but few Years in the *Engliff* Gardens. The Seeds of it I procured from the Garden at *Padua*, where the Fruit constantly ripens; for in the *Butch* Gardens, where I faw Two, or Three pretty large Trees, they never produce any Fruity

In warm Countries thefe Trees grow to a large Size, and extend their Branches far every Way. Thefe are well garnifhed with oblong Leaves ending in a Point, the upper Surface of them having a fhining Caft of a Copper Colour, and their under Surface a little inclining to white: Thefe are ranged alternately on the Branches. The Flowers are produced fingle out of the Side of the Branches between the Leaves, having very fhore Footstalks. They are fhaped like a Pitcher, and are of a worn-out purple Colour. The Fruit is the Size of a middling Plum, of a pulpy Subftance, black when fully ripe, and inclofes feveral oblong compreffed Seeds. This Fruit is eaten after it hath lain fome time to mellow, like the *Medlar*, and is by fome Perfonefteerned.

We have no Trees large enough in *England* yet to bear Fruit: but Two of the Male Sort have produced Flowers in the *Chelfea* Garden. While young the Plants are impatient of Cold, the Froft fometimes killing the Extremities of their Shoots; but in a few Years they grow hardy enough to refill the greateft Cold of this Country, in a warm Situation.



*Les yeux
Diospyros
...*

...

DIOSPYRUS, folium papaw d'antilles. See. p. 101. n. 17.



J) QDAUTIA fittmra

Handwritten text, likely a name or reference.

Handwritten text, likely a date or location.

Handwritten text, likely a name or reference.



Donostem. foliis cordatis ovatisque et 'cattf-ujfrtti' basi caulis ampliusculis Lin. Mo. Med. 394

Plantae inchoatae in Herb. Botanic. Lipsiae

P L A T E CXXVII

DODARTIA, *Tourn. Cor. 47- 478, 731, 732*
Plant. 698. We have no English Title for this Plant.

THIS Genus of Plants must be ranged in the Third Section of *Tournefort's* Third Class, which includes those Plants that have an anomalous Flower of One Leaf, opening on both Sides. *ff*
***us* ranges it in the Second Section of his Twelfth Class, intitled, *Didynamia Angiospermia 5* the Flowers of this having Two Ion*, and Two (hort Stamina, and the Seeds are inclosed in a Capfule. It must be ranged in the Second Section of Mr. *Ray's* Nineteenth Class, or **Plants, intitled, Herbs with a difform Flower of One Leaf, whose Seeds are contained in a Capfule.**

The Species here represented is,

DovAKTiAfoliis linearibus integerrimis glabris, Lin. Sp. Plant. 623. *Dodartia* with very narrow pure smooth Leaves. This is the *Dodartia Orientalis flore purpurafiente, Tourn. Cor. 47.* Eastern *Dodartia* with a purplish Flower.

This Plant was discovered by Doctor *Tournefort* in Armenia, from whence he sent the Seeds to the Royal Garden at Paris, where they succeeded; and the Plants have since been communicated to most of the curious Gardens in Europe. He gave this Title to it in Honour of Monsieur *Dodart*, Member of the Royal Academy of Sciences at Paris, and Physician to her Royal Highness the Princess of Conti.

It hath a perennial creeping Root, by which it greatly multiplies; the Stalks rise about a Foot and a Half high, frait, firm, smooth, and of a bright Green, sending out many Side Branches from the Bottom upward, so as to form a sort of low Bush; at each Joint comes out One or Two narrow Leaves, about an Inch long, which are fleshy, and jagged a little on their Sides, especially those which come out toward the Bottom: The upper Parts of the Branches are adorned with Flowers, which come out singly from the Joints; these are of a deep purple Colour, and about an Inch long; the Bottom is tubulous, and divides into Two Lips, as is represented at *a*, and *b*: The upper Lip being hollow like a Spoon, as is represented at *c*, the convex Side Handing upward, and divided into two Parts: The lower Lip is divided into Three Parts, as is represented at *d*, the middle one being very small. The Empalement of the Flower is short, smooth, and divided into Five Parts, into which is inserted the roundish Germen, supporting a crooked Style, represented at *e*, which is crowned by an obtuse Stigma. This is attended by Four Stamina; Two of which are short, and Two longer, represented at *f*: The Germen afterward turns to a spherical Capfule, opening in Two Cells, which are filled with small brown Seeds.

This Plant thrives very well in the full Ground, and requires no Protection in Winter, and propagates very fast by its creeping Roots; the Flowers come out in July, and the Seeds ripen in September, and in a Month after, the Stalks decay to the Root.

P L A T E CXXVIII

**ДОРОСТЕНЪ, C. B. P. 184. Mi M^{ph}, Plant. 33.
 Tour., Inf. R. H. 487. Tat. *77. Lin. Gen. Plant.
 862.** Leopards Bane.

THIS Genus of Plants is ranged in the Fourteenth Class, intitled, ***«bswtb»*
Flowers, whose Seeds are crowned with Down. *M^{ff} Ray*
 Doctor *Linnaeus* places it in his Seventh Class, which includes the Herbs
 with a radiated discous Flower, with a downy Seed.
 Doctor *Linnaeus* ranges it in the Second Division of his
 Nineteenth Class, intitled, *Syngenezia Polygamiafer-*
fua -, from the Heads containing many Male and
 female Flowers in One common impalement.
 This Genus he has added the *Belidifum* of *M. W.*,
 and he has separated some of the Species, which had
 been included in this Genus, to another, under the Title
 of *Arnica*, because their Female Flowers have five Sta-
 mina, which the Flowers of this Genus have not.

The Species here represented is,

**DORONICUM, foliiscordatisoHufn, radicalimpliqlath
 eaulinis ampUxicaulibus, Lin. Mat. Med. 394. J. C.
 Leopards Bane with blunt Heart-shaped Leaves; those
 from the Root having Footstalks, but the upper
 NUMB. XXII.**

Leaves embracing the Stalks. This is the *Doronicum maximum, foliis caulem amplexantibus, C. B. P. 184** Greatest Leopards Bane, with Leaves embracing the Stalks, and the *Doronicum VII Jufuriscum 3. Cluf. Hiji. 2. p. 19.*

The Root of this Plant is thick and fleshy, and hath many Joints or Knees, sending down strong thick Fibres into the Ground. The Leaves, which rise immediately from the Root, are hairy, soft, and Heart-shaped, having a long Footstalk represented at *a*; from the Root arises a pretty strong channelled hairy Stalk, near Two Feet high, which are garnished with oblong Heart-shaped Leaves closely embracing the Stalks at their Base, as at *b*; these are hairy and soft: The upper Part of the Stalk divides into Three or Four smaller, each being terminated by a single Head of Flowers, included in One common Empalement, composed of a double Series of Leaves, which are narrow, and as long as the Rays or Border of the Flower, as is represented at *c*; the Border or Rays of the Flower, marked *d*, is composed of many Female Flowers, which have a short Tube, and are stretched out at the Top on the Side like a Tongue, as is represented at *e*. The Disk, or middle of the Flower, is composed of many Hermaphrodite
 Z Flowers,

Flowers, which are tubulous, Funnel-shaped, and cut into Five Parts at the Top, as is shewn at /; where it fits upon a Germen, which afterward becomes a single oval compressed Seed, as at g, crowned by an hairy Down. The Flowers are of a bright yellow Colour, and appear in May, which is the Season when there are the greatest Number of Flowers •, but in moist cool Summers there is frequently a Succession of Flowers till Autumn. The Seeds ripen in August, which are dif-

perfed by the Winds, whereby the Plant propagates very fast. It grows naturally upon the Alps and Mountains in Germany -, and is supposed by many to be a very poisonous Plant, which will destroy IFolves, Dogs, and other Animals ; though others recommend it as an Antidote to expel the Poison of Scorpions, The Roots are the only Parts of the Plant used, andth«*»: but seldom; though it has a Place among the medicinal Simples in most Dispensaries.

P L A T E CXXIX.

DRACOCEPHALUM, *Lin. Gen. Plant.* 648. *Moldavica*^
Tourn. Inft. R. H. i#4- *Tab.* 85. *Rail Meth. Plant.*
64. Dragons Head, or *Moldavian Baum*,

THIS Genus of Plants is ranged in Doctor *Linnaeus*'s First Section of his Fourteenth Class, intitled, *Didynamia Gymnospermia* \ the Flowers having Two long and Two short^Stamina, and being succeeded by naked Seeds. To this Genus he has joined the *Moldavica* of *Tournefort*, of which Genus this is a Species. *Tournefort* places this Genus in his Fourth Class of Plants, and in the First Section, in which he includes the Herbs with a bilobed or lipp'd Flower, whose upper Lip is galeated and falcated. Mr. *Ray* ranges it in his Fourteenth Class of Plants, which includes the Herbs whose Flowers grow in Whorles round the Stalks.

The Species here represented is the

DRACOCEPHALUM, *floribus verticillatis bracteis oblongis, fruticulis spinosis foliis subtomentosis, Lin. Sp. Plant.* 595. Dragons Head, with oblong spinous Bracteis, and woolly Leaves. This is the *Moldavica Orientalis betonica folio*», *flore magno violaceo, Tourn. Cor.* 11. Eastern *Moldavian Baum*, with a Betony Leaf, and a large Violet Flower-, and the *Dracocephalum, floribus verticillatis, foliis lanceolatis floribus oblongis, Hort. Cliff.* 308. Dragons Head, with Flowers growing in Whorles, Spear-shaped Leaves and oblong Flowers.

This Plant was discovered by Doctor *Tournefort* in the *Levant*, who sent the Seeds of it to the Royal Garden at *Paris*, where it succeeded •, and from thence the Gardens in most Parts of *Europe* have been furnished with this Plant.

It is generally called an annual Plant •, but I have frequently had the Roots live Two Years, especially

when the Winters have proved favourable, and those have flowered early the following Summer : But as the Plants which come up from Seeds in the Spring, do perfect Seeds the same Year, so there are few Persons who regard the Roots after. The Stalks of this Plant are square, and rise a Foot and a Half high; they are hoary, and divide into Two or Three smaller Branches, which are garnished with oblong Leaves, placed by Pairs opposite at each Joint, and are hoary on their under Side, with several longitudinal Veins running through them. From the Wings of the Leaves the Flowers are produced in Whorles round the Stalks, having Three or Four small roundish Leaves growing to the Base of their Footstalks, which is represented at the End of the Footstalk of the Flower *a*, (these are what *Linnaeus* terms Brachsea) deeply fawed at the Edges, each Serrature ending in a soft Spine. The Empalement of the Flower is tubular, and of One Leaf, and (lightly cut at the Top into Five Parts. The Flower is of that Kind which *Linnaeus* terms^ *ringent* (*grinning*), and by *Tournefort*, *Ray*, and others, is ^{c^a^i^} *Lip Flower* \ it is of One Leaf, having a long Tube, and divided at the Top into Two Lips, as is represented at *a*; the upper Lip is forked and erect, the lower Lip is cut into Three Parts, *b* represents the tubular Empalement of the Flower, *c* shews the Four Stamina \ Two of which stand erect, and the Two longer incline to the lower Lip, turning up their blunt Stigma. These Flowers are of a violet Colour, and appear about the End of *June* •, but there is a Succession of them, towards the Tops of the Stalks, near Two Months, in moderate Seasons. After the Flower is past, the Empalement *a** becomes the Cover to the Seeds 5 which are generally Four to each Flower, as represented at /; these stand naked round the Receptacle *e*. The whole Plant hath an aromattick Scent.



Dracocephalum thymifolium

DRACOCEPHALUM. *Floribus verticillatis, bracteis oblongis, perianthio campanulato, tubo corollae tubo calycis subaequali. Hort. Vindob. 66.*

Original painting in the Herbarium of P. de la Roche, Paris, 1758

W. Smith del.

J. Miller sculp.



Carduus vulgaris var. *capillaris* L. in. - p. 105

Carduus vulgaris var. *capillaris* L. in. - p. 105





Fig. 1. ELICHRYSUM, a. *Spinaea juncea* var. *longicaulis* foliis ovatis. *Herz. herb. n. 100.*
 Fig. 2. Kurmtsi. *foliis lanceolatis decurrentibus foliis ovatis* *f. ovatis ovulifera*

A. L. L.

Printed and sold by J. B. Baillière, 21, rue de la Harpe, Paris.

P L A T E CXXX.

ECHINOPS, *Lin. Gen. Plant.* 829. *Echinopus*, *Town. Inji. R. H.* 463. *Tab. 262. Carduus Sphatrocephalus*, *Raii Meth. Plant.* 43. The Globe Thistle.

THIS Genus of Plants is ranged in the First Section of Linnaeus's Nineteenth Class, intituled, *Syngenesia Polygamia Mquatis*. *tournefort* places this Genus in the Fourth Section of his Twelfth Class of Plants, intituled, *Herbs with a flosculous Flower, whose Florets are equally cut at the Top, and each fits in its proper Empalement*. Mr. Ray ranges it in his Ninth Uais, which he titles, *Corymbiferis affines*.

The Species here represented is,

ECHINOPS, *calculus unifloris, caule unicapitato*, *Lin. Sp. Plant.* 815. Globe Thistle with one Flower in each Empalement, and One Head upon each Stalk: This is the *Echinopus minor*, *J.B.3-7**. *J^mf^{er} Gl^o^* Thistle. By Label it is titled, *Ritrojonbus cseruleis*, *Icon. 8. CasparBauhin* titles it, *Carduus Sph^{ro}cephalus caruleis minor*. *Pin.* 381. Smaller blue Globe Thistle.

This Plant hath a perennial Root and an annual Stalk* The Root is composed of many strong rough fleshy Fibres, which creep in the Ground; from which arise several white Stalks about Two Feet high, which are garnished with long Leaves at every Joint, which are deeply cut and jagged, and armed with sharp Spines on their Edges •, these are green on their upper Surface and white underneath. The Stalks divide towards the Top into Two or Three small Branches, which are garnished with Leaves of the same Shape, but are smaller than those upon the main Stem. Each of these Stalks is terminated by a globular Head of Flowers, which are of a fine blue Colour. The Heads are composed of many Hermaphrodite Flowers, each having a distinct scaly Empalement, as is represented at *a*. These are cut into many Segments at the Top, as is shewn at *b* •, each of these fit upon an Embryo, which afterward becomes an oblong Seed, (shewn at *c*; which in dry Seasons ripen very well in *England*. This Plant flowers in *July* and *August*, and the Seeds ripen in *Autumn**

P L A T E CXXXI.

EUCHRYSUM, *turn. Infi. R. H.* 4P- *raii Meth. Plant.* 34. *Gnaphalium*, *Lin. Gen. PL* 850. *Eternal* Flower, or Golden Cassidony.

THIS Genus of Plants is ranged in the Second Section of Tournefort's Twelfth Class, intituled, *Herbs with a flosculous Flower and a downy Seed*. Mr. Ray Places it in the Second Section of his Seventh Class, which he titles, *Herbs with a naked downy Flower, & downy Seed*. Doctor Urvus ranges it in the Twelfth Division of his Nineteenth Class, intituled, *WW g^e. gamia superflua*. The Flowers being composed of hermaphrodite and Female Florets, and the Stamina and Summits being joined in a cylindrical Body.

The Species here represented are,

Fig. . . *Euchrysom* . . . *longionbus foliis incanu*, *Hort. Amjt. 2. J^o^* . . . 4ⁿ « E t e m a l Flower with narrow and longer Leaves which are hoary.

Dodor *Linnaeus* supposes this is the same Plant as the *Elicbryfum Oriental* *C. B. P.* 264. but those who have seen both Sorts growing, can never doubt of their being

distinct Species: For the Oriental Sort never rises with Stalks, but throws out many Heads near the Ground; whereas this Sort rises with Stalks Four or Five Feet high, dividing into many Branches, which are garnished with long narrow Leaves placed alternately; but the other hath Spear-shaped Leaves, growing in Clusters without Order. The Flowers of this grow in a loose Corymbus, having long Pedicles; but those of the other grow compact.

The Root of this Plant is composed of many ligneous Fibres, from which the shrubby round Stalk arises, which is white and woolly; it rises to Four or Five Feet high, which divides into several Branches, garnished with long narrow white Leaves growing close to the Branches, without any Footstalk, and are generally reflexed backward. The Branches are terminated by a Corymbus of Flowers, each Flower being composed of several Hermaphrodite Florets, One of which is represented at *e i* these are all included in One common scaly Empalement represented at *a*. The Florets expand at the Top, where they are lightly cut into Five Segments, as are represented at *b* and *a* these are white and silvery on their Outside, but within are yellow, they appear all the Summer, and sometimes perfect their Seeds.

Fig.

fig. 2. *ILLRCTRYSUM font's dheartifus c&currnd'Sus fiw¹-tus incanis fioribus Corymbofis.* Eternal FJower, with narrow running Leaves hoary on their under Side, and Flowers growing in a Corymbus.

This Plant was raifed in the *Chelfea* Garden, from Seeds which came from the *Cape of Good Hope*. It hath a Root compofed of many Fibres, from which arife many irregular Stalks which divide into many Branches; thefe are garnifhed with oblong Leaves, green on their upper Side, but white underneath; and from each there runs a Border or Wing along the Stalk from one to

the other, fo as to form what the former Botanifts termed a winged Stalk; but *Doftor Linnaus* files thefe running Leaves. The Top of each Stalk is terminated by a compound Corymbus of Flowers compofed of many fmall ones, which are each compofed of many fmall yellow Flowers growing very compofit. Thefe continue in Succeffion moft Part of Summer, and perfd their Seeds in the Autumn.

Both thefe Sorts require Protection from Froll in Winter, and are eafily propagated by Cuttings during any of the Summer Months.

P L A T E CXXXII.

EMERUS, *Cafalp.* 117. *Tourn. Inft. Ofo. Tab.* 418. *Colutea Scorpioides, Raii Meth.* 163. *Coronilla > Lin. Gen. Plant* 789. Scorpion Sena.

CpOURNEFORT ranges this Genus of Plants in the Third Seftion of his Twenty-fecond Clafs, intituled, *Trees and Shrubs with a papilionaceous Flower whose Leaves are conjugated^ having many fmall Leaves ranged along the Midrib.* This (ould properly have been included in his Tenth Clafs, with the other papilionaceous Plants; but he has feperated the Trees and Shrubs of this Clafs from the Herbs, and placed them in his laft Clafs; in which he has been followed by Mr. *Ray*. *Doftor Linnaus* ranges it in his Seventeenth Clafs of Plants, intituled, *Diadelphia Decandria*, the Flowers have Ten Stamina joined in Two Bodies, and he puts it under the Genus of *Coronilla* *, to which he alfo joins the *Securidaca* of *Tournefort*.

The Species here reprefented are;

Fig. 1. EMERUS *Cafalp.* 117. Scorpion ~~Sen.~~

This is a low Shrub, which feldom grows more than Four Feet high, putting out many Stems from the Root; thefe, when young, are green and fmoth, but as they become older they have an Afh-coloured Bark, which is rough; they are garnifhed their whole Length with winged Leaves, compofed of Four Pair of fmall

Leaves placed along the Midrib oppofite, and terminated by an odd one: Thefe Leaves are obtufe, and indented at their Extremities. The Flowers are produced at the Wings of the Leaves, generally Two upon each Footstalk, which is often longer than the Leaves. They have a fhort Empalement of One Leaf, reprefented at *a*. The Flower is of the Butterfly Kind, as is fhewn at *b*. This is compofed of a Standard (or Vexillum) which is Heart-fliaped, reprefented at *c*. The (Ate, or) Wing**t* are fhewn at *J*. And the (Carina, or) Keel, at*. Thefe Flowers are yellow, and make their Appearance in *May*; but there is ufually a Succeffion of them till Autumn. They are fucceeded by long taper Pods, reprefented at/* which ripen their Seeds in Autumn.

Fig. 2. EMERUS *minor > Tourn. Inft. R. H.* 650. Smaller Scorpion Sena.

This Sort is the moft common in the *Englifh* Gardens, the Firft being in very few; nor was it known of late Years here, till I procured the Seeds from *Italy*. This Second Sort rifes to a greater Height than the Firft* but the Flowers are fmall. The Leaves generally have One Pair of fmall Leaves more upon each Midrib, but they are narrower, and end in a Point; fo that there can be no Doubt of their being diftindt Species, epecially as they continue their Difference when raifed from Seeds.



Fig. 1. EMERUS. *Cajuputi* 17
 Fig. 2. EMERUS. *minor* Tournef. *Boiss. & DC.* 1830

Pl. Emerus. Boiss.

Published by order of Parliament by J. Miller, Printer, 1789

J. Miller, sculp.



V. 111

EPIMEDIUM *Leafy plant* 1808

L. 111111 del.

Delicately rendered in the style of P. de Crousse by L. Miller Jan 20 1808

J. Miller sculp.



FABAGO, Belgarum sive Peplus Parisiensium Lugd. 450

W. Goussier delin.

Engraved according to list of Parliament by P. Miller January the 30th 1757

A. J. Miller sculp.

P L A T E CXXXIII.

EPIMEDIUM *Bod.* 599. *Tourn. Inft. R. H.* 232. *Rail Meth. Plant.* 129. *Lin. Gen. Plant.* 138. Barrenwort.

THIS Genus of Plants is ranged in the Sixth Section of *Tournefort's* Fifth Clafs, intituled, *Herbs with a crofs-jhaped Flower, whofe Pointal turns to a Pod with One Cell* Mr. *Ray* places it in his Twenty-fifth Clafs, which contains feveral Genera that he knew not where to range. Doftor *Linnaeus* ranges it in the Firft Section of his Fourth Clafs, intituled, *Tetrandria Monogynia*; from the Flower having Four Stamina and One Style. We have but One Species of this Plant in *Europe** which is here reprefted; viz.

EPIMEDIUM *Bod. pempt.* 599. Barrenwort. *John Bau&z* titles it, *Epimedium quorundam*, *Hijl.* 2. 295'

This Plant hath a creeping Root, whereby it fpreads and propagates very faft, fending many ftrong Fibres down into the Ground; and upward arife many fmall, ftiff, fmooth Footstalks, about Nine Inches high, divided toward the Top into Three fmaller Sprigs or Stalks; each of which is again divided into other Three; upon each of thefe fmaller Footstalks ftands a ftiff heart-fhaped Leaf, pointed at the End, and indented on the Edges; of a pale Green on the upper Side, but Grey underneath, and full of Nerves. A little below the Firft Divifion of the Footstalk, comes out the Footstalk of the Flowers, which is near Six Inches long, dividing into feveral fmaller, each having

Three Flowers, One upon each of the leaf Footstalks at the Extremity. The Flower is compofed of Four Leaves, placed in Form of a Crofs, as is reprefted at *a*. Thefe are of a reddifh Colour, with a yellowifh Stripe on the Border. They are hollow at firft, and fhaped like a Pipe, as is reprefted at *b*. The Emplacement of the Flower is compofed of Four Green Leaves, reprefted at *c* which are fituated directly under the Petals, and clofely adhere to them, fo that a negligent Obferver would fuppofe them One. In the Center of the Flower rifes the Pointal *d* which afterward turns to a Pod, having Two Valves^ as is reprefted at *e*, containing feveral fmall Seeds.

This Plant grows naturally upon the Mountains in *Auftria* and *Liguria*. Mr. *Ray* found it growing near *Ponteba*, which parts the *Auftrian* and *Venetian* Territories. It flowers in *April*, and the Seeds ripen the Beginning of *June*, when they are foon caft out of the Pods. It delights in a moift fliady Situation, and increafes faft by its creeping Roots. For the remarkable Oddnefs of the Flower, it deferves a Place in Gardens.

Do&or *Tournefort* found Two other Varieties of this Plant in the *Levant*; one with a greenifh white, and the other a pure white Flower; but as thefe only differ in the Colour of their Flowers, fo they are eftemed as feminal Variations.

There have been great Doubts amongft Botanifts concerning the *Epimedium* of *Diofcorides* and *Pliny*; fome have fuppofed it to be the fame with this which is here reprefted, but others take it to be a different Plant.

P L A T E CXXXIV.

FABAGO, *Tourn. Injl.* 258. *fab.* 135- *Capparis Fabago Raii addend.* 192. *Zygophyllum Lin. Gen. Plant.* 474. Bean Caper.

THIS Genus of Plants is ranged in the Fourth Section of *Tournefort's* Sixth Clafs, intituled, *Herbs with a Rose Flower, whofe Pointal turns to a Frujt with many Huks*. Doftor *Linnaeus* ranges it in the firft Section of his Tenth Clafs, intituled, *Decandria Monogynra*, the Flowers having Ten Stamina, and One Style.

The Species here reprefted is,

FABAGO *Belgamm, five Peplus Parifienfmm Lugd.* 456. The Bean Caper. This is the *Capparis Portulac** folio *C. B. P.* 480. Caper with a PurQam Leaf; and the *Capparis Fabago Bod. pempt.* 741- Bean Caper. Doftor *Linnaeus* titles it, *Zygophyllum, capfuis prifmatico-pentaedris. Hort. Upfal.* 103. *Zygophyllum*, with a five-cornered prifmatic Seed Veffel.

This Plant hath a thick, long, perennial Root, which is covered with a brown Skin, and, as ic advances

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in Age, becomes more ligneous; and the Head of the Root rifes higher out of the Ground, by the Falling off of its annual Shoots, for the new Shoots come out above the Part where thofe of the former Year were placed. From the upper Part of the Root arife feveral firm, round, fmooth-jointed Stalks* which divide into Branches of the fame Form; thefe are garnifhed with Leaves at every Joint; whofe Footstalks are placed oppofite, and are about an Inch long; each fuftaining Two oval Lobes (or fmall Leaves), which are fucculent, like thofe of Purflane, and of a fea-green Colour; the Leaves which grow on the lower Part of the Stalk and Branches being much larger than thofe on the upper. From the Wings of the Leaves come out the Footstalks of the Flowers, which fometimes are fingle, and at others are double, One on each Side the Branches; each fuftaining a fingle Flower, having an Emplacement compofed of Five concave Leaves, repre^ Tented at *a*. The Flov/er hath Five concave Petals, which are much larger than the Emplacement, as is reprefted at *b*; in the Middle of which arife the Ten Stamina, furrounding the Style, as is fhewn at *f*; which are ftretched out much beyond the Petals, and

A a are

are terminated by oblong Summits lying prostrate, as is represented at *d*. After the Flower is fallen, the Pointal becomes an oblong, five-cornered, flefily Capful, having Five Cells, which have Valves, and are divided by an intermediate Partition -, each inclofing Two or Three roundifht compréfléd Seeds. In the Autumn the Branches decay and fall off, leaving the flumpy Root naked, which puts out new Shoots in the Spring. In warm Years this Plant will perfect Seeds very well in *England*.

It grows naturally in *Syria*. I have frequently received the Seeds from *Smyrna* and *Aleppo*. Some have

mentioned this to grow wild in *Italy* but Mr. *Ray* could not find it there. The Root of this Plant is of a long Duration •, there is at present one growing in the *Chelfea* Garden, which is more than Forty Years old, and is yet very vigorous, putting out many Stems every Year; and, in warm Seaforts, produces many good Seeds. It requires a dry lean Soil, and a warm Situation. If these Roots are planted in Lime Rubbish, they will not grow so vigorously as in good Ground* so will better endure the Winter's Cold; for, when they are full of Juice, the Frost often deftroys them. The *Syrian* Name of this Plant is *Morgfani*.

P L A T E CXXXV.

FILAGO, *Lin. Gen. Plant.* 891. *Gnaphalium*^ *Tourn. Inf.* i?./1. 461. *Tab.* 261. *Gnaphalium maritimum* *Raii Meth. Plant.* 38. Cottonweed, or Cudweed.

THIS Genus of Plants is ranged in the Fourth Se&ion of *Linn<eus>* Nineteenth Clafs, intituled, *Syngenefia Polygamia neceffaria*. The Flowers of this being compoied of feveral Female and Hermaphrodite Florets included in One common Empalement, and the Stamina and Style coalefce in the Hermaphrodite Florets. *Tournefort* places it in the Third Se&ion of his Twelfth Clafs, which includes thofe Plants which have flofculous Flowers, and Seeds without Down. Mr. *Ray* ranges it in his Eighth Clafs, which contains the Corymbiferous Plants with a naked Flower.

The Species here represented is,

FILAGO *mentofa*^ *Corymbofubramofo, foliis oblongis obtusis crenatis* *Sy Lin. Sp. Plant.* 927. Woolly Cudweed, branching under the Flower-Heads, and oblong blunt Leaves, which are crenated. This is the *Gnaphalium maritimum*. See Cudweed, *C. B. P.* 263. and the *Chryfanthemum perenne Gnaphaloides maritimum*^ *Mor. Hift.* 4. p. 81. Perennial maritime Chryfanthemum, like Cudweed. In the *Hortus Cliffbrtianus* it is titled, *Santolina cerymbo tetminali fubdivifo foliis oblongis integerrimis obtufis*. 398. Lavendar Cotton, with a Flower-Head terminating the Divifion of the Branches, and oblong blunt intire Leaves.

It hath a ligneous Root, fending out many Fibres, which fpread near the Surface of the Ground \ from

which come out feveral hard Stalks, which trail upon the Ground, and fend out on every Side many final! Branches, which are clofely garnifhed with oblong blunt Leaves, crenated on their Edgef, *fet* dole to the Branches without any Footstalks; these are covered over with a cottony Down extremely white. The Flowers are produced toward the End of the Branches, upon ihort Footstalks, as is represented at *g* and *h*. They are compoied of feveral Florets collected in a ^{Sort of} Corymbus, and included in one common fealy Empatement, as is represented at *a*. The Florets are funnel-fhaped, and divided at the Top into Five Segments which fspread open, as is fhewn at *b*. These fit upon the Germen <, fituated between the gutter-(haped Lear *d*. The Germen afterward becomes a final!, oval, fmooth, compréfléd Seed, as is represented at *e*; which hath no Down adhering to it, but is covered by a Hood marked/. The Florets are of bright yellow Colour, which, with the extreme Whitenefs of the Leaves and Branches make a pretty Appearance.

It flowers in *June*, *July*, and *Auguf* -, and in warm dry Seafons the Seeds will ripen in *September* \ but it much Wet happens when the Flowers open, the Seeds prove abortive.

This Plant grows naturally in great Plenty on the Borders of the *Mediterranean* Sea \ and alfo in *Anglefa** and on the Shore in *Cornwall*, from both which Places I have received the Seeds. It is a perennial Plant, and will live abroad in mild Winters without Shelter, provided it is planted in a gravelly dry Soil; but in good Ground it is, apt to grow rank in the Summer, and then the Frost soon deftroys it.

Winnadina
M. ...



Winnadina
M. ...



TILAGO *truncata* *acryta* *extrema* *folia* *oblonga* *stipula* *ovata* *Lin.* *14. pl. 35.*

Winnadina

Published according to an Act of Parliament by P. Collier Junr. 1825.

Winnadina



Fig 1. *FUMARIA* aliquot linearibus tetragonis caulis diffusis acutangulis L. ex sp. plant. 101
 Fig 2. *FUMARIA* perispermis monospermis racemosis caulis diffusis L. ex sp. plant. 101

11. in. 181. del.

Palmer's drawing in Act of Parliament by P. Miller Jan. 20. 1757

C. Miller sculp.



CAKUSA Lindl. (Lep. 202)

22. 20. 20.

Sp. Pl. ed. 2. p. 104. t. 1. f. 1. 1807.

J. Miller del.

P L A T E CXXXVI,

FUMARIA, *fount. Injt. R. H.* 4«- ***. 2J7- Raii
Meth. Plant. 130. *Lin. Gen. Plant.* 760. Fumitory,
 in *French, Fumeterre.*

THIS Genus of Plants is by *Journfort* ranged in the First Section of his Eleventh Clafs, which includes the Herbs with a polypetalous anomalous Flower, whose Pointal turns to an unicapfular fruit. Mr. *Ray* places it in his Twenty-fifth Clafs, which contains the anomalous Plants he knew not where to range. *Unnaus* puts it in the First Section of his Seventeenth Clafs, intituled, *Biadelphia Hexandna*; the Flowers having Six Stamina, which are feperated in Two Bodies; and he joins to this Genus the *Capnoids* of *Tournefort*, the *Cycticapnos* of *Boerhaame*, the *Corydalis* of *Dillenius*, and the *Cucularia* of *Juffeu*.

The Species here reprented are,

Fig. 1. FUMARIA *filiquis linearibus tetragonis, caubus diffufis acutangulis, Lin. Sp. Plant.* 700. Fumitory with narrow Pods having Four Angles and diffufed Stalks with Iharp Angles. This is the *Fumaria lutea* C. B. P. 143. Yellow Fumitory, and the *Fumaria lutea montana, Dalech. Hiftl.* 1294- Mountain Yellow Fumitory.

This Plant hath a perennial Root compofed of many flefhy yellow Fibres, which frike deep into the Ground, from which there arifes a great Number of fuccufent Stalks, which fpread and branch out upward in a diffufed Manner, and grow about Six Inches high. Thele are garnifhed with compound Leaves ftanding on long branching Footstalks; and are compofed of many irregular Lobes (or fmall Leaves) which are indented at the Top in Three Parts. From the Divifions of the Stalks come out the Footstalk of the flower, which is naked and taller than the Leaves, fupporting Eight or Nine irregular lipp'd Flowers growing ma loofe Spike, whichTare of a bright yellow Colour * represents the upper Lip or Standard; *, the lower Lip or Beard, ending in a Tail c; between thefe Lips (as it were in the Pafate of a Mouth) the Stamina are

fituated, furrounding the Pointal <?; which afterward becomes a Pod, as at *d*, containing feveral fmall Seeds.

The Leaves of this Plant continue green all the Year, and the Flowers continue in Succeffion moft Part of the Year, fo that the Plants are feldom deftitute oi Flowers, which renders them worthy of a Place in a Garden. The Seeds of this Plant are frequently caft out, by the Elafticity of the Pod when ripe, to a confiderable Height; and, when they happen to grow near Walls, they fall on the Joints of the Wall, and the Plant will grow in the Morter, where they will refift the Injuries of Weather, and multiply exceedingly *, therefore this is a very proper Plant to grow in Rockwork, or upon old Walls or Buildings, to hide their Deformity.

Fig. 2. FUMARIA *pericarpis monofpermis racemofis, caule diffufo, Lin. Gen. Plant.* 700. Fumitory with a fingle Seed in each Pod growing in a RacemuSj and a diffufed Stalk. This is the *Fumaria officinarum* & *Di-offcoridis, C. B. P. H3-* Common Fumitory.

This is an annual Plant, which grows naturally on arable Land in moft Parts of *England*. It hath long* flender, fibrous Roots, fending out many angular Stalks, which are weak and generally trail upon the Ground; the lower Leaves grow upon long, broad, and angular Footstalks, are deeply divided almoft after the Manner of the umbelliferous Plants, and are placed alternately on the Stalks. The Flowers are produced in loofe Spikes at the Extremity of the Branches, which are flender, and fhaped like thofe of the other Sort, as are reprented at *k*, but are of a purple Colour. Thefe are fucceeded by round Seed Veffels, containing a fingle Seed, reprented at *l*. This Sort comes early to flower in the Spring; and there is generally a Succeffion of young Plants, which continue flowering great Part of Summer.

It is ufed in Medicine-, and is reckoned to be a great Cleanfer of the Blood. Dodor *Boerbaave* frequently prefcribed the Juice of this Plant for the Jaundice and bilious Colicks.

P L A T E CXXXVII

GALEGA, *Tourn. Infl. R. H.* &* * <* * * * * * << *
Meth. addend. J92. *Lin. Gen. Plant.* 770. Goats Rue.

THIS Genus of Elants is ranged in the Second Sedion of *Journfort's* Tenth Clafs, which includes the Herbs with a Butterfly Flower, whose Pointal turns to a long Pod with One Cell. Dodor *Umm* places it in the fecond Section of his Seventeenth Clafs, intituled, *Diadelphia Decandria*, the Flower having ten Stamina, Nine of which are joined, and the other is feperated.

The Species here reprented is,

GALEGA, *Hort. Cliff.* 26i. *Lin. Sp. Plant.* 714. Goats Rue. This is the *Galega vulgaris, C. B. P. 352.* Common Goats Rue.

There are Two Varieties of this Plant; one with a white, and the other a blue Flower, which frequently arife from the fame Seeds, fo are indifferently ufed in Medicine. But there is another Sort, with larger Flowers and thicker Pods, which came originally from *Africa*, and is preferved in many botanic Gardens.

The

The Sort here represented grows naturally in *Italy* and *Spain* \ but is propagated in the *Engliffh* Gardens to supply the Markets for medicinal Ufe.

It hath ftrong, thick, fibrous Roots, which fpread out on every Side, and ftike deep into the Ground > from which arife feveral round Stalks, which are about Two Feet high, fending out many Branches ; thefe are garnifhed with winged Leaves at every Joint, which are compofed of feveral Pairs of Lobes, and terminated by an odd one. The Flowers grow in Spikes upon naked Footstalks, which arife from the Wings of the Leaves, in the fame Manner as the fpiked *Vetch*. Thefe are of the Butterfly Kind, as are represented at *a*; confifting of a Standard £, and Two Wings, represented at *c* The Keel, which is fhewn at *d*, out of the Empalement, arifes the Ten Stamina ^ Nine of which are joined, as

at £, and One is feperated, as is represented at /:; from the fame Empalement *g*, arifes the Pointal; winch afterward turns to a long, {lender, upright Pod, marked *h*, containing feveral kidney-fhaped Seeds, referitWd at *i*.

This Plant is celebrated as an Alexipharmick and Sudorifick, remarkably difcuffing any thing peftilential or poifonous. Mr. *Boyle*, in his Treatife of the *Wholefomenefs and Unwholefomenefs of the Air*, bellows Threer or Four Pages in celebrating the Virtues of *Goats Rue* in peftilential and malignant Difeafes* from his own Obfervation and Experience. ^

It is a perennial Plant which continues feveral Years, but the Stalks decay every Autumn, and new ones arife in the Spring \ it flowers in *June*> and the Seeds ripen in *Augujl*.

P L A T E CXXXVIII.

ГЕНЕСТА, *Lin. Gen. Plant.* y66. *Cytifo-Genijla, Tourn. Inji.* 649. Broom.

THIS Genus of Plants is ranged in the Second Section of *Linnaeus*'s Seventeenth Clafs, intituled, *Xijadelphia Decandria*, the Flower having Ten Stamina; Nine of which are joined, and one Hands feperate. *Tournefort* places it in his Twenty-fecond Clafs, though it would more properly come under his Tenth, with the other papilionaceous Plants ; but he has feperated all the Trees and Shrubs of this Clafs from the Herbs. He has titled this Genus *Cytifo-Genijta*, becaufe the Leaves < in fomc Places fingle, and in others they are trifoliate.

The Species here represented is,

GENISTA *ramis triquetris fubarticulatis, foliis tricufpidatis, Lm. Sp. Plant.* 710. Broom with Three cornered Branches which are jointed below, and Leaves eliding in Three Points. This is the *Cytifo-Genijta Lujitanica magniflore, Tourn. Inji.* 649. *Portugal* Broom with a large Flower.

This Plant grows naturally in *Portugal*, from whence I have feveral times received the Seeds. It hath (lender pliant Branches, as is represented at *a*, which are gene-

rally Three-cornered; and are garnifhed with Leaves coming out by Threes, as in the Trefoils, and *Cometim*&fc.fijglir thofe^hich terminate th^Eranches end in **Thf if P6^^^PpmS^F%T9^ -tike Branches of** this Sort fpread and turn downward ; whereas thole of our common Broom grow ered; and clofer together. The Flowers come out fingly from the Wings of the Leaves, on fhort Footstalks, which are yellow, and are of the papilionaceous (or Butterfly kind), having a fhort Empalement cut isto Five Parts, as is represented at *r*, out of which arifes the Pointal *d*. The large Standard (or Vexillum) is marked *e* \ the Two Wings *l*, and the Keel *g*. The Ten Stamina are fhewn at *h*. The Pointal *d*, afterward turns to a Pod at *U* which contains many kidney-fhaped Seed. It flowers in the End of *April* and Beginning of *May*, and the Seeds ripen in *July*.

This Shrub grows to the Height of Six or *Seven* Feet, fending out many Branches, fo as to form a large fpreading Head; and the Branches being fully garnifhed with Flowers in every Part, makes a fine Appearance during their Continuance ; it therefore deferves to have a Place among other flowering Shrubs of the fame Growth. It is very hardy, and propagates eafily by Seeds.



VENISTA *vamos* *triquetris* *subarticulatis* *foliis* *tricuspidatis* *Lin.* *Sp. pl.* 710

W. Smith del.

Printed according to an Act of Parliament by P. Miller fecit 1787

J. Miller sculp.



Fig. 1. GALIUM, foliis oppositis lanceatis pubescentibus, ramis flexuosis brevibus & herbis. Cliff. 25.
 Fig. 2. GENTIANA, caulis quinquifidus rotatus verrucosus, calycibus quatuor. Hall. Kuhn 479.

Delicet auctori a. deo. P. Miller. Tab. 11. 1717.

P L A T E

CXXXIX.

GALLIUM, tour*. Infi. R. H. 113. J. 39; . J? V ^ P W. 117. Cheefe-runnet, or Ladies Bedftraw, in French, Cailklais.

THIS Genus of Plants is ranged in the Ninth Section of Tourneforth First Clafs, which includes the Herbs with a Bell-Jhaped Flower of One Leaf, whofe Empalement becomes a Fruit. Linn*us places it in the First Settlor, of his Fourth Clafs, mtiwkd^etrandrhMonogynia, thcFlowershaving Four Stamina and one Style.

The Species here represented is,



Fig. 1. GALLIUM, foliis oBonis linearibus fulcatis ramis floriferis brevibus, Hort. Cliff. 34. Ladies Bedftraw with Eight narrow furrowed Leaves, and shorter Flower Branches. This is the Gallium caule ercBo% foliis phrimisvertidlatis linearibus, Ltn Flor. Lap. 61. Ladies Bedftraw with an upright Stalk, and many narrow Leaves growing in Whorles.

This Plant hath a perennial Root, which creeps in the Ground, and is very tough, the Stalks are between Three and Four Feet long, growing erect nil tffSeeds are formed which by their We: a t often caufe them to

T o^tr^c Tmvinc a Furrow in the Middle, narrow Leaves, naving d x unv SI for the most Part are Eight, fbnd.ng togethe,-in Whorles round the Stalks, as is represejnted at A. They are of a lucid Green, and terminate in Po nts. At each Joint come out Two Side Branches,- the lower, Par ^ of which are garnished with the same Kind of .Leas, but are terminated by loofe Spikes of ^ ^ ^ p * * t * represented at B leach Flower is divided into Four Parts, as is mewnd at a. These have an Erhpal mo rfo, Leaf, cut into Four Segments, as * V? cheds Tis becomes a dry Fruit, composed of Two Seeds, as is shewn at c, and, when separted, TM ^ ^ TM t Moon, as is (hewn at d: And e represents the bermen, which is situated below the E m p a l e m e n t . The Plant here represented is the common G. & m t u e u r of Bauhinus, and other German W r n e r s on Botani. > bu r I am in Doubt of its being the same with «h« which grows naturally in England: For this hath much firmer Stks^ which are not so hairy, and rises TO ^ ^ J I ^ . ^ T S F in the Garden where they growin * * £ ^ * ^ * h tuation, and have continued so for T n r e e I c a , is the whole Time I have had this Sort: growing, which I raised from Seeds sent me from Gemas, ^ ^ p i m t fufpecl, the Foreign Titles of W « « ^ ^ S ^ properly applied to thole of our own Growth . - that their common Plants are the & < ? TM* ££ and

Gout. In Cbejhire, the People use it I n the r Run making of Cheefe; from whence it had the Appellation of Cheefe-runnet. It flowers in July.

Fig. 2. GENTIANA, Tournef. Jy. R. H. 80. Tab. 40. J. A. C. P. 123; Gentiana, or Bellwort; in French, Gentiane.

This Genus of Plants is ranged in the Thir on of Tourneforth First Clafs, which includes the with Bell-Jhaped Flower of One Leaf, whose Petal becomes a Fruit. Linn*us places it in the Second Section, of his Fifth Clafs, intituled, Pentandra Diff: from the Flower having Five Stamina and Two bcycs.

NUMB. XXIV.

The Species here represented is,

GENTIANA corolla quinquefid" rotatis, verticillatis, calycibus spatibaceis, Hall. He'h. 479. Gentian with a quinquefid Petal, growing in Whorles about the Stalk, and I hooded Empalement. This is the Gentiana major lulea, C. B. P. 187. Greater yellow Gentian, or Felwort.

This Plant hath a large thick Root of a yellowish

the Enc, stiff, of a yellowish Green, and have Five large Veins on the Back of each. The Stalk rises to the Height of Three or Four Feet, which is garnished with Leaves, growing by Pairs at each Joint, almost embracing the Stalk at their Base, these are of the same Form with the lower, but diminish gradually in their

Size to the Joint. One Leaf which is divided almost to the Bottom at A filled with small Seeds, represented at c. The Figures b and c shew the first Appearance of the Flowers

This Plant grows naturally in the Pastures in Switzerland, and in the mountainous Parts of Germany whence the Roots are brought to England: medicinal Use there is a compound Water, and an Extract made of them. The Root of the Gentian is also One of the principal Ingredients in Bitters, and is frequently used in many Disorders.

But a few Years ago, there was a Mixture of Henbane Roots brought over with Gentian, which was unhappily used, and occasioned great Disorders in the Persons to whom it was administered, upon which, great Enquiry was then made to find out what that Root could be, some supposing it to be the Root of Deadly Nighthshade, and others believing it to be some of the poisonous umbelliferous Roots; but on comparing it with some dried Roots of the Henbane, I found they were the same. We have likewise an Account of the noxious Quality of these Roots, printed in the Synopsis Stirpium Hibernicarum, which was communicated to the author by Doctor Thomas Molynem, Physician to the State. It was as follows:

The Dean of Clonfert was making some Alterations in his Garden, and, looking over his Workmen he observed them to dig up many Roots, which he took for Shrrets, and therefore ordered some of them to be carried in and dressed for Dinner; which was accordingly done; but all those who eat of them were in a short time seized with Disorders in their Head, Sicknefs at the Stomach, attended with an unusual Heat and Dinefs in their Throats, and Two, who had eaten a larger Share than the rest, lost the Use of their Reason and became delirious which continued for some Days. And as it appeared evident, these Disorders were occasioned by the Roots, so the Dean caused some of them to be planted, That he might be assured what the Plant was whose Roots had this bad Quality, and in the Spring, when they put out their Leaves, they proved to be the Henbane, which has been noticed by old Writers to be possessed of these Qualities. And as the Disorders which we are occasioned by these (Bp:sis of T^TM nVary the same, as is above related, fo I bought it to be of Use to insert it here, to caution others against eating of Roots which they are unacquainted with,

P L A T

P L A T E CXL.

GERANIUM, *Lin. Gen. Plant.* 746. *Tourn. Infi. R. H.* 266. *Tab.* 142. Cranebill; in *French, Bee de Grué.*

THIS Genus of Plants is ranged in the Second Section of *Tournefort's* Sixteenth Class, intituled, *Monodelphia Decandria*; the Flowers of this Class have the Stamina joined at their Base to a hollow Column, and those of this Section have Ten distinct Stamina at the Top. *Tournefort* places it in the Sixth Section of his Sixth Class, which includes the *Herbs with a Rose Flower, whose Pointal turns to a Fruit composed of many Cells.*

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

The Species here represented is,

GERANIUM *calycibus monophyllis, foliis quinquelobis integerrimis glabris peltatis, Hort. Cliff.* 345. Cranebill with an Empalement of One Leaf, and Leaves having Five Lobes, which are smooth, entire, and Target-shaped. This is the *Geranium Africanum foliis inferioribus afari, Juperioribus Jlaphydis agrivae, maculatis [plendentibus, & acetosa sapore, Com. Rar. Pl.* 52. *African Cranebill* with under Leaves like *Afarabacca*, upper Leaves like *Staves-acre*, which are resplendent, spotted, and taste like *Sorrel.*

This Plant hath a round, slender, branching Stalk, which requires brne Support; this at first is Green, but afterward becomes Reddish, and, when older, turns to a dark Brown. The Joints are pretty far distant, sometimes Three or Four Inches, at each of these come out Three or Four Leaves, (landing upon pretty long Footstalks, which are joined to the Middle of the Leaves, like those of the *Water Lily*, which resemble an antient Target. The Leaves have Five roundish Lobes, are

thick, succulent, and of a lucid Green, being marked with a Spot in the Middle, and have an acid Taste: Toward the upper Part of the Branches come out the Footstalks of the Flowers, which are near six Inches long, sustaining at the Top Two, Three, Four, or Five Flowers, growing in a Sort of Umbel, each (landing on a separate shorter Pedicle. These are composed of Five unequal Petals, represented at *b* 5 the Two upper being broader than the under, and are of an incarnate red Colour. These have an Empalement of One Leaf, divided into Five Parts almost to the Bottom, as is (hewn at *c* shew'd; in the Center is situated the hollow Tube or Column, which is joined to the Stamina, with the Style arising from its Middle, terminated by Five reflexed Stigmas, as is represented at *e*. The Empalement afterward becomes a Capfulc inclosing Five Seeds, which have long Beaks joined together, as is (hewn at *l*; when the Seeds are ripe they open at the Bottom, and continue joined to the Apex of the Style, as represented at *g* \ and afterward, by the spiral Screw of the Beak, twill, as represented 2X/h when the Seeds are cast off by the Elasticity of the Screw to some Distance; and the Seeds, being the heavier Part, fall first to the Ground, and, by the turning of the Beak, are forced into the Ground, *a* represents the Leaf with its Five Lobes.

This Plant continues in Flower near Eight Months, therefore is worthy of a Place in every good Greenhouse. It is easily propagated by Cuttings during any of the Summer Months, and it frequently perfects Seeds here; but the other Method being the most expeditious, few Persons trouble themselves with sowing of the *Setds.* It grows naturally at the *Cape of Good Hope*, and requires a good Greenhouse in Winter; but, in Summer, may be placed abroad in a (heltered Situation. If the Branches are properly supported, they will rise to the Height of Three or Four Feet.

P L A T E CXLI.

GEUM, *Tourn. Infi. R.H.251. Tab.* 129. *Saxifraga, Lin. Gen. Plant.* 494. London Pride, or None-fo-pretty.

THIS Genus of Plants is ranged in the Third Section of *Tournefort's* Sixth Class, which includes the *Herbs with a Rose Flower whose Pointal becomes a Fruit, for the most part bicapfular.* Doctor *Linnaeus* has joined the Plants of this Genus to the *Saxifrage*, and ranges them in the Second Section of his Tenth Class, intituled *Decandria Digynia*, the Flowers having Ten Stamina and Two Styles.

The Characters are exhibited in *The Gardeners Dictionary*, under the Article of *Aretium.*

The Species here represented are,

Fig. 1. GEUM *rotundifolium majus, Tourn. Infi. R. H.* 251. Greater round-leaved Geum, or spotted Sanicle. This is the *Saxifraga foliis caulinis reniformibus dentatis petiolatis, Lin. Sp. Plant.* 403. Saxifrage with Kidney-shaped Leaves on the Stalks, which are indented and Hand on Footstalks. *Cafftar Bauhin* titles it, *Sanicula montanarotundifoliaimpr, Pin.* 243. Greater round-leaved Mountain Sanicle.

The lower Leaves of this Blunt are almost round, resembling those of *Golden Saxifrage*, (landing upon long Footstalks, and are deeply divided on their Borders j

they are hairy and Green above, and pale on their under Side; the Stalks rise about a Foot high, which are hairy, and divide above into several small Branches, under each of these is placed a single Leaf; the Flowers are produced in loose Panicles at the End of the Branches: These are composed of five Petals which spread open, as is represented at *a*, which are White, and spotted with Red; in the Center is placed the Style, with Ten Stamina surrounding it; Five lying on the Middle of the Petals, and Five between, as is (hewn at *b*; these have an Empalement of One Leaf, divided into Five Parts, represented at *c*; which is permanent and funounds the Germen, and becomes a Fruit with Two Horns, represented *X.d% which swells to a Capfulc, (hewn at *, opening into Two Parts, as at *l*; having Two Cells, represented at *g*, which are filled with small Seeds, (hewn at *h*.)

This Plant grows naturally on the *Alps*, and other mountainous Places, but is preserved in Gardens for the Beauty of its Flowers, which appear in *May* and *June.* It mud have a moist Soil and a shady Situation.

Fig. 2. GEUM *folio subrotundom Smi, pifilk floris rubro* Tourn Infi. R. H.* 251. Geum with a larger roundish Leaf, and a Red Pointal. This is the *Sedum montanum ferratum guttato ficre, Park. Theat.* 738. Sawed Mountain Houfelcck with a spotted Flower, commonly called *None-fo-pretty*, or *London Pride.*

This



*Geranium
Linn.*

GERANIUM, *calycibus monopetalis, foliis quinquepartitis serratis, glabris, pediculis. Hort. Cliff. 1727*

Published by P. Miller, January 1728.



Fig. 1
Fig. 2

Fig. 1. GEUM, *rotundifolium* ^{animum} ~~capitatum~~ Tournef. *Figl.*, *Ar. H.* 221.
 Fig. 2. GEUM, *felicifolium* ~~capitatum~~ ^{animum} ~~capitatum~~ *puffillo* *flores rubre* Tournef. *Figl.* 251.

Painted according to the list of *Placenta* by R. Miller February 24 1757.



Fig 1. GLADIOLUS foliis ensiformibus floribus magnis tubularibus

Fig 2. GLADIOLUS foliis ensiformibus floribus distinctis corollarum 2, fo. limbo longiore. Lin. Sp. plant. 37

L. C. Smith del.

Printed according to an Act of Parliament by R. Miller Del. at 1727

J. Wallis sculp.

This Sort grows naturally on a Mountain in the County of Kerry in Ireland, but has been long cultivated in the English Guldens.

This Plant lends out many Heads or Off-fets composed of flat roundish Leaves, spread open like a Rose, as at a; these continue Green all the Year. From the Center of the Heads arise (tender, hairy, branching Stalks a Foot and a Half high, of a reddish Colour, dividing into many Branches toward the Top, which sustain loose Panicles of Flowers, composed of Five Petals, repre-

fented at b which are of a pale Red, and marked with many bloody Spots toward their Base. These have Ten Stamina; Five spreading on the Petals, and Five lying between; they are of a Flesh Colour, and are terminated by round Summits. The Petals are at first closed into a round Head, as is represented at d, but afterward spread open like a Rose.

It flowers in May and June, at which time it makes a pretty Appearance. This requires a shady Situation, and propagates very fall by Off-sets*

L A T E CXLII.

GLADIOLUS *Li, Germ. Plant. 55. *k* *n* > ¶ R\ H, J⁶?*
Tab. rye Coriiflag, or, by some, toxglove, in French, Glaieul.

THIS Genus of Plants is ranged in the First Section of Ufus's Third Class, intituled, *Thandna Monogyvia*, the Flower having Three Stamina and One Style. Turnfort places it in the Second Section of his Ninth Class, which includes the *Herbs with a Lily Flower of One Leaf cut into Six Parts, whose hmpalement becomes a*

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

The Species here represented are,

Fig. 1. GLADIOLUS *majoribus*
drifantibus. Cornflag with
larger Flowers (landing distant
major Byzantinus, C. h. r. 4^A.)
Cornflag *ul' feryv*

This Plant has a large, pressed and covered with a Ruffe Skin, of an herbaceous Colour in the summer and channelled, as is represented * * * * * arife long, flat, Sword-shaped leaves, rowed and inferted into one another, and Stalk, which comes out from between inc about Three Feet high, and is Six Flowers, which are above each one on one Side of the Stalk, of Hood, represented at t, which the Capful after the Flowered Ms of One Petal, being cut into Six Parts, which are Lip Flower -, the upper Segment are terminated by long upright Summits, joined at their Bafes to the Style, which is Stigma. The Flower, afterward becomes a three-cornered Capful, marked e, which is filled with roundish Seeds, as is

when fully blown. It flowers in June, and the Seeds ripen in September. This has been supposed only a Variety of the common Sort; but I have propagated both, by Seeds, but have never found them vary, so that I am convinced they are distinct Species.

Fig. 2. GLADIOLUS *foliis linearibus floribus distantibus, corollarum tubolimbis longiore, Lin. Sp. Plant. 37.* Cornflag with narrow Leaves, Flowers growing distant, and the Tube of the Flower longer than the Border of the Petal. This is the *Gladiolus caule simplicissimo, foliis linearibus > floribus alternis, Prod. Leyd. 19.* Cornflag with a single Stalk, very narrow Leaves, and Flowers growing alternate.

This SQ^A grQws naturaUy at the Cape of Good Hope, from whence I received the Seeds, which succeeded in the chelsea Garden; where the Plants annually produce their flowers, which is covered with a thin dark-coloured Skin, from which come out in the Autumn Two or Three very narrow grassy Leaves, folded over each other at their Base, but open flat above; these rise near Two Feet high. In the Spring of the Year arises a single Stalk from between the leaves, about Two Feet long, which always stands on one Side, as is here represented in the Figure. Toward the upper Part of this come out Two or Three Flowers, ranged on one Side of the Stalk, standing upright, each having a narrow Spatha, or Hood, and long slender Tubes, which swell large upward; and divided into six parts which are nearly equal. The Colour of the Flower is a dusky Yellow, and each Segment of the Petal has a rhomboidal Mark of a dark Red: Afterward the Tube of the Flower opens, and the deep Division of the Petals is seen, as represented at l, and the Three Stamina, with their Summits, from the Germen. This plant flowers in May and June. As this Plant is the Native of a warm Country, so it requires Protection from the Frost in Winter; therefore the Bulbs should be planted in Pots filled with light Earth, and placed in the Greenhouse in winter, where they may be put in a Hot-bed Frame in the winter, where they may have a good Weather and be freed from the Frost. In such Situations I have had them thrive and flower very well.

P L A T E CXLIII.

GLAUCIUM, *Tourn. Injl. R. H. 254. Tab. 130. Cbetidonium, Lin. Gen. Plant. 572.* Horned Poppy.

THIS Genus of Plants is ranged in the Third Section of *Tournefort's* Sixth Clafs, which includes the *Herbs with a Rofe Flower whose Pointal turns to a Fruity for the moft part having Two Cells.* *Doflor Linnaeus* joins this Genus to the *Chelidoniummajus*, and places it in the Firft Section of his Thirteenth Clafs, intituled, *Polyandria Monogynia*, the Flower having many Stamina and a fingle Style. The Characters are exhibited in the *Gardeners Bilfionary*.

The Species here reprefented is,

Glaucium birtutum flore phanicio, Tourn. Inft. 254. Hairy Glaucium with a Scarlet Flower. This is the *Chelidoniumpediunculis unifloris, foliisfeffiltbus pinnatifidis* *cattle bipido, Lin. Sp. Plant. 506.* Celandine with One Flower on each Footstalk, many pointed winged Leaves fet clofe to the Stalks, and a rough Stalk. *Cafpar Baubin* titles it, *Papaver corniculatumphcenicium bbfutum. Pin. in.* Hairy Scarlet Horned Poppy.

This is an annual Plant, which grows naturally in *Spain, Italy,* and fome Parts of *Germany*, from whence the Seeds have been brought to *England.* The Leaves of it are deeply jagged and hairy, of a pale Green, and grow clofe to the Stalks; thofe at the Bottom lie on the Ground, and are broader than thofe above. The Stalks a Foot and Half high, having a fingle jagged Leaf placed at each Joint; thefe have many Divifions from the Origin to the Point, which is extended longer than the lower Leaves. The Flowers come out from the

Bofom of the Leaves, as is reprefented at *a*; thefe are compofed of Five broad obtufe Petals, which are of a dark Scarlet Colour, and foon fall off. In the Center of each is fituated an oblong Germen, having no Style, but fupports a bifid Stigma, as is reprefented at *b*; this is attended by a great Number of flort Stamina, terminated by obtufe Summits, as reprefented at *c*: The Germen afterward becomes a long taper Pod, marked *d*, on the Apex of which the bifid Stigma *e* remains, fitting on the middle Partition, which divides the Pod into Two Cells, as is (hewn at *f*), which are filled with fmall Seeds, reprefented at *g*. The Flower hath an Empalement compofed of Two hollow Leaves, which are clofeJy fet with fhort Prickles, reprefented at *b* -, this falls away when the Flower is expanded. It flowers in *June* and *July*, and the Seeds ripen in Autumn. As the Flowers of this Plant are but of fhort Duration, fo they do not make any confiderable Figure; but the Foliage of the Plant is very elegant, and might be introduced by way of Ornament to Furniture with great Advantage, being very pidurefque. It may alfo be wrought in to Patterns for Silks, and painted upon Porcelanc, where it would have a very good Effet. If the Seeds of this Plant are fown in the Autumn, they will more certainly grow than thofe which are fown in the Spring; which frequently in dry Seafons do not come up the fame Year, or at leaft not before the Autumn; whereas thofe fown in the Autumn frequently come up foon after, or, if not at that Seafon, do not fail coming up in the Spring; and thefe Plants come early to flower, fo that good Seeds may be always obtained from them. They fhould be fown where the Plants are to remain 5 and they will require no ether Care but to thin them where they are too clofe, and keep them flean from Weeds.

P L A T E CXLIV.

HELIOTROPIUM, *Tourn. Inft. R. H. 138. Lin. Gen. Plant. 164.* Turnfole, or Heliotrope 5 in *French, Herbe aux Venues.*

THIS Genus of Plants is ranged in the Fourth Section of *Tournefort's* Second Clafs, which includes the *Herbs with a Bell or Wheel-shaped Flower of One Leaf, whose Pointal is fituated between Four Germina, which become fo many Seeds incbed in the Empalement.* *Linnaeus* places it in the Firft Section of his Fifth Clafs, intituled, *Pentandria Monogynia*, the Flower having Five Stamina and One Style. The Characters of this Genus are exhibited in the *Gardeners Dictionary*.

The Species here reprefented is,

Heliotropium foliis ovate-lanceolatis, fpicis plurimis confer tis^caule fruticofo. Heliotrope, or Turnfole, with oval Spear-shaped Leaves, many Spikes of Flowers in Clutters, and a fhubby Stalk.

This Shrub grows naturally in *Peru*, from whence the Seeds were fent to *Paris* by the younger *Be Juffieu*. The Seeds of it were fent me from the curious Garden of *Duke V'Ayen* at *St. Germain*, which have fucceeded in the *Chelfea* Garden -, where the Plants have flowered, and ripened their Seeds, for fome Years pad.

This rifes with a ligneous Stalk to the Height of Three or Four Feet, dividing upward into feveral fmaller Branches, which are garnifhed their whole Length with

oval Spear-flaped Leaves, which come out without Order; thefe are about Three Inches long and One and a Half Broad in the Middle, of a light Green, foft, and covered with very fmall Hairs: The upper Part of the Stalks have a few fmaller Leaves of the fame Form, and the Branches are terminated by loofe Panicles of Flowers, which are ranged in fhort reflexed Spikes, growing in Clutters. The Flowers are tubulous, of One Petal, which fpreads open at the Top, where it is flightly indented in Five Parts: Thefe have permanent Empalements of One Leaf, having a fhorc Tube, reprefented at *a*; which is little more than a Third of the Length of the Tube of the Petal, marked *b*; in each Flower is fituated Five Stamina, reprefented at *c*; the upper Part of the Petal freads flat like the Wheel-shaped Flowers, as is fhewn at *d*: The Flower, with its Tube taken out of the Empalement, is reprefented at *e* and the fhorc Empalement is fhewn at *f*; this, opened, is reprefented at *g*; and *b* fhews the Four Germina, which are fituated round the Style, and afterward b<Some *ib* many Seeds, marked *u*> The Flowers are of a pale Blue, and have a muft Odour. This being a Native of a warm Country, requires Protection from the Cold of our Winters in *England*-, but is fo hardy as to thrive in the open Air in Summer, if placed in a flickered Situation; and, in Winter, will live in a good Greenhoufe without any artificial Heat; -and as it continues flowering moft Part of the Year, fo it is worthy of a Place in every Garden where there is Con- veniency for keeping it. This is propagated by Seeds.



*Flores
Augustus*

1788

Glaucium flavum flore Pharus Anon. Juss. Bot. N. 222

Collected according to a list of specimens by Dr. J. J. Bertram, 1788

Pi run:



HBLIOTROPH *Asclepias speciosa* *Asclepias speciosa* *Asclepias speciosa* *Asclepias speciosa*

X. G. Donnell

Printed according to the design by P. M. D. DeLong in 1840

1840



HELLEBORINE, *Amurensis* radice tuberosa, foliis longe longioribus, natis, modo floribus et radice
 pulchris purpureo-roseis. Mart. Cent. 14.

Helicodendron tuberosum (L.) F. & M. *Amurensis* (L.) F. & M. *Amurensis* (L.) F. & M.

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