

THE
BOTANICAL REGISTER: 1821
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CONSISTING OF

Coloured Figures

OF

EXOTIC PLANTS,

CULTIVATED IN

BRITISH GARDENS;

WITH THEIR

HISTORY AND MODE OF TREATMENT.

THE DESIGNS BY

Sydenham Edwards,

AND OTHERS.

VOL. VII.

~~viret semper~~ nec fronde caduca
Carpitur.

MISSOURI
BOTANICAL
GARDEN.

LONDON:

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1821.

APPENDIX TO THE CATALOGUES OF BOOKS

IN THE

FOREGOING SIX VOLUMES;

OR,

List of Books quoted in the Seventh Volume which have not been enumerated in the Lists given in the other Volumes.

Act. petropol. Acta Academiæ Scientiarum Imperialis Petropolitanae pro annis 1777—1782. Petropoli, 1778—1782. 4to.

An. de cienc. nat. Anales de ciencias naturales. Madrid, 1799, seqq. 8vo.

Barton med. bot. Vegetable Materia Medica of the United States, or Medical Botany. By Will. P. C. Barton. Philadelphia, 1817. 4to. 2 voll.

Bellardi app. fl. pedem. Lud. Bellardi appendix ad floram Pedemontanam. Aug. Taurin. 1792. 4to.

Braune fl. salisburg. Salzburgische Flora von Franz Anton von Braune. Salzburg, 1797. 2 voll. 8vo.

Clayt. n. Numeri plantarum, quibus D. Clayton specimina (ad Gronovium) transmisit. Vide *Flor. Virg.*

Falk it. Johann Peter Falk Beiträge zur Topographischen Kenntniss des Russischen Reichs. St. Petersburg, 1785—1786. 3 vol. 4to.

Ferd. Bauer digit. illustr. Digitalium Monographia: tabulis Ferdinandi Bauer. Curâ John Lindley. London, 1821. fol.

Ferr. de cult. flor. Jo. Bapt. Ferrarj Senensis De Culturâ Florum Libri IV. Romæ, 1633. 4to.

Herbert append. An Appendix by the Hon. and Rev. Will. Herbert. With Plates. London, 1821. 8vo.

Horn. hort. hafn. Hortus Regius Botanicus Hafniensis. Conscriptit J. W. Hornemann. Hafniæ, 1815. 8vo.

- Hornem. hort. hafn. suppl.* J. W. Hornemann. Horti Regii Botanici Hafniensis Supplementum. Hafniæ, 1819. 12mo.
- Host synops.* Nicol. Thomas Host. Synopsis Plantarum in Austria crescentium. Vindobonæ, 1797. 8vo.
- Jacq. exum. pl. agr. vind.* Nicol. Jos. Jacquin. Enumeratio stirpium quæ sponte crescunt in agro Vindobonensi. Vindobonæ, 1761. 8vo.
- Lehmann monog. prim.* Monographia generis Primularum. Scripsit J. G. C. Lehmann. Lipsiæ, 1817. 4to.
- Lichtenstein reise in sudl. afr.* Reisen in Sudlichen Africa in den Jahren 1803, 4, 5, und 6. Von Hinrich Lichtenstein. Berlin, 1811, 1812. 2 vol. 8vo.
- Lindley collect. bot.* Collectanea Botanica by John Lindley. London, 1821. fol. fasc. 6, seqq.
- Link abbild. auserl. gew. bot. gart. zu berl.* Abbildungen auserlesener gewächse des königliches botanisches gartens zu Berlin. Beschreibungen und anleitung sie zu zeichnen von H. F. Link und F. Otto. Berlin, 1820; Erstes Heft, seqq. 4to.
- Link enum. hort. berol.* Enumeratio Plantarum Horti Regii Botanici Berolinensis altera. Autore H. F. Link. Pars 1. Berolini, 1821. 8vo.
- Mauritius Catalogue.* A Catalogue of the exotic plants cultivated in the Mauritius at the Botanic Garden. Mauritius, 1816. 4to.
- Nees von esenb. hor. phys. berol.* G. G. Nees von Esenbeck. Horæ Physicæ Berolinenses collectæ ex symbolis virorum doctorum Link, Rudolphi, &c. Bonnæ, 1820. fol.
- Nov. act. petropol.* Nova acta Academiae Scientiarum Imperialis Petropolitanae. Petropoli, 1787, seqq. 4to.
- Osbeck it! (ed. angl.)* A voyage to China and the East Indies by Osbeck; together with a voyage to Suratte by Olof Torren, and an account of the chinese husbandry by C. G. Eckeberg. Translated from the German by John Reinhold Forster. London, 1791. 2 voll. 8vo.
- Ræmer et Schultes syst. veg.* Caroli à Linné Systema Vegetabilium. Editio Nova. Speciebus indè ab editione XV. detectis aucta et locupletata; curantibus Joan. Jac. Ræmer et Jos. Ang. Schultes. Stuttgartiæ, 1817. vol. 1. seqq. (à vol. 5. à Schultes solo).
- Schrank fl. Salisb.* Francisci de Paula Schrank Primitiæ Floræ Salisburgensis. Francofurti ad Mænum, 1792. 1 vol. 8vo.
- Schrank pl. rar. hort. monac.* Francisci de Paula Schrank Plantæ rariores Horti Monacensis. Munich, 1817—1819. fol.

Schmidt flor. bohem. Francisci Wilibaldi Schmidt Flora Boëmica. Cent. 1—4. Pragæ, 1793—1794. vol. 1, seqq. fol.

Sprengel umbel. spec. Kurt. Sprengel. Species Umbelliferarum minus cognitarum illustratæ. Hake, 1810. 4to.

Tabern. kreuterb. Neuwvollkommentlick Kreuterbuch durch Jacob. Theod. Tabernæmontanum. Franckfurt am Mayn, 1625. 3 vol. fol.

Trans. soc. for the enc. of arts and manuf. Transactions of the Society instituted at London for the Encouragement of Arts, Manufactures, and Commerce. London, 1783—1819. XXXVI volumes; seqq. 8vo.

Ventenat choix. Choix de plantes, dont la plupart sont cultivées dans le jardin de J. M. Cels; par E. P. Ventenat. Paris, 1803. fol.

Weinm. phytanth. Joh. Wilh. Weinmann Phytanthozaiconographia. 4 Bände. Regensburgh, 1737—1742. fol.

Wendl. sert. hannov. Sertum Hannoveranum, auctore J. C. Wendland. Fascic. 1—4. Hannoveræ, 1798—1801. fol.

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M. Hart. del.

Publ. by J. Ridgway 11. Strand by March 1. 1821.

J. Wallis. sc.

JASMINUM angustifolium; β ; laurifolium.*Alexandrian-laurel-leaved Jasmine.*

DIANDRIA MONOGYNIA.

Nat. ord. JASMINEÆ. Jussieu gen. 104. Div. II.

JASMINEÆ. Brown prod. 1. 520.

JASMINUM. Suprà vol. 1. fol. 1.

Div. Foliis simplicibus.

J. angustifolium, foliis ovatis mucronatis subtrinerviis, pedunculis terminalibus subternis unifloris. Vahl enum. 1. 29.*Jasminum angustifolium*. Willd. sp. pl. 1. 36.*Jasminum vimineum*. Willd. sp. pl. 1. 36.*Nyctanthes angustifolia*. Linn. sp. pl. ed. 2. 1. 8.*Nyctanthes viminea*. Retz. obs. fasc. 5. 9.*Nyctanthes triflora*. Burm. ind. 4. t. 2?*Katu-pitsjegam-mulla*. Rheede malab. 6. 93. t. 53. (α) *angustifolium*, fruticosum, volubile, læve: foliis oppositis, petiolatis, ovatis, glabris nitidè et saturatè virentibus; floribus terminalibus 1-2-3; corollæ limbo 8-9-partito; calyce 8-9-fido; baccâ simplici. Roxb. fl. ind. 1. 95; (ex anglico). (β) *laurifolium*, scandens, læve; foliis oppositis ovato-lanceolatis lucidis trinerviis; floribus axillaribus terminalibusque, 1-5, elongatè pedunculatis; laciniis calycis 6-7 filiformibus, corollæ 9-12 linearibus longitudine tubi. Roxb. loc. cit. 91; (ex anglico). (β) *laurifolium*. Rami teretes, basi ad divisuras membranâ brevi vaginatis? Fol. coriacea, ovato-lanceolata cuspidata, divaricata, nitida, saturatè virentia, 3-nervia nervis 2 lateralibus obsolete, subavenia, 2-4-uncialia latitudine plus minus unciali: pet. subsemiamplexicaulis, brevis crassus canaliculatus, horizontali-patens, articulatus geniculato-ascendens. Flores fragrantissimi ochroleuco-albicantes, maximi, sæpiùs trichotomo-trini, pedunculis firmis subuncialibus, lateralibus divaricatis. Bracteæ oppositæ, subulatæ, caducæ. Cal. viridis, pedunculi subæquicrassi continuus, $\frac{1}{2}$ circâ brevior tubo corollæ, ad $\frac{3}{4}$ partes usque partitus, tubo brevissimo, segmentis senis radiato-divaricatis semitereti-setaceis canaliculatis. Cor. nunç extûs purpurâ nimbata; tubus erectus striatulus $\frac{2}{3}$ ad $\frac{3}{4}$ partes uncie longus; limbus stellato-recurvus sub-11-partitus diametro sesquiunciali v. majore, laciniis angustis lineari-acuminatis. Stam. demersè inclusa; fil. medio tubi inserta linearia erecta alba $\frac{1}{2}$ circa breviora antheris lineari-oblongis mucronatis, polline fulvo-flavescente. Germ. breve conicum bicolle: stylus brevis: stig. clavato-continuum oblongum bilobum.

Laurifolium of Dr. Roxburgh, which we have included in *angustifolium*, as a variety, is most probably of a distinct specific type, although we can find no mark, in the description given by the above botanist, that in our view will justify the separation. A comparison of samples of the

two plants might have furnished the means of satisfactory discrimination; but we have not yet met with any certain one of *angustifolium*; though the plant is said to be in our gardens, and very common in India, where it is found in every forest on the Coast of Coromandel.

In Mr. Lambert's Herbarium, there is a closely allied species found at Sembu, in Nepaul, by Dr. Buchanan, and inscribed *dichotomum*; but which may be at once distinguished from the present species by segments of the calyx, which are subulate and shorter than the tubular portion.

(β) *laurifolium* is a twining shrub with a simple bright-green shining leaf, and a large exquisitely fragrant flower, diffusing a perfume which in some degree reminds us of frankincense. It is found in the mountainous country to the East of Bengal, and has been very lately introduced, having flowered in October last, for the first time, in the hothouse of the nursery of Messrs. Colvill, in the King's Road, Chelsea.

The following description is by Dr. Roxburgh:

“ *Leaves* opposite, subsessile, ovate-lanceolate, firm and
“ glossy; margins entire, somewhat thick; faintly 3-nerved;
“ from two to four inches long, and from one to two
“ broad. *Peduncles* terminal and axillary, sometimes single,
“ sometimes several together, and sometimes, when termi-
“ nal, subracemed; long and slender. *Bractes* opposite,
“ subulate. *Calyx* from 5 to 7-cleft; segments long, slen-
“ der, filiform and smooth. *Corolla: tube* twice the length
“ of the calyx, subclavate; *limb* of from 9 to 12, ensiform,
“ spreading *segments* which are as long as the tube. *Sta-*
“ *mina* within the tube. *Germen* 2-celled, with one *ovulum*
“ in each cell, attached to the middle of the partition.
“ *Style* and *stigma* clavate, scarcely reaching to the an-
“ thers.”

We find by the Flora Indica that twenty native species of Jasmine are cultivated in the Botanic Garden of Calcutta; of which some, from the mountainous and consequently cooler regions of India, have never flowered in that establishment.



M. Karst. del.

Pub by J. Ridgway, 70. Pine St. New York, 1821.

J. Watts. sc.

VERNONIA sericea; β ; purpurascens.*Simple-stemmed Vernonia.*

SYNGENESIA POLYGAMIA EQUILIS.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. I.

VERNONIÆ. Cassini in journ. de phys. 88. (an 1819) 191.

VERNONIA. Cal. ovatus, imbricatus. Stigma 2-fidum, breviusculum. Recept. nudum, Pappus duplex; exterior paleaceus, interior capillaris. Persoon syn. 2. 404.

Genus, ex D. Cassini, tripartitò disponendum: 1. VERNONIÆ VERÆ squamis periclinii (foliolis interioribus calycis) appendice subulato spinescente præfixis; quales sunt noveboracensis, præalta, oligophylla, et angustifolia: 2. ASCARICIDÆ squamis prædictis appendice lato foliaceo subspathulato terminatis; qualis est anthelmintica: 3. LEPIDAPLOÆ iisdem inappendiculatis; quales sunt glauca, fasciculata, arborescens, divaricata, scorpioides, et albicaulis. Cassini in nouv. bulletin. an 1817. 66; (textu gallico passim desumptum).

LEPIDAPLOÆ foliolis intimis calycinis inappendiculatis.

V. sericea, foliis lineari-lanceolatis subtùs sericeo-incanis utrinque tomentosis subintegris, floribus alternis secundis sessilibus. Richard in actes de la soc. d'hist. nat. de Paris. 112.

Vernonia sericea. Persoon syn. 2. 404.

(β) flore purpurascente.

(β) Caulis suffruticosus, simplex, erectus, teres, villosa-canescens, 4-5-pedalis v. ultrà, totus supernè foliosus atque flexuoso-recurvus. Fol. membranacea, subbifariàm alterna, patentia, angusta, elongato-lanceolata, acuminata, appressè pubescentia, subtùs pilis longioribus sericeis canescentia, subintegra, margine subrepando-reflexa, 3-4-uncialia v. longiora latitudine semunciali v. majore, basi angustè subovata: pet. latiusculo brevissimo. Flores roseo-purpurascens, foliis superioribus axillares, solitarii, secundi, sessiles. Cal. oblongus, ordine plurimo imbricatus uncatò-squarrosus, villosus, viridi-subcoloratus, foliolis (squamis, Cass.) sursùm gradatim longioribus, ciliatis, inferioribus (involucri Cass.) lanceolatis suprà subulato-reflexis, interioribus (periclinii Cass.) purpurascens linearis-ligulatis plurimùm longioribus, rectis, obtusis. Pappus interior denticulato-capillaris. Germ. sericeum. Recept. scrobiculato-punctatum.

The great family of *Compositæ* has been distributed by M. Cassini into numerous natural groups, termed by him *tribes*, severally distinguished by names which are modifications of those of the most prominent genus comprised in the particular tribe. And although the characters of these subdivisions have not yet been shaped for systematic use, still as the combinations appear true to natural affinity, we have

thought it useful even in this stage of their appearance to refer to them by their name.

VERNONIA is the chief type of the *Vernoniæ* of M. Cassini, and is technically distinguished from its nearest genera, by a double seedcrown, the inner rank of which is capillary, the outer short and laminar. The genus is divided by the above botanist into three fractions termed by him subgenera; 1. VERNONIA proper, where the interior leaflets of the calyx are surmounted by a subulate (awl-shaped) spinescent appendage: 2. ASEARICIDA, where these are terminated by a broad foliaceous subspatulate appendage: 3. LEPIDAPLOA, where they have no appendage at all.

Our plant agreeing in every respect with the short record of *VERNONIA sericea*, except that the flower is purple, and not white, as it is stated to be in that; we have not deemed it expedient to separate the two, especially as we know the colour of the flower to have been judged of by M. Richard from a dried sample.

(β) comes exceedingly near to *VERNONIA arborescens* (*CONYZA arborescens*. Hort. Kew. ed. 2. 5. 30.), from which it appears to differ only by having longer narrower leaves with a silky haired fur.

The drawing was made from a plant which flowered last December in the hothouse at the nursery of Messrs. Colvill, in the King's Road, Chelsea. It is supposed to have been derived from the Brazils, or possibly Guiana, like the plant of M. Richard.



M. Hart. del.

Printed by J. G. & J. H. Colver, 17, St. Paul's Church-yard, London.

J. Watts. sc.

HELIANTHUS linearis.
Linear-leaved Sunflower of Mexico

SYNGENESIA POLYGAMIA FRUSTRANEA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VI. Recept. paleaceum. Sem. apice dentatum aut paleaceum. Flores in plurimis radiati, in paucis flosculosi. Recept. HELBII subnudum.

HELIANTHÆ. Cassini in journ. de phys. 88 (an 1819). 191.

HELIANTHUS. Suprà vol. 6. fol. 508.

H. linearis, foliis alternis aut oppositis, sessilibus, linearibus, margine revolutis, integerrimis, uninerviis, hispido-scaberrimis, floribus subcorymbosis; involucris squarrosis, hispido-scabris. Kunth nov. gen. et spec. 3. 222; (sub HELIANTHO squarroso).

Helianthus linearis. Cavan. ic. 3. 9. t. 212. Willd. sp. pl. 3. 2244; enum. suppl. 61.

Helianthus squarrosus. Kunth loc. cit. tab. 377.

Herba subbipedalis. Caulis erectus ramosus teretiusculus piloso-hirtus, ramis alternis; inferis sterilibus abbreviatis foliosis, floriferis elongatis subfastigiatis. Fol. alterna aut opposita sessilia linearia acuta integerrima margine revoluta (1-nervia?) nervo subtus valdè prominente, utrinque hispido-scaberrima, 14-15 lineas longa, $\frac{2}{3}$ lineæ lata. Flores ex apice ramorum solitarii, pedunculi erecti subcorymbosi; magnitudine floris BIDENTIS cernuæ. Involucrum (calyx) hemisphæricum polyphyllum foliolis arctius imbricatis lineari-oblongis acutis, supernè hispido-scabris, apice viridibus, reflexo-squarrosis, exterioribus brevioribus. Recept. planiusculum paleaceum, paleis oblongis acuminatis carinatis glabris scariosis, flosculo brevioribus. Flosc. disci flavi creberrimi tubulosi hermaphroditi glabri 5-dentati dentibus ovatis acutis enerviis: anth. demùm exsertæ: ovarium lineare compressum glabrum pilosiusculum paleis 3 subulatis coronatum; stylus glaber, stig. 2-partitum exsertum laciniis revolutis. Achenium (semen) lineare compressum pilosiusculum coronatum paleis crebris minutis subulatis fimbriato-scabris deciduis, 2 aut 3 multò longioribus aristæformibus, achenio paulò brevioribus: flosc. radii 16-20 ligulati neutri flavi, tubo brevi, ligulâ elliptico-oblongâ 3-dentatâ planâ patente multinervi, glabrâ, $2\frac{1}{2}$ lineas longâ. Ovarium lineare tenuissimum glabrum sterile. Kunth loc. cit.

The smallest flowered species we have seen of this genus, and very lately introduced by Mr. Lambert, to whom we are obliged for the sample for the use of our draughtsman. The seed came from the Botanic Garden at Madrid; but had been originally derived from Mexico, where the plant was observed by Messrs. Humboldt and Bonpland near Guanacato, at the elevation of about 1100 fathom above the level of the sea.

An herbaceous perennial? from two to three feet high: *stem* upright, round, branching, roughishly furred; *branches* alternate, lower ones sterile short and leafy, flowerbearing ones growing nearly to a level. *Leaves* both alternate and opposite, sessile linear pointed quite entire turned down at the edge (one-nerved?) with the nerve very prominent at the under side, 14-15 lines in length, narrow. *Flowers* at the ends of the branches, solitary; *peduncles* upright, forming a kind of corymb. *Calyx* somewhat hemispherical, squarrose (ragged), manyleaved; *leaflets* closely imbricated linearly oblong pointed, roughishly furred towards the upper part, green at the top, reflex, outermost the shortest. *Receptacle* nearly flat, chaffy, *paleæ* (*chaffs*) oblong taper-pointed keeled smooth scariose, shorter than the florets of the disk. *Florets of the disk* deep yellow very numerous tubular with perfect stamens and pistil, smooth 5-lobed, lobes ovate pointed without any nerve: *anthers* finally elevated above the orifice of the floret; *germen* linear compressed smooth slightly furred with a seedcrown of 2-3 subulate paleæ; *style* smooth; *stigmas* 2, protruded revolute. *Seed* linear compressed slightly furred, with a seedcrown of numerous subulate roughly fringed deciduous minute paleæ, among which are from 2 to 3 which are much longer than the rest and awnshaped, being in fact but little shorter than the seed itself: *florets of the ray* 16-20, ligulate, without stamen or pistil, deep yellow, tube short, blade or lamina elliptically oblong 3-toothed flat spreading many-nerved smooth, $2\frac{1}{2}$ lines long; *germen* linear thin smooth abortive.

We had no opportunity of inspecting the plant from which the drawing was made; and have borrowed the description from Messrs. Cavanilles and Kunth.



iii by J. Ridgway 170 Ticonderoga March 1. 1871.

J. Walts. sc.

HELIANTHUS pubescens.

Illinois Sunflower.

SYNGENESIA POLYGAMIA FRUSTRANEA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VI. Recept. paleaceum. Sem. apice dentatum aut paleaceum. Flores in plurimis radiati, in paucis flosculosi. Recept. HELENII subnudum.

HELIANTHÆ. Cassini in journ. de phys. 88 (an 1819). 191.

HELIANTHUS. Suprà vol. 6. fol. 508.

H. pubescens, foliis oppositis ovato-cordatis amplexicaulibus villosis triplinerviis, caule piloso. Vahl symb. 2. 92.

Helianthus pubescens. Willd. sp. pl. 3. 2240. Hort. Kew. ed. 2. 5. 127.

Pursh amer. sept. 2. 570. Nuttall gen. 2. 177. n. 4. Willd. enum. 2. 919.

Helianthus mollis. Lamarck encyc. 3. 81.

Helianthus canescens. Michaux bor. amer. 2. 140.

(β) *Helianthus mollis*. Willd. sp. pl. 3. 2240. Ejusd. enum. 2. 920. Pursh amer. sept. 2. 572. Nuttall gen. 2. 178.

Helianthus tomentosus. Michaux bor. amer. 2. 141.

Herbaceus, perennis. Caules orgyales erecti foliosi. Fol. sessilia, ovato-lanceolata remotè appressèque subserrata cuspidato-acuminata, opaco-virentia, suprâ pube strigillosâ brevi aspera, infrâ tomento molli brevissimo cinerâscentia, sesuncialia latitudine duplo angustiore v. magis, subtrinervia, gradatim in parvula decrescentia, superiora alterna, inferiora opposita. Flores paniculati, plures, nutantes, lutei, diametro 2-3-unciali v. circâ; pedunculi alterni, axillares præter summum terminalem, sæpiùs breviores folio, hirsuti, supernè curvati, foliolis subtrinervis supernè v. etiam juxta calycem muniti, interdùm divisi. Cal. atro-virens hirsuto-canescens squaroso-laxatus divaricatus, bis ferè brevior radio; foliola lineari-attenuata plana acutissima ordine alterno subquadruplici disposita, ciliata, intùs depilata, interiora paulò minora. RADIUS multi-(20?) florus, citrinus, contiguo-stellatus, neuter: flosc. lanceolati, subplicato-striati, extùs obsolete pubescentes, tubo brevissimo; germine casso glabro albo, pappi paleis aristiformibus: DISCUS nigro-flavescens, denuò subconoideo-converus: flosc. cylindrici, pellucido-flavicantes glaberrimi, tubo multotiès brevioris fauce, limbo brevi 5-fido lacinulis ovato-acuminatis; fil. elastica; anth. viridi-nigræ, polline flavo: stig. 2 lineari-angusta, spiralitèr reflexa extùs hirsuta: germ. album, glabrum, turbinato-elongatum, subanguloso-compressum, pappo aristato-paleaceo albo, duplo ferè brevioris flosculo. Recept. subconico-converum paleaceum: paleæ naviculari-complicatæ acuminatæ, supernè atro-virentes, dorso carinatæ villosæ atro-rubentes.

A perennial species growing to a thicket of tall upright simple leafy stems, eight feet high or more. Found wild in the Illinois country, in Kentucky, in Tennessee, and

according to Mr. Pursh, in Virginia and Pennsylvania. Introduced by Messrs. Lee and Kennedy in 1795. The flowers continue long in succession, and make a fine appearance about September and October. Not very common in our gardens; where it has been mistaken for *strumosus*.

The drawing was made at the nursery of Messrs. Colvill, in the King's Road, Chelsea.

The leaves are rough and hard on the upper side, but soft and downy on the under, a circumstance more easily distinguished by the touch than the sight. In dried samples the softness of the under surface, so striking in the fresh leaves, is scarcely perceptible, and has, we have little doubt, been the cause of the species being repeated under the head *mollis*.

We know by the sample in the Banksian Herbarium, that our plant is the *pubescens* of the Hortus Kewensis; and by another in that of Mr. Lambert, that it is also the plant of the Flora Americæ Septentrionalis; and have no reason to doubt its belonging to the rest of the synonymy adduced above.

We find no sample of *mollis* among the specimens from which Mr. Pursh constructed his Flora of North America; and do not believe that he had any other authority for it than Willdenow's record, which we believe to be a mere repetition of *pubescens*, determined from the fresh sample, while the other has been determined from the dried one.



M. Hart. del.

Andropogon scoparius (L.) Michx.

RUDBECKIA triloba.

Eight-rayed Rudbeckia.

SYNGENESIA POLYGAMIA FRUSTRANEA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VI. Recept. paleaceum. Semen apice dentatum aut paleaceum. Flores in plurimis radiati, in paucis flosculosi.

HELIANTHÆ. Cassini in journ. de phys. 88 (an 1819). 191.

RUDBECKIA. Flores radiati, ligulis neutris. Cal. duplici serie polyphyllus subæqualis patens. Sem. apice marginata, margine membranaceo 4-dentato. Recept. conicum. Juss. l. c. 189. *Herbæ: fol. alterna, indivisa, lobata v. pinnatifida: flores terminales; discus sæpè fuscus, radius luteus, rarè fuscescens, semel purpurascens. Stigmata sæpè obtusa.* Nuttall gen. 2. 178; (ex angl.)

R. triloba, hirsuta: foliis inferioribus tripartitis, superioribus indivisis, lato-lanceolatis. Michaux bor. amer. 2. 144.

Rudbeckia triloba. Linn. sp. pl. ed. 2. 2. 1280. Mill. dict. ed. 8. n. 3. Hort. Kew. ed. 2. 5. 130. Pursh amer. sept. 2. 575. Willd. sp. pl. 3. 2247. Nuttall gen. 2. 178. n. 1.

Rudbeckia subtomentosa. Pursh amer. sept. 2. 575.

Rudbeckia aristata. Solander in sched. et herb. banks. Pursh amer. sept. 2. 574. Nuttall gen. 2. 178. n. 7.

Rudbeckia foliis inferioribus trilobis superioribus indivisis. Gron. virg. ed. 2. 130; (affirmante exemplario archetypo).

Rudbeckia foliis trilobis. Id. ed. 1. 180.

Chrysanthemum cannabinum virginianum hirsutum disco nigro, petalis aureis radiato. Pluk. alm. 100. t. 22. f. 2.

(α) foliis hirtellis, manifestè dentatis, calyce reflexo (Carolinæ). Mich. l. c.

(β) foliis subtomentosis, calyce incumbente (Regionis Illinoensis). Mich. l. c.

Biennis? Caulis hispidus, corymboso-ramosus. Fol. hispida, summa, subsessilia, lanceolata, oblonga, sub3nervia, inferiora spathulato-oblonga; ima nonnulla triloba. Pedunculi rubicundi, sulcato-striati: flores erecti, diametro subbiunciali: calyx simplex viridis stellato-potentissimus, extùs appressè hirsutus, duplo brevior corollá; foliola 8, linearia, angusta, obtusula, distantia, subbiseriata. Radius flavissimus neuter; flosc⁹. 8 unà cum germinibus omninò divaricati et distantes; ligula lanceolata biplicata obtusula extùs pilis caducis aspersa; tubus brevis horizontalis villosus. Discus subrotundus, fusco-sanguineus lucidus; flosc. cylindrici glabri, faux tubo pallido germinis isoperimetro vix amplior, limbus brevis atrorubens connivens: germ. subroseo-pallescentibus obversum oblongum 4-gonum glabrum margine brevi purpureo coronatum; stig. 2 subclavato-filiformia, pruinoso-capitata (Palparum instar) divergentia fusco-punicantia, exserta. Anth. aterrimæ. Paleæ supernè punicantes nitidæ, oblongæ, aristato-cuspidatæ, nævis 2 callosis atrosanguineis levibus lineuri-fusiformibus angustissimis longitudinalibus à facie utraq̃ue prominulis intra marginem utriusque lateris insignitæ.

RUDBECKIA aristata of the above synonymy was proposed as a species many years ago by Dr. Solander, from samples still in the Banksian Herbarium; but proving the same with the Linnean *B. triloba*, of which a prototype sample is also found in that Herbarium, it had remained dormant in manuscript until carelessly revived in Mr. Pursh's Flora of North America.

Neither does *R. subtomentosa* of Pursh appear to rest upon solid foundation, being derived from one of the two varieties of Michaux's *triloba*, to which Mr. Pursh has attributed the additional difference of a calyx of the full length of the ray, to distinguish it from the other which constitutes his *subtomentosa*, where the calyx is in the proportion of only half the length of the ray. But a reference to the sample of Mr. Pursh's *triloba* in the Lambertian Herbarium, convinces us that this plant has not a calyx the full length of the ray, but only half the length, as in *subtomentosa*, and that Mr. Pursh has confounded the nearest floral leaflets with those of the true calyx.

Triloba is native of Carolina and the Illinois country, and is said to have been cultivated by Mr. Jacob Bobart before 1699; but is still far from common in our collections. The drawing was made from a plant that came out of Mr. Lambert's garden at Boyton; where it had been raised from imported seed and cultivated in the common ground.

The three-lobed leaves are all situated at the lower part of the stem, and, in the garden plant at least, are very few comparatively with the undivided ones. The leaflets of the calyx were 8, in all the flowers we saw, and the florets of the ray likewise 8. The *paleæ* or *bractes* that separate the florets in the receptacle are smooth, crimson at the top, and awn-pointed, with two black-red linear slightly elevated vertical calli on each side a little within the margin.

It is marked in Hortus Kewensis for a biennial plant.



HEDYCHIUM elatum.

Comtesse de Vandes Garland-flower.

MONANDRIA MONOGYNIA.

Nat. ord. CANNÆ. Jussieu gen. 62.

SCITAMINEÆ. Brown prod. 1. 305.

HEDYCHIUM. *Corollæ* tubo longo gracili; limbo utroque tripartito, interiore resupinato. *Anthera* duplex, nuda. *Capsula* 3-locularis, 3-valvis: *semina* numerosa, arillata. *Embryo* simplex, et perispermo et vitello dotatus. *Roxb. fl. ind.* 9; (*è textu angl.*)

H. elatum, foliis oblongo-lanceolatis glabris, spicis laxis: fasciculis ternis subtrifloris, laciniis interioribus limbi cuneato-linearibus, labelli laminâ bifidâ. *Brown MSS.*

Caulis 8-10-pedalis. Folia inferiora elliptico-lanceolata, superiora oblongo-lanceolata, omnia acumine subulato-filiformi citius marcescenti. Spica 6-uncialis: fasciculis distinctis, sæpissimè ternis, patentibus, trifloris. Ovarium (germen) villosum. Perianthium exterius (calyx) spathaceum scariosum pubescens: interius (corolla) tubo cylindraco ochroleuco, limbo exteriori tripartito laciniis angusto-linearibus acutis, interiori laciniis lateralibus cuneato-linearibus apice parùm dilatato obliquo: labellum ungue brevi lato-lineari, laminâ circumscriptione ovatâ lobis dimidiato-ovatis obtusiusculis. Filamentum labello longius. Antheræ linearis basi bifidâ lobis polliniferis. Stigma cyathiforme indivisum ciliatum. Nectaria (stamina sterilia) 2, brevissima, teretiusercula, approximata. *Brown MSS.*

An unrecorded species, determined and described by Mr. Brown from native samples in the Banksian Museum, of which that gentleman is now, fortunately for science, in the well-earned possession. The samples formed part of a collection of Nepaulese plants transmitted by Dr. Wallich, the able superintendent of the Calcutta Botanic Garden, by whom, as was plain from the inscribed notice, they had been taken for *speciosum*, accurately described by himself in the *Flora Indica* of Roxburgh; but on examination by Mr. Brown, proved to be essentially distinct from that species.

In *speciosum* the spike is much longer, the fascicles scattered and 2-flowered, and the label of the flower entire and sharp-pointed, in *elatum* the spike is much shorter, the fascicles in verticilli (whorls) of three, and 3-flowered, and the label bifid with bluntish lobes.

The drawing was taken in December last, in the hot-house at the extensive and well-ordered botanical establishment of Comtesse de Vandes, at Bayswater, from a plant which flowered probably for the first time in Europe, and had been raised from seed received from Dr. Wallich. Two stems were produced, each nearly ten feet high, terminated by a spike of cream-coloured flowers with red filaments. They did not appear to us to have any scent, while those of *speciosum* are said to be very fragrant.

“*Lower leaves* elliptically lanceolate, *upper* oblongly lanceolate, all with a subulately filiform earlier withering point. *Spike* 6 inches long: *flower-fascicles* apart, most frequently in threes, spreading, 3-flowered. *Germen* villos. *Calyx* spathe-like, scarious, furred. Tube of *corolla* cylindrical cream-coloured, *outer limb* 3-parted, with narrow linear pointed segments, *inner* with cuneately linear ones and slightly widened slanting apex: foot of the *label* widely linear, blade of an ovate circumference, with semi-ovate bluntish lobes. *Filament* longer than the label: *anther* linear, bifid at the base with polliniferous lobes. *Stigma* cyathiform (long-cupped) undivided fringed. *Barren stamens* 2, very short, subcylindrical, near.” *From the latin of Mr. Brown.*



Tab. by J. Ridgway 170 *Pimpinella* March 1. 1821.

J. Watts. sc.

ANTHEMIS apiifolia.

Parsley-leaved chinese Chamomile.

SYNGENESIA POLYGAMIA SUPERFLUA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. V. Receptaculum paleaceum. Semen nudum seu non papposum. Flores plerumque radiati, rarò flosculosi.

ANTHEMIDEÆ. Cassini in journ. de phys. 88 (an 1819).

ANTHEMIS. Flores radiati, ligulis lanceolatis numerosis. Calyx imbricatus subæqualis hemisphæricus. Folia sæpè multifida; flores sæpè in ramulis terminales; ligulæ albæ aut luteæ, rarò nullæ. A MATRICARIA discrepat receptaculo paleaceo. Calyx A. arabicæ quasi bracteis obvallatus. Juss. l. c. 185.

Div. Radio discolore s. albo.

A. apiifolia, foliis glaberrimis pinnatifidis: lobis cuneatis trifidis incisive, floribus solitariis, involucri foliolis linearibus apice scariosis. Brown MSS. Pyrethrum chrysanthemifolium. In hortis.

Involucrum (calyx) hemisphæricum, foliolis subæqualibus, appressis, linearibus, apice brevi scarioso vix dilatato. Pappus: margo membranaceus brevissimus indivisus. Receptaculum convexiusculum, paleaceum paleis linearibus acutis. Brown MSS.

“ With our present imperfect knowledge of this plant, it
 “ is perhaps necessary to refer it to ANTHEMIS, though in
 “ real affinity it will probably be found to approach more
 “ nearly to CHRYSANTHEMUM indicum, of which the supposed
 “ double-flowered varieties are in like manner generally
 “ furnished with paleæ. As that plant, however, in its
 “ single state has always a naked receptacle, and some of its
 “ double-flowered varieties are constantly, while others are
 “ occasionally without paleæ, in the 2d edition of the Hor-
 “ tus Kewensis it was continued in CHRYSANTHEMUM; an
 “ arrangement which it would not perhaps be necessary to
 “ alter, were it even proved that two species have been
 “ confounded under the name of CHRYSANTHEMUM indicum,
 “ both of them belonging decidedly to the same natural
 “ genus; and to this genus I am inclined to think ANTHEMIS
 “ apiifolia, when completely known, may also be referred.

“ As to the narrow margo crowning the seed, on ac-
 “ count of which our plant has been considered a PYRE-

“**THRUM**, it does not appear to me to constitute a sufficient
“ generic character, and it equally exists in **CHRYSANTHE-**
“ **MUM indicum**, particularly in the single-flowered specimen
“ of the Linnean Herbarium.” *Brown MSS.*

The present is an unpublished species, as yet known only in a double-flowered, and consequently imperfect, state.

It is said to have been introduced from China by Mr. Barclay; and to have come to the garden of the Horticultural Society (where the drawing was taken in January last) under the name of **PYRETHRUM chrysanthemifolium**.

Kept in the greenhouse, where it produces a long succession of blossom.

If, as the case is supposed to be in **CHRYSANTHEMUM indicum**, the *paleæ* are an effect of the luxuriance attending the double-flowered state, and should prove to be absent in the single flower, **CHRYSANTHEMUM**, and not **ANTHEMIS**, would be the place of our plant.

For the above account we are indebted to the unwearied liberality of Mr. Brown, who has taken this opportunity to account for his retaining **CHRYSANTHEMUM indicum** in that genus in the 2d edition of the Hortus Kewensis, and for not following some of his predecessors in referring the species to **ANTHEMIS**.



... .. *... ..* 176 *... ..* 1821.

... ..

LAMBERTIA formosa.

Red-flowered Lambertia.

TETRANDRIA MONOGYNIA.

Nat. ord. PROTEÆ. Jussieu gen. 78. Div. I.

PROTEACEÆ. Brown in trans. linn. soc. 10. 15, seqq.
Div. II. Fructus dehiscens. Subdiv. A. UNILOCULARIS. Ovarium
dispermum. Fructus quandòque monospermus. Antheræ exsertæ, apicibus
corollæ revolutis. Glandulæ hypogynæ 4, distinctæ, v. connatæ. Involu-
crum coloratum, deciduum, uni-multiflorum, receptaculo plano. Semina
marginata. Stigma subulatum.

LAMBERTIA. Cor. tubulosa, 4-fida; laciniis spiralitèr revolutis, stami-
niferis. Folliculus coriaceo-ligneus. Involucrum 1-7-florum. Recept. epa-
leatum. Brown in Hort. Kew. ed. 2. 1. 211.

Frutices pulcherrimi, ramis verticillatis. Folia terna, sæpiùs integerrima.
Involucra terminalia, solitaria, colorata, in plerisque 7-flora, rarò 1-flora.
Folliculi subcuneati, apice hinc cuspidati indè bicornes, v. mutici, quandòque
echinati. Brown prod. 1. 386.

L. formosa, involucris 7-floris: foliolis interioribus corollam æquantibus,
stylis pilosis, folliculis hinc cuspidatis; indè bicornibus, foliis lineari-
lanceolatis cuspidato-mucronatis margine revolutis. Brown in linn. trans.
10. 188.

Lambertia formosa. Smith in linn. trans. 4. 228. t. 20. Andrews's reposit.
69. Cavan. ic. 6. 32. t. 547. Brown prod. 1. 387. Hort. Kew. ed. 2.
1. 211. Persoon syn. 1. 116.

Protea nectarina. Wendl. sert. hannov. 4. 5. t. 21.

An australian genus, originally proposed by Sir James Smith from the present species, to which Mr. Brown has added three others, discovered by himself.

Formosa, the only species we believe in our gardens, was introduced by Messrs. Lee and Kennedy, of the Hammersmith nursery, in 1788. It is cultivated in the greenhouse, where it flowers from June to August.

The masterly drawing has been liberally communicated for the use of this work by Mr. Lambert, for whom it was done by Mr. Ferdinand Bauer.

The following is the version of Mr. Brown's description of the genus.

Involucres coloured, terminal, solitary, 1-7-flowered (generally 7- seldom 1-flowered), deciduous. *Corolla* tubu-

lar, 4-cleft, segments rolled back spirally, stamenbearing at the top. *Anthers* protruded. *Germen* with two ovula. *Stigma* subulate (awl-shaped). *Hypogynous glandules* (small glandular bodies situated under the pistil) 4, sometimes distinct, sometimes connected. *Receptacle* flat, chaffless (without *paleæ*, the *bractes* of an aggregate inflorescence). *Follicles** coriaceous woody, unilaterally dehiscent, one-celled, somewhat cuneate (wedge-shaped), spear-pointed on one side of the top, bicornous on the other, or else with a pointless top, or in some instances echinated (beset with prickles). The species constitute a group of beautiful shrubs with leaves in whorls of threes and generally quite entire.

Formosa is distinguished from the rest by 7-flowered involucre, having the interior leaflets even with the corolla, hairy styles, follicles spear-pointed on one side bicornous on the other, linearly lanceolate spear-pointedly tipped leaves which are rolled back at the edge.

In a luminous exposition of the nature of the inflorescence in *Compositæ*, Mr. Brown makes the following incidental mention of LAMBERTIA. "In all the known species of this genus the leaves are verticillate, and uniformly in threes: in *formosa* and *inermis* the involucre constantly contains seven flowers, while in *uniflora* it is reduced to one flower. The seven flowers of the former species I consider as made up of two verticilli, in number of flowers corresponding with that of the leaves, and of a single central or terminal flower; to which terminal flower *uniflora* appears to be reduced." *Brown in trans. linn. soc.* 12. 100.



* When, in another part of this work, we defined *follicle*, "an indehiscent seedvessel;" we regarded 'dehiscence' as technically limited to the symmetrical disjunction of the valves of plurivalvular seedvessels, and not comprehending the one-seeded opening of the univalvular kinds. But we were wrong.



H. Arnold, del.

Pub by J. Ringway 170 Piccadilly April 1. 1821.

J. Watto, sc.

CYMBIDIUM xiphiifolium.

Xiphium-leaved Cymbidium.

GYNANDRIA MONOGYNIA.

Nat. ord. ORCHIDÆ. Brown prod. 1. 309. Sect. V. Anthera terminalis, mobilis, operculiformis, decidua. Pollinis massæ cereacæ, læves. *Parasiticæ, paucæ Terrestres.* Brown prod. 1. 330.

CYMBIDIUM. *Labellum ecalcaratum, concavum, cum basi (simplici nec productâ) columnæ articulatam. Petala patentia distincta. Massæ pollinis duæ, posticè bilobæ.* Brown in Hort. Kew. ed. 2. 5. 213.

OBS. *Genus nimis artificiale, posthàc certè dividendum.* Brown prod. 1. 331.

Cymbidia vera.

C. xiphiifolium, foliis crassiusculis lineari-subulatis canaliculatis nervoso-striatis crenulatis æquantibus scapum; spicâ pauci(4)florâ, labello immaculato.

Scapus foliorum longitudine, 4-florus. Flores virides, majusculi. Cor. 5 petala: pet. 3 exterioribus ovato-lanceolatis, patentibus, 2 interioribus conformibus columnâ parallelis, exterioribus latioribus. Labellum cum columnâ articulatam, eâque brevius, cymbiformi, columnæ applicito, medio intus 2-calcarato; laminâ ovato-undulatâ deflexâ ungue brevior. Columna libera 1-pteris, laciniis paulò brevior, anticè concava. Anth. terminalis persistens opercularis, 1-ocularis utrinque intus juxta cardinem membranâ auriculata. Massæ pollinis 4, per paria coherentes, cereacæ, obtusè triangulares, glandulæ transversæ angustæ utrinque attenuatæ adhærentes. Stigma latum transversum infra anthecam margine superiore emarginatum pro glandulæ receptione. Lindley MSS.

Our plant flowered late last autumn in the hothouse at Wormleybury, having been newly introduced by Sir Abraham Hume, as believed, from China. The sample obligingly sent us for the use of this work, was requested by Mr. Lindley, who offering us his notes concerning it, we took none ourselves. Nor have we had any opportunity of comparing it with *ensifolium*, to which it appears the nearest; but as far as recollection serves us in regard to our plant, it differs from that in having a fleshy rigid regularly tapered prominently nerved subcartilaginously edged crenulated pale green foliage. The flowers are of a yellowish green throughout, and the label unspotted. Further differences may offer when samples of the two shall have been compared. We have not much hesitation however in separating them, although not confident. The leaves remind us of those of *IRIS Xiphium*.

According to Baron Humboldt, the shady vallies of the Andes of Mexico, New Granada, Quito, and Peru, situated between the elevations of 800 and 1100 fathoms, where refreshing breezes and vernal warmth prevail the year through, are rivalled by no part of the globe in the number of the species, the beauty and fragrance of the blossom, as well as the fullness and brilliancy of the foliage of their *Orchideæ*. He calculates that not a twentieth part of the species belonging to those regions have been observed by the botanist; and remarks, that while the whole of Europe affords about 70 or 80, the tropical portion of America alone, although yet so cursorily explored in its mountainous districts, has presented us with 244, of which 61 were discovered by himself and M. Bonpland.

Scarcely any of the species with a spurred label are found in tropical regions, that section of their type belonging principally to the temperate and frigid zones. *ORCHIS*, *HABENARIA*, *CYPRIPEDIUM*, *OPHRYS*, *SERAPIAS*, *EPIPACTIS*, &c. &c. are the prevailing groups in our northern hemisphere*; *SATYRIUM*, *PTERYGODIUM*, *DISPERIS*, *CORYCIUM*, *DISA*, *PTEROSTYLIS*, *CALADENIA*, &c. &c. of the southern.

The equatorial *Orchideæ* are principally of the Epidendrous section, and differ from their coordinates of the temperate zones in being gregarious and parasitical.



* Excellent and accurate figures of several of these genera, so rare in our collections, may be seen in "THE JOURNAL OF SCIENCE AND THE ARTS."



Edw. C. Edwards. del.

Miss by J. Ridgway 170 Piccadilly April. 1. 1821.

J. Watts. sc.

IXIA maculata; var. cæsia.
Green-spotted french-grey Ixia.

TRIANDRIA MONOGYNIA.

Nat. ord. ENSATÆ. Lin. ord. nat. VI. Nobis in ann. of bot. 1. 219.

IRIDES. Jussieu gen. 57. IRIDEÆ. Brown prod. 1. 302.

IXIA. *Spathæ* distinctæ, bivalves, unifloræ, plurimum breviores corollâ. *Cor.* hypocrateriformis, erecta; tubo angusto, cylindræo, recto, fauce sæpiùs nullâ; limbo regulari, 6-partito, rotato, laciniis oblongis, rarissimè infernè conniventibus. *Stam.* breviora limbo; *fil.* summo tubo inserta, modò monadelphæ: *anth.* erectæ, introrsæ. *Stylus* erectus, tubum liberè trajiciens; *stig.* 3, tubo exserta, lineari-laminata, angusta, complicato-canaliculata, replicata, sæpissimè indivisa. *Caps.* membranacea, ovato-globosa, 3-loc., 3-valv. loculamentis polyspermis, valvis medio septigeris; *sem.* margini intimæ septorum utrinque annexa, globosa, Sinapeos minora; *testâ* siccâ membranaceâ.

Bulbo-tuber castaneo-carnosum, soboliferum, tunicis persistentibus fibroso-membranaceis aridis (rarò stupaceo-retextis) concentricis tectum, omni anno post enixum simile floridum emoriens, ut in CROCO. Folia ensata, collateral-disticha, nervosa, plana, infernè equitanti-complexa, vaginâ radicali. Caulis culmaceus, spicâ alternâ multiflorâ laxâ, rarissimè flore solitario, terminatus, nunc ramosus, foliis interioribus 2 sæpiùs vaginatus. Infloresc. omni colore ludens. Corolla teneriuscula, limbo sesquiunciam diametro rarò excedens.

I. maculata, corollæ tubo capillari, limbo explanato basi maculato; stigmatibus ad tubum usque distinctis, infrà antherarum bases replicatis.

Ixia maculata. Lin. syst. veg. ed. 14. 85. Thunb. ix. 19. ejusd. prod. 10. *Burm. prod. cap. 1. Schneevogt ic. 6. 25. Jacq. hort. schænb. 1. 9. t. 19—23. Andrews's reposit. 196, 256. Nob. in curtis's magaz. 549, 789, 1285. Redouté liliac. 137. Willd. sp. pl. 1. 205. Hort. Kew. ed. 2. 1. 88.*

Ixia viridiflora. Redouté liliac. t. 476.

Ixia spectabilis. Salisb. prod. 33. n. 10.

Ixia amœna. Salisb. prod. 35. n. 12.

Ixia capitata var. ovata. Andrews's reposit. 23.

Ixia capitata var. flore albo, fundo nigro. Andrews's reposit. 159.

Ixia spicata var. viridi-nigra. Andrews's reposit. 29.

Ixia maculata viridis. Usteri ann. bot. st. 5. 58.

Ixia abbreviata. Houttuyn pfl. syst. 11. 48. t. 78.

IXIA, as above defined, does not comprize more than sixteen recorded species, none of which have been observed beyond the territory of the Colony at the Cape of Good Hope, and the adjoining districts. The 59 species confounded under this head in the "Enumeratio" of Vahl, are respectively reducible to GALAXIA, MORÆA, TRICHO-

NEMA, GEISSORHIZA, IXIA, SPARAXIS, TRITONIA, LAPEY-ROUSIA, HESPERANTHA, ANOMATHECA, WATSONIA, and BABIANA, genera, in our apprehension, as expedient and mutually as distinct in character and habit as the confining generic groups of any of the orders of the Monocotyledonous division of Vegetables.

The drawing is from a plant which flowered about four years ago in Mr. Griffin's conservatory at South Lambeth, and had been received from the Cape of Good Hope. It is a variety that we have not before met with in our collections.

Maculata, curiously variable in the colour of the flower, displays itself in every hue and shade, not excepting the most beautiful greens, and even black, colours so rare in the corolla of other vegetables. As a species, we confess, we can find no other line of demarcation between it and *erecta*, variable in the same way and to the same extent, but the circular spot in the centre of the limb of the first, which is not in the latter, nor should we have separated the two had we not found them established by former botanists of eminence.

The nucleus or bud of the bulb-tuber of this genus, like that of CROCUS, resembles in substance the kernel of a chestnut, and dies yearly away concealed within its dry fibro-membranous permanent coats, while evolving another which is to bear the flower of the season. In WATSONIA the bulb-tuber, which perishes, is the one that has itself borne the flower of the season, the scape of which is transmitted between two principal buds, evolved during its growth, and which do not flower until the ensuing season.



M. Hart. del.

Pub by J. Ridgway 1/0 Piccadilly Sp. 1. 1821.

J. W. G. sculp.

AMMYRSINE buxifolia.

Sand-myrtle.

DECANDRIA MONOGYNIA.

Nat. ord. RHODODENDRA (RHODORACEÆ). *Jussieu gen.* 158. *Div.*
 II. Corolla subpolypetala.

AMMYRSINE. Cal. profundè 5-partitus. Pet. 5. Stamina exserta.
 Caps. 5-locularis, apice dehiscens. *Pursh amer. sept.* 1. 280.

Ammyrsine buxifolia. *Pursh amer. sept.* 1. 301.

Ledum buxifolium. *Hort. Kew.* 2. 65. ed. 2. 3. 48. *Bergius in act. petrop.*
 1777. part. 1. 213. t. 3. fig. 2. *Willd. sp. pl.* 2. 602. *Michaux bor.*
amer. 1. 280. *Nuttall gen.* 1. 275.

Ledum thymifolium. *Lamarck encyc.* 3. 459. *illustr. t.* 363. *fig.* 2.

Ledum (Leiophyllum) thymifolium. *Persoon syst.* 1. 477.

Frutex parvus, vix pedalis. Caulis erectus, teretiusculus, cicatricibus
 scaber, cinerascens, determinatè ramosus: rami ad interstitia stata, subver-
 ticillati foliosi v. cicatrizati; singuli paritèr ramulosi, erecti. Folia BUXI,
 sparsa, frequentia, breviter petiolata, ovalia, obtusa, 2 v. 3 lineas longa,
 supernè subrugosa, subtùs lævia punctata, utrinque nitida, margine undique
 reclinato. Corymbi florum terminales simplices, pedunculis unifloris pubes-
 centibus: bracteæ oblongæ, obtusæ, subimbricatæ, patentès, receptaculo pro-
 prio sitæ undè pedunculi exeunt. Cal. monophyllus glaber basi intrusè,
 5-angulus, 5-partitus, laciniis lanceolatis acutis erectis. Cor. alba; pet. 5
 ovata, obtusa, calyce longiora, sessilia, patentia. Fil. subulata, corollâ
 longiora, erecto-patentia, alba. Anth. purpureæ, ovatæ, parvæ, hinc pla-
 niusculæ, indè didymæ, bisulcatæ, incumbenti-erectæ. Germ. superum, sub-
 rotundum, undique sulcatum, scabridum. Stylus cylindricus, erectus, longi-
 tudine staminum: stigma simplex, submarginatum truncatum. Caps.
 ovata, acuta, subrugosa, 3-loc., 3-valv., valvulis latere interiore longitudi-
 nalitèr dehiscentibus: sem. plurima, parva, ovata, scobe interstincta.
Bergius loc. cit.

A genus proposed by Mr. Pursh in the work above cited; and distinguished from LEDUM, in which it had been previously included, by a proportionately much larger and more deeply divided calyx, by a five-petalled instead of a one-petalled five-cleft corolla, protruding stamens, and capsule opening at the summit instead of the base; as well as by difference of general habit.

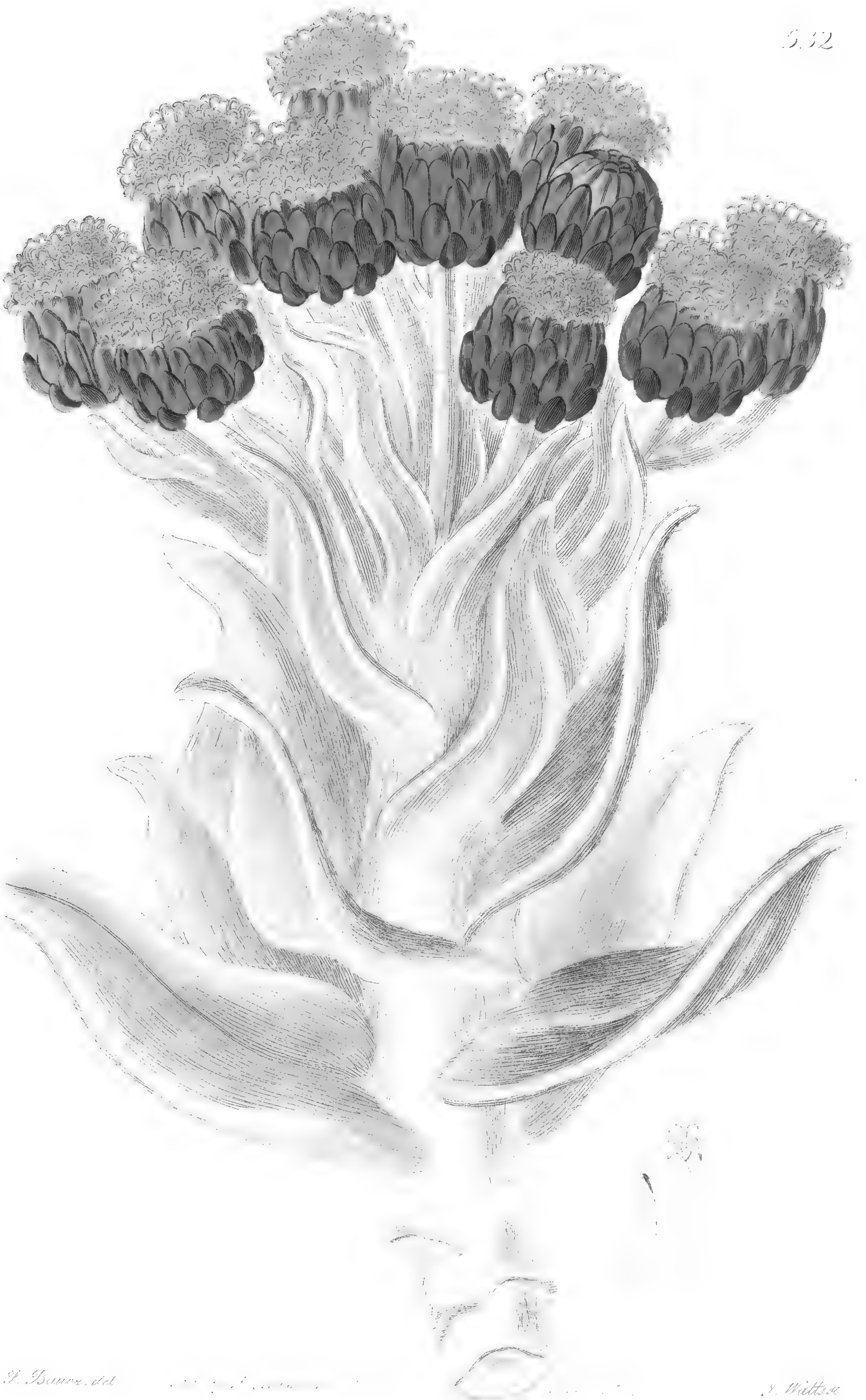
Buxifolia, the only recorded species, is known by the name of *Sand-myrtle* in the state of New Jersey, where it

grows in Pine barrens. It is also said to be native of the mountains of Carolina.

Introduced by Mr. Peter Collinson in 1736. Flowers with us in April and May. Drawn at the nursery of Messrs. Colvill in the King's Road, Chelsea, where it is cultivated in peat-mould; and usually kept in pots, and sheltered under the lights of a garden-pit in the winter.

A small upright bush, seldom exceeding a foot in height; *branches* round leafy subdivided. *Leaves*, compared by some with those of the Box-tree, by others with those of Thyme, scattered, closish, shortly petioled, oval, obtuse, 2-3 lines long, shining on both sides, paler underneath, reflexed at the edge. *Corymbs* terminal, subcapitate, simple; *pedicles* one-flowered, minutely pubescent, placed on a short *peduncle* beset by smooth green oblong obtuse subimbricate spreading scalelike *bractes* placed separately at the foot of each pedicle. *Calyx* green, sometimes tinged with red, five-parted, smooth, dented underneath, segments upright, lanceolate. *Corolla* white, sometimes slightly tinged with red on the outside; *petals* ovate, obtuse, longer than the calyx, sessile (that is, without *unguis* or *petal-foot*), spreading. *Filaments* subulate, longer than the corolla, white, uprightly spreading: *anthers* purple, ovate, small, incumbently upright, twin. *Style* cylindrical, the length of the stamens; *stigma* a simple depressedly blunted point. *Capsule* ovate pointed, somewhat wrinkled; the valves opening longitudinally on the inner-side. *Seeds* many, small, ovate.

We have borrowed the description from the excellent ones respectively given by Messrs. Bergius and De Lamarck.



ASTELMA eximium.

Globe Astelma.

SYNGENESIA POLYGAMIA ÆQUALIS. (Brown.)

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. I. Recept. nudum.

Sem. papposum. Flores flosculosi.

INULEÆ. Cassini in journ. de phys. 88 (an 1819). 193. Sect. Inuleæ-gnaphalieæ.

ASTELMA. *Receptaculum nudum* (nec paleatum nec favosum). *Pappus plumosus, sessilis: radiis basi connatis. Involucrum (calyx) imbricatum, squamis scariosis: intimis conniventibus.* Brown MSS.

Astelma eximium. Brown MSS.

Gnaphalium eximium. Linn. mant. 573. Thunb. prod. 152. Jacq. coll. 2.

295. Curtis's magaz. 300. Willd. sp. pl. 3. 1849. Andrews's reposit.

654. Hort. Kew. ed. 2. 5. 10.

Gnaphale globuleuse. Lamarck encyc. 2. 146.

Elichrysum africanum, foliis lanceolatis integris tomentosis decurrentibus, capitulis congestis ex rubello aureis. Edwards's birds. 183. t. 183.

Caulis sesquipedalis lignosus, crassitudine digiti, tomentosus, totus foliis densè contectus, simplex vel juxtà apicem uniramisus. Folia ovalia, acuminata, integra, enervia, utrinque tomento gossypino copioso lanata, sparsa, numerosa, conferta, semiamplexicaulia, 2½ uncia longa, latitudine sesquiquintiali v. magis, viridi-incana. Corymbi terminales sessiles, pedunculis tomentoso-lanatis breviusculis. Flores magnitudine ferè Cerasi justæ molis, globosi, calyce imbricato, lucido, vividè purpureo, foliolis ovali-lanceolatis, concavis, conniventibus, nec apice rotundatis, nec obtusis, ut habet Linnæus. (Lam. è textû gall. vers.)

Syngenesia, a class of the artificial system corresponding with *Compositæ* of the natural system, and comprising the largest of the vegetable families, has been recombined by M. Cassini, in twenty subordinate divisions called tribes, with the following titles: 1, *Lactuceæ*. 2, *Carlineæ*. 3, *Centauriæ*. 4, *Carduineæ*. 5, *Echinopseæ*. 6, *Arc-totideæ*. 7, *Calenduleæ*. 8, *Tagetineæ*. 9, *Heliantheæ*. 10, *Ambrosiæ*. 11, *Anthemideæ*. 12, *Inuleæ*. 13, *Astereæ*. 14, *Senecioneæ*. 15, *Nassauviæ*. 16, *Mutisiæ*. 17, *Tussilagineæ*. 18, *Adenostyleæ*. 19, *Eupatoriæ*. 20, *Vernoniæ*; most of which, in his view, resolve into sections as consistent and mutually distinct as the tribe of which they are component parts. For instance, *Inuleæ*,

the tribe where the present genus stands, and the most extensive except *Heliantheæ*, resolves into his sections *Inuleæ-bupthalmææ*, *Inuleæ-prototypeæ*, and *Inuleæ-gnaphalieæ*; the *first* denoted by a nonscariose calyx, anthers unappendanted at the base, and round-topped stigmas; the *second* by a nonscariose calyx, anthers appendanted at the base, and round-topped stigmas; the *third* by a calyx scariose throughout, anthers appendanted at the base, and truncated or flat-pointed stigmas.

The enumeration of the genera composing the foregoing tribes is announced for the head *Inuleæ* of the next ensuing part of the "Dictionnaire des Sciences Naturelles," a work in course of publication in France, and by the article *Gnaphalieæ* of which we have been supplied with the above information.

We cannot but regret to find in the instructive article, from which we have borrowed so freely, the peevish cavil applied by M. Cassini, in the place of criticism, to a definition proposed by Mr. Brown for GNAPHALIUM; which very definition is, after all, adopted upon the spot without amendment or addition, except the insertion of points already expressed in the character of the order, and consequently supererogatory in that of the genus. Can it be, that that ingenious botanist has been affronted by the sagacity with which he has been more than once successfully anticipated from the same quarter?

We shall here insert some observations by Mr. Brown upon a proposed reform of GNAPHALIUM.

"This extensive and ill-defined genus evidently requires reformation; and if the necessity for its subdivision be admitted, it will also, I believe, be found most expedient to apply the name GNAPHALIUM to that section to which *G. luteo-album*, *sylvaticum*, and *uliginosum* belong, and which is characterized by its naked *receptacle*, its *involucrum* (*calyx*) connivent at top and of equal height with the truncated *capitulum* (*syngenesious flower*), which consists of numerous filiform pistilbearing florets in the circumference, with a smaller number of stamen and pistilbearing florets in the disk, both of them ripening seeds, and having a sessile capillary deciduous *pappus* (*seedcrown*)."

"ANTENNARIA is a genus separated from GNAPHALIUM by

Gærtner, but which, as he has proposed it, consists of three tribes of plants sufficiently dissimilar in habit and structure to justify a further subdivision ; and, what is remarkable, none of them entirely agreeing with his generic character."

" The first tribe consists of herbaceous plants, natives of Europe and North America, having the staminiferous florets and the pistilliferous florets in distinct *involucra*, and on different individuals. To this genus the name ANTENNARIA* may remain, though descriptive of the pappus of the staminiferous flower only. Its species are GNAPHALIUM *dioicum* Linn., *alpinum* L., *carpathicum* Wahlenberg, *plantagineum* L., and *margaritaceum* L."

" The second tribe consisting of GNAPHALIUM *Leontopodium* and *leontopodioides*, which may be called LEONTOPODIUM, is in affinity between ANTENNARIA and GNAPHALIUM as here limited, but has sufficient characters to distinguish it from both."

" The third tribe has been found only in South Africa, and consists of shrubs with rigid heath-like leaves, of which the margins are incurved, the upper surface tomentose, and the under convex and nearly smooth; but by a remarkable twisting they are in most of the species resupinate; a character which seems to have been overlooked in all the described species; namely, GNAPHALIUM *muricatum*, *mucronatum*, and *seriphioides*. In this tribe, or genus, which may be named METALASIA, the *involucrum* is generally cylindrical, and in most species has a short *radius* (*ray*) formed by the spreading coloured laminæ of the inner scales (leaflets); the *flosculi* are few in number, and all both stamen and pistil-bearing; and the radii of the pappus, which fall off separately, are either thickened or more strongly toothed at top." *Brown on the Compositæ in trans. lin. soc.*

ASTELMA is now first detached from GNAPHALIUM by the above able hand; and founded upon the present species, characterized as a genus by a naked *receptacle of the flower* (neither chaffy nor honeycombed); a sessile feathered *seed-crown*, the radii of which are connected at the base; an imbricated *calyx*, composed of scariose *leaflets*, the

* Fully defined by Mr. Brown in a note in the page from which we are extracting.

innermost of which are convergent, and which florets are all both stamen-bearing and pistil-bearing. It is the nearest genus to **ELICHRYSUM**; from the genuine species of which, according to Mr. Brown, it only differs by the rayless calyx.

The drawing of this splendid shrub is from the pencil of Mr. Ferdinand Bauer; and was communicated for the use of this work by its possessor, Mr. Lambert, with whom we are always incurring some debt of kindness.

Introduced from the Cape of Good Hope in 1793 by Col. Will. Patterson. Belongs to the greenhouse.



ARDISIA lentiginosa.
Speckle-flowered Ardisia.

PENTANDRIA MONOGYNIA.

Nat. ord. MYRSINÆ. *Brown prod.* 1. 532.

ARDISIA. Cal. 5-partitus. Cor. hypocrateriformis: limbo reflexo. Anth. magnæ, erectæ. Stigma simplex. Drupa carnosâ, supera, monosperma. *Persoon syn.* 1. 233. Frutices v. arbusculæ. Fol. alterna coriacea.

OBS. **ARDISIA MYRSINI** nimis affinis, diversa solummodò floribus hermaphroditis, stigmate simplici, ovario indefinitè polyspermo (ovulis 5-pluribus), antheris conniventibus. **BLADHIA** ab utroque genere foliis oppositis ternisve diversa, fructificatione totâ similis. **WALLENIA** quæ hujus ordinis, et dioica, à præcedentibus differt, corollâ longiùs tubulosâ, limbo abbreviato et semper 4-fido. An itaque omnia conjungenda? *Brown prod.* 533.

A. lentiginosa, foliis lanceolatis, crenatis; corymbis compositis; floribus minutè lentiginosis.

Ardisia crenata. *Curtis's magaz.* 1950; (non *Carey hort. beng.* 85.) quæ fortè **ARDISIA elegans.** *Andrews's reposit.* 623?

Ardisia crenulata. *Donn cant. ed.* 8. 64 (non *Ventenat choix. tab.* 5.)

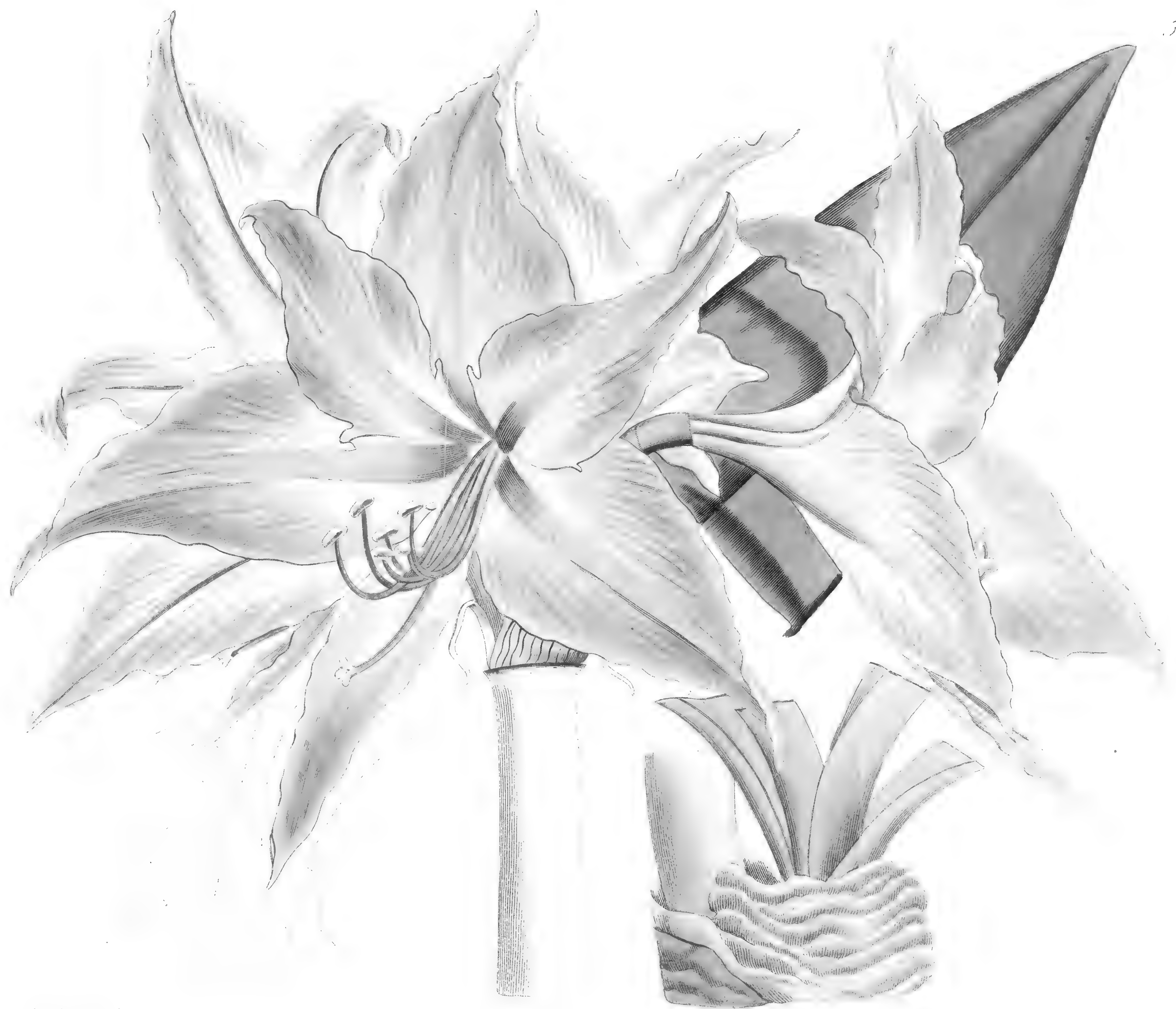
Frutex erectus ramulis numerosis approximatis undique sparsis strictis supernè confertim foliosis; novellis crassiusculis. Fol. sparsa, coriacea, atroviridia, ovali-lanceolata, utrinque attenuata, margine reflexo-crenata, 2-3-uncialia latitudine vix unciali; petiolus brevis canaliculatus unâ cum nervo medio folii lineolato-punctatus. Corymbi compositi ramulorum terminales, laxiùs multiflori, cernui, divaricati, breviores foliis: rachis communis brevis robustus strictus viridis; pedunculi undique sparsi plurimùm longiores rachide strictiusculi virides punctis lineolatis glandulosis aspersi, uni-pluriflori, pedicelli umbellati articulato-annexi, parim longiores flore. Flores cernui, albicantes lineolis glandulosis rufescentibus punctati, diametro $\frac{1}{2}$ partem uncie vix adæquantes. Cal. corollæ concolor, 4plo brevior, carnosula, accumbens, punctis crebris notatus, stellato-5-fidus, persistens et sensim cum drupâ coccineo-rubescens. Cor. campanulato-rotata 6-partita, lac. æqualibus ovato-oblongis acuminatis, concaviusculis, disco brevissimè connexis. Stam. bis fermè breviora corollâ, erecto-conniventia; fil. brevissima robusta imò margini corollæ affixa; anth. magnæ luteæ sagittato-lanceolatæ posticè lineolis badiis parciùs punctatæ, à basi infixæ, utrinque longitudinalitèr dehiscentes, apiculo acuto. Germ. punctatum viride subrotundo-cylindræum, ovulis subtrinis?, stylus setaceus virescens subæqualis corollæ erectus persistens, stigma apiculus acutus. Drupa cortice tenuiùs carnosâ tecta, impunctata, coccinea, lævis, subglobosa, magnitudine *Pisi mediocris* v. minor, stylo infernè carnosâ at longiùs à parte supernâ sphaclato præfixa; putamen fuscescens, crustaceum, tenue, pallido-striatum; albumen corneum.

Mr. Brown thinks the present genus almost too artificially separated from **MYRSINE**, from which it differs merely by flowers with perfect stamens and pistil on the same plant,

instead of being dioicous and bearing the perfect stamens alone in the flowers of one plant and perfect pistil in those of another, by a simple stigma, an indefinitely seeded germen (with 5 ovula or more), and collective anthers; and doubts whether the two might not be conveniently united both with *BLADHIA*, which agrees in character of flower and fruit, though it differs by the leaves being in pairs or threes, and with *WALLENIA*, a dioicous coordinate, differing from the other three by a corolla with a proportionately longer tube and shallow constantly four-cloven limb.

ARDISIA lentiginosa is said to have been introduced from China about the year 1810, by the late Mr. Evans of Stepney. The drawing was taken at Messrs. Colvill's nursery in the King's Road, Chelsea.

ARDISIA crenata of Roxburgh's manuscripts and Carey's Hortus Bengalensis, is an East Indian species with red flowers, and, we have little doubt, the same with *ARDISIA elegans* of Andrews's Botanist's Repository (t. 630). *ARDISIA crenulata* of Ventenat is a West Indian species, very distinct from the present, which has a white flower with numerous glandular russet specks, indistinctly visible to the naked eye in the corolla, but thicker and more conspicuous in the calyx. The young branches are thick but pliant, and remind us in some measure of those of the well-known *AUCUBA japonica*. In the hothouse, where our shrub is usually cultivated, it is generally seen with masses of bloom on one part and coral-coloured fruit on another, making a very ornamental object for this department of the garden.



Hand-drawn sketch.

Drawn by J. Hildemann 170 Picaudsky April 1. 1871.

W. H. Miller del.

AMARYLLIS acuminata.

Buenos Ayres Amaryllis.

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. Jussieu gen. 54. Div. II.

AMARYLLIDÆ. Brown prod. 1. 208. Sect. I.

AMARYLLIS. Suprà vol. 3. fol. 226; ubi in seminum caractere post "globosa" inseri potest "modòque baccata."

Div. Bi-multifloræ; tubo nudo; foliis bifariis.

A. acuminata, pluri (4)-flora; foliis lorato-elongatis, supra pulvisculo cano opacatis; germine subæquante tubum; corollæ ringentis laciniis 3 summis rhombeo-lanceolatis, acuminum productorum lateribus rectis undulatis.

Bulbus subrotundus magnitudine ferè ovi anserini, tunicis fuscis. Fol. plura, subcoriaceo-firma, lato-ligulata, sesquipedalia ultràve latitudine subtriunciali, suprà nimbum tenuem canum virore subobscuro translucencia, breviter acuminata, infrà pallidiora nitida. Scapus cylindræus, robustus, glaucus, sesquipedalis, basi purpurascens. Flores nutantes, miniato-micantes, 5-unciales, subtessellato-maculosi: pedunculi obtusè trigoni, stricti, subunciales. Germ. viride, oblongum rotundatè trigonum; ovula numerosa biseriato-cumulata plano-compressa. Corollæ tubus intaminatus, semuncialis; faux stellâ notata fulgidæ congeneris proximioris viridioris, turbinata: cætera ferè fulgidæ suprà vol. 3. tab. 226. videndæ.

This fine plant flowered in January last at South Lambeth, the bulb having been obtained by Mr. Griffin, directly from Buenos Ayres; and cultivated in the bark-bed of his hothouse. It belongs, as well as we can judge, to an unrecorded species, and ranks in the same section of the genus with *fulgida* and *crocata*, previously introduced by Mr. Griffin, and already published in this work; from both of which, however, though very nearly akin, it differs markedly, by a greyishly clouded foliage, and by the 3 upper segments of the corolla being of a rhomboidally lanceolate form, and long-pointed with straightly edged curled sides tapering all the way from near the middle. The leaves are much longer and of a darker green than those of *fulgida*, the corolla faintly chequered and of a pinker or paler salmon-red.

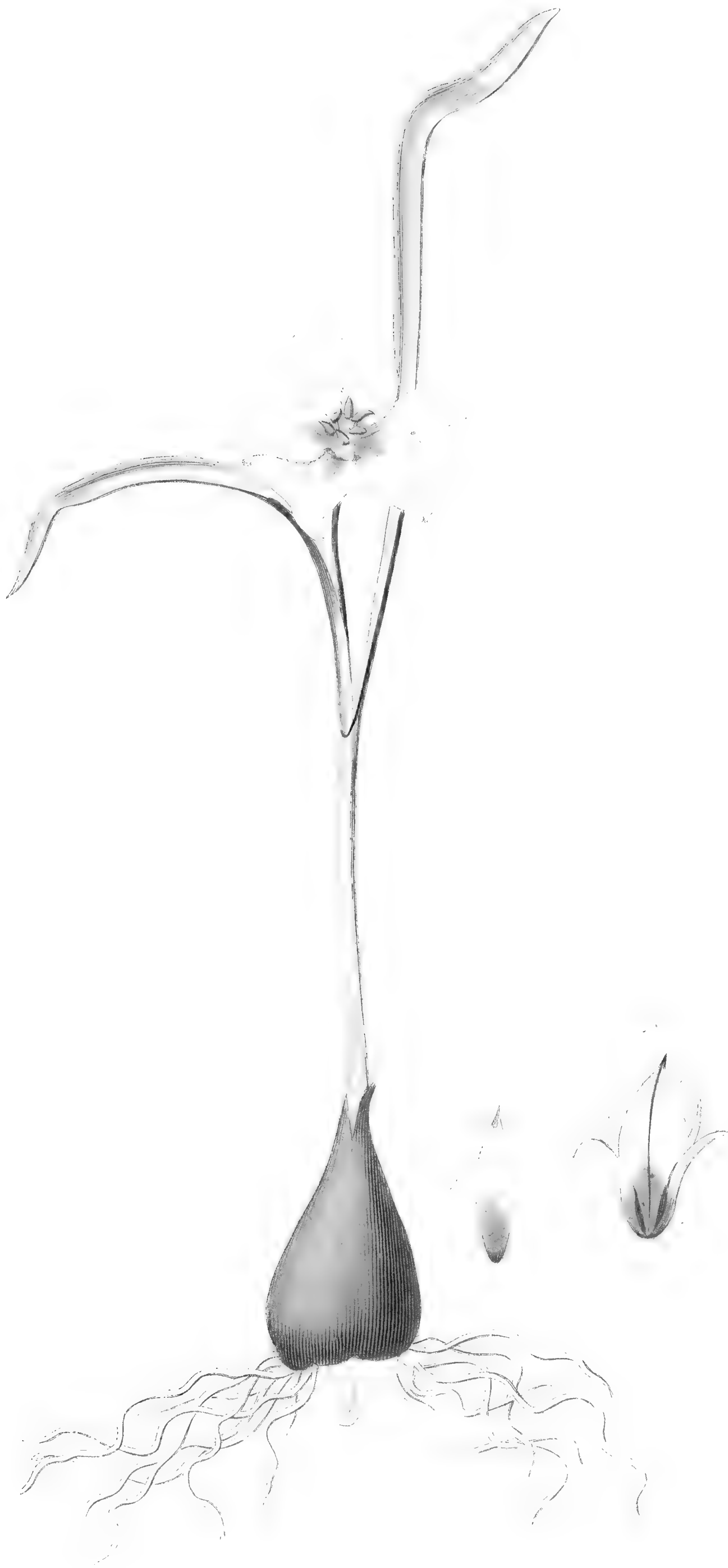
Bulb as large as a goose's egg with brown integuments. *Leaves* thickish and firm, lorate (broadly linear), shortly pointed, a foot and a half long, and in the present sample

nearly 3 inches broad, of a darkish green, clouded by a powdery bloom which overspreads the upper side, shining and paler on the under side. *Scape* about $1\frac{1}{2}$ foot high, cylindrical, glaucous, purple at the base. *Umbel* of 4 nodding flowers, about 5 inches long; *peduncles* upright, robust, about an inch long, bluntly 3-cornered. *Germen* green, oblong, with three rounded corners; *ovula* numerous, in two rows in every cell, flattishly compressed, horizontally piled. *Tube* of the corolla about half an inch long, unspotted: *faux* with a greener star than in *fulgida*, with which the species agrees pretty closely in other parts of the corolla.



NOTE.

While defining some of the genera in *Amaryllideæ*, speaking of the bulbispermous capsule, which is incidental to several, for the sake of a term in description, we presumed the curious enlargement of its seed to be a modification of the albumen; but Mr. Brown has long since applied himself to the investigation of this point, and though with that laudable caution and precision with which he accompanies all scientific communications, he yet hesitates to decide absolutely on its nature and origin, he is however convinced from the texture of its substance that it can be no modification of the albumen. His view of the structure and parts of a true seed are to be found in the masterly description given in the character of GRIFFINIA in the present volume.



TULIPA biflora.

Calmuc Tulip.

HEXANDRIA MONOGYNIA (TRIGYNIA).

Nat. ord. LILIA. Jussieu gen. 40.

MELANTHACEÆ. Brown prod. 1. 274.

TULIPA Suprà vol. 3. fol. 204.

T. biflora, bifolia; foliis linearibus intùs glaucis, caule bi-(1-4-)floro glabro, corolla ante anthesin mutante, petalis staminibusque basi barbatis, pistillo acutè prismatico, stigmatum orà canaliculoque inconspicuis: capsulâ trilobo-globosâ mucrone simplici præfixâ.

Tulipa biflora. Lin. suppl. 106. Pall. it. 3. 727. app. n. 86. tab. D. fig. 3. Georgi beschr. des russ. reichs. 4. part. 3. 902. Falk it. 2. 109. n. 400. t. 6. Willd. sp. pl. 2. 98. ejusd. enum. 1. 363. Marsch. bieb. fl. taur. cauc. 1. 270.

(β) foliis splendentibus, corolla intùs dilutè carnea antheris nigricantibus. *Tulipæ Byzantinæ* genus alterum. (Lalé di duoi fiori). Clus. hist. 1. 152. cum ic.

Minima generis. Bulbo-tuber (peractâ fructificatione emoriturum) simile quotannis perpendicularitèr demittens: hinc in annosis alta exuviarum persistentium strues caule percurrente catenata. Fol. infernè caulina, alterna, convoluto-linearia, acuminata, scapo longiora, extùs nitida, infernè vaginaria. Caulis filiformis, palmaris ad spithamæum, simplex vel (pluribus confluentibus?) ramosus, ramis 2-4 unifloris. Flores remissiùs suaveolentes, candicantes fundo flavo, $\frac{2}{3}$ uncia v. circà longi, sub anthesi erecti, campanulato-rotati: petala apice nuda, exteriora oblongo-lanceolata, sessilia, recurviora, extùs colore violaceo dilutè tincta, interiora duplo latiora, lanceolato-elliptica, subunguiculata, barbâ exteriorum parciore, striâ viridi externè prominulâ. Stam. bis plusve petalis breviora: fil. posticè paullulum suprà basin barbata: anth. erectæ, flavæ, sagittatæ, filamentis bis breviores. Stigmata anguli loculorum continui trini terminales replicati intus obsoletè canaliculati, margine pallidâ nec incrassatâ neque undulatâ. Caps. mole ferè *Cerasi minoris*. Flos. secundarius (observante Pallas), sæpiùs ob castrata stigmata abortiens; nunc 4-petalus et 4-andrus.

The most diminutive of the genus, and unknown in our gardens, until, like so many of our rarest as well as finest liliaceous exotics, introduced by Mr. Griffin.

It was received from Moscow along with *celsiana*; being, as well as that, an indigenous associate of *gesneriana* in the wilds of the southern shores of the Caspian Sea and of the banks of the Wolga.

Celsiana (*sylvestris*; β . minor. Marsch. bieb.) has bearded filaments, but beardless petals; *biflora* has both filaments

and petals bearded at the base; *sylvestris* petals bearded both at top and bottom: differences respectively accompanied by others in the habit. *Biflora*, it is said, is never found in wet sandy spots, as *celsiana* and *gesneriana* often are, but always in clayey saline places. The bulbs of all are eaten raw by the Calmucs, especially by their children. The bloom of *biflora* is slightly fragrant; and precedes by a few days that of the other two. The stem is generally 2-flowered; but oftener with 1, than either 3 or 4 flowers, which it sometimes has.

All Mr. Griffin's samples were one-flowered. According to Pallas, the secondary flower is generally abortive, having a defective pistil, and occasionally only 4 petals, with the same number of stamens. May not the two- and more-flowered varieties, be the produce of the incidental confluence of as many one-flowered scapes?

Biflora is distinguished among its congeners by never having more than two leaves, and by a globular 3-cornered capsule with a small simple point, as well as by diminutiveness. The corolla is white with a bright yellow base, and all the petals, as well as filaments, more or less bearded at the lower end, the outer three sessile, more spreading, twice narrower than the inner, and faintly tinged with a violet blue on the outside. The bulb-tuber dies when the capsule ripens, after producing another perpendicularly downwards from the base, besides a smaller lateral progeny; hence in old plants deep accumulations of the exuviae of preceding years are drawn up with the root, strung together by the stem of the year.

The sample which has been drawn for this work, flowered in February last, in the greenhouse at South Lambeth.



S. Marit. det.

Det. by J. Ridgway 170 Sicily May. 1. 1821.

S. Mart...

CORIS monspeliensis.

Coris.

PENTANDRIA MONOGYNIA.

Nat. ord. LYSIMACHIÆ. *Jussieu gen.* 95. *Div. I.* Flores cauli insidentes.PRIMULACEÆ. *Brown prod.* 1. 427.

CORIS. *Cal.* ventricosus, apice 5-dentatus, in ambitu 5-setosus, persistens. *Cor.* (hypogyna) tubulosa 5-fida inæqualis. *Stam.* corollæ laciniis opposita. *Stigma* 1. *Caps.* 5-valvis, calycè tecta; sem. numerosa. *Caulis* (herbaceus) ramosissimus, humilis, basi sublignosus; folia linearia alterna; flores spicati terminales. *Jussieu gen.* 96.

Coris monspeliensis. *Linn. sp. pl. ed.* 2. 1. 252. *Lamarck encyc.* 2. 110. *illustr. t.* 102. *Lam. & decaud. fl. franç.* 3. 437. *Desfont. flor. atl.* 1. 185. *Willd. sp. pl.* 1. 100. *Hort. Kew. ed.* 2. 1. 383. *Curtis's magaz.* 2131.

Coris quorundam. *Clus. hist.* 2. 174; optimè.

Simfiteo petreo. *Cavan. in an. de scienc. nat.* 2. 271.

Symphytum petræum. *Camer. epit.* 699.

A genus of only one recorded species, and belonging to the Order *Primulaceæ*, defined in the Prodrômus of Mr. Brown, as follows:

“ *Calyx* 5- (seldom 4-) cloven, regular, permanent. *Corolla* of one petal, inferior (under the pistil), regular (seldom irregular), limb of 5 (seldom 4) segments. *Stamens* epipetalous (upon the corolla), of the same number with and opposite to the segments of the limb. *Germen* one-celled: *style* one: *stigma* capitate (headed). *Capsule* valvular: *receptacle* of the seed central, insulated: *seeds* numerous, peltate, albuminous: *embryo* enclosed, parallel with the umbilicus: *radicle* with no determinate direction. The whole order is herbaceous, with generally opposite, but sometimes whorled, and even scattered leaves. It agrees with *Myrsinæ* in disposition of the seed, situation of the embryo in relation to the umbilical point, and by the stamens being placed opposite to the segments of the limb of the corolla, but differs from that order in general habit, and by a capsular seedvessel.” (*From the Latin*).

An old, though not common, inhabitant of our flower-

gardens, having been cultivated in them from the days of Parkinson. It belongs to the South of France, Spain, and the Coast of Barbary, and is said to affect wild hilly spots near the sea-shore. It requires some slight protection from hard frost in winter.

In the Spanish Annals of Science the dried plant, reduced to powder, is celebrated as a most efficacious vulnerary; chiefly however used, as it appears by the various attestations of its cures, in the pious practice of the late monasteries.

Lamarck speaks of the plant as a dwarfish herbaceous perennial, remarkable for its prickly pointed calyx and heathlike foliage; and describes it with a *rootstock* bearing several *stems*, of a somewhat woody consistence at the base, where they begin to divide into branches, more or less upright, from 5 to 8 inches long, round, ash-coloured or sometimes with a tinge of red, and full-leaved throughout their whole length. *Leaves* numerous, scattered, small, linear, narrow, for the most part entire; the upper ones in the wild plant being however edged with sharp prickly teeth. *Flowers* either of a red or else blueish purple, nearly sessile, and disposed at the top of the stem in close-set heads or ovate spikes. *Calyx* subventricose, five-toothed, with prickly diverging points from the base of the teeth. *Corolla* tubular, irregular, sloping; *tube* the length of the calyx; *limb* 5-parted, segments short, oblong, obtuse, one-notched, uneven; *stamens* but little shorter than the corolla, inserted on the tube, sloping in an opposite direction to the slope of the limb of the corolla; *anthers* nearly round. *Germen* globular, superior (within the calyx); *style* the length of the stamens; *stigma* simple, thickened. *Capsule* globular, concealed within the calyx, one-celled, 5-valved: *seeds* ovoid.

The drawing was made from a plant obligingly sent by Mr. Lambert from Boyton, in Wiltshire.



Det. by J. Kuhn 170 Lincoln City May 1. 1821.

J. Mott.

LOBELIA siphilitica.

Blue American Lobelia.

PENTANDRIA MONOGYNIA (v. Monadelphia Pentandria v. Syngenesia Monogamia).

Nat. ord. CAMPANULACEÆ. Jussieu gen. 163. Div. II.—Brown prod. 1. 559. Sect. II. Cor. irregularis (nunc 5petala). Anth. sæpè connatæ.

LOBELIACEÆ. Jussieu in ann. du mus. 18. 1.

LOBELIA. Suprà vol. 1. fol. 60.

L. siphilitica, caule erecto, foliis ovato-oblongis utrinque acutis inæqualitèr serratis, floribus axillaribus solitariis, calycum sinibus reflexis pedunculisque hirtis. Willd. enum. 1. 217.

Lobelia siphilitica. Lin. sp. pl. ed. 2. 2. 1320. Willd. sp. pl. 1. 945. Lamarck encyc. 3. 586. Jacq. coll. 1. 163. ic. rar. 3. t. 597. Michaux bor. amer. 2. 151. Hort. Kew. ed. 2. 1. 359. Pursh amer. sept. 2. 447. Nuttall gen. 2. 75.

Lobelia caule erecto, foliis ovato-lanceolatis crenatis, floribus lateralibus. Lin. hort. cliff. 426. Gron. virg. ed. 2. 134; (mutato caractere specifico ex hort. cliff. malè citato adque LOBELIAM erinoidem referente, exclusisque synonymis cunctis præter Claytoni.)

Rapunculum siphiliticum. Gært. sem. 1. 152. t. 30. fig. 9.

Rapunculum americanum flore dilutè cæruleo. Dodart. mém. 105. Rob. ic. 264.

A hardy perennial, cultivated as far back as 1665; having been brought from America, where it is in great repute among the Indians for its medicinal virtues; the secret of which however, after having been purchased by Sir William Johnston, does not seem to have been confirmed by European practice. The plant grows to two feet or more in height, abounds with milky juice, and has a rank smell. The root, the part used as medicine, is described by Dr. Woodville as having the taste of tobacco, and as being apt to excite vomiting.

According to Pursh the species is found from New York to Carolina; affecting low grounds on the banks of rivers and the vicinity of springs.

The drawing was taken at the nursery of Messrs. Colvill.

The following view of the general structure of the

genus is from a note appended to its technical character in Mr. Brown's Prodrusus.

“ The corolla of the species belonging to Europe, Asia, and Africa, is either white or blue; but in some from America red. Its tube, which in the greater part of the species is cloven the whole way, is sometimes only divided as far as the middle, and in some few (not distinguished from the rest by any other point of mutual concurrence) quite entire. Its limb is generally two-lipped with a smaller (seldom larger) upper lip, sometimes only one-lipped, seldom approaching to a completely regular form. The stamens, which are usually detached from the corolla, are sometimes attached to it as far as the middle of the tube: the filaments are either quite apart or conjoined above: the anthers are either all bearded, or only the three uppermost, and sometimes none, the two lower ones are now and then mucronate (special pointed). One species is dioicous. Some of the South African suffrutescent ones have a capsule more than half superior; and the only herbaceous one from that quarter has a cylindrical capsule divided its whole length into two valves, notwithstanding its being almost completely inferior. Some of the New Holland ones have the top of the peduncle sloped in such way, that the receptacle of the seed seems as if it originated at the middle of one side.” (*From the Latin*).

LOBELIA had been removed by M. de Jussieu (in the tract above quoted) from *Campanulaceæ*, and combined with *Goodenoviæ* of Mr. Brown into an order under the title *Lobeliaceæ*. The affinities upon which this exclusion and recombination proceed, are scrutinized by Mr. Brown with great candour and learning in his General Remarks on the Botany of Terra Australis, where, to our conviction at least, they are shown to have been assumed in part from unsubstantial and in part misconstrued appearances, while genuine relations have been overlooked.

If LOBELIA is to be removed from its former station, it must be to found a distinct order, certainly not to be amalgamated with *Goodenoviæ*. We regret that we have not room even for an abridgment of Mr. Brown's remarks.



ROSA lawranceana.
Miss Lawrance's Rose.

ICOSANDRIA POLYGYNIA.

Nat. ord. ROSACEÆ. Jussieu gen. 334. Div. II. Rosæ.
 ROSA. Suprà vol. 6. fol. 458.

Div. IX. Caninæ. Aculei æquales adunci. Foliola ovata eglandulosa serraturis conniventibus. Foliola calycina decidua. Discus incrassatus faucem claudens. Surculi majorum arcuati. Lindley monogr. 97.
 R. lawranceana, nana; foliolis ovatis acutis argutè serratis, petalis acuminatis, ovariis 7-8. Lindley loc. cit.
 Rosa lawranceana. Sweet hort. sub. lond. 119.
 Rosa semperflorens; γ. minima. Curtis's magaz. 1762.
 Rosa pusilla. Mauritius catal. 15?

“ A very low, compact, little shrub, rarely exceeding a foot in height. The prickles are large, stout, and nearly straight. Leaflets ovate, acute, flat, very finely toothed. Petals small, pale-blush, pointed: germens 7-8. Otherwise with the characters of ROSA semperflorens, from which I nevertheless have no hesitation in separating it. The difference in number of germens in this division appears constant, and therefore important. Mr. Sweet introduced it from the Mauritius (Isle of France), some years ago, and it may be the ROSA pusilla of the Catalogue of the Botanic Garden there. China is probably its native country, as it approaches so very nearly to ROSA semperflorens.” Lind. mon. l. c.

The species was named by Mr. Sweet in the “ Hortus Suburbanus Londinensis” in compliment to Miss Lawrance, the fair artist, by whom “ The Collection of Roses from Nature, with 90 plates” was executed.

The plant's being specifically distinct from ROSA semperflorens is much doubted among the cultivators of this genus. We ourselves have no opinion upon the subject.

The drawing was made at the nursery of Messrs. Colvill, in the King's Road, Chelsea.

The shrub requires nearly the treatment of the well-known *ROSA semperflorens*; being evidently not so hardy as the favourite *ROSA indica*.



In fol. 532, 2d page of the 2d leaf, line 1, for "and which florets are, &c. &c." read "and the florets within all &c. &c."



PRIMULA prænitens.

Chinese Primrose.

PENTANDRIA MONOGYNIA.

Nat. ord. LYSIMACHIÆ. Jussieu gen. 96. Div. II.

PRIMULACEÆ. Brown prod. 1. 427.

PRIMULA. *Umbella* involucrata. Cor. hypocrateriformis; tubo cylindrico calyce longiore: fauce eglandulosâ: limbo 5-fido: laciniis emarginatis. (Stam. limbi laciniis opposita. Brown). Stigma globosum. Caps. 1-locularis, dentibus 10-dehiscens. Lehmann prim. monogr. 16.

P. prænitens, (pubescens, umbellâ nunc bis proliferâ:) calyce membranaceo, ovato, ventricoso, indefinitè multifido; fœto capsulâ, inflato-distento: corollæ laciniis supernè inciso-dentatis.

Tota præter corallam plus minùs pubescens. Folia petiolata, radicalia, ambientia, sparsa, lato-cordata, lobata lobis pluribus (9?) rotundatis inæqualitèr dentato-incisis, suprâ nudiuscula; petioli longiores laminâ, pilosi. Scapus (nunc plures) folia exsuperans, erectus, simplex v. proliferus, pilosus, rotundatè angulosus. Umbella multiflora, laxa, pedunculis filiformibus pilosis, flore longioribus: involuc. duplo umbellâ brevius, foliolis oblongis inæqualibus supernè dentato-incisis, interioribus tot quot pedunculis. Flores lilacino-rubentes, diametrum sesquiunciale nunc excedentes, subtùs carneo-pallentes. Cal. subvirescens, pilosiusculus, nervis parallelis indefinitè plurimis alternè tenuioribus striatus, corollæ tubum æquans, primùm ovato-ventricosus subanguloso-plicatus (plicis tot quot dentibus), deindè cum incremente fructû extumescens, multifidus lobulis indefinitis acutis tot quot nervis alternis crassioribus, fundo lato planiusculo intruso. Coræ. limbus explanatus maculâ fulvâ in disco, laciniis lato-cordatis, margine superiore dentatis. Stam. et pist. non licuit inspicere. Caps. (nondum benè maturatam vidimus) crustacea, glabra, calyce vestita, oblato-ovata, valvulis 10 dentiformibus parvulis apice dehiscens, pallido-fusca.

Drawn from a plant (we believe the only one in the country) which flowered last March in the collection of Mrs. Palmer, at Bromley in Kent. It had been brought by Captain Rawes from the gardens at Canton, where it probably found its way from some far more northern quarter of the Chinese empire; none of this generic type having, we believe, been observed as native of the levels of so low a latitude. Samples in a dried state had been previously transmitted by Mr. Reeves, a gentleman in the employment of the East India Company at Canton.

This very elegant species differs considerably in character from all which are known, but comes the nearest to

the *cortusoides* of Siberia, especially in regard to foliage and pubescence, as well as habit of growth; but the indefinitely numerous segments, inflated distention of the calyx, progressive with the growth of the fruit within it, and toothed margin of the divisions of the corolla, still render it a striking anomaly among its congeners.

The plant not having been yet known in its wild state, can we be sure that the multiplication of the segments of the calyx does not arise from luxuriance, induced by exotic cultivation? In regard to the number of the teethlike valves by which the capsule opens at the summit, it is true to the generic type.

We should have continued the name of *sinensis*, by which the species was mentioned to us by Mr. Sabine; but we find a PRIMULA of that title in the Flora Cochinchinensis of Loureiro; an author, it is true, who cannot be deemed any great authority in regard to this genus, having registered the now well-known HYDRANGEA *hortensis* under that head, by the specific denomination of *mutabilis*. But still it is possible his PRIMULA *sinensis* may be of the present genus; and at all events our plant has not been published by that name.

The Monograph of this genus by M. Lehmann, contains 42 species, exclusive of the present and another from Terra del Fuego, recorded in the Banksian' Manuscripts as PRIMULA *antarctica*.



M. Hart, del.

Drawn by J. B. Murray 17/1 Siccaithy May 1. 1821.

J. W. Smith.

IXORA rosea.

Pink-flowered Highland Ixora.

TETRANDRIA MONOGYNIA.

Nat. ord. RUBIACEÆ. *Jussieu gen.* 196. *Div.* VI.
 IXORA. *Suprà vol.* 2. *fol.* 100.

I. rosea, foliis subsessilibus oblongis acutis basin versùs angustatis cum sinu obsoleto, subtus villosis; cymis supradecompositis amplis laxis, terminalibus et in latere exteriori ramorum axillaribus: limbi laciniis oblongis, cuneatis, acutis. *Wallich in flor. ind. roxb.* 1. 398; (*è text. angl. vers.*)
 Matti-chāndā. *Khasee.*

Frutex robustus ramosus sub4pedalis cortice scabro brunneo; rami novelli villosi cinerei. Fol. patentia, coriacea, firma, 5-6 uncialia latitudine biunciali, fusco-virentia, suprà glabra nitida, subtus pallida, villosa pube ad nervos conspicuore: pet. crassi lignosi lineâ unâ vix longiores: stipulæ lato-ovatae, villosæ, acumine subulato-elongato. Cymæ rotundatae, folia æquant, pedunculatae, brachiato-trichotomæ, patentis, rubidæ, villosæ, pedunculo communi subunciali: flores carnei, numerosi, apice pedicellorum per trinos sedentes: bracteæ oppositæ, lanceolatae, margine ciliolato connexæ. Cal. parvulus, oblongus denticulis 4 ciliolatis rubidis, bracteolis binis appressis subtensus, ciliolarum subulatarum crassarum sphacelatarum seriem in fundo suo celans. Cor. extus villosa; tubus gracilis, unciâ longior; limbi lac. glabræ, patentis, 4-plo ferè breviores tubo. Fil. reflexa: anth. linearisagittatae. Stig. rubicundum. (*E text. angl. vers.*)

Drawn last summer in the hothouse of the nursery of Messrs. Barr and Brooks, Newington Green.

A species now first introduced from the East Indies, where it is said to be native of the Highlands on the N. E. confines of Bengal, and to have been sent from thence to the botanic garden at Calcutta, by Mr. R. Smith, in 1815. It was first taken up by Dr. Wallich, among the additions he is making to the "Flora Indica" of Roxburgh, during the progressive publication of its volumes. Several well-preserved samples are deposited in the Lambertian Herbarium, the rich stores of which are constantly accumulating under the arrangement of its diligent and intelligent guardian, Mr. Don.

Rosea must not be confounded either with the pink variety of *cuneifolia*, or with that of *coccinea* (*flammea* of Smith, Rees's cyclop., *chinensis* of Lamarck in encyc. 3. 344,

and *stricta* of Roxb. in fl. ind. 1. 388) formerly distinguished as *incarnata* by Roxburgh, and still continued under that name by Sir J. Smith in Rees's Cyclopædia.

The fur on the young branches, peduncles, calyx, flower, bractes, and under side of the leaves, is too fine and inconspicuous to be satisfactorily expressed in our engraving, though plain enough, upon attentive observation, on the plant itself, of which it forms a distinguishing feature.

“ An erect, strong, branchy *shrub*, about 4 feet high,
“ with scabrous, brown bark. The *younger branches* pu-
“ bescent, slightly compressed towards the insertion of the
“ leaves, ash-coloured. *Leaves* subdecussate, spreading,
“ leathery and firm, 5-6 inches long, about 2 broad, taper-
“ ing towards the base, and there rounded or slightly emar-
“ ginate, dark green, bullate, smooth and shining above,
“ pale and pubescent underneath, especially along the mid-
“ rib and numerous nerves: *petioles* thick and woody,
“ scarcely more than a line long: *stipules* broad-ovate, pu-
“ bescent, ending in a long subulate adpressed point, con-
“ nected and stemclasping by means of a narrow membrane,
“ continuing within the base of the petioles, and concealing
“ a series of small rust-coloured cilia. *Corymbs* round, as
“ large as the leaves, mostly elevated on a peduncle, with
“ trichotomous brachiate spreading pubescent reddish pe-
“ duncles, the lower ones an inch long; the whole forming
“ an ample terminal inflorescence of innumerable beautiful,
“ pale rose-coloured, ternate, sessile flowers: *bractes* op-
“ posite lanceolate, connected by a ciliated margin. *Calyx*
“ very small, oblong with 4 reddish lanceolate ciliated
“ teeth, supported by 2 adpressed bractes at the bottom,
“ within which there is a series of fleshy, subulate, wither-
“ ing and sphacelated *cilia*, as in the *Asclepiadæ* and *Apo-*
“ *cynæ*. *Corolla* pubescent; tube slender a little more than
“ an inch long; *segments* smooth spreading, at last re-
“ flexed, equalling $\frac{1}{4}$ of the tube in length. *Filaments* re-
“ flexed: *anthers* linear-sagittate. *Stigma* reddish.” *Wal-*
lich.



COLCHICUM arenarium; β . umbrosum.*Crim Meadow-saffron.*

HEXANDRIA TRIGYNIA (v. modò MONOGYNIA).

Nat. ord. JUNCI. Jussieu gen. 43. Div. IV.

MELANTHACEÆ. Brown prod. 1. 274.

COLCHICUM. Cor. semisubterranea, infundibuliformis, disjunctis laciniarum unguibus hexapetala, vel istis in tubo conjunctis 6-fida. Stam. summo ungui v. tubo inserta: anth. introrsæ, erectæ v. subincumbentes sæpiùs mobiles. Styli 3 filiformes, vel nunc unus; stig. 3 linearia canaliculato-continua obtusa replicata. Caps. membranacea, oblonga, acuminata, triloba lobis unilocularibus, nunc inflatis, ad axim connexis, per suturam interioriorem dehiscentibus: sem. numerosa, subglobosa, loculamentorum marginibus intimis annexa.

Bulbo-tuber TULIPÆ simile, ovato-acuminatum, basi obliquatum, à margine altero attenuato-producto radicans, tunicâ crustaceo-membranaceâ vestitum, sobolem gemellam utrinque de basi enixum post peractam fructificationem emoriens. Fol. carnosula, 3-plura, alterna, infernè caulina, linearia angusta ad elliptica lata, plus minus tardiora flore, fructus contemporanea, basi vaginantia. Caulis florifer humo latens, fructifer prominens. Flores 1-plures, spathacei, terminales, majusculi, recti, rubentes v. candicantes.

C. arenarium, 4-folium, uni-bi-(pluri?)florum; foliis ligulato-lanceolatis, staminibus ter ferè corollæ limbo brevioribus, subæquantibus stigmata.

(α) sæpiùs uniflorum, flore violaceo-purpurascente, limbi laciniis lanceolatis, foliis canescentibus.

Colchicum arenarium. Wald. et Kitaib. pl. rar. hung. 2. 195. t. 179. Willd. in mag. d. gesell. nat. fr. zu berl. 1808. 26. ejusd. enum. 1. 401.

(β) bi-(pluri?)florum, flore dilutè purpurascente, limbi laciniis lineari-oblongis obtusis; foliis gramineo-virentibus.

Colchicum umbrosum; (e Tauriâ). Titulus quo de Moschá missum fuit exemplar D. Griffini.

Colchicum autumnalis var^s. floribus vulgò pluribus simul erumpentibus duplo minoribus staminibus pistillo æqualibus. Marsch. bieb. fl. taur. cauc. suppl. 281.

Drawn at Mr. Griffin's, where the plant had been received from Moscow, under the title of *COLCHICUM umbrosum*, and marked as native of the Crimea. It is quite new in our gardens. Like most of this genus, it produces the flower in the autumn and the leaves the ensuing spring. We believe it to be the same as the plant cited from Marschal's Flora, and possibly a variety of the Hungarian plant; although of this fact we have considerable doubt; the two differing not only in colour of the flower, but also

in that of their foliage, and the segments of the limb being of a different form in each. As this point however cannot at all events be satisfactorily decided without a mutual comparison of their samples, we have placed the two distinctly under the same specific head.

SPECIES.

- Merendera.** *Nob. MERENDERA Bulbocodium. Redouté liliac. tab. 25. Colchicum montanum minus versicolore flore. Clus. hist. 1. 200. cum ic.*
- Bulbocodium.** *Nob. in Curtis's magaz. fol. verso 1028. BULBOCODIUM vernum. Curtis's magaz. 153. Willd. sp. pl. 2.*
- montanum*.** *Lin. sp. pl. ed. 1. 1. 342. Willd. sp. pl. 2. 273. Clus. hist. 1. 200.*
- arenarium.** *In loco presenti.*
- alpinum.** *Redouté liliac. 8. tab. 467.*
- variegatum.** *Nob. in Curtis's magaz. 1028. Willd. sp. pl.*
- autumnale.** *Engl. bot. tab. 133.*
- polyanthon.** *Nob. in Curtis's magaz. fol. verso 1028. Colchicum pannonicum. Clus. hist. 1. 199.*
- byzantinum.** *Nob. in Curtis's magaz. 1122. Clus. hist. 1. 199, 200.*
-

TULIPA and **COLCHICUM** have no recorded representatives in America, nor within the tropics of either continent. The two appear to be nearly coextensive in their distribution, and limited to the temperate regions of Europe and the confining regions of the North of Asia and Africa. The southern part of Russian Tartary seems to be the main hive of the Tulips.

MELANTHIUM, perhaps too artificially separated from **TULIPA** and to which *TULIPA breyniana* has only recently reverted, appears to be restricted to the Cape of Good Hope.

HELONIAS is the nearest co-ordinate type yet found in America.

* This species was taken up by Linnæus from a letter of Læfving's, who describes the flowers and leaves as appearing together in the autumn; whereas, as Mr. Dryander observes, Clusius speaks of his plant as producing the flowers before the leaves, which however come up immediately after, during the autumn, and do not await, as usual in the genus, the spring, but grow on through the winter. A difference which, according to Mr. Dryander, makes the synonym from Clusius doubtful.



M. Hart. del.

Pub by J. Ridgway 170 Piccadilly June. 1. 1821.

J. Walts sc

OSBECKIA chinensis.

Chinese Osbeckia.

OCTANDRIA MONOGYNIA.

Nat. ord. MELASTOMÆ. Jussieu gen. 328. Div. II.

MELASTOMACEÆ. Brown bot. of Congo. 15.

OSBECKIA. Cal. dentibus 4-5 deciduis, squamis totidem intermediis ciliaribus. Petala 4-5. Antheræ rostratæ. Caps. 4-5-locularis, tubo truncato calycis vestita. Smith in Rees's cyclop. in loco.

O. chinensis, foliis sessilibus, calycibus glabris. Willd. sp. pl. 2. 300.
Osbeckia chinensis. Linn. suppl. 215. Osb. it. (ed. angl.) 1. 342. t. 2. f. 1.
 2. et vol. 2. 350. Lamarck illustr. t. 283. f. a. b. c. Loureiro coch. 229.
 Suffrutex? sesqui-bipedalis, debilis, ramosus, distantè foliosus: rami subrubentes, appressè hispidi, 4-goni, axillares, alterni, divisi, patentes. Fol. decussato-opposita, subsessilia, lanceolato-oblonga, 3-nervia, setulis decumbentibus hispida, infra pallida hirsutioraque, margine levissimè crenulata, subsesquiuncialia v. breviora latitudine ferè $\frac{1}{2}$ uncia, divaricato-patentia: petioli subrubentes brevissimi v. subnulli, basi lineâ prominulâ interpetiolaris setis elongatis porrectis ciliatâ per paria utrinque connexi. Flores lilacinorubentes, erecti, terminales, contracto-cymosi; cymæ simplices trifloræ v. compositæ multifloræ foliis cruciatio-quaternis involucriatæ; pari opposito duplo v. ultra minore; pedunculi setis raris hispidi, breves, teretes, bi-trichotomi, pedicellis 1-floris, trichotomiarum lateralibus cum bracteis 2 oppositis ovato-oblongis acutis hispido-ciliatis ad basin. Cal. brevior corollâ, virens; tubo coriaceo-firmo cupulato-oblongo subglabro infra limbum tuberculis paucis seta præfixis hic indè muricato vel nunc uno sub quodque segmentum limbi, persistente; limbo 5-partito stellato, deciduo, segmentis è basi latâ acuminatis, ciliatis, brevioribus tubo, herbaceo-membranosis, ciliatis, setâ elongatâ præfixis cum unâ vel et alterâ ad dorsum, per lobulos totidem intercalares alternos bacilliformes duplo breviores setâ præfixos deciduos interceptis. Cor. imbricato-rotata: pet. 4-6 (rariùs 6), $\frac{2}{3}$ uncia v. circitèr profunda, oblato-rotunda, supernè ciliata, tubo summo calycis inserta, unguiculo obsolete luteo. Stam. 8-10, eodem puncto ac petala, quibus æqualia, inserta; antheræ flavæ introrsæ, lineari-oblongæ, filamentum articulatum impositæ, ante anthesin ad basin germinis usque immerso-inflexæ, deindè arrectæ, rostro continuo cylindrico osculo obliquo patulo forato terminati, ventre corrugato (rugis ex contractione quasi peristalticâ pro polline grumoso fluido per rostri orificium expellendo provenientibus?) Germ. tubo calycino latens, albicans, subrotundum, glabrum, scrobiculis totidem quot antheris exculptum, 5-loc., polyspermum, infernè cum calyce per septa scrobiculorum intergerina connexum, supernè 5-gonum angulis compressis à dorso setosis, setis summis rigidis in coronam strigosam persistentem circa basin styli confluentibus: stylus corollæ æqualis, robustus, teres, glaber, pallidus, deciduus; stig. apex obtusus villosiusculus.

Differs from *zeylanica* by a smooth ribless calyx and nearly sessile leaves; besides being a much larger shrublike plant, from a foot and a half to two feet high.

The flowers vary on the same individual from with four to five, and even six petals, and from with eight to ten stamens. It was observed by Osbeck and Loureiro growing wild about Canton, and is mentioned by the first as an article of the chinese pharmacy.

On the limits, structure, and generic division of the *Melastomaceæ*, the order where our plant belongs, Mr. Brown offers the three following remarks.

“ 1st. The MEMECYLON, as M. du Petit Thouars had already suggested, and PETALOMA of Swartz both belong to this order, and connect it with *Myrtaceæ*, from which they are distinguished only by the absence of the pellucid glands of the leaves and of other parts, existing in all the genera really belonging to that extensive family.”

“ 2dly. There are very few *Melastomaceæ* in which the germen does not in some degree cohere with the tube of the calyx; MERIANA properly so called, being, perhaps, the only exception.”

“ And in the greater number of instances where, though the germen is coherent, the fruit is distinct, it becomes so from the laceration of the connecting processes already described;” (*see vol. 5. fol. 363 (overleaf) of this Register*).

“ 3dly. That the generic divisions of the whole order remain to be established. On examination, I believe, it will be found that the original species of the Linnean genera, MELASTOMA and RHEXIA, possess generic characters sufficiently distinguishing from the greater part of the plants that have been since added to them by various authors. In consequence of these additions, however, their botanical history has been so far neglected, that probably no genuine species of MELASTOMA, and certainly none of RHEXIA, has yet been published in M. Bonpland’s splendid and valuable monographs of these two genera.” *Brown bot. of Congo. 17.*

The corrugation of the lower part of the cells of the mature anther, seems the effect of a kind of peristaltic contraction for the expulsion of the grumously fluid pollen, by the orifice of the pipe at the end of the anther.

Drawn in April last, in the hothouse at Messrs. Colvill’s, in the King’s Road, Chelsea.



WEDELIA hispida:

Rough-furred Wedelia.

SYNGENESIA POLYGAMIA SUPERFLUA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VI.

HELIANTHÆ. Cassini in journ. de phys. 88 (an 1819). 191.

WEDELIA. *Involucrum* (calyx) subsemiglobosum, polyphyllum, laxè imbricatum, foliolis exterioribus sæpè majoribus, patulis. *Recept.* subplanum, paleaceum. *Flosc. disci* tubulosi, hermaphroditi; radii ligulati, feminei. *Achenia* (semina) coronata urceolo minuto, membranaceo, laciniato-fimbriato. *Fruticuli aut herbæ procumbentia, hispida, oppositifolia. Flores terminales aut alares, solitarii, pedunculati, flavi.* Kunth nov. gen. et spec. 4. 214.

W. hispida, foliis lanceolatis aut subovato-lanceolatis, acuminatis, serratis, dente utroque infimo majore; foliolis involucri (calycis) exterioribus lanceolatis aut ovato-lanceolatis. Kunth loc. cit. 215. tab. 371.

Herba ramosissima, procumbens; ramis oppositis, dichotomis, terctibus, striatis, hispidis. Fol. opposita, petiolata, lanceolata, superiora subovato-lanceolata, acuminata, basi valdè angustata et in petiolum decurrentia, infernè integerrima, supernè argutè serrata, dente infimo utriusque lateris majore, reticulato-triplinervia, nervis subtùs prominentibus, membranacea, utrinque hispida, adjecto petiolo bipollicaria, 6-7 lineas lata: petioli breves, hispidi. Flores terminales, demùm alares, solitarii longissimè pedunculati, magnitudine floris BIDENTIS cernuæ: pedunc. 6-8-pollicares, teretes, striati, hispidi, nudi. Invol. (cal.) hispidum, subhemisphæricum, polyphyllum, foliolis laxè imbricatis; 4-5 exterioribus lanceolatis aut ovato-lanceolatis, acutis, planis, membranaceis, integerrimis, hispidis, semipollicaribus; interioribus duplo brevioribus oblongis-scarioso-diaphanis, similibus paleis receptaculi. *Recept.* subplanum, paleaceum; paleis lanceolatis, brevioribus, acutis, carinatis, uninerviis, glabris, scarioso-diaphanis. *Flosc. disci* crebri, tubulosi, hermaphroditi: radii 6-7 (circitèr 15 ex Bonpland) ligulati, feminei. **FLOSC. HERMAPHR.** Cor. flava, glabra; tubo tenui, tereti; limbo infundibuliformi 5-nervio, 5-dentato; dentibus ovatis acutis enerviis puberulis pallidis. *Stam. summo tubo inserta: fil. glabra: anthæ. connatæ, inclusæ, nigricantes.* Germ. lineare, compressum, pilosiusculum urceolo minuto sessili fimbriato terminatum: stylus glaber inclusus: stig. 2 partita exserta, laciniis patenti-recurvatis pubescentibus. **FLOSC. FEM.** Cor. flava; tubo tenui, compresso; ligula oblonga, 2-dentata, plana, patente, sub2nervia, 5 lineas longa: germ. lineare, 3-angulare, glabrum, coronatum urceolo minuto sessili fimbriato: stylus vix exsertus, glaber: stig. 2-partitum, exsertum, laciniis capillaceis. Fructus desideratur. Kunth l. c. 215.

No plant of this genus has been yet noticed as being in our gardens. The introduction of the present species is due to Mr. Lambert, with whom it flowered last summer at Boyton-house, in Wiltshire; whence we had the sample

that has been drawn. The seed had been sent by Professor Lagasca, from Madrid.

Native of New Spain, where it was observed by Messrs. Humboldt and Bonpland in the Valley of Tenochtitl, at the elevation of 1200 fathom above the level of the sea, producing its blossom in June.

A branching hispidly herbaceous plant; branches opposite, dichotomous, round, streaked, rough. *Leaves* opposite, petioled, lanceolate, *upper ones* subovately lanceolate, taper-pointed, very much narrowed at the base and decurrent along the petiole, quite entire below, sharply serrate upwards, the lowest tooth on each side being the largest, reticulately triplenerved, membranous, rough-furred on both sides, together with the petiole about 2 inches long, 6-7 lines broad: *pet.* short. *Flowers* terminal, finally axillary, solitary, long stalked, about the size of those of the Nodding Bur-Marygold: *peduncles* 6-8 inches long, round, fluted, hispid, leafless. *Calyx* rough-furred, nearly hemispherical, many-leafletted; *leaflets* loosely imbricated, 4-5 *outer ones* lanceolate or ovately lanceolate, pointed, flat, membranous, quite entire, rough-furred, about half an inch long; *inner* twice shorter, oblong, scariose, transparent, resembling the chaffs (*paleæ*). *Receptacle* flattish chaffy; *paleæ* lanceolate, shorter, pointed, keeled, one-nerved, smooth, scariose, transparent. FLORETS OF THE DISK numerous, tubular, stamen and pistil-bearing, deep yellow, smooth; *tube* slender, cylindrical, *limb* funnellform 5-nerved 5-toothed, *lobes* ovate pointed nerveless downy pale: *anthers* connate, enclosed, blackish; *germen* linear, compressed, slightly haired, with a small sessile urceolate fringed rim by way of seed-crown: *stigmas* 2, protruded, recurvedly spreading and pubescent: OF THE CIRCUM-FERENCE (RAY) 6-7 (15 according to Bonpland) ligulate, pistilbearing, deep yellow; *tube* slender, compressed, *limb* ligulate oblong, 2-toothed, flat, spreading, with about 2 nerves, 5 lines long: *germen* linear, triangular, smooth, with a small sessile fringed urceolate seedcrown; *style* scarcely protruded, smooth; *stigmas* 2, capillary.

The description is from the latin of M. Kunth.



LEUCOJUM tricophyllum; α ; uniflorum.*Narrow-leaved Spring Snow-flake.*

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. Jussieu gen. 54. Div. II. Germen inferum.

AMARYLLIDÆ. Brown prod. 1. 296. Sect. I. Radix bulbosa. Flores spathacei, umbellati, raro solitarii.

LEUCOJUM. Spatha follicularis, pedunculata, 1-multiflora. Cor. cernua, sexpartita, campanulata, regularis, subæqualis. Fil. disco glanduloso corollæ inserta; anth. apice utrinque dehiscentes. Stig. simplex. Caps. loculamentis biseriato-polyspermis. STRUMARIÆ hinc, indè GALANTHO proximum.

L. tricophyllum, (vernale) petalis integerrimis, stylo filiformi puncto stigmatoso mutico.

Leucojum tricophyllum. Brotero flor. lusit. 1. 552. Nob. in Journ. of scien. and the arts. 1. 175. Willd. enum. suppl. 16.

Leucojum grandiflorum. Redouté liliac. 217.

Leucojum autumnale. Redouté liliac. 150; quoad fig. 2.

(α) uniflorum.

(β) bi-quadri-florum.

Fol. membranacea plurimùm longiora scapo, linearia, obtusula, extùs convexa striata, intùs estriata canaliculata, supernè plana, cinereo-virentia (atomis vesiculosis albidis creberrimis sub lente manifestis connecta). Scapus vernalis, 4-5-uncialis, viridis, teres, erectus. Spatha monophylla; erecta, bifissili-dehiscens: pedunculus firmulus, recurvus. Germ. breve, oblongum, viride, estriatum, exsulcum. Cor. alba, firmula, turbinato-campanulata; laciniæ disco longitudinali crassiore striato absque omni carinâ vel canaliculo, exteriores ovali-oblongæ, acuminatæ, integerrimæ, planæ, mucrone basi uncatò intùs pruinoso; interiores subbreiores, latioresque, obovato-ellipticæ, apice rotundatæ cum mucrone obsoleto, integerrimæ. Stam. recto-conniventia, $\frac{1}{4}$ v. circa corollâ breviora: fil. 3-4-pto breviora antherâ, distantia, curva, compresso-linearia, alba: anth. vitellinæ, majusculæ, sagittato-lineares, basi posticè affixæ, fasciculato-contiguæ, utrinque summitate poro laterali longitudinali dehiscentibus. Discus glandulosus staminifer luteo-virescens 6-crenato-plicatus, lobulis senis filamenta alternè intercipientibus. Stylus albus stamina parùm longior, erectus, 3-sulco-filiformis, apiculo stigmatoso mutico obtuso pruinoso.

Native of Portugal and the Coast of Barbary. Very nearly akin to *autumnale*, but flowers in the spring instead of the autumn; has all the petaloid segments of the corolla entire, instead of the alternate ones indented at the top, and wholly white flowers instead of those tinged with red. The two differ from *vernum* and *æstivum* materially, in having a filiform instead of a clavate style.

The figures of the species in Redouté's work have been taken from dried samples. The drawing of the present variety was made at Mr. Griffin's, South Lambeth, where the bulbs had been obtained from Lisbon; and are, we believe, the first that have been seen in our gardens, at least we find no mention of the species having been ever introduced. We suppose it would do well in the open ground.

Leaves membranous, much longer than the scape, narrowly linear, blunt, convex and fluted on the outside, on the inside streakless and channelled, flat at the upper part, greyish green (viewed through a glass, thickly beset with white minute vesicular particles). *Scape* produced in the spring, 4-5 inches high, upright, round. *Spathe* of one piece; upright, splitting into two segments: *peduncle* stiffish, recurved. *Germen* short, oblong, green, streakless, furrowless. *Corolla* white, firm, turbinate campanulate, *segments* with a thickened fluted longitudinal disk without any keel or channel; *outer ones* ovals oblong, taper-pointed, quite entire, flat, with a frosted pubescent mucro (distinct point), hooked at the base; *inner ones* rather shorter and broader, obovately elliptical, rounded at the point, with a nearly obsolete mucro, quite entire. *Stamens* upright, converging, about $\frac{1}{2}$ shorter than the corolla: *filaments* 3-4 times shorter than the anthers, standing apart, imbowed, compressedly linear, white: *anthers* deep yellow, large, sagittately linear, fixed at the back of their base, fasciculately contiguous, opening on each side at the top by a small rent. *Staminiferous disk* yellowish green, with 6 crenated plaits, and 6 small lobes, which alternate with the filaments. *Style* white, but little longer than the stamens, filiform, three-furrowed, terminated by a small blunt stigmatose tip.



GALANTHUS plicatus.

Russian Snow-drop.

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. *Jussieu gen.* 54. *Div. II.* Germen inferum.

AMARYLLIDÆ. *Brown prod.* 1. 296. *Sect. I.* Radix bulbosa. Flores spathacei, umbellati, rarò solitarii.

GALANTHUS. Corollæ laciniis petalodibus, 3 alternis difformibus. *Nobis in Journ. of science and the arts.* 2. 344. Cætera omnino LEUCOJII quod proximâ STRUMARIÂ differt per spatham follicularem antherasque inversas apice dehiscentes nec non filamentis longiores. *Ovula in G. plicato oblonga rostrata.*

G. plicatus, foliis plicatis: plicâ utrinque margine parallelâ, spatha pedunculum superante. *Marsch. à vieb. flor. taur. cauc. suppl.* 255.

Galanthus plicatus. *Curtis's magaz.* 2162.

Galanthus nivalis. β . *Redouté liliac.* 200. B; (absque icone).

Narcissoleucojum trifolium majus. *Tournef. inst.* 387.

Leucojum bulbosum secundum. *Tabern. krauterb.* 2. 1005.

Leucojum bulbosum præcox byzantinum. *Clus. hist.* 1. 169.

Differt nivali, occidentali Europæ familiari, staturâ in universum majore atque robustiore, foliis latioribus utrinque propè marginem plicâ longitudinali insigni instructis, hinc bicarinatis illinc bicanaliculatis, pedunculo brevioribus, petalorum nectarii plagâ viridi latiore. Discrimina hæc, antiquiorum vestigia premens, nuper agnovit atque culturâ confirmavit amicissimus Fischer. Marsch. l. c.

Tertium genus (GALANTHUS plicatus) secundo (nivali) ferè simile est, ineunteque Martio binâ folia promit illi similia, sed latiora, æruginei etiam coloris, floris gemmam ut in illo complectentia: crassiusculus caulis tandem succrescens, unicum florem vaginulâ inclusum sustinet, formâ nivali similem, duplò ferè majorem, 3 externis foliis alarum modo expansis, prorsus niveis, interioribus verò brevibus, bisulcis ut in nivali, simul coeuntibus, et veluti tubulum quempiam efformantibus, foris plerumque circâ unguis virescentibus, reliquâ parte albis, oras tamen secundum crenas virides maculæ inficiunt, interius verò aut magnâ ex parte viridia sunt, aut octo radiis ab imis unguibus secundum longitudinem ductis prædita: LEUCOJII verni fragrantiam utcunque æmulatur hic flos, et suavius quidpiam spirare mihi videtur: radix nivalis major. Clus. hist. loc. cit.

Many of the plants of Northern Asia, which had found their way into the gardens of the western countries of Europe, through Vienna, and had been registered in the works of the older botanists, having been subsequently lost, are now reappearing amongst us through Moscow, where magnificent botanical collections have been formed, and where the communication with the Asiatic provinces of the Russian

Empire is easy and frequent. The present plant is an instance, among many, of this nature. According to Clusius the species was brought by the way of Constantinople to Vienna, about 1592; but had entirely disappeared, until lately reintroduced through Moscow by Mr. Griffin; with whom it seems to thrive in the open border as well as the common sort; but flowers rather later in the spring.

Plicatus had never been entered as a separate species in any of the botanical works since the promulgation of the Linnean System, till it appeared in the supplement of the *Flora Taurico-caucasica*, where it is distinguished from *nivalis*, by being larger in all its dimensions, by the two curious longitudinal plaits within side the leaves, a shorter peduncle, and the larger green mark of the three smaller petaloid segments of the corolla. Its permanence as a species is said to have been experimentally proved by Dr. Fischer in the Gorenki garden at Moscow.

A native of the Asiatic provinces of the Russian and Turkish Empires.

The genus is distinguished from *LEUCOJUM*, by three alternate segments of the corolla being much smaller than the other three, of a thicker consistence and notched at the end; and from *STRUMARIA* by the anthers being inverted and bursting at the upper end only.

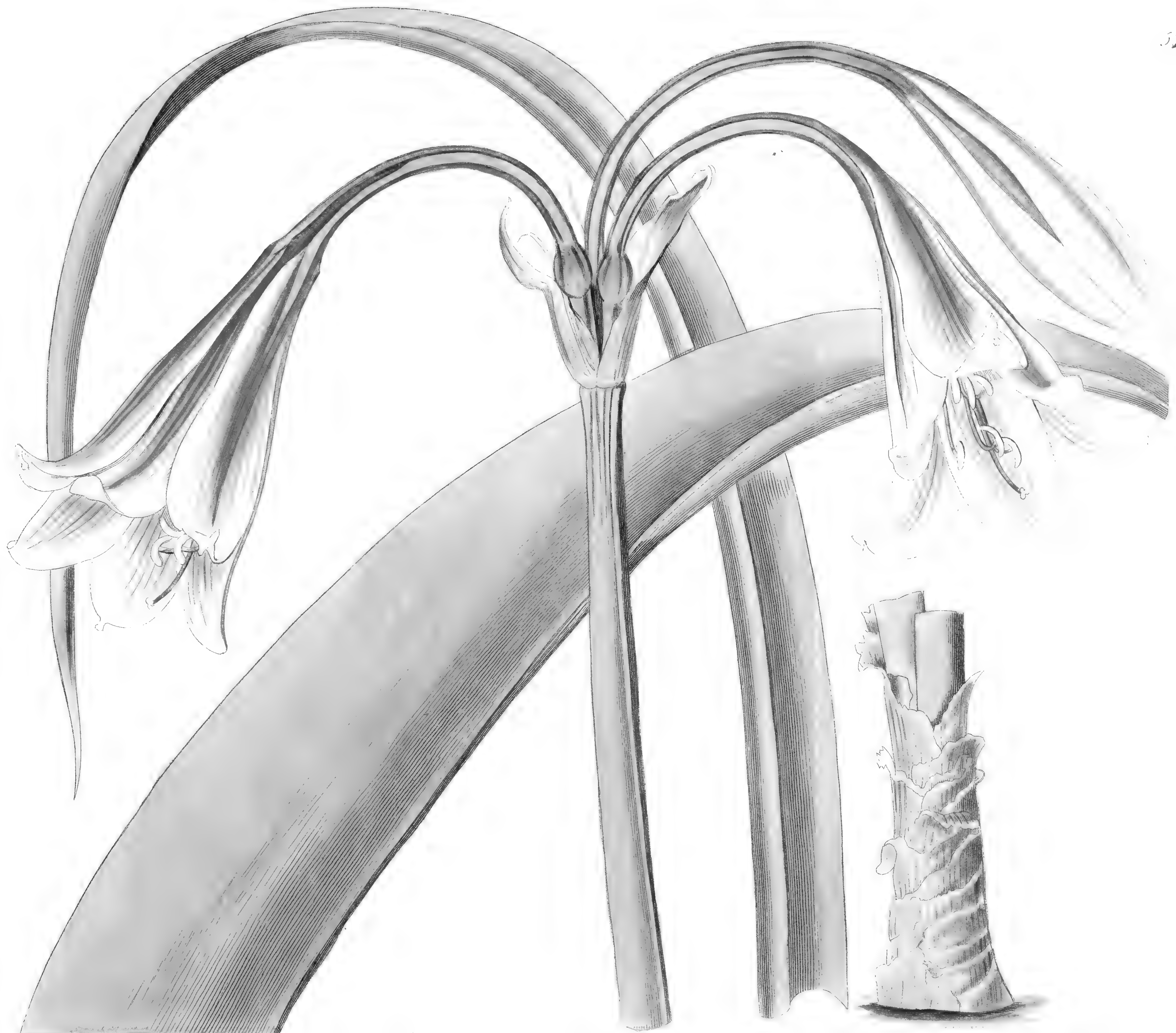


Fig. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Drawn by S. Hensley 170. Printed in May, 1. 1821.

J. Walter sc.

AMARYLLIS longifolia; α . *riparia*.
The Black River Amaryllis.

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. *Jussieu gen.* 54. *Div. II.*

AMARYLLIDÆ. *Brown prod.* 1. 296. *Sect. I.*

AMARYLLIS. *Suprà vol. 3. fol. 226.*

Div. Bulbispermæ; foliis multifariis.

A. longifolia, umbellâ pauci-multiflorâ; foliis lorato-elongatis, lato-subulatis, margine scabris; pedicellis brevibus; limbo corollæ turbinato-campanulato brevior tubo. *Suprà vol. 4. fol. 303.*

Amaryllis longifolia. *L'Heritier sert. angl.* 13. *Hort. Kew.* 1. 419. *ed. 2. 2. 227.* *Jacq. ic. rar.* 2. 364. *ejusd. coll.* 4. 205. *ejusd. fragm.* 3. t. 2. *fig. 1.* *Nobis in Curtis's magaz.* 661. *Redouté liliac.* 347. *Willd. sp. pl.* 2. 56; (*excluso Linnæo cum synonymis suis BRUNSVIGIAM falcata tam intelligente*). *Nobis in journ. of science and the arts.* 2. 366.

Amaryllis bulbisperma. *Burm. prod.* 9.

Amaryllis capensis. *Mill. dict. ed. 8. n.* 12.

Crinum capense. *Herbert in Curtis's magaz.* 2121. 5.

(α) *minor*; bulbo instar caudicis elongato, angusto; foliis glaucis, germine colorato brevior pedicello.

Amaryllis riparia. *Burchell MSS.*

Crinum capense. β . *Herbert. l. c.*

(β) *major*; foliis glaucis, germine viridi brevior pedicello. *Nob. in Curtis's magaz. l. c.*

(γ) *maxima*; longiflora, foliis non glaucis, germine lucido absque omni sulco v. gibbositate. *Suprà vol. 4. fol. 303.*

Crinum longiflorum. *Herbert loc. cit.* 6.

In the 1443d article of Curtis's Botanical Magazine, we have shown the Linnean AMARYLLIS *longifolia* to be BRUNSVIGIA *falcata* (the subject of that article), and the present species to have been erroneously put in its place by succeeding writers. The substitute having however circulated by the title of the true one in the Hortus Kewensis, Sertum Anglicanum of L'Heritier, Icones rariorum Plantarum of Jacquin, and all succeeding botanical systems, the true plant proving, besides, reducible to a different genus from AMARYLLIS; we have deemed it the best correction of the error, to restore the mutual synonyms to their respective species, without transposing a specific name by which one plant had been forgotten and another become universally known.

Whether our plant is a modification of the species for which we give it, or founds another, the safest course in all such ambiguous relations still seems to us to be, to deposit, while the confirmation of experience is awaited, the objects under a same specific head, noting each apart and duly expressing their mutual differences. The record of their existence is thus distinctly preserved in the system, while the risk of adding to the mass of iterated and fallacious species is diminished.

The figure was drawn from a flower produced by a bulb brought by Mr. Burchell from South Africa; and found in a tract of country till then untraversed by any European. Mr. Burchell's memorandum concerning the plant is in the following words: "I met with it in large bunches on the banks of the Nu-gariep or Black-river, at the place which I have distinguished in my map by the words 'Amaryllis Station,' in lat. 29° 30' S. and long. 24° 48' E. It grows in situations similar to those occupied by the Common Yellow Flag (*IRIS Pseud-Acorus*) along the rivers of this country, and is frequently under water whenever the river rises a little above its ordinary level."

The present is the smallest of the three presumptive varieties already comprehended under this specific head; of which having already treated generally in the 303d article of this publication, we shall refer to that place.

◆
NOTE.

In the 2121st article of Curtis's Botanical Magazine (page 5), it is asserted by Mr. Herbert, that the plant figured in the 1178th plate of that work (for the annexed account of which we are responsible) is not *AMARYLLIS revoluta*, for which we have given it, but *AMARYLLIS longifolia*; and that he knows the fact by having seen the very plant from which the drawing was taken at Mr. Woodford's. An assertion certainly grounded in error, the plant from which that drawing was done being clearly the *AMARYLLIS revoluta* of the Hortus Kewensis and L'Heritier, the prototype sample of which is preserved in the Banksian Herbarium, where we compared our plant when we gave that account. It differs from *longifolia* by having a tube shorter, instead of longer, than the limb. There is also a drawing of the Kew plant by Mr. Bauer in the Banksian Museum, now the property of Mr. Brown, and with this we also compared it. The corolla is seldom conspicuously revolute except in weakly flowered samples, or when the flower is fading. The very plant from which the drawing was made, or else one of its offsets, is now in the possession of Mr. Griffin, at South Lambeth. Whether it is Mr. Herbert's *revoluta* or not, we do not pretend to know, but are clear it is of the species intended by the propounders.

The subjoined Synopsis of the first section of *Amaryllideæ* is somewhat fuller than we formerly offered in the Second Volume of the "Journal of Science and the Arts."

Synopsis generum sectionis primæ Amaryllidearum.

- CALOSTEMMA.** *Germen uniloculare.*
PANCRATIUM. *Corona filamentorum connectilis.*
EUCROSIA. *Stamina exserta declinata; corona filamentorum connectilis sinû profundo ad latus superius interrupta.*
NARCISSUS. *Filamenta libera intra tubum corollæ inserta, coronâ inclusa.*
STERNEBERGIA *. *Semina strophiolata.*
AMARYLLIS. *Limbus turbinato-patens. Filamenta libera summo tubo infra faucem inserta.*
GRIFFINIA. *Stamen unum assurgens, cætera declinata: semina ventricosa integumento exteriori ad ventrem longitudinalitèr incrassato.*
BRUNSVIGIA. *Capsula cum pedicello clavatim continua; triquetra lobis compressis, oligosperma.*
CYRTANTHUS. *Corolla clavato-infundibuliformis limbo breviori fauce; filamenta faucis supra tubum inserta.*
CRINUM. *Corolla hypocrateriformis limbo regulari.*
HÆMANTHUS. *Capsula baccata, loculis monospermis. (Ovula germinis nunc summo angulo loculamenti singuli annexa).*
STRUMARIA. *Stylus v. strumosus v. strictissimus cæterisque sectionis ordinalis crassior.*
LEUCOJUM. *Antheræ apice dehiscentes.*
GALANTHUS. *Corollæ laciniis petalodibus tribus alternis difformibus.*

* Comprising the first section of *AMARYLLIS*, as combined by us in a review of that genus in the Second Volume of the Journal of Science and the Arts.



CAMELLIA Sasanqua; β . *stricta*: fl. pl. carneo.

Mrs. Palmer's Camellia.

MONADELPHIA POLYANDRIA.

Nat. ord. AURANTIA. *Jussieu gen.* 262. Div. III. Fructus polyspermus capsularis. Folia non punctata. Genera AURANTIIIS et MELIIS affinia.

CAMELLIÆ. *Decand. theor. ed.* 1. 214.

THEACEÆ. *Mirbel in nouv. bullet.* 3. 382.

Camellia Sasanqua. *Vide supra vol.* 1. fol. 12.

(β) *stricta*; ramis calycibusque lanuginosis; floribus plenis carneis.

Camellia Sasanqua; β ; *flore incarnato multiplici.* *Curtis's magaz.* 2080.

The plant being known to us only in the imperfect state of a double or rather full flower; we can scarcely form a conjecture, whether it is a distinct species or a mere variety of some one already known. It seems to differ from *japonica* in being altogether smaller, and in having the upper branches and calyx furnished with a fine downy fur; it differs also from *Sasanqua* in the habit of growth, which is rigid and compact, and not productive of long twiggy recumbent branches, and as Mr. Sweet observes, in not having in any way the outward port of that species. Kempter speaks of his *Sasanqua* as having red flowers, but then it is very doubtful to what species his plant may belong. When we speak of *Sasanqua*, we mean the plant already figured in this work (vol. 1. fol. 12) under that name; and to that species we do not believe our plant belongs; and merely continue the name because we find it already published, and are still unable to say where the plant should be placed. It is a very beautiful shrub, and flowers freely and abundantly in April and May. We believe there is no sample of it in Europe, except the one in Mrs. Palmer's collection at Bromley, in Kent, from which our drawing was taken. It had been brought from China

by Captain Rawes, along with the *PRIMULA prænitens* published in the preceding fasciculus.

If we at any future period should obtain further information concerning the true place of this plant in the genus, we shall carefully communicate what we learn to our readers.



DENDROBIUM cucullatum.

Lady Banks's Dendrobium.

GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDÆ. *Jussieu gen.* 64. *Brown prod.* 1. 309. *Sect.* V. Monandræ. *Anthera* terminalis, mobilis, operculiformis, decidua. *Pollinis* massæ cereacæ, læves. *Parasiticæ, pauca Terrestres.* *Brown loc. cit.* 330.

DENDROBIUM. *Labellum* ecalcaratum, articulatum cum apice processûs unguiformis, cujus lateribus petala antica adnata, calcar emulantiâ. *Massæ pollinis* 4, parallelæ. *Brown in Hort. Kew. ed.* 2. 5. 212.

OBS. *Genus* forsan dividendum. *Species* enim *labello* postico (*floribus* resupinatis *secund. Auct.*) aliquantulum differunt structurâ *antheræ.* Ad hanc *phalangem* ferè omnes *species* *Novæ Hollandiæ* pertinent, in quibus *racemi* oppositifolii, nec *axillares* vel verè *terminales* sed *instar ramorum* ex *opposito latere articuli caulini* orti. *Brown prod.* 1. 332.

D. cucullatum, caulibus pendulis, foliis bifariis lanceolatis acuminatis, pedunculis oppositifoliis subbifloris, labello indiviso circumscriptione ovato basi cucullato. *Brown MSS.*

We were favoured with this curious and handsome plant from the collection of Lady Banks at Springrove; where it is cultivated, like the other tropical parasites of that establishment, by being suspended in a wicker basket from the rafters of the hothouse; and, we believe, has never been known to have flowered any where else in this country.

It is said to be in several collections, and to have been generally conceived to be *DENDROBIUM Pierardi* of the unedited part of Roxburgh's *Flora Indica*; and which, according to Mr. Brown, to whom, as in so many instances, we are indebted for all we have to say of the subject, it is possible it may really be; but finding by both figure and description, the flowering stems of that species represented as leafless, the lamina of the labellum of an obovate form, and leaves as emarginate, while in the present plant the flowering stems are in full leaf, its labellum of an ovate outline, and its leaves taper-pointed, he has deemed it safer to regard the present sample as belonging to a distinct species.

DENDROBIUM ranks in Mr. Brown's fifth section of *Orchideæ*, distinguished by "a terminal moveable lidshaped deciduous anther; *pollen-masses* of a waxen consistence and smooth surface; and by its species being nearly all parasitical." In the sectional group, the genus is marked by the same author, as having "a spurless label connected by a joint with the top of the unguislike process, to the sides of which the front-petals are attached in such way as to afford the appearance of a true orchideous spur; and 4 parallel *pollen-masses*." *Cucullatum* is specifically distinguished by Mr. Brown, "as having loosely hanging stems, lanceolate taper-pointed leaves disposed in two ranks, peduncles placed opposite to the leaves, and generally 2-flowered, and an undivided label with an ovate outline and cowled base."

The stem of our plant had been tied up to a garden stick for support on its removal to London, and in this position it is shown by our draughtsman; but when growing naturally in its station on the trunks or branches of the vegetables it affects in its native India, the stems are said to hang loosely down.



IRIS arenaria.
Hungarian Sand-flag.

TRIANDRIA MONOGYNIA.

Nat. ord. ENSATÆ. Lin. ord. nat. VI. Nobis in ann. of bot. 1. 219.
IRIDES. Jussieu gen. 57. IRIDEÆ. Brown prod. 1. 302.
IRIS. Suprà vol. 3. fol. 246.

Div. Rhizoma elongatum crassum solidum horizontale, rariùs caudescens: folia ensiformia, collateral-disticha. Subdiv. Barbatae v. subbarbatae. Nob. suprà vol. 5. in append.

I. arenaria, foliis scapo brevissimo bifloro longioribus, flore superiore abortiente. Kitaib. et Waldst. pl. rar. hung. 1. 57. t. 57.

Iris arenaria. Vahl enum. 2. 134. Willd. enum. 1. 62. Nobis suprà vol. 5. in append. fol. 1. vers. Redouté liliac. 296.

Rhizoma horizontale, secundùm latus superius multiceps. Scapus sesqui v. biuncialis, pennam corvinam v. circitèr crassus, teres, nitidus, viridis, simplex, brevior foliis. Folia pauca, angusta, lineari-ensata, obsoletè nervosa, erecta, subtriuncialia, pallidè virentia. Spatha 3-valvis, herbacea, convoluto-conduplicata, lanceolata, laevis, biflora, valvâ interiore apice fissâ. Flores pedunculati, pallidè flavi, odorem strenuum haud ingratum spirantes, erecti, cum tubo simul sumti subsesquiunciam longi, primarius effectus v. semina non perficiens, alter, postridie v. seriùs evolendus, fertilis: pedunculi inclusi, longitudine ferè germinis atque tubi. Germ. inclusum, viride, $\frac{1}{2}$ unciae longum, cum tubo corollae æquabilitèr continuum, oblongum, pennam corvinam crassitiè parùm excedens, rotundatè 3-gonum, faciebus interangularibus costâ saturatiore vix prominulâ percursis; loculamenta biseriato-poly-sperma. Cor. infundibuliformis: tubus inclusus, pallidè virescens, cuniculatus, pennam corvinam crassus, infernè versùs subattenuatus, 3plo brevior limbo: limbus infernè turbinato-divergens, supernè recurvato-patens, lacinae equilongae, exteriores 3 barbatae, $\frac{1}{2}$ circa latiores, $\frac{1}{2}$ unciae v. circa latae flavedine paucillò intensiore lutescentes, cuneato-oblongae, ungue cum laminâ recurvâ retusâ æquabilitèr continuo et venis atque punctis purpureis ad latera picto; barba fasciata flava angusta pilis inferioribus (ob pollinis cinerascens aspersione?) fusco apiculatis; interiores 3 angustiores, cuneato-ligulatae, undulatae, supernè recurvae, apice crenulato-erosae, ungue angusto, inflexo-canaliculato, 3plo brevior laminâ, purpureo picto. Stigmata pallidiora, barbam æquantia, segmentis lanceolatis, acuminatis, erecto-recursis; labium exterius membranaceum brevissimum glabrum albicans.

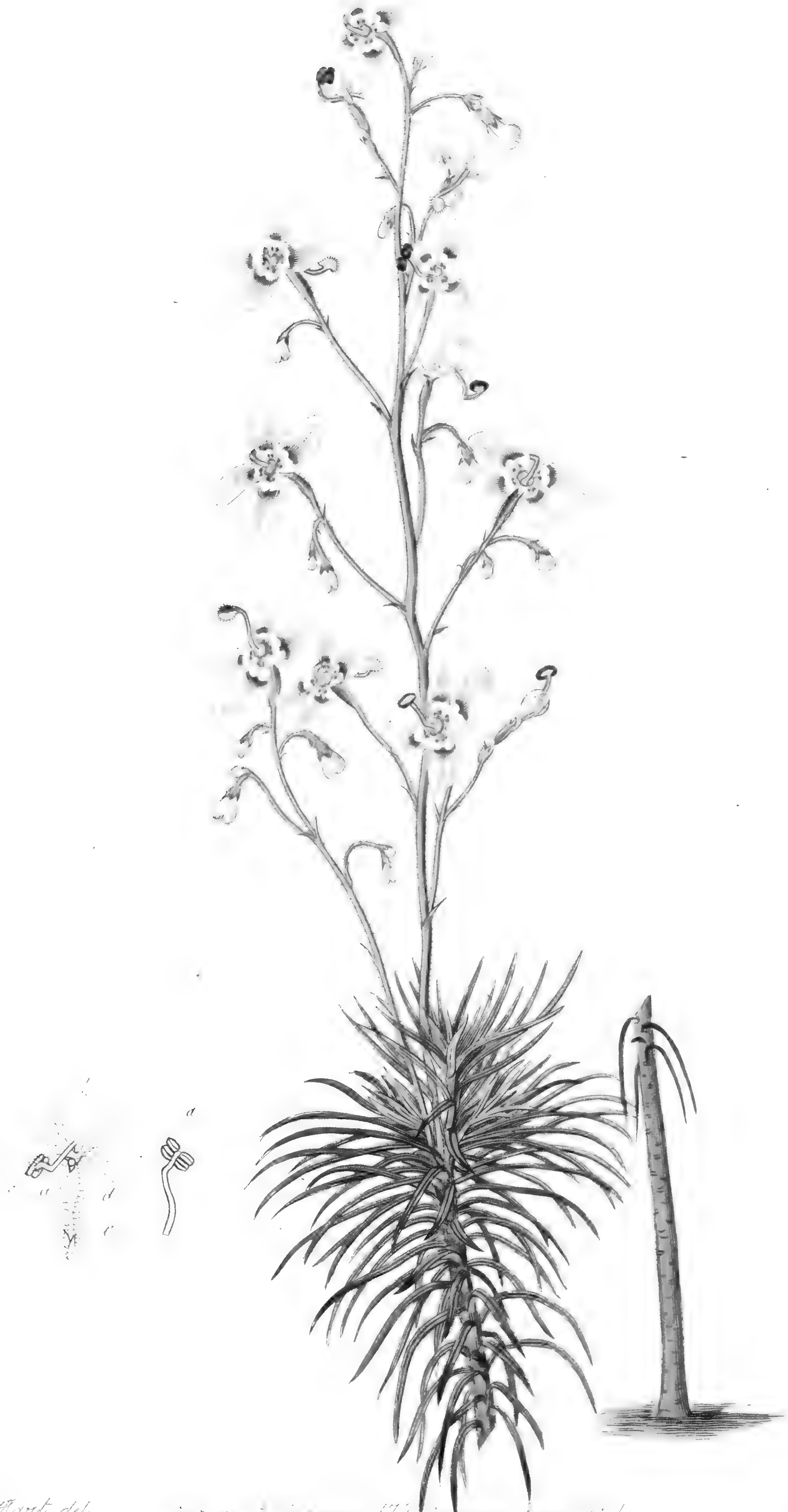
A very newly introduced species; drawn in April last at the nursery of Messrs. Colvill in the King's Road; but had, as we are informed, made its appearance the year before last in the Physic Garden at Chelsea.

Native of Hungary, where it is constantly found in dry sandy places. Differs from *pumila* by being smaller in all

the parts, and in having a primary flower, the fruit of which miscarries, while that of the secondary flower comes to perfection; in regard to this character indeed, as far as we have seen, it differs from the whole genus. *Flavissima*, the nearest akin, is found constantly to affect springy moist places, flowers later in the year, and has a scape higher than the leaves. *Lutescens*, also very close to our plant, is much larger, with a proportionately longer scape. The four are very like, but still evidently distinct in port and economy, besides the above technical marks.

Arenaria, we believe, will prove quite hardy; though the present sample had been sheltered in the winter.

Rootstock horizontal, many-budded along the upper side. *Scape* $1\frac{1}{2}$ to 2 inches high, rather thicker than a crow-quill, round, shining, green, simple, shorter than the leaves. *Leaves* few, narrow, linearly ensiform, faintly nerved, upright, about 3 inches long, lightish green. *Spathe* 3-valved, 2-flowered, herbaceous, convolutely folded, lanceolate, smooth, inner valve cleft at the top. *Flowers* light yellow, peduncled, strongly but not disagreeably scented, upright, with the tube about an inch and a half deep, the first barren, the second fertile: *peduncles* enclosed, nearly the length of the germen and tube. *Germen* enclosed, green, $\frac{1}{3}$ of an inch long, evenly continuous with the tube of the corolla, oblong, a little thicker than a crow-quill, roundedly 3-cornered, the intervening facets marked by a deeper green scarcely raised rib; cells with many ovula in two rows. *Corolla* funnelform: *tube* enclosed, pale green, piped, about the thickness of a crow-quill, slightly tapered downwards, 3 times shorter than the limb: *limb* turbinately divergent at the lower part, spreading and recurved at the upper, segments of one length, 3 *outer ones* bearded, about $\frac{1}{3}$ broader, about $\frac{1}{3}$ of an inch wide, of rather a deeper yellow than the others, cuneately oblong, unguis evenly continuous with the recurved retuse lamina and marked on each side with purple veins, *beard* a narrow strip of deep yellow hairs; *inner ones* narrower, cuneately ligulate, waved, recurved at the upper part, crenulately eroded at the top, unguis narrow, inflectedly channelled, 3 times shorter than the lamina stained with purple. *Stigmas* paler, about the length of the bearded part of the segment, segments lanceolate, taper-pointed, uprightly recurved: *outer lip* membranous, short, smooth, white, truncate.



M. Hart. del.

Bot. Mag. London 1773

Bot. Mag.

STYLIDIUM laricifolium.

Fine-leaved Stylidium.

GYNANDRIA MONOGYNIA.

Nat. ord. STYLIDÆ. *Brown prod.* 1. 565.STYLIDIUM. *Suprà vol.* 1. fol. 90.Div. I. Capsula ventricosa, subovata, nunc spherica v. oblonga. *Brown.*Subdiv. E. Caulis suffruticosus, foliis sparsis, crebris. *Brown.**S. laricifolium*, foliis setaceo-linearibus sessilibus pilosiusculis, fauce nudâ, labello appendiculato. *Brown prod.* 1. 570; (sub *S. tenuifolio*).*Stylidium laricifolium*. *Persoon syn.* 2. 210. *Jussieu in ann. du muséum.* 18. 19. tab. 3.*Stylidium tenuifolium*. *Brown prod.* 1. 570.

Caulis erectus, teres, pennâ corvinâ crassior, infrâ nudus cicatrizatus, suprâ foliosus: fol. crebra undique sparsa, recurvo-patentia, subuncialia, lineari-subulata, nudiuscula, canaliculata lateribus recurvulis, subtus carinata. Panicula decomposita, terminalis, altior caule, gracilis, elástico-rigens, capitato-pilosa, racemulis distantibus, divisis vel simplicibus, paucifloris; bracteæ ovali-oblongæ, parvulæ, appressæ. Germ. viride, oblongum, deorsum attenuatum, ut calyx et corolla (extus), capitato-pubescent. Cal. cum eo continuus at brevior, herbaceus, erectus, segmentis oblongis obtusis. Cor. carneo-pallescent, resupinata, limbo bilateralis-expanso, semunciâ parâ latiore, laciniis 4 inæquilateri-oblongis obtusis, per paria inæqualia opposita parallelo-contiguâ, 2 (resupinatione) anticis 2 posticis ferè duplo minoribus, omnibus aliquantum supra faucem nudam atque punctis 2 didymis sanguineis insignitam maculâ subsemicirculari purpureâ areolam lunulatam albam circumscribente pictis: labellum minutum, anticum, limbo depressius atque refractum, ovatum, acutulum eum disco crasso convexo albido nitente, supernè orâ angustâ tenuiore purpureâ pruinoso-denticulatâ marginatum, lacinulâ divaricatâ sanguineâ tenui subulatâ brevi ad basin utrinque alatum: tubus plurimum brevior limbo, bis ferè longior calyce, intus glaber, ad flexuram labelli incisus. Columna corollâ longior, viridi-rufescens, irritabilis; capitellum sub antheras virescens pilisque diaphanis articulatis subtensum; anth. rubro-fuscæ, polline luteo-virente: stigma viride, transversum, recedentibus antheris manifestum: glandulæ epigynæ 2 oppositæ styli basi astantes.

This pretty plant was raised at the nursery of Messrs. Colvill in the King's Road, from seed imported from New Holland, where the species was observed by Mr. Brown in the vicinity of Port Jackson. It is one of the only two recorded ones that belong to the under-shrubby section of this rather numerous genus; and is distinguished from *fruticosum*, already known in our collections, by a subulately linear sessile foliage, naked faux, and appendanted label.

Belongs to the greenhouse, where it flowers in May.

The following critical view of the order is borrowed from Mr. Brown.

“ *Stylideæ*. This order, consisting of *STYLIDIUM*, *LEVENHOOKIA*, and *FORSTERA*, I have formerly separated from *Campanulaceæ*, on account of its reduced number of stamina, and the remarkable and intimate cohesion of their filaments with the style, through the whole length of both organs. It differs also both from *Campanulaceæ* and *Goodenoviæ* in the imbricate æstivation of the corolla, and where its segments are unequal in the nature of the irregularity. In the relation which the parts of its flower have to the axis of the inflorescence, and in the parallel septum of its capsule, it agrees with *Goodenoviæ* and differs from *LOBELIA*, which, however, in some other respects it more nearly resembles.”

“ Very different descriptions of the stamens and pistil in this tribe, and especially of the latter, have been given by several French botanists. According to Richard the lateral appendices of the labellum in *STYLIDIUM* are the real stigmata, the style being consequently considered as cohering with the tube of the corolla, and the column as consisting of stamina only. This view of the structure demands particular notice, not only from the respect to which its author is himself entitled, but because it has also been adopted by Jussieu, whose arguments in support of it, and against the common opinion, may be reduced to three. 1st, Were the common opinion admitted, the difficulty of conceiving so wide a difference in what he terms insertion of Stamina, in two orders so nearly related as *Campanulaceæ* and *Stylideæ* obviously are: 2dly. The alleged non-existence of the stigma, which preceding authors had described as terminating the column: and lastly the manifest existence of another part, which, both from its appearance and supposed origin, is considered as capable of performing the function of that organ.”

“ In opposition to these arguments it may be observed, that the real origin of the Stamina is in both orders the same, the apparent difference arising simply from their accretion to the style in *Stylideæ*, a tendency to which may be said to exist in *LOBELIA*. The inability to detect the Stigma terminating the column in *STYLIDIUM* must have arisen from the imperfection of the specimens examined, for in the recent state, in which this organ is even more obvious than in *Goodenoviæ* at the time of bursting of the antheræ, it could not have escaped so accurate an observer as Richard; and were it even less manifest in *STYLIDIUM*, its existence would be sufficiently confirmed from the strict analogy of that genus with *LEVENHOOKIA*, whose stigma, also terminating the column, consists of two long capillary laciniae, which are in no stage concealed by the antheræ.”

“ With respect to the part considered as Stigma by Richard, I have formerly observed that it is obsolete in some species of *STYLIDIUM*, and entirely wanting in others, and there is certainly no trace of any thing analogous to it in *FORSTERA*.”

“ The greater part of the Australian *Stylideæ* exist at the western extremity of the principal parallel, several species are found at the Eastern extremity of the same parallel, and a few others occur both within the tropic and in Van Diemen's Island. Beyond Terra Australis very few plants of this order have been observed; two species of *STYLIDIUM*, very similar to certain intratropical species of New Holland, were found in Ceylon and Malacca by Kœnig; and of the only two known species of *FORSTERA*, one is a native of New Zealand, the other of Tierra del Fuego, and the opposite coast of Patagonia.” *Brown gen. rem. in append. to Flind. voy. 2. 561.*



VELLEIA *lyrata*.
Lyrate-leaved Velleia.

PENTANDRIA MONOGYNIA.

Nat. ord. CAMPANULACEÆ. *Jussieu gen.* 165. *Div. I.* Antheræ distinctæ.

GOODENOVIÆ. *Brown prod.* 1. 573. *Sect. I.* Semina indefinita.

VELLEIA. *Cal.* inferus, 3-5-phyllus, inæqualis. *Corolla* tubo basi germi accreto, apice hinc fissus; limbo bilabiato. *Antheræ* distinctæ. *Stylus* indivisus. *Glandula epigyna* inter filamenta 2 anteriora. *Capsula* basi biloculari, valvâ bipartita. *Semina* imbricata, compressa.

Herbæ acaules. *Folia radicalia* subspathulata; sæpiùs dentata, nunc *lyrata*. *Scapi* dichotomi, axillis plerisque floriferis, bracteis oppositis, foliaceis, quandoque maximis et nunc connatis. *Calycis foliolum* superius latius, et basi sæpè dentatum. *Corolla* flava, basi adhærenti infra gibbâ v. calcaratâ. *Stylus* subtetragonus. *Stigmatis indusium* maximum. *Brown prod.* 1. 580.

Sect. II.—*Calyx* 3-phyllus. *Corolla* basi hinc gibbosiuscula. *Velleiæ* veræ. *Brown prod.* 1: 580.

V. lyrata, glabra, bracteis dichotomiarum distinctis, foliis lyratis basi inciso-dentatis, calycis foliolis ovato-orbiculatis. *Brown loc. cit.*

Velleia spathulata. *Jussieu in ann. du muséum* 18. 17. t. 1. fig. 4; (non *Browni* in loc. cit. pro quâ tamen à *Jussieu* malè habetur).

A species now first introduced by Mr. Lee into the Hammersmith nursery, where the drawing was taken from a plant in one of the greenhouses. It is the only one of the genus that has appeared in our gardens; and was originally observed by Mr. Brown in New Holland, growing in the neighbourhood of Port Jackson. Flowers in April.

The species has been mistaken by Messrs. Jussieu and Richard, in the *Annales du Muséum*, for *spathulata* of the *Prodromus* of New Holland; one belonging to a far distant quarter of that country, and as Mr. Brown thinks very unlikely to have come into the possession of those celebrated Botanists.

To observe the original form of the stigma with its surrounding indusium which is the main feature of this natural order, that organ must be inspected at a very early stage of its appearance, and long before the flower expands. It sub-

sequently assumes a very different appearance, owing to a change in the form of the *indusium* or membranous appendage which shrouds it.

The present genus consists of stemless herbaceous plants with a radical subspatulate foliage, yellow flowers and an *indusium* of the largest dimensions.

We shall introduce in this place some instructive remarks by Mr. Brown.

“ I have elsewhere observed, that in two genera of *Goodenoviæ*, namely, *EUTHALES* and *VELLEIA*, the base of the corolla coheres with the germen while the calyx remains entirely distinct. This structure I had stated as being peculiar to these genera, and as in some degree invalidating one of Jussieu’s arguments for considering the floral envelope of Monocotyledones as calyx rather than corolla. The fact, however, seems not to be admitted by Richard, who in a dissertation already quoted describes what has hitherto been called calyx in *VELLEIA* as bracteæ: a view of the structure which in those species of that genus having triphyllous calyx, may appear plausible, but of which the probability is diminished even in those with pentaphyllous calyx, and still more in *EUTHALES*, where the calyx is also tubular. But a stronger argument for the part usually denominated calyx being in these genera really such, may be derived from certain species of *Goodenia*, in which it will be admitted that both calyx and corolla are present, and where, though both these envelopes adhere to the germen, they may be separately traced to its base; the coloured corolla being plainly visible in the interstices of the foliaceous calyx.”

“ *Goodenoviæ*, whose maximum exists in the principal parallel of New Holland, are nearly, but not absolutely confined to Terra Australis; the only known exceptions to this consist of the genus *CYPHIA*, which is peculiar to Africa, and chiefly occurs at the Cape of Good Hope; of some species of *SCÆVOLA* which are found within the tropics; and of *GOODENOVIA littoralis*, which is common to the shores of Terra Australis and New Zealand, and according to Cavanilles is also a native of the opposite coast of South America.” *Brown gen. rem. in append. to Flind. voy. 2. 560.*



We have received the "*Mémoire sur la famille des Crucifères*" by M. De Candolle, presenting an instructive and luminous statement of the principles of his new arrangement of *Cruciferae* (corresponding with the class *Tetradynamia* of Linnæus), the family or order about to appear in the approaching volume of his "Natural System of the Vegetable Kingdom;" being the second of that vast undertaking.

The latest enumeration of *Cruciferae*, viz. that contained in Persoon's Synopsis, gives only 504 species. M. De Candolle counts at this time no less than 970, of which he himself has inspected 880 in the sample, and dissected the seeds of more than 700.

Computing by the general distribution of this vegetable family over the globe, he seems to infer that the number of the species he is about to record, will not be found very far short of the total amount.

The discussion of the principles or the philosophy of the classification, is followed by a synoptical view of the Order, combined in 5 principal divisions (*suborders*), 21 subdivisions (*tribes*) and 95 *genera*.

In the arrangement that has been adopted for this natural order, externally so very devoid of definable characteristics, we cannot but be struck with the importance of the resources that have been derived from the interior of the seed, especially from the relative position of the cotyledons and radicle, an ingenious device first used for the characters of the genera of this family by Mr. Brown, in the last edition of the Hortus Kewensis. *Cotyledones incumbentes* and *Cotyledones accumbentes* (convertible with *lateral radicle* and *dorsal radicle*) seem to afford the two grand divisions of the whole order; and so equally, that of the 95 genera composing the order, 48 rank in the division *Cotyledones accumbentes*, and 47 in *Cotyledones incumbentes*. We are to presume that the learned writer has obtained these curious results by satisfactory investigation.

The "*Mémoire*" will be read with deep interest by every Botanist, and cannot fail to increase the admiration already inspired by the genius and zeal of its celebrated author.



CHEIRANTHUS scoparius. *Chameleon Wallflower.*

From an incidental remark, in relation to the curious transitions of colour in the corolla of some species of CHEIRANTHUS, in the above "*Mémoire*," we perceive that the "*Chameleon Wallflower*," published in our Register (vol. 3. fol. 219), as a possible, though extraordinary variety of CHEIRANTHUS *Cheiri*, had in fact been already specifically installed in the system; but under a designation much too brief and indefinite for our powers of discrimination, until aided by the remark above alluded to. The plant belongs, without doubt, to CHEIRANTHUS *scoparius* of the 2d vol. p. 681 of Willdenow's *Enumeratio Horti Regii Berolinensis*; distinguished from the Wild Common Wallflower (specifically removed from *Cheiri*, the garden sort, under the title *fruticulosus*) by a *strigose* pubescence. *Strigose* is however an epithet that we should never have thought of applying to such fur as covers this plant, at least in the state we see it in our gardens.

C. scoparius is said to have been originally observed in the Island of Teneriffe, by M. Broussonnet. It has been cultivated in the Royal Garden at Berlin for these ten years past or more; and we find that it was from thence that the plant was introduced amongst us, not from Moscow, as we had been informed. It is now becoming very common; being nearly hardy and very easily propagated by cuttings and seed. We shall mention the subject again in the appendix of the present volume.



Woods del.

AMARYLLIS purpurea; β : minor.
Lesser Purple-flowered Amaryllis.

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. *Jussieu gen.* 54. *Div. II.*
 AMARYLLIDÆ. *Brown prod.* 1. 296. *Sect. I*
 AMARYLLIS. *Suprà vol.* 3. *fol.* 226.

Div. V. Bi-multifloræ. Tibus nudus. - Folia bifaria.

A. purpurea, corollæ limbo erecto, rotato-turbinato, subobliquo; tubo faucem membranaceo-duplicatam æquante: staminibus erecto-distantibus, incurvescenti-patentibus. *Nob. in journ. of science and the arts.* 2. 360.

Amaryllis purpurea. *Hort. Kew.* 1. 417. *ed.* 2. 2. 224. *Willd. sp. pl.* 2. 53.
Nob. in curtis's magaz. 1430.

Amaryllis elata. *Jacq. hort. schœnb.* 1. 32. t. 62.

Amaryllis speciosa. *L'Heritier sert. angl.* 12.

Crinum speciosum. *Lin. suppl.* 195. *Thunb. prod.* 59.

(α) *major*; coccineo-rubens, fauce hyalino-fenestratâ; antheris longioribus.
Nob. in journ. of science and the arts. 2. 360.

Amaryllis purpurea. *Curtis's magaz.* l. c.

(β) *minor*; cerasino-rubens, fauce opaco-fenestratâ; antheris brevioribus.
Nob. in journ. of science and the arts. l. c.

Bulbus oblongo-ovatus. Folia interiora altiora, scapum compresso-cylindraceum 2-3-pedalem subæquantia. Spatha pedunculis flore bis terve brevioribus longior. Cor. 3-4-uncialis, infundibuliformis, recta: tubus rotundato-trigonus; faux latè turbinata, intùs membranâ ad laciniarum divisuras sexdentatâ accreto-duplicata; limbus isti subæqualis, obsolete irregularis, laciniis reticulato-rugulosis, extimis rhombæo-ovatis acutulis, intimis ovali-lanceolatis $\frac{1}{2}$ angustioribus. Fil. inclusa, alternè subbreviora: anth. verticalitèr appensæ versatiles: pollen luteum. Stylus inclinatus; stigmata obsolete trina. Germ. oblongum viride. Semina paleaceo-compressa, alâ latâ membranaceâ, nucleo parvo compresso. *Nob. loc. cit.*

Introduced by Mr. Masson from the Cape of Good Hope in 1774.

α , the large variety, has a flower nearly twice the size of that in β , the present plant, with a deeper poppy-red corolla, and is very scarce in our collections. α differs moreover from β , in having the webbed intervals which connect the lower parts of the segments at the faux transparent, instead of opaque, as well as by far longer anthers.

Our drawing was taken in the hothouse of the nursery of Messrs. Colvill, in the King's Road, Chelsea.

β is the variety from which the species was originally taken up in the Hortus Kewensis; and is the one figured in Jacquin's work, as well as by Mr. Francis Bauer, in his Sketches in the Banksian Museum. We know of no representation of α , except the one in Curtis's Botanical Magazine by Mr. Sydenham Edwards.

The species approaches nearer to *PANCRATIUM* than any other of its natural order from the Cape of Good Hope or adjoining regions, where the type of that genus seems wholly unrepresented. The membrane which is detached from the faux in *PANCRATIUM*, and forms the connecting web between the stamens, in this plant adheres closely to the corolla, and connects the portion of the segments which constitute the faux.

Requires to be kept in the hothouse, where it flowers freely; and is becoming pretty common in the nurseries about London.



Hart. del.

Pub by J. Ridgway 170 Piccadilly July. 1. 1821.

J. Watts. sc.

DIOSMA amœna.

Circular-petalled Diosma.

PENTANDRIA MONOGYNIA.

Nat. ord. RUTACEÆ. Jussieu gen. 269. Div. III. Genera Rutaceis
affinia.

DIOSMEÆ. Brown gen. rem. in Flind. voy. 2. 545.

DIOSMA. Suprà vol. 5. fol. 386.

Div. Adenandra. Stamina basi coronâ brevi connexa: 5 alterna sterilia: 5 fertilia apice appendiculata. Willd. enum. 1. 256.

D. amœna, foliis ovalibus glabris, petiolis eglandulosis, floribus sessilibus ramorum umbellato-proliferorum seorsim terminalibus; petalorum laminis imbricatis orbiculatis cum mucrone margineque lævi.

Diosma amœna. Loddiges's bot. cab. n. 161.

Frutex erectus, prolifero-ramosus; rami plurimi, axillares, per intervalla approximati, adscendentes, teretes, villosi, floribus tenus foliosi, apice prolifero-ramulosi, ramulis pluribus brevibus, foliosis, successivè unifloriferis, umbellato-approximatis. Folia coriacea, crassiuscula, crebra, sparsa, patentia, intervallis longiora, elliptica, utrinque attenuata, obtusiuscula, & unciaë circitèr longa latitudine duplo minore v. ultrâ, nuda, opaca, enervia, disco subtus glauca cum orâ glanduloso-punctatâ costâque mediâ obsoletâ subtus virente, floralia 2 opposita calyci subtensa subovata acutiora ciliata: pet. lineari-oblongus, appressus, decurrens, multotiès brevior folio, intus planus. Flores sessiles, erecti, roseo-albicantes, inodori, unciam circâ transversi, turbinato-rotati, subtus rubro-lucentes. Cal. turbinato-patens, foliis (2 floralibus proximioribus oppositis) obvallatus, corollâ bis terve brevior, punctatus, viridi-ruber, segmentis ovatis ciliatis acumine brevi obtusiusculo. Coræ. pet. æqualia, unguiculato-orbiculata cum mucrone, margine lævi, plicâ mediâ verticali; laminis imbricato-contiguis; unguibus angustis, subulatis, rubris, erectis, distantibus, ter ferè brevioribus calyce. Stam. coronæ crassiori 5-lobæ viridi germen æquanti insistentia, erecta, distantia, pilosa: fil. 5 alterna castrata duplo longiora, petalis opposita, subulato-filiformia, apice rubro et appendicis lutescentis cerini rudimento introrso terminata; alia 5 antherifera crassius subulata, erecto-incurvescentia, antheris vix æqualia; anth. majusculæ introrsæ, oblongæ, ustulato-rufescentes, supra basin receptaculi lati antici loculorum affixæ, appendice ovato-rotundo completo cerino lutescente mobili ipsis 3plo minore extus convexo intus concavo cum glandulâ lucidâ prominente in disco ex arrecto post anthesin retrofrangendo articulato-præfixæ: pollen ochroleucum. Germ. ovato-rotundum viride glandulis creberrimis sessilibus stipitalisque pustulatum: stylus viridis, columellaris, staminibus completis æqualis, 5-striatus, è decurvo arrigendus, stigmate depresso penticolli viridissimo apiculatus.

Native of the Cape of Good Hope, and said to have been introduced about 1798; though not recorded in any of the Catalogues of our gardens.

The drawing was made in the greenhouse at the nursery of Messrs. Colvill, in the King's Road, Chelsea; where it flowers freely and abundantly.

Amœna, like *uniflora*, *speciosa* (*GLANDULIFOLIA umbellata*. Wendl. coll. 1. 37. t. 10.), and *fragrans*, belongs to a group, which Willdenow has detached from *DIOSMA* in his "Enumeratio," and distinguished from the other three parcels into which he distributes that genus, by an appendage connected by a flexile stalk with the summit of the receptacle of the cells of the fertile anthers, and which while the anther remains entire is upright, but when that bursts bends down close along the back of the anther, and proves an unfailing sign that the pollen has been shed. The same circumstances belong to the species that Willdenow leaves for the true group, under the title *DIOSMA*, but these appendages being there minute and inconspicuous, seem to have escaped his eye. In *ADENANDRA* the filaments are more intimately connected with the receptacular crown than in *DIOSMA*.

Amœna may be known from all others of its section, with which we are acquainted, by sessile flowers orbicular imbricate petals and oval foliage. The flower is smaller than either in *uniflora* or *speciosa*, and about the size of that of *fragrans* (*Curtis's magaz.* 1519) which is however long-peduncled and red throughout.

Mr. Brown observes, that *RUTA* and *PEGANUM* may be annexed to *Diosmeæ*, but that neither genus being calculated to afford a clear idea of the order, from the general structure of which they deviate in some important points, he has derived the ordinal title from *DIOSMA*, as the most extensive and best-known genus of the division, and proposes to detach the first section of Jussieu's *Rutaceæ* as the foundation of another order, to be called *Zygophylleæ*.

DIOSMA is a South African genus.

In our view the *BAROSMA*, *AGATHOSMA*, and *ADENANDRA*, serve better for sections of *DIOSMA* than separate genera. This is however entirely matter of taste.



W. & A. G. & Co. Philadelphia July 1. 1821.

S. Watts. sc.

DIGITALIS orientalis.

Natolian Fox-glove.

DIDYNAMIA ANGIOSPERMIA.

Nat. ord. SCROPHULARIÆ. *Jussieu gen. Div. I.* Stamina 4 didynama.
 SCROPHULARINÆ. *Brown prod.* 1. 433. *Sect. II.* Stamina
 4 antherifera.

DIGITALIS. *Suprà vol. 1. fol. 48.*

D. orientalis, foliolis calycinis lanceolatis pubescentibus, corollæ labio inferiore maximo spathulato. *Lamarck encyc.* 2. 278.

Digitalis orientalis. *Willd. sp. pl.* 3. 286. *Ferd. Bauer digit. illustr. tab.* 13.

Digitalis orientalis tragopogi folio, flore albido. *Tournef. cor.* 9.

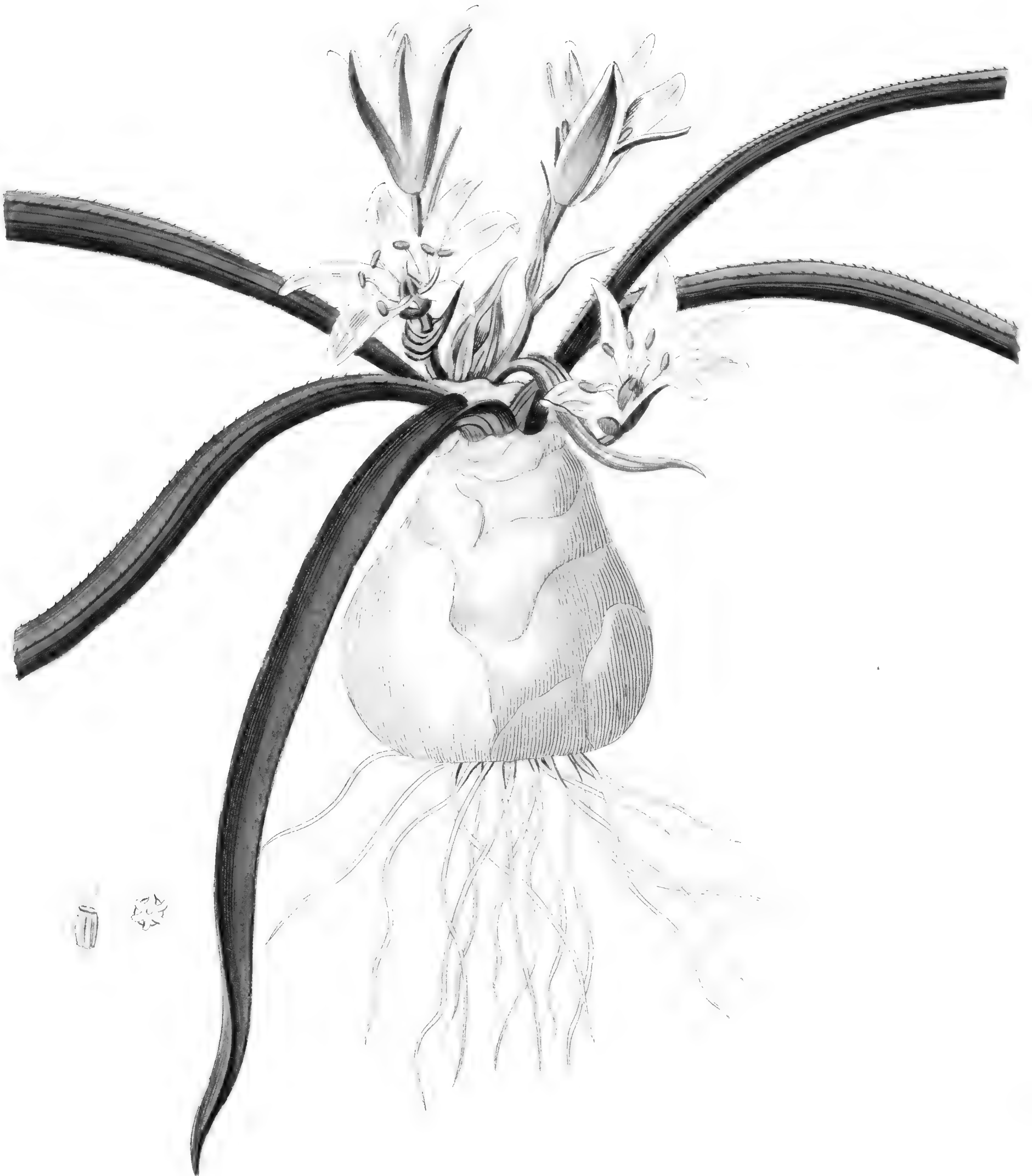
Caulis sesquipedalis, gracilis, cylindræus, foliosus, infernè glaber, supernè pubescens atque subramosus ramulis brevibus. Folia alterna, sessilia, lineari-lanceolata, integerrima, glabra, Tragoponis (Salsifis) instar. Spica longa laxa, terminalis: flores albidii, grandiusculi, pedicellati, ob limbi labium superius truncatum atque subnullum unilabiato simulantes; laciniæ laterales breves; labium inferius magnum, planum, spathulatum, margine levitè pubescens, non verò barbatum. *Lamarck loc. cit.*

A plant originally observed by Tournefort in the Levant, and noticed by the above summary record; but afterwards brought more distinctly within the sphere of the Botanist, by the ingenious and learned Chevalier de Lamarck, in his valuable "Encyclopédie," where it is described from a sample in Tournefort's Herbarium, and distinguished by the name it now bears. From that time till lately the species was known from no other source; when about three years ago seeds were sent by Mrs. Liston, the lady of our Ambassador at the Porte, to Sir Joseph Banks, and from these the plant was raised that flowered last summer at Springrove, from which a drawing was made by Mr. Lindley that now mingles with two or three others by the same artist among the masterly ones by Mr. Ferdinand Bauer that compose the splendid and ample illustration of the genus lately published.

The Lambertian Herbarium contains a native sample of the species, gathered near Angora in Asiatic Turkey, by a botanic collector employed by Mrs. Liston.

Our drawing was made in May last, from a sample in Lady Banks's garden at Springrove; the only place, we believe, where the live plant is to be found in this country. We had no opportunity of inspecting the plant ourselves, and subjoin a description by M. de Lamarck.

Stem a foot and a half high, slender, cylindrical, leafy, smooth at the lower part, furred at the upper, where it has also some short branchlets. *Leaves* alternate, sessile, linearly lanceolate, quite entire, smooth, and very like those of the Common Salsify. *Spike* long, loose; *flowers* of a whitish colour, largish, stalked, and looking as if only one-lipped, the upper lip being foreshortened and almost reduced to none, and the side segments being short, while the lower lip is large, flat, spatulate, and slightly fringed, but not bearded.



ORNITHOGALUM fimbriatum.

Hairy-leaved Star of Bethlehem.

HEXANDRIA MONOGYNIA.

Nat. ord. ASPHODELI. *Jussieu gen.* 51. *Div. IV.* Flores spicati. Radix bulbosa. Calyx (corolla nob.) sexpartitus, basi staminifer.

ASPHODELEÆ. *Brown prod.* 1. 274.

ORNITHOGALUM. *Suprà vol.* 2. fol. 158.

O. fimbriatum, racemo subcorymboso paucifloro, pedunculis fructiferis elongatis patentissimis: foliis linearibus scapo pedunculisque hirsutis.

Marsch. bieb. flor. taur. cauc. 1. 276.

Ornithogalum fimbriatum. *Willd. in der gesells naturf. freund. zu Berl. neue schrift.* 3. 420. *Persoon syn.* 1. 364.

Ornithogalo umbellato affine foliis pilosis. *Pallas in nov. act. petrop.* 10. 309.

Ornithogalum samium villosum umbellatum album. *Tournef. cor.* 26; (*sic Marsch. bieb.*)

Folia radicalia, linearia, acuta, margine villis ciliata, (v. nunc in spontaneis extus omninò villosa). Scapus erectus vix digitalis. Flores facie et colore ORNITHOGALI umbellati; pedunculi bini (nunc plures) uniflori patentés subalterni in apice scapi. Bractea lanceolata acuta membranacea ferè longitudine pedunculi. Willd. in loc. cit. Simillimum ORNITHOGALO umbellato, ut præter hirsutiem vix ullâ aliâ notâ distinguendum. Pili foliorum scapi pedunculorum crebri patuli albi. Marsch. bieb. loc. cit.

Native of the Crimea, and very recently introduced into this country from Moscow, by the Horticultural Society, in whose garden the present drawing was taken in May last.

It comes so close to our "Common Star of Bethlehem" (*ORNITHOGALUM umbellatum*), that we can scarcely perceive any difference beyond the fur on the leaves, scape, and peduncles, which in *umbellatum* are all smooth. In some samples the leaves are only fringed, in others furred all over the underside; in some the scape is only two-flowered, in others several-flowered, the flowers disposed in a corymb. Numerous native samples in various states of inflorescence are preserved in the Lambertian Herbarium.

Both this and *umbellatum* were found growing together at the skirts of forests and thickets in the Crimea, by that

indefatigable observer, M. Marschall of Bieberstein; who remarks that *fimbriatum* is less common than *umbellatum* in those parts.

ORNITHOGALUM *montanum* of the Flora Napolitana of Tenore (l. 176. t. 33.), comes very near to *fimbriatum*, but there is no mention of any fur belonging to any part of that plant. *Exscapum* of the same author is also a very near species.

The segments of the corolla in this section of **ORNITHOGALUM** are so deeply divided, as to appear so many petals, and though they are really connected, they seem as if attached frontwise and separately to the receptacle of the germen. The three outer segments are slightly protuberant at the outside of the base, and appear as if pouched.



... 170 Aug. 1. 1821.

LONICERA sempervirens; β : *minor*.*Smaller Trumpet-Honeysuckle.*

PENTANDRIA MONOGYNIA.

Nat. ord. CAPRIFOLIA (CAPRIFOLIACEÆ). *Jussieu gen.* 210. *Div. I.*
 Calyx calyculatus, aut bracteatus. Stylus unicus. Corolla
 monopetala.

LONICERÆ. *Brown in app. to Abel's china.*

LONICERA. *Suprà vol. 1. fol. 31.*

Div. Periclymena, caule volubili.

L. sempervirens, spicis subnudis terminalibus, foliis oblongis: summis connato-perfoliatis, corollis subæqualibus tubo supernè ventricoso. *Solander in Hort. Kew.* 1. 230.

Lonicera sempervirens. *Willd. sp. pl.* 1. 983. *Hort. Kew. ed. 2.* 1. 277.

Caprifolium sempervirens. *Michaux bor. amer.* 1. 105. *Pursh amer. sept.* 1. 160. *Nuttall gen.* 1. 138.

(α) foliis subrotundis. *Curtis's magaz.* 781. *Schmidt arb. t.* 104.

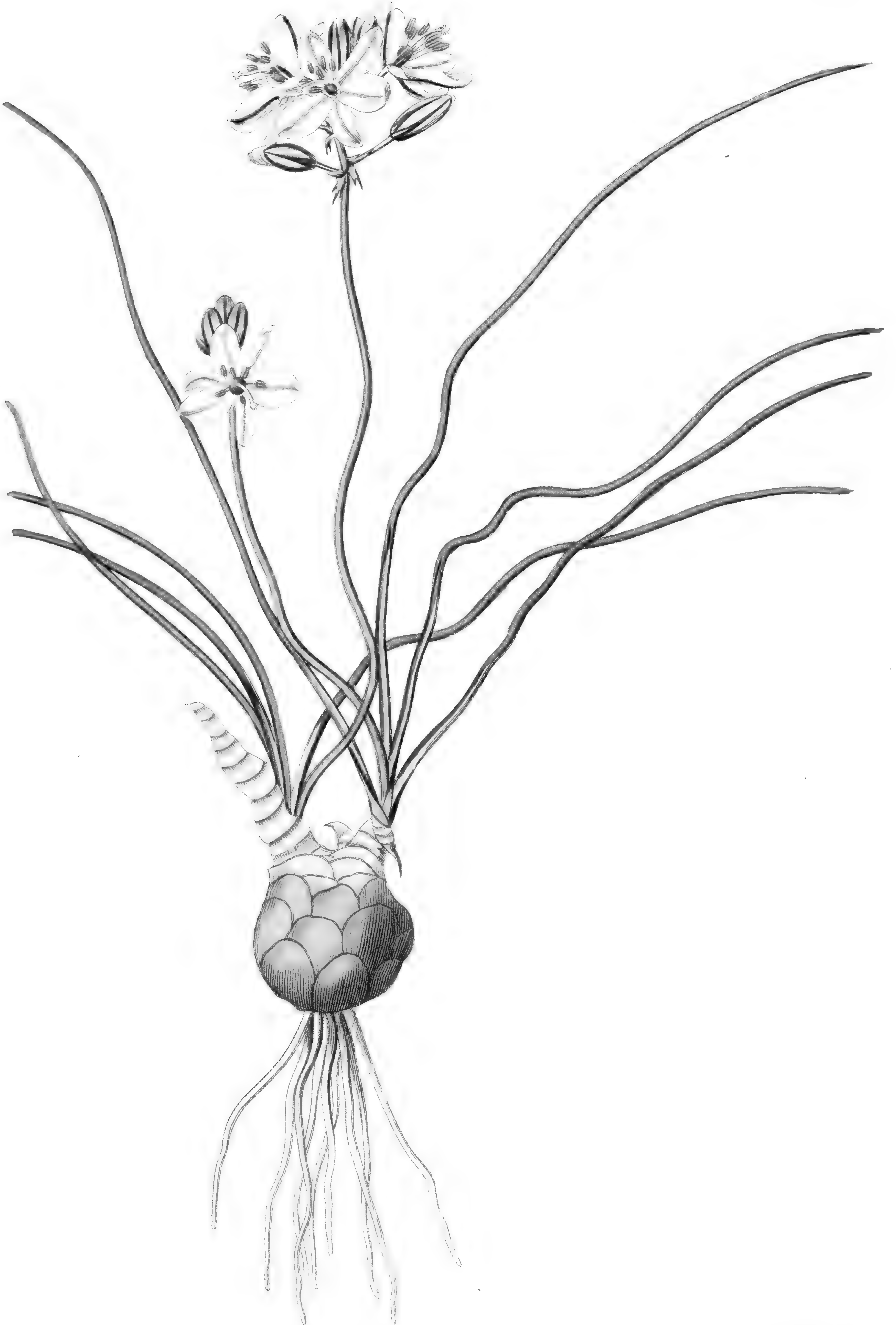
(β) foliis oblongis. *Hort. Kew. ed. 2.* 1. 377. *Curtis's magaz.* 1753.

Periclymenum floribus verticillatis terminalibus pedunculatis, foliis ovatis integris subtùs glaucis; summis connato-perfoliatis. *Phrasis in exemplari Milleri in Herb. Banks. asservato inscripta.*

A presumptive variety of the well-known "Trumpet-Honeysuckle." Native of South Carolina, and somewhat tenderer than the common sort; requiring to be cultivated in a conservatory or greenhouse. The leaves are smaller than in (α) and glaucous underneath; the bunches of flowers smaller and of a brighter scarlet.

The drawing was taken at the nursery of Messrs. Fraser, in Sloane Square, where it had been lately imported.

It was originally introduced by Miller, whose sample is preserved in the Banksian Herbarium; but had long since entirely disappeared in our collections.



M. Hart. del.

Print by J. Ridgway 170 Piccadilly Aug. 1. 1821.

J. H. S.

ALBUCA filifolia.

Fine-leaved Albuca.

HEXANDRIA MONOGYNIA.

Nat. ord. ASPHODELI. *Jussieu gen.* 51. Div. IV. Flores spicati.
 Radix bulbosa. Corolla sexpartita, basi staminifera.
 ASPHODELEÆ. *Brown prod.* 1. 274.
 ALBUCA. *Suprà vol.* 4. fol. 277.

Div. Corollæ æqualitèr patentès.

A. filifolia, foliis filiformibus flexuosis reflexis scapo longioribus, scapo simplici filiformi, racemo paucifloro. *Willd. sp. pl.* 2. 135; (sub ANTHERICO filifolio).

Albuca filifolia. *Nob. in loco præsentì.*

Anthericum filifolium. *Jacq. ic. rar.* 2. t. 414. *Coll. suppl.* 93. *Thunb. prod.* 62.? *Willd. in loco suprà citato.*

Tota glabra. (Bulbus ovato-rotundus, compacto-squamosus sordescens, integumentis fuscis.) Folia radicalia plerumque tria, filiformia, semiteretia, acuta, nitida, basi purpurascens, cæterùm viridia, magis minùsve flexuosa, reclinata, rigidula, longiora pedalia, una cum scapo intermedio ad basin comprehensa vagina una alterave scariosa, pallida, transversim striata, plus minus semunciam longa, in planta florente fissa et ad latus abscedente. Scapus teres, simplex, nitidus, flexuosus, erectus, foliorum crassitie et ferè longitudine, infernè purpureus. Racemus terminalis, erectus. Flores inodori, plus minùs septem. Pedunculi vix semunciales, patuli, bracteá suffulti lanceolato-acuminatá. Corollæ laciniæ oblongæ, obtusæ, parumpèr concavæ, patentissimæ, albidæ cum lineá utrinque longitudinali media virente, 3 alternæ latiores. Filamenta subulata, æqualia, imberbia, erecta, corollá duplo breviora, alba. Antheræ oblongæ, erectæ, flavæ. Germen superum, oblongum, triquetrum. Stylus filiformis, adscendens, albus, longitudine staminum. Stigma subcapitatum, villosum. *Jacq. coll. suppl.* 93, 94.

The present species, as well as *fugax* of this work (fol. 311), and *exuviata*, *vittata*, and *physodes* of Curtis's Botanical Magazine (Nos. 871, 1046, 1329), is far nearer akin to ALBUCA than to ANTHERICUM, in which last it has been deposited by Jacquin and all subsequent writers till removed by ourselves. It is very probable that the five, with some other kindred species, which have been misplaced in ANTHERICUM, will be separated by others into a new genus; though in our view they are as conveniently stationed in ALBUCA.

Filifolia has been now first introduced by Mr. Griffin, from the Cape of Good Hope; where, according to Jacquin, it is found in Namaqua Land.

The drawing was taken in the conservatory at South Lambeth, in May last.

“The whole plant is quite smooth. *Bulb* ovately round, compactly scaled, with brown integuments. *Leaves* radical, generally three, filiform, semicylindrical pointed, shining, purplish at the base, green as to the rest, more or less flexuose, reclined, stiffish, the largest sometimes a foot in length, together with the central scape all enclosed at the base by one or two scariose pale coloured transversely wrinkled *rootsheaths*, about half an inch long, splitting and turning to one side when the plant flowers. *Scape* round, simple, shining, flexuose, upright, about the length and diameter of the leaves, purplish below. *Raceme* straight. *Flowers* without scent, about seven. *Peduncles* hardly half an inch long, spreading, subtended by a lanceolately taper-pointed *bracte*. Segments of the *corolla* oblong, obtuse, slightly concave, wide-spread, whitish, with a green (or purplish) vertical line along the middle of both surfaces, three alternate ones broader than the other three. *Filaments* subulate, equal, beardless, upright, twice shorter than the corolla, white. *Anthers* oblong, upright, yellow. *Germen* superior, oblong, three-cornered. *Style* filiform, ascending, white, the length of the stamens. *Stigma* slightly capitate, villous.”

We had no opportunity of inspecting the plant in blossom, and have taken the above description of the species from Jacquin.



W. H. Miller del.

W. H. Miller sculp.

VERBASCUM formosum.

Fischer's Mullein.

PENTANDRIA MONOGYNIA.

Nat. ord. SOLANÆE, *Jussieu gen.* 124. Div. I. Fructus capsularis.SOLANÆE. *Brown prod.* 1. 443. Sect. II.

VERBASCUM. Cal. inferus, monophyllus, parvus, persistens, 5-fidus segmentis profundis erectis acutis subæqualibus. Cor. 1-petala, rotata, inæqualis; *tubus* brevissimus; *limbus* patens, 5-fidus, laciniis profundis rotundatis. *Fil.* 5, subulata, inæqualia, distantia, declinata, lanata, breviora corollâ, basi inserta: *anth.* compressæ, erectæ, plûs minûsve reniformes, longitudinalitèr dehiscentes, incompletè biloculares. *Germ.* subrotundum: *stylus* filiformis, supernè levitèr extumescens, declinatus, sublongior staminibus; *stigma* obtusum. *Caps.* subrotundo-ovata v. ovato-oblonga, subcompressa, bilocularis, bivalvis, superne dehiscentis, valvis interdum medium usque fissilibus; *dissepimentum* duplex, ex valvarum marginibus inflexis parallelis confectum, sæpè incompletum; *receptaculum* ovatum v. globosum, centrale, ex lateri utroque (fructu in statu præcoci saltèm inspecto) cum valvis connexum; *sem.* numerosa, minuta, angulosa, punctata, receptaculo inserta. *Smith in rees's cyclop. in loco; (é textu angl. vers.)*

Rad. sæpiùs biennis, interdum perennis, fusiformis. Caulis sæpiùs solitarius, sesqui-4-8-pedalis, erectus, modò strictissimus, rarò subflexuosus, foliosus, in pluribus alternè ramosus, multiflorus, paniculatus, pedunculis racemosis; in *V. Myconi* nullus. *Anni* folia prioris cuncta radicalia, insequentis caulina, petiolata, sessilia v. decurrentia; semper alterna, simplicia, oblonga; indivisâ, lobata v. pinnatifida; simpliciter v. duplicatè crenata v. dentata, rarò integra; sæpiùs pube lanatâ albâ densâ, hirsutâ v. stellatâ, v. farinosâ atque deciduâ, vestita; interdum glabriuscula. Flores racemosi, sæpiùs aggregati, conferti atque numerosi; lutei, rariùs luteo-albicantes, v. purpurascens, v. subfuscentes. Bracteæ sæpiùs ovatae, v. lanceolatae, acutæ, ordine duplici (interiore et exteriori) dispositæ. *Smith loc. cit. (ex angl.)*

Sect. I. Thapsus. Spica cylindrica conferta, rarò laxa. Flores magni sessiles. Bracteæ ternæ. Herbae tomentosæ. Caules simplices, v. rariùs ramosi, stricti. Folia, sessilia, sæpiùs decurrentia. *Don MSS.*

V. formosum, ramosum; foliis sublanatis subtùs albicantibus suprâ viridibus nitentibus; inferioribus petiolatis oblongis sinuatis basi subcordatis; superioribus sessilibus cordatis acuminatis: spica laxa, tomentosa, floribus solitariis corollis calyce triplo longioribus fauce tuboque atro-purpureis; staminibus 2 inferioribus declinatis remotis, glaberrimis. *Don MSS.*

Verbascum formosum. *Fischer in litt.* *Schranck pl. rar. hort. monac.* 1. 22. tab. 22.

Verbascum spectabile. *Link enum. hort. berol.* 1. 176; (non vero *Marsch. bieb. flor. taur. cauc. suppl.* 158.)

Rad. subfusiformis, divisa, fibrosa, alba. Caulis 2 ad 3 pedes cum dimidio altus, strictus, ramosus, teres, pilis stellatis tomentosus, supernè versus tomento densiore: rami pauci, erecti, approximati. Folia rugosa,

nequaquam decurrentia, infima ambientia, humi sub anthesi recumbentia, sinuata, crenata, superiora obsolete sinuata crenataque, summa lato-cordata crenata cum acumine. Spica elongata, bracteæ trinæ lanceolato-acuminatæ extus tomentosæ, una (in cujus axillâ sedet flos) major, 2 minores calyci subtensæ atque æquales, cum majori decussantes, adscendentes. Cal. albo-lanatus, subbilabiato-rotatus, semi-5-fidus segmentis acuminatis, intus nudus nitens. Flores suaveolentes: cor. sesquiunciam v. ultra transversa, sulfurea areolâ fauciali nigricante nudiusculâ lucidâ; limbus bilabiato-rotatus extus tomentosus, laciniis rotundatis, 2 superioribus subminoribus divisurâ mutuâ brevioribus, 3 inferioribus tubo tenus partitis, horum mediâ majore orbiculatâ; tubus brevissimus intus nigricans. Stam. summo tubo inserta; 3 superiora conniventia erecta areolâ nigrâ vix longiora, filamentis atropurpureis hirsuto-barbatis; anth. lunulatæ, barbâ pallidè lutescenti receptaculi sui nidulantes; 2 inferiora declinata invicem divergentia, filamentis compresso-filiformibus nigricantibus firmis robustis nudiusculis infernè secundum latus interius pilis paucis raris conspersis: anth. nudæ, compresso-lineares angustæ, uniloculares mentientes, per latus interius filamentum carinato-adnatæ, rimâ mediâ longitudinali dehiscentes, thecâ viridiusculâ subnaviculari, polline aurantiaco-flavescente grumoso: pubes staminea è pilis clavato-capitatis. Stylus purpureus, filiformis, glaber, supernè subclavato-grossescens, filamentis inferioribus æqualis duplo verò tenuior: stigma viride, bilabiato-capitatum pruinosum, lobis crassis obtusis replicatis: germen ovato-rotundum, parvulum, albo-lanatum. Don MSS.

The species made its first appearance in this country in the Physic Garden at Chelsea, where seeds had been sent by Dr. Fischer from the Gorenki Garden at Moscow. Its native spot is not specified; but is probably somewhere within the oriental provinces of Russia.

In Professor's Link's Catalogue of the Berlin Garden the species is made synonymous with *VERBASCUM spectabile* of the Supplement to the Flora Taurico-caucasica; but if the description of that species comes even near to the truth, which from the usual correctness and fidelity of its author there is no reason to doubt, the two can never belong to the same type; and we have consequently retained the one before us under the title by which it is accurately described, but indifferently figured in "*The Rare Plants of the Botanic Garden at Munich, by M. Schranck.*"

Formosum is distinguished from its known congeners by leaves which are not decurrent, the lowermost of which are petioled and sinuated, by a loosely-set spike of large sulphur-coloured flowers with a black-purple smooth shining faux, and by two lower longer declined nearly smooth stamens.

It is a handsome tolerably hardy biennial with a sweet-scented blossom, and will soon become general in our collections.

The drawing was taken some time ago at the nursery of Messrs. Whitley and Co. in the King's Road, Fulham.
Don MSS.

We are to thank Mr. Don for the above account of the species.

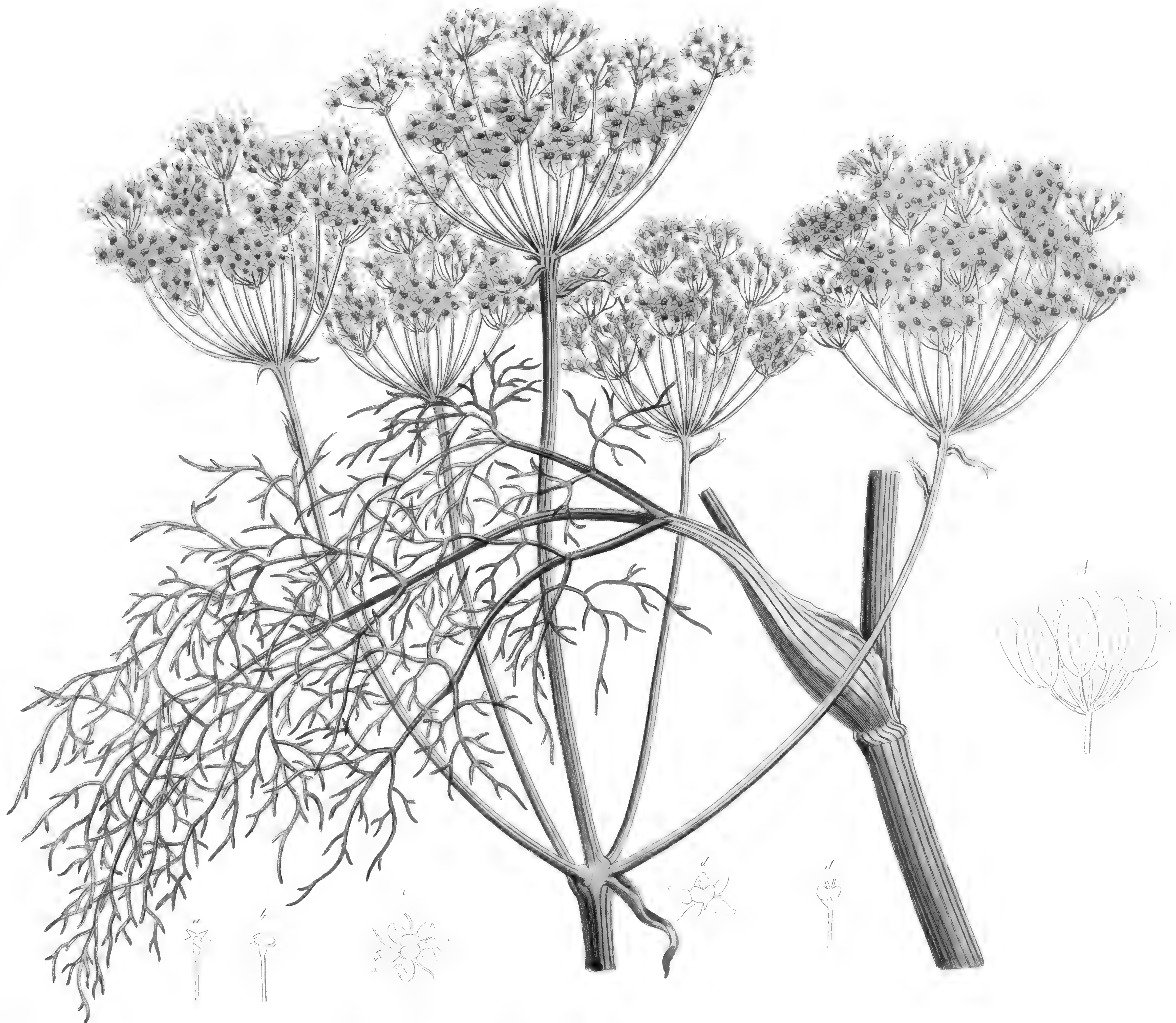
The following observations are borrowed from Sir James E. Smith.

“ There is so great a space between the inner edges of
“ the inflexed valves and the central receptacle, in *VER-*
“ *BASCUM pulverulentum* and some other species, that the
“ ripe capsule is literally of but one common cell, though
“ originally of two. *CELSIA* differs from this genus in hav-
“ ing four stamens only, two long and two short. Professor
“ Schrader, in the first part of an excellent monograph on
“ *VERBASCUM*, published at Gottingen in 1813, p. 14,
“ asserts that this difference is very constant and invariable,
“ and therefore he is not disposed to concur with those
“ botanists who combine these two genera. We heartily
“ assent to this determination. With regard to the new
“ genus of *RAMONDIA*, founded, if we mistake not, on *VER-*
“ *BASCUM Myconi*, and distinguished by having a capsule of
“ one cell, with two lateral linear receptacles; we must
“ suspend our judgment till we can examine into that
“ character, but the habit of the plant, and its oblong
“ heart-shaped two-celled anthers, indicate a very distinct
“ genus.”

“ The species of *VERBASCUM* are amongst the most un-
“ certain of any well-known genus. They are more than
“ commonly variable in the colour and size of their flowers,
“ and appear to be very subject to hybridous intermixture.
“ Hence we are led to mistrust some reputed species, de-
“ scribed even by the ablest writers. The production of
“ several mule ones has been traced and recorded, and we
“ have observed others. Professor Schrader indeed has long
“ cultivated and studied what he has described, and his
“ accuracy is indisputable.”

“ The whole genus is nearly, if not entirely, European,

“ the species found in America, except perhaps **VERBASCUM**
“ *Claytoni* of Pursh and Michaux, having been apparently
“ introduced from this quarter of the world. The Levant
“ produces many fine ones, not well known to Linnæus.”
Smith in Rees's cyclop. in loco.



Carota *var.* *officinalis* *L.*

PEUCEDANUM aureum.
Golden-flowered Sulphur-wort.

PENTANDRIA DIGYNIA.

Nat. ord. UMBELLIFERÆ. Jussieu gen. 218. Div. III. Umbelliferæ veræ. Umbellæ et umbellulæ involucreatæ. Tribus IX. SELINEÆ. Fructus compressi plani, sæpè alati. Involucra varia. Sprengel in Rœmer et Schulte. syst. veg. 6.

PEUCEDANUM. Fructus plani, marginati, non alati, costis dorsalibus 3 aut 5 obtusis valleculis rapheque parallelâ vittatis. Involucrum subnullum aut oligophyllum. Sprengel in Rœmer et Schulte. gen. 1. 286.

P. aureum, foliis ternato-supradecompositis flaccidis, foliolis pinnatifidis teneris, laciniis linearibus acutis, involucre subpinnatifido. Sprengel in Rœmer et Schulte. syst. veg. 6. 570.

Peucedanum aureum. Solander in hort. Kew. 1. 341. ed. 2. 2. 135. Willd. sp. pl. 1. 1407. Sprengel umbel. spec. 58.

Flores flavi. Caulis 3-pedalis, teres, glaber, subramosus, foliosus, digiti mediæ crassitie: folia petiolis flaccidis vaginantibus quinquies tripartitis; foliola tenera, flaccida, ferè TRICHOMANES, laciniis brevibus: siccata fuscescunt. Umbellæ terminales, radiis 40-50, subinæqualibus, glabris. Involucrum universale è foliis aliquot imperfectis; parziale polyphyllum setaceum, umbellulis parum brevius. Fructus ovales, compressi, dorso jugis 5 obsolete, vittis 4, stylis coronati. Spreng. l. c.

The order *Umbelliferæ* has been lately remodelled by Professor Sprengel, in a monograph which we believe is not yet published; but which has been communicated to Messrs. Rœmer and Schulte, by whom the substance is embodied in the sixth volume of their edition of the "*Systema Vegetabilium.*"

PEUCEDANUM ranks in the tribe *Selineæ*, distinguished by compressed, flat, frequently winged fruit, and variable involucre. Its generic character is founded on "the flat marginated wingless fruit, with either three or five obtuse dorsal ribs (*costæ*) vertically scored by sunk lines and a parallel suture."

The present species is native of the Canary Islands, from whence it was introduced by Mr. Francis Masson in 1790.

The drawing was taken from a sample which flowered in Mr. Lambert's garden, at Boyton, in Wiltshire.

The following description is adopted from Professor Sprengel.

“ *Flowers* yellow. *Stem* about three feet high, round, smooth, slightly branched, leafy, about as thick as the middle finger: *leaves* ternately superdecompound, limber, with sheathing, fivefoldedly tripartite limber *petioles*; *leaflets* pinnatifid, tender, limber (very like the fronds of the Fern called Maiden-hair), segments short, linear, pointed, turning brown when dry. *Umbels* terminal, 40-50-rayed, slightly uneven, smooth. *Common Involucre* slightly pinnatifid; *leaflets* few, imperfect: *partial one* of many leaflets, setaceous, and but little shorter than the partial umbels. *Fruit* surmounted by the permanent styles, oval, compressed, with five obsolete ridges, and four sunken lines along the back.

Marked in the Hortus Kewensis as a biennial. Requires the protection of a greenhouse.

It has never been figured in any other work.



London by J. Midgway 170 Piccadilly Aug. 1. 1821.

S. Watts. sc.

LILIUM longiflorum; β . *suaveolens*.*Sweet-scented Chinese Lily.*

HEXANDRIA MONOGYNIA.

Nat. ord. LILIA. Jussieu gen. 48.
 LILIACEÆ. Brown MSS.
 LILIUM. Suprà vol. 2. fol. 132.

L. *longiflorum*, foliis sparsis lanceolatis, corollis tubulato-campanulatis, caule glabro. Thunb. in trans. linn. soc. 2. 333.

Lilium longiflorum. Willd. sp. pl. 2. 84.

Lilium candidum. Thunb. jap. 133; (non aliorum).

Biakko vulgò Juri. Kæmpf. amœn. 871?

(β) *suaveolens*; uniflorum.

Caulis pedalis ultràque diametro ferè pennæ scriptoriæ, sparsim dissitiùsque foliosus, glaber. Fol. sessilia, patentissima, angustius lanceolata, glabra, nervosa, nervis tribus conspicuioribus, 3-4-uncialia latitudine quater quinquesve minore, acuminata, plana, utrinque attenuata, intervallis plurimum longiora. Pedunculus (individui præsentis) solitarius, terminalis, uniflorus, erectus, 3-uncialis, robustus atque caule parùm tenuior, nudus. Flos candidus, nutans, elongato-campanulatus, 5-uncialis v. ultrà, sexpartitus, laciniis elongato-spathulatis acutis, interioribus sublatioribus cum nervo medio verticali exteriori simplici prominente sulco interiori utrinque marginato respondente, laminâ ovali-lanceolatâ unciam circà transversâ, exteriorum $\frac{1}{2}$ circà latiore; tubus ex unguibus angustis elongatis imbricato-cohærentibus (facilè solvendis) conflatus, chloroleucus, 3-nervis, diametro circà pennæ olorinæ, limbo æqualis, supernè versùs levissimè dilatens; limbus turbinato-recurvus. Fil. laxiùs fasciculata, suprâ curvo brevi assurgentia, corollâ (imo cujus fundo inserta) $\frac{1}{2}$ circà breviora, gracilia, alba; anth. vitellinæ, vibratiles, oblongæ, post pollinis defluxum subtrotundæ. Stylus istorum æquilongus duplo tamen robustior, triqueter, albus; stigma capitato-trilobum, lobis carnosissimis crassis breviter ovatis pruinosis replicatis, canaliculo obsoleto notatis. Germ. viride, elongato-oblongum, duplo brevius stylo, 3-sulco-trigonum angulis obtusis cum lineâ mediâ depressâ.

LILIUM *longiflorum*, of Japan, was originally deemed by Thunberg the same with the Common White Lily of our gardens (*L. candidum*); but was afterwards separated, and if *longiflorum* is of the same species with the present, which we believe it to be from the description, there could exist no reason for uniting the two when they had been compared.

As that botanist speaks of *flowers*, in describing his *longiflorum*, it would follow that his plant had more than

one flower, which ours had not; but this may be a circumstance incident to culture. We have however noted the two as distinct varieties under proper names, by which they may be recognised and kept distinct as species if they should prove finally different.

The subject of this article has been now first introduced from China by the Horticultural Society, in whose conservatory it flowered in May last, when the present drawing was taken. The flower is elegant, of considerable duration, and delicately fragrant.

The species comes very near to *LILIUM japonicum*, but in that the corolla is twice larger, of a broad turbinate shape, very shortly tubular at the base, the pollen of a reddish brown, and the scent the reverse of agreeable.

Stem a foot or more high, smooth. *Leaves* scattered, wide-set, sessile, spreading, narrowly lanceolate, smooth, 3-4 inches long, flat, taper-pointed, narrowed towards the base. *Peduncle* (in our plant) solitary, terminal, one-flowered, upright, about 3 inches long. *Flower* white, nodding, elongatedly campanulate, five inches or more in length, sixparted; *segments* spatulately lengthened, pointed, *inner ones* rather broader, with an outer prominent mid-rib corresponding with an inner marginate furrow; *tube* greenish, formed by the long narrow imbricately cohering ungues of the segments, 3-nerved, equal to the limb and with the diameter of a swan-quill, very slightly enlarged upwards; *limb* turbinate recurved. *Anthers* deep yellow, when all the pollen is shed, nearly round. *Stigma* a 3-lobed fleshy head.



Drawn by J. Stimpson 1/6 from a copy Aug. 1. 1821.

MALVA grossularifolia; α ; inodora.
Gooseberry-leaved Cape-Mallow.

MONADELPHIA POLYANDRIA.

Nat. ord. MALVACEÆ. Jussieu gen. 271. Div. II. Stamina in tubum corolliferum connata, indefinita. Fructus multicapsularis; capsulæ verticillatæ, in orbem dispositæ aut in unam compactæ.

MALVA. Suprà vol. 4. fol. 295.

Div. Foliis angulatis.

M. grossularifolia, foliis oblongis subtrilobis inæqualitèr dentatis, pedunculis solitariis petioli longitudine. Willd. sp. pl. 3. 783; et enum. 2. 730.

Malva grossularifolia. Cavan. diss. 2. 71. t. 24. fig. 2. Hort. Kew. ed. 2. 4. 214.

Malva capensis. β . Lin. sp. pl. ed. 2. 2. 968.

Malva capensis frutescens grossulariæ folio majore hirsuto. Dillen. hort. elth. 209. t. 169. f. 207.

(β) MALVA *balsamica*, foliis ovatis subtrilobis acutis inæqualitèr dentatis, pedunculis solitariis petiolo longioribus. Willd. sp. pl. 3. 782.

Malva balsamica. Jacq. ic. rar. 1. t. 140; (nec verò misc. 2. 321, ubi fortè fragrantis varietatem intelligitur?) Hort. Kew. ed. 2. 4. 214.

Frutex ramosus 4-pedalis v. altior cortice fusco: rami hirsuti rubro-fusci, novelli virentes. Fol. (in plantâ adultâ) 1-sesquiuncialia, laxius hirsuta, ovata, subtriloba, depresso-nervosa, inæqualitèr dentata acutula: pet. brevior laminâ: stipulæ geminæ, parvulæ, ovatæ, ciliatæ, acutæ, patentès. Flores roseo-rubentes, intùs disco et venis sanguineo-purpurascens, inodori, diametro unciam parùm excedente. Pedunculi axillares, solitarii, subuniflori, pilosi, plurimùm longiores petiolo. Cal. inter. viridis, extùs pilosus, semisfidus segmentis ovato-cuspidatis: exter. 3-phyllus remotiusculus, $\frac{2}{3}$ brevior, foliolis distantibus, rotatis, lanceolatis, segmentis interioris bis terve angustioribus, piloso-ciliatis. Cor. 6-partita rotata: lac. oblato-obcordatæ, contiguæ (nequaquam imbricantes) unguiculo brevi; disco et margine infero villosæ. Columna staminea $\frac{1}{2}$ circà brevior corollâ, pro $\frac{2}{3}$ circà pedicellato-antherifera, deindè ad basin usque tota pilis stellatis hirsuta, basi maculis 5 sanguineis transversè linearibus divisuris corollæ oppositis notata: anth. numerosæ, nigricantes, laxius patentès, polline ochroleuco, pedicellis purpureis. Germ. depresso-orbiculatum, sub12radiatum, disco villosum: stylus 12-fidus? lobis filiformi-elongatis, recurvatis, sanguineis, capitulo stigmatoso concolori apiculatis.

Our plant is the undoubted *grossularifolia*, and, if we were to judge from the figure in Jacquin's "Icones," we should say, likewise *balsamica*: of which last species there is no sample in the Banksian Herbarium, although it is enumerated in the Hortus Kewensis. The description given of *balsamica* by Jacquin in his "Miscellanea," attributes

however a fragrance to the foliage of that plant clearly not belonging to the present, where the foliage is entirely scentless. We cannot help suspecting that Jacquin's figure belongs to *grossularifolia*, but that his description has been taken from a variety of *fragrans* (see vol. 4. 296 of this work), and that *balsamica* has arisen from some confusion between *fragrans* and *grossularifolia*.

Grossularifolia differs from *fragrans*, in being a humbler and slenderer plant, with smaller scentless less conspicuously lobed leaves and one-flowered peduncles; the exterior calyx is also placed at a greater distance from the inner than in *fragrans*, and the lower part of the stameneous column is covered all the way to the base with a starry pubescence, which is not the case in *fragrans*, where the pubescence is only to be found just below the anthers.

Grossularifolia is a hardy valuable greenhouse shrub; producing the summer through a profusion of rose-coloured blossom. It seeds freely; and is easily propagated by cuttings. The seedling plants vary exceedingly in the size and even shape of their leaves, which are sometimes round and cordate at the base, at others tapered and cuneate.

The drawing was taken from a plant about four feet high, with a brown woody stem about the thickness of a man's thumb, and supposed to be about four or five years old; and which had been raised from seed in a cottage garden at Southampton.



ÆNOTHERA Romanzovii.

Violet-flowered Ænothera.

OCTANDRIA MONOGYNIA.

Nat. ord. ONAGRÆ. *Jussieu gen.* 317. *Div. III.* Stylus unicus. Fructus capsularis. Stamina petalorum dupla.

ONAGRARIÆ. *Jussieu in ann. du mus.* 5. 21.

ÆNOTHERA. *Suprà vol. 2. fol.* 147.

Æ. Romanzovii, ramis elongatis lentis, foliis lanceolatis mucrone recurvo; calycis segmentis lineari-oblongis corollâ duplo brevioribus capsulis cylindraceo-oblongis: stigmatè 4-lobo fauce incluso. *Don MSS.*

Ænothera Romanzovii. *Ledebour MSS. Hornem. hort. hafn. suppl.* 1. 133. *Link enum. hort. berol.* 1. 378.

Planta annua, sericeo-glaucescens. Caulis infernè decumbens, ramosissimus ramis adscendentibus mollibus. Folia alterna, lanceolata, breviter petiolata, integerrima mucrone recurvo. Flores violacei axillares. Segmenta calycis lineari-oblonga integerrima uninervia obtusè mucronata, duplo corollâ breviora, sæpè per paria collateraliter connexa. Coræ. petala obovata, margine crenulato-crispa. Filamenta inæqualia: antheræ oblongæ. Stigma atropurpureum, 4-lobum, corollæ faucem nunquam exsuperans. Capsula cylindræa, subuncialis, obsolete 8-sulcata, basi attenuata. *Don MSS.*

Native of the Northw-est Coast of America, where it was observed by Dr. Chamisso, the naturalist of the late expedition of discovery sent from Russia, under the command of Lieutenant Kotzebue.

The species is named in compliment to Count Romanzow, the Minister of the Russian Marine.

An annual plant with a glaucous silky surface. *Stem* decumbent at the lower part, numerously branched with soft flexile ascending branches. *Leaves* alternate, lanceolate, shortly petioled, quite entire, with a recurved mucro (separate point). *Flowers* axillary of a violet colour. *Segments* of the calyx linearly oblong, quite entire, one-nerved, bluntly mucronate, twice shorter than the corolla, often attached by their sides in pairs. *Petals* of the corolla obovate, crenulately curled at the edge. *Filaments* of unequal lengths; *anthers* oblong. *Stigma* black-purple, 4-lobed, never overtopping the faux of the corolla. *Capsule*

cylindrical, about an inch long, obsolete 8-furrowed, tapered at the base.

Closely akin to *ŒNOTHERA purpurea*; which is however truly distinct from it, and differs, by an upright rigid stem that divides into short stiff branches at the upper part; by broader shorter leaves with a straight mucro; by lanceolate keeled subulately pointed calycine leaflets, almost even with the corolla, which is of a red instead of a blue purple colour; by cordately ovate anthers; by a style protruded beyond the faux and even with the stamens; by a stigma sometimes entire, sometimes shallowly 4-lobed; lastly by capsules which are ventricose and far shorter, with eight deep longitudinal furrows and a rounded instead of a tapered base.

ŒNOTHERA Romanzovii is of very late introduction, having been received at the Physic Garden, Chelsea, either from Berlin or Moscow, the year before last; but is already to be met with in many collections in the vicinity of London, where it is treated as a hardy annual. The drawing was taken in Mr. Kent's garden, Clapton. *Don MSS.*

We have to thank Mr. Don for the above article.



DIOSMA rubra.

Juniper-leaved Diosma.

PENTANDRIA MONOGYNIA.

Nat. ord. RUTACEÆ. Jussieu gen. 269. Div. III. Genera Rutaceis affinia.

DIOSMEÆ. Brown gen. rem. in flind. voy. 2. 545.

DIOSMA. Suprà vol. 5. fol. 366.

Div. Diosmæ veræ. Stamina extra coronam inserta; 5 fertilia: sterilia nulla.

D. rubra, foliis linearibus mucronatis glabris (molli-ciliatis), carinatis subtus bifariam punctatis. *Lin. sp. pl. ed. 2. 1. 287.*

Diosma rubra. *Mill. dict. ed. 8. n. 3. Berg. cap. 62. Thunb. prod. 42. Willd. sp. pl. 1. 1134. Hort. Kew. ed. 2. 2. 29.*

Diosma ericifolia. *Andrews's reposit. 451.*

Diosma tenuifolium. *Willd. enum. 1. 258?*

Spiræa africana odorata, floribus suavè rubentibus. *Commel. rar. 2. t. 2.*

Frutex juniperinus, erectus, prolifero-ramosus; rami teretes, foliosi, sub-rubentes, ramulis corymboso-approximatis virentibus cum pube minutâ, apice floriferis. Folia sparsa, proxima, imbricato-patentia, crassiuscula, strictiuscula, lineari-subulata, cartilagineo-mucronata, subtus carinato-convexa punctisque glandulosis biseriato-notata; villosociliata, cæterum glabra, semuncialia ad uncialia usque, suprâ plana: pet. brevis, appressus, complanatus, pallidus. Cymulæ terminales, paucifloræ; flores albo-rubentes, parvuli, erecti, ut et folia odorem strenuum herbaceo-resinosum spirantes; pedunculi in summis foliis axillares iisque subæquales, bis terve divisi, erecti, teretes, lanuginosi; pedicelli brevissimi bracteis trinis pallentibus ad basin. Cal. lanuginosus, duplo brevior corollâ magisve, patens, segmentis ovato-acuminatis apice roseis. Petala campanulato-patentia, obovato-oblonga, sessilia, planiuscula, æqualia, apice rotundata, disco glanduloso calycis inserta. Stam. 5, petalis breviora et cum iis in plano eodem extra coronam inserta, primò inflexa indè successivè arrigenda atque divaricanda; sterilia nulla: fil. subulata, rubentia; anth. ovata, erecta, à basi infixa, introrsa, glandulâ minutâ concolori ex erectâ reflectendâ præfixa, primò roseo-rubentes denuo nigricantes, polline grumoso, aureo-flavescente. Germ. 5, supera, in stellam connexa, pallido-virentia, intra coronam concavam 5-lobo-plicatam recondita: stylus cylindricus, pallidus, crassiusculus, inflexo-arrigendus, staminibus æqualis; stigma subcapitato-obtusum.

A species of that group which, according to Willdenow, should alone constitute the true DIOSMA; but which in our view connects too naturally and conveniently with the others that have been detached from it by that botanist to induce us to regard it as usefully separable.

Native of the Cape of Good Hope ; and recorded as having been cultivated by Miller, in 1752.

The blossom is sometimes wholly white.

A proliferously branching upright shrub, something like a Juniper ; *branches* round, leafy, reddish ; *branchlets* green with a fine down, corymbose, bearing the flowers at the top. *Leaves* scattered, closish, imbricately spreading, thickish, linearly subulate, cartilaginously pointed, keeled and convex beneath, with two rows of glandular dots ; villously fringed, otherwise smooth, from $\frac{1}{2}$ an inch to an inch long, flat at the upper side : *petiole* short, close-pressed, flattened, pale. *Cymules* few-flowered, terminal ; *flowers* whitish red, small, upright, with a strong resinous scent like that in the leaves ; *peduncles* in the axils of the topmost leaves, and about the same length with them, once or twice divided, upright, round, downy ; *pedicles* very short, with 3 pale *bractes* at the base. *Calyx* downy, twice shorter than the corolla or more, spreading, with ovately acuminate segments rose-red at the end. *Petals* campanulately spreading, obovately oblong, sessile, flattish, even, rounded at the top, inserted on the glandular disk of the calyx. *Stamens* 5, shorter than the petals and inserted on the outside of the coronal disk at the same point with them, at first inflected, then extending themselves straight, one after the other, when they become divaricate ; *sterile ones* none : *filaments* subulate, red ; *anthers* ovate, upright, fixed on at the base, facing inwards, surmounted by a small gland of the same colour as themselves originally standing upright but afterwards bending flat back along the anther, at first rosy red, at last black ; *pollen* grumous, golden-yellow. *Germens* 5, superior connected together so as to form a star, pale green, lying within a hollow *crown* with five lobelike plaits : *style* cylindrical, pale, thickish, from inbent becoming upright and straight, equal to the stamens ; *stigma* subcapitately obtuse.

A hardy greenhouse shrub.



Publ by J. Huby way 176 *Piscidily* Sept 1. 1821.

J. W. W. Co.

ANTHERICUM pomeridianum.

Postmeridian Anthericum.

HEXANDRIA MONOGYNIA.

Nat. ord. ASPHODELI. *Jussieu gen.* 51. *Div. II.* Flores spicati.
Radix fibrosa. Calyx sexpartitus, basi staminifer.

ASPHODELEÆ. *Brown prod.* 1. 274.

ANTHERICUM. Cor. sexpartita, patens, æqualis, decidua. Fil. (omnia v. interiora) barbata. Anth. versatiles. Germ. loculis polyspermis. Stylus filiformis. Stigma subpapulosum. Caps. subglobosa, 3-loc., 3-valvis, valvis medio septiferis. Sem. pauca, angulata, umbilico nudo.

Herbæ sæpè annuæ. Radix fasciculato-fibrosa, rariùsve tuberosa. Folia linearia, canaliculata, sæpè carnosà. Racemi simplices. Pedunculi solitarii, cum calyce articulati. Flores erecti, flavi. Stam. sæpè declinata. Filamentorum barba laxa. Embryo in quibusdam rectus. *Brown prod.* 1. 275.

OBS. Corolla sæpè emarcido-persistens. Filamenta interdum nuda. Germinis loculamenta modò disperma. Flores colore varii. Capsula nunc oblonga. In PHALANGIO proximo antheræ erectæ à basi insertæ, stylus supernè versus incrascens, pedunculi infra calycem nequaquàm cum illo articulati.

A. pomeridianum, foliis flaccidiusculis lato-subulatis, triquetro-canaliculatis cum carinâ acutâ, glaucis margine nervisque (suprà) scabris; caule paniculato-ramoso: filamentis imberbibus.

Anthericum pomeridianum. *Nobis in journ. of science and the arts.* 1. 181.

Scilla pomeridiana. *Decand. hort. monsp.* 143. n. 195. *Redouté liliac.* 8. t. 421.

Rhizoma bulbiceps tunicis fuscis grossiùs fibroso-contextis subvaginantibus vestitum. Folia radicalia, scirpoideo-triquetra, lenta, plura, ambientia, exteriora longiora, sesqui-bipedalia, suprà glauca nervisque scabris striata, ultimis lateribus revoluta, subtùs glabra virentia. Flores pomeridiani, fugaces, teneri, convoluto-emarcescentes, albi, inodori. Pedunculi 1-flori, virides, teretes, glabri: corolla diametro subsesquiunciali, sexpartita, recurvo-radiata, infernè connivens, laciniis lineari-ligulatis, obtusis, supernè distantibus, vittâ mediâ dorsali è viridi atque purpureo sordescente notatis, interioribus sublatioribus obtusioribusque. Stam. corollæ æqualia, erecto-divergentia: fil. basi laciniarum brevissimè adnata, filiformi-subulata, glabra, infernè subdilatata intùsque subcanaliculata: anth. lineari-oblongæ, violaceo-fuscatæ, poliline luteo. Germ. viride, oblongum, supernè angustatum, pluriès brevius stylo, rotundatè 3-gonum, lineis 6 pallidioribus notatum, loculis subdispermis. Stylus setaceus, cum curvo leni subascendens, staminibus æqualis, puncto stigmatoso emarginato terminatus.

Recently introduced by Messrs. Colvill, with whom it flowered last June in the greenhouse of their nursery in the King's Road, Chelsea. The native place does not appear to have been ascertained. It has been cultivated for some

years past in the Botanic garden at Montpellier, where it had been obtained from a collection at Bourdeaux. It has been referred to *SCILLA* by M. De Candolle, and specifically named by that celebrated botanist, from the circumstance of the blossom expanding after mid-day.

We suspect the plant to be of the same species with a dilapidated sample from the Cape of Good Hope, preserved in the Banksian Herbarium under the title *ANTHERICUM scabrum*; but from the imperfect state of the specimen we offer our opinion as a mere guess.

Rootstock bulbicipitous (terminated by a bulblike bud), with brownish fibrous coarsely reticulated integuments. *Leaves* radical, bullrush-shaped, several, ambient, somewhat flaccid, broadly subulate, 3-sided, channelled with a sharp keel beneath, glaucous at the upper surface and streaked with shagreenly roughened nerves, outer ones about a foot and a half long, revolute along the edge, smooth and green underneath. *Flowers* fugitive, tender, twisting their segments together as they decay, white, scentless. *Peduncles* one-flowered, green, round, smooth: *corolla* about an inch and a half across, sixparted, recurvedly stellate, converging downwards; segments linearly ligulate, obtuse, upwards wide apart, marked down the middle of the back by a purplish green line, inner ones rather broader and blunter. *Stamens* even with the corolla, uprightly divergent: *filaments* very shallowly fixed to the base of the segments, filiformly subulate, smooth, somewhat widened downwards and inwardly channelled. *Germen* green, oblongly tapered, several times shorter than the style, roundedly 3-cornered, and marked with six paler lines; cells 2-seeded: *style* setaceous, inclining slightly upwards with a gentle curve, even with the stamens; terminated by an inconspicuous notch for the stigma.



Phlox *sp.*

sp.

Watts. Sc.

OSBECKIA zeylanica.

Ceylonese Osbeckia.

OCTANDRIA MONOGYNIA.

Nat. ord. MELASTOME. *Jussieu gen.* 328. *Div. II.*MELASTOMACEÆ. *Brown bot. of congo.* 15.OSBECKIA. *Suprà fol.* 542.*O. zeylanica*, foliis petiolatis calycibus hispidis. *Willd. sp. pl.* 2. 300.*Osbeckia zeylanica*. *Linx. suppl.* 215. *Hort. Kew. ed. 2.* 2. 340.*Echinophora maderaspatana*, sideritis non serratis nervosis foliis, fructu capsulari *Caucalidis æmulo*. *Pluk. alm.* 132. t. 173. f. 4.

Frutex appressè strigosus; rami oppositi, axillares, erecti, 4-goni, bisulcati, ad sulcorum marginem saturatiùs virentes. Folia opposita, decussato-distantia, ovali-lanceolata, patentia, 3-nervia, setulis decumbentibus strigosa: pet. breves, strigosi, basi lineá prominulá setis longioribus porrectis ciliatá utrinque conneri. Cymæ terminales pauci(5)floræ, foliis 4 subtensæ, bracteata, floribus subsessilibus albis v. carneo-subrubentibus, diametro unciali ad sesquiuncialem. Cal. virescens semi-4-v. 5-fidus; tubus extus spinis viridibus radiato-compositis patentibus muricatus; segmenta ovato-oblonga, acuminata, ciliata, longitudine fermè tubi, setá longiori simplici præfixa, spiná externarum conformi insterstinata, cæterum glabra atque enervia. Petala 4-5, lato-obovata, deorsum cuneata, pube minutá rubro-capitatá fimbriata. Stam. 8-10, corollá breviora, alterna (ubi 10), subbreviora, effæctiora v. tardiora; fil. virentia, filiformia; anth. lineari-attenuata, articulato-affixæ, flavæ, ad ventrem violaceo-tinctæ, erectes, apice foratæ, loculi 2 receptaculo basi incurvato intùsque didymo-protuberante adnati. Germ. pallidè virens, ellipticum, glabrum, 4-(5-) loculare, setis 8-(10, pare uno pro singulo loculo) simplicibus circa basin styli præfixum: stylus virens, cylindricus, robustus, glaber, obsoletè curvatus; stigma apex obtusus papulosus.

As in *OSBECKIA chinensis* of the 542d number of this publication, the flowers in the present species vary with from 8 to 10 parts; but in that, ten seemed the predominant number, while in this, eight seems to be the prevailing one. Here when the stamens are ten the alternate five are smaller and paler than the other five. The flowers are white with a purple fringe of minute glandularly tipped hairs. In the dried samples the petals appear of a light pink colour.

Introduced from the East Indies by Sir Joseph Banks in 1799. The drawing was taken in the hothouse belonging to Messrs. Colvill in the King's Road, Chelsea.

A strigosely pubescent *shrub*; *branches* opposite, axillary, upright, 2-furrowed, and of a deeper green at the edges of the furrows. *Leaves* opposite, decussately wideset, ovals lanceolate, spreading, 3-nerved, with a short stiff decumbent fur: *petioles* short, strigose, connected on each side by a slight ridge bearing a line of longish outstretched bristles. *Cymes* terminal, few (5) flowered, with a kind of 4-leaved involucre, bracteate, with white or pinkish subsessile flowers of about an inch or an inch and a half in diameter. *Calyx* green, half 4 or 5-cleft; *tube* muricated on the outside, spines green spreading and radiately compound; *segments* ovately oblong, taper-pointed, fringed, nearly of the length of tube, surmounted by a long simple seta, separated by a spine in the fork of each division, otherwise smooth and without nerves. *Petals* 4-5, broadly obovate, cuneately tapered downwards, fringed at the upper edge. - *Stamens* 8-10, shorter than the corolla: *anthers* linearly tapered, deep yellow, stained with purple on the inner side, beakless, perforated at the top, *loculaments* 2 adhering to the front of the receptacle which turns up and is didymously protuberant at the base. *Germen* smooth, 4-5-celled surmounted by 3-10 setæ at the end round the base of the style, 2 setæ being allotted to each cell; *style* green cylindrical, slightly curved.



HYDROLEA spinosa.

Thorny Hydrolea.

PENTANDRIA DIGYNIA.

Nat. ord. CONVULVULI. *Jussieu gen.* 132. *Div. II.* Styli plures.HYDROLEACEÆ. Ordo *Polemoneaceis* affinium quam *Convolvulaceis*. *Brown bot. of congo.* 32.OBS. *Corrugatio cotyledonum definito seminum numero semper comitata est, ideoque ex Convolvulaceis amandavi HYDROLEAM, NAMAM, SAGONEAM et DIAPENSIAM, utroque caractere orbata; necnon RETZIAM cujus semina pauciora subdefinita, sed embryone recto, teretiusculo intra albumen carnosum incluso instructa, et habitus diversissimus.* *Brown prod.* 1. 482.*HYDROLEA.* Cal. 5-partitus, persistens. Cor. rotato-campanulata, limbo 5-rariùs 6-aut 7-fido, patente. Stam. 5, inclusa. Filamenta basi dilatata. Anth. sagittatæ. Styli 2, rariùs 3. Stigmata truncata. Caps. subglobosa, 2-rariùs 3-ocularis, loculicido-bi-rariùs trivalvis; placentæ 2, rariùs 3 (una in quolibet loculamento), magnæ, hemisphæricæ, per lamellam dorsalem in axi capsulæ ad dissepimentum affixæ, ubique seminiferæ.Herbæ suffruticosæ, spinosæ, piloso-glutinosa, spinis axillaribus. Folia alterna integra. Flores axillares et terminales cærulei. *Kunth nov. gen. et spec.* 3. 98.*H. spinosa*, floribus terminalibus, subcorymbosis; capitellis hirtellis. *Kunth nov. gen. et spec.* 3. 98.*Hydrolea spinosa.* *Lin. sp. pl.* 1. 328. *Aubl. guian.* 1. 281. t. 110. *Willd. sp. pl.* 1. 1327. *Hort. Kew. ed. 2.* 2. 108.*Hydrolea trigyna.* *Swartz fl. ind. occid.* 1. 558. *Willd. sp. pl.* 1. 1327.*Spina di Vagra.* *Araguensium; (fide Kunth).**Hierba del cancer.* *Popayanensium; (fide Kunth.)*Frutex ramis hirsutis. Præfloratio imbricata. Cal. profundè 5-rariùs 6-partitus, externè pilosus pilis diaphanis, septis transversis articulatis; laciniis lanceolatis, acutis, integerrimis, subinæqualibus, 1-nerviis, viridibus. Cor. campanulato-rotata, glabra, cærulea, calycem superans; tubo brevi infundibuliformi; limbo 5-partito, patente, laciniis subrotundo-ovatis, obtusis, integerrimis, æqualibus, flabellato-venosis. Stamina medio tubo inserta, corollâ breviora, æqualia; fil. lineari-subulata, membranacea, glabra, basi dilatata; anth. dorso affixæ, incumbentes, oblongo-lineares, obtusæ, basi bifido-sagittatæ, biloculares, longitudinalitèr internè dehiscentes. Germ. oblongum, supernè pilosiusculum, disco orbiculari integro glabro impositum: styli 2, longitudine staminum, filiformes, glabri, cærulei; stigmata incrassata, obliquè truncata. Caps. subglobosa acuta stylis coronata, calyce suffulta eumque subæquans, magnitudine *Pisi majoris*, glabra, apice hirtella, tenuis, diaphana, bilocul., loculicido-bivalvis; placentæ 2 (1 in quolibet loculo) magnæ, hemisphæricæ, verrucosæ, per lamellam dorsalem angustam dissepimento affixæ: sem. creberrima, minutissima. *Kunth l. c.*

Introduced from the West Indies by Mr. Alex. Anderson in 1791; and lately received from the Brazils by Mr. Lee

of the Hammersmith Nursery, where our sample flowered this summer in the hothouse.

It was found at Vera Cruz by Dr. Houstoun, by Aublet in Guiana; and lastly by Messrs. Humboldt and Bonpland in the vallies of Aragua at the height of 240 fathom above the level of the sea, and in the province of Popayan at the height of 500 fathoms.

The order *Hydroleæ* was detached from *Convolvulaceæ* by Mr. Brown; differing by the absence of the remarkable wrinkles that distinguish the seedlobes of the latter, and the presence of which has been found by that eminent botanist constantly to announce a fruit with a small and limited number of seed, while its absence in the *Hydroleæ* (in truth more closely allied to *Polemoniaceæ*) announces a fruit with an indefinite number of seed. But besides the above technical differences, the habits of the two orders are very distinct.

A subshrubby thorny plant, with a clammy fur; *thorns* axillary. *Leaves* alternate, entire. *Flowers* both terminal and axillary, imbricately folded before expansion. *Calyx* deeply 5—(seldom 6) parted, furred on the outside; hairs transparent and jointed; segments lanceolate, pointed, entire, slightly uneven, 1-nerved, green. *Corolla* campanulately rotate, smooth, overtopping the calyx; *tube* short, funnelled; *limb* 5-parted, spreading, segments roundishly ovate, obtuse, entire, even, with fanwisely disposed veins. *Stamens* inserted at the middle of the tube, shorter than the corolla, even; *filaments* linearly subulate, membranous, smooth, widened at the base; *anthers* fixed on at the back, balanced, oblongly linear, obtuse, sagittately bifid at the base, 2-celled, bursting longitudinally. *Germen* oblong, slightly furred at the top, placed upon an orbicular entire smooth disk (fleshy basement): *styles* 2 (sometimes 3) the length of the stamens, filiform, smooth, blue; *stigmas* thickened slantingly truncated. *From the latin of M. Kunth.*



BRUNSVIGIA toxicaria.

Fan-leaved Brunsvigia. Poison-bulb.

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. *Jussieu* 54. *Div. II.* Germen inferum.AMARYLLIDÆ. *Brown prod.* 1, 296. *Sect. I.* Radix bulbosa. Flores spathacei umbellati, raro solitarii.BRUNSVIGIA. *Suprà vol. 3. fol. 192;* (ubi pro "filamenta inclusa," legendum "filamenta inclusa vel exserta").

B. toxicaria, umbella crebra, florifera hemisphærica conferta; fructifera sphærica laxa scapum subexcedente; corollâ infundibuliformi regulari; foliis plurimis erectis lorato-elongatis acuminatis obliquis glaucis margine lævi: staminibus erecto-divaricatis subexsertis.

Brunsvigia toxicaria. Nobis suprà vol. 2. fol. 139, pag. 3, in notâ; et vol. 3. fol. 192, pag. 4. in spec. enum.

Hæmanthus toxicarius. Hort. Kew. 1. 405. ed. 2. 2. 208. Thunb. prod. 59. Willd. sp. pl. 2. 27. Jacq. fragm. 36. n. 116. tabb. 39 et 40. fig. 1.; (figg. è speciminibus spontaneis siccatis desumptæ). Nobis in Curtis's magaz. 1217. Lichtenstein reise in sudl. afr. 2. 321.

Amaryllis disticha. Linn. suppl. 195. Paterson's travels 51; cum icone pessimâ. Burchell cat. geogr. 4194.

Bulbus tunicatus, ovato-oblongus, integumentis innumeris tenuibus fibroso-membranaceis corticato-compactis vestitus, diametro nunc brachii vel duplo majore, scapo altior. Folia bifaria, plurimâ, erecto-divergentia, lorato-elongata, lanceolato-acuminata, glauca, obliquata, flore tardiora. Scapus foliis præcocior, robustus, vix umbellâ longior, tereti-compressus hincque planior, glauco-pallescens. Spatha numerosiflora, bivalvis, pedunculis æqualis, valvis ovato-oblongis, acuminatis, recurvandis: pedunculi bracteis tenuissimis distincti, triquetro-filiformes, pennâ passerinâ paulò crassiores, virentes, nitidi, cum germine clavato-continui, floriferi 2unciales v. parum longiores, fructiferi 4-6-unciales. Flores carneo-pallentes, fœnum recens gratè redolentes: cor. 1¼ unciaè parùm exsuperans, revoluto-infundibuliformis, regularis; tubus strictus, rectus, crassus (diametro ferè pennæ scriptoriæ medicæ magnitudinis), chloroleucus, germi subæqualis, limbo plus duplo brevior; limbus 6-partitus, turbinato-revolutus, laciniis stellato-distantibus, angustè ligulatis, æquilongis, acutis, exter. 3 subangustioribus convoluto-canaliculatis, hamato-mucronatis mucrone basi subpubente, inter. planioribus obsolete mucronatis. Stam. exserta, æqualia, erecto-patentia, curvula, fil. alba, subulato-filiformia, tubum prominentè decurrentia: anth. versatili-incumbentes, angusto-oblongatæ, primò carneo-rubentes, defloratis purpureo-fuscescentibus; pollen ochroleucum. Stylus staminibus æquilongus, sesquiuncialis, ¼ longior corollâ, albicans, inclinato-erectus, gracilis, triquetro-filiformis; stigma apex inconspicuus simplicissimus. Germ. angustè turbintum v. trigono-clavatum angulis acutè compressis, estriatum, ter quaterve pedunculo brevius, loculamentis collateralibus (biseriato-)dispermis ovulis albis rotundis. Caps. bulbisperma, seminibus tuberoso-laxatis subrotundis albidis magnitudine ferè Pisi.

Plants of this fine species have been pretty common in our collections for fifty years past; but it is believed that not more than one or two have blossomed during that period. In the magnificent gardens of Schoenbrunn, near Vienna, where the cultivation of the Cape *Liliaceæ* has been carried on upon a larger scale and with more success than in any other, no plant of this species has ever been known to flower: and its nearest congener *ciliaris*, also pretty common in the European collections, appears never to have produced its bloom even in a single instance.

The bulb of our sample was presented to H. R. H. Prince Leopold of Cobourg, with many others, by Mr. Burchell, on the return of that gentleman from his expedition into the interior of South Africa, and flowered in May last in the hothouse at Claremont, where it ripened its fruit in July. From thence we were favoured with the specimen for the use of this work.

We have to thank Mr. Burchell for the obliging communication of the following memorandum concerning the species. “It is a plant of frequent occurrence in the more
“ arid districts of Southern Africa, growing both in sandy
“ plains and rocky spots on the banks of the Bushmen’s
“ River at Rautenbach’s Drift. It is also found on the
“ great sandy plains of Litaakun. I have been assured by
“ the Bushmen themselves that the juice of the bulb is *one*
“ of the ingredients most commonly used in the poisonous
“ composition with which the heads of their arrows are co-
“ vered. The wild antelopes seem carefully to avoid brows-
“ ing the leaves of this plant, as I have observed it always
“ left untouched, although the surrounding herbage has
“ been grazed over.”

In the German edition of Lichtenstein’s Travels in South Africa we find another account of the Bushmen’s poison for their arrows. “The composition is of a brownish colour, and when fit for use sticky and of the consistence of wax, but soon becomes dry and hard. It is made by the mixture of several substances, the efficacy of which the Bushmen have learned by experiments upon living animals. The principal ingredient is always the poison taken from snakes, which being of itself too fluid and volatile for their use, is incorporated with the juice of a large kind of Spurge (*EUPHORBIA*), by which it acquires the waxy consistence al-

ready noticed. To this mass is generally added the expressed juice of the bulb of *HÆMANTHUS* (*BRUNSVIGIA*) *toxicarius*, an alkali supposed to add most powerfully to the activity of the poison, and known in the colony by the Dutch name of *Bolletje's Gift* (bulb-poison.)”

The bloom of this species, which is of a dull pink, diffuses a grateful fragrance, not unlike that of new-made hay. The umbel which at first is hemispherical and close, by the time the fruit is ripened, has become loose and completely globular, having lengthened the footstalks to twice or thrice the length they were at when in flower. The stem, as is usual in the genus, is dwarf in proportion to the rest of the plant.

Bulb tunicate, ovately oblong, coated by a thick rind formed by innumerable thin fibrously membranous integuments (the probable accumulation of ages) of the thickness of a man's arm or more, and deeper than the stem is high. *Leaves* several or many, bifarious, uprightly spreading, linearly elongated, lanceolate and taper-pointed, glaucous, oblique, coming after the flowers. *Scape* robust, hardly longer than the umbel, roundedly compressed and flatter on one side, pale and glaucous. *Spathe* 2-valved, even with the footstalks, valves ovately oblong, taper-pointed, reflexed; footstalks filiform, 3-cornered, rather thicker than the tube of a sparrow-quill, green, shining, clavately continuous with the germen, *flowerbearing* about 2 inches or little more in length, *fruitbearing* from 4 to 6 inches long. *Umbel* numerously flowered: *corolla* about $1\frac{1}{4}$ inch in diameter, revolutely funnelform, regular; *tube* stiff, straight, thick, greenish white, about the length of the germen, more than twice shorter than the limb; *limb* 6-parted, turbinate and revolute, segments standing starwisely apart, narrowly ligulate, even in length, pointed, 3 *outer ones* rather the narrowest, convolutely channelled, with a barbedly-hooked point slightly downy at the base, *inner ones* flatter and obsoletely mucronate. *Stamens* protruding, even, uprightly spreading, slightly curved; *filaments* white, subulately filiform, prominently decurrent along the tube: *anthers* balanced and traversing, narrowly and elongatedly oblong, at first pink, afterwards of purplish black; *pollen* cream-coloured. *Style* even with the stamens, $1\frac{1}{2}$ inch long, $\frac{1}{4}$ longer than the corolla, from upright inclining, slender, fili-

orm, 3-cornered; *stigma* an inconspicuous point. *Germen* narrowly turbinate, sharply 3-cornered, 3 or 4 times shorter than the peduncle; *cells* two-seeded; *ovules* white, round, and disposed side by side. *Capsule* bulbispermous; *seeds* tuberous, about the size of a Pea.

Introduced from the Cape of Good Hope by Mr. Masson in 1774.



Prunella angustifolia L.

MALPIGHIA coccifera.

Kermes-Oak-leaved Barbadoes-Cherry.

DECANDRIA TRIGYNIA.

Nat. ord. MALPIGHIA (MALPIGHIACEÆ). *Jussieu gen. 252. Div. II.*
Germen simplex. Fructus monocarpus.MALPIGHIA. *Suprà vol. 2. fol. 98.*

M. coccifera, foliis subovatis dentato-spinosis. *Lin. sp. pl. ed. 2. 1. 611.*
Malpighia coccifera. Cavan. diss. 8. 408. t. 235. fig. 2. Jacq. ic. rar. 3. t. 470. coll. 2. 311. Willd. sp. pl. 2. 737. Hort. Kew. ed. 2. 3. 105.
Malpighia humilis, ilicis cocciglandiferæ foliis. Plum. gen. 46. ic. 168. fig. 2.
 Frutex diffusus, ramosissimus, sempervirens, 4-pedalis ramis teretibus, asperis, junioribus etiam fuscis. Folia opposita, subovata, brevissimè petiolata, glabra, lætè virentia, nitida, parva, obtusa v. retusa, dentato-spinosa, rigidula, rarò inermia integerrima *Buxoque tunc simillima.* Pedunculi in ramulis brevibus terminales, tum etiam alii axillares, longitudine plùs minùs foliorum, solitarii vel gemelli, plerumque uniflori, rariùs bifidi et biflori, geniculati, ad geniculum brevissimè bracteati, infrà hoc virescentes, suprà idem purpurascens. Flores inodori. Calyx punctatus, virescens. Petala rosea. Antheræ luteæ. Calycis pentaphylli et parvi foliola sunt lanceolata, acuta, concava et erectiuscula; quorum duo proxima dorso duos glandulas oblongas singula gerunt; horum latus claudens duo unicam; his intermedium glandulâ caret. Petala inæqualia ex longo gracilique ungue in subrotundam et crispam laminam latescunt quorum duo magis approximata locantur ad calycis foliolum eglandulosum. Styli 3 incurvati. Bacca magnitudine *Pisi majoris* trisulcata, rubra. Semina rugosa. *Jacq. coll. l. c.*

Introduced before 1733, by Dr. Houstoun, from the West Indies; but the time of flowering being left in blank in the Hortus Kewensis, it has probably never flowered at Kew.

The drawing was taken this summer, from a plant in the hothouse at the nursery of Messrs. Colvill in the King's Road, Chelsea.

Jacquin describes the species as a straggling numerously branched evergreen about 4 feet in height, with round rough branches which are brown instead of green even in the young wood. *Leaves* opposite nearly ovate, very shortly petioled, smooth, bright-green, shining, obtuse, or retuse, dentately spinous, rather stiff, seldom spineless and quite entire, but when so, very like those of the Box-tree. *Peduncles* terminating the short branchlets, sometimes axillary,

about the length of the leaves, solitary or in pairs, generally 1-flowered, kneed, very shortly bracteate at the knees, below which they are green though purple above. *Flowers* scentless. *Calyx* dotted, green. *Petals* rosy. *Anthers* yellow. *Segments* of the small 5-leaved *calyx* lanceolate, pointed, concave and upright; of these the two nearest to one another bear each two oblong glands on the back, while the two that close upon their sides have only one gland, and the one between these none. *Petals* unequal; *unguis* long and narrow; *lamina* nearly round and curled at the edge; two nearer to each than the rest and opposite to the segments of the calyx that has no gland. *Styles* 3, inbent. *Berry* of the size of a largish Pea, 3-furrowed, red. *Seeds* wrinkled.



PROTEA grandiflora; β ; angustifolia.

Narrow-leaved great-flowered Protea.

TETRANDRIA MONOGYNIA.

Nat. ord. PROTEÆ. Jussieu gen. 78. Div. I. Semen nudum aut fructus monospermus.

PROTEACEÆ. *Brown in trans. lin. soc. 10. 15, seqq. Div. I. Fructus clausus. Subdiv. A. ANTHERÆ DISTINCTÆ: à corollâ liberæ. Flores hermaphroditi, rarò polygami dioici, stigmatè tunc verticali. Antheræ apicibus concavis corollæ immersæ. Germ. monospermum. Nux subcrustacea v. Samara. Squamulæ v. glandulæ 4 hypogynæ. Cor. irregularis, labiata, laciniis 3 (rarò omnibus) cohærentibus. Brown.*

PROTEA. *Suprà vol. 3. fol. 208.*

Div. Capitula terminalia.

P. grandiflora, foliis oblongis sessilibus ramisque glabris, involucri hemisphærico imberbi nudiusculo, corollâ tomentosâ; unguibus dorso glabriusculis; aristis brevissimis, stylo glabro. *Brown in trans. lin. soc. 10. 85.*

Protea grandiflora. *Thumb. diss. n. 51. Ejusd. prod. 27. Willd. sp. pl. 1. 530. Lamarck illustr. 1. 234. n. 1210. encyc. 5. 640. Hort. Kew. ed. 2. 1. 191.*

Protea cinaroides β . *Lin. sp. pl. ed. 1. 1. 92. ed. 2. 1. 136.*

Protea foliis lanceolatis integerrimis flore patente glabro stylis longissimis. *Roy. lugd. bat. 186.*

Scolymocephalos foliis oblongis. *Weinm. phytanth. 4. 286. t. 891.*

Lepidocarpodendron; folio saligno lato; caule purpurascens. *Boerh. lugd. bat. 2. 183*. c. tab.*

Scolymocephalus foliis oblongis glabris crassioribus latioribus. *Herm. cat. mt.*

(β) **Protea marginata.** *Lamarck illustr. 1. 235. n. 1225.*

OBS. *Variat involucri penitus glabro bracteisque exterioribus albo-tomentosis. Fol. quandoque lineari-oblonga et tunc ab icone P. abyssinicæ haud distinguenda. Brown.*

(β .) **Folia obscuro-glaucoscentia, opaca. Capitulum diametro subtriuncialia, chloroleucum.** Involucrum unciis 2 parùm profundius; foliola extùs lanugine sericeâ ex villis albis aliis cinnamomeo-coloratis commixtis pubescentia; exteriora brevia lanceolato-ovata, ciliata, extùs rufo-fuscescentia, interiora elongato-lanceolata, obtusiuscula, apice subciliata. Corollæ involucrum exsuperantes, aristâ subnullâ. Anth. ustulato-fuscescentes, polline ochroleuco. Stylus 2-uncialis, è corollâ longiùs extrusus, involucrum $\frac{1}{2}$ parte saltèm excedens, basi obsolete villosus, compressus. Glandulæ hypogynæ 4. Recept. convexum, alveolatum, diametro unciam parùm excedente.

A species that has rarely, as we presume, blossomed in the European collections, since we find it no where repre-

sented from the cultivated plant. It was originally introduced by Mr. Masson, in 1787, from the Cape of Good Hope.

The sample of the present variety flowered last August in the greenhouse of Messrs. Colvill in the King's Road, where it had been raised from Cape seed.

Mr. Brown observes that the variety with linear oblong leaves is not to be distinguished from the figure of the Abyssinian Protea (*PROTEA abyssinica*) to be seen in Bruce's Travels under the vernacular name *Gaguedi*.

It comes the nearest to *PROTEA Scolymus*, and seems to have received the specific title of *grandiflora* in reference to that species, which is small-flowered for the genus, as several others with much larger flowers are familiar in our collections.



PHILADELPHUS grandiflorus.

Large-flowered Philadelphus.

ICOSANDRIA MONOGYNIA.

Nat. ord. MYRTI (MYRTACEÆ). Jussieu gen. 322. Div. I. Flores in foliorum axillis aut in pedunculis multifloris oppositi. Folia plerumque opposita et punctata.

PHILADELPHUS. *Cal. turbinatus 4-fidus. Petala 4. Stigma 4-fidum. Caps. ovata seminifera 4-locularis 4-valvis polysperma seminibus minutis. Frutices aut arbusculæ; folia opposita non punctata; flores terminales corymbosi aut oppositè subspicati, singuli bracteolati, interdum 5-petali um fructu 5-loculari. P. coronarii stylus maturascente fructu 4-partitus. Juss. l. c. 325.*

P. grandiflorus, foliis ovatis acuminatis denticulatis, axillis venarum subtùs fasciculato-pilosis, calycis laciniis acuminatis, stylo staminibus longiore indiviso, stigmatibus 4-linearibus. *Pursh amer. sept. 1. 329.*

Philadelphus grandiflorus. *Willd. enum. 1. 511. Nuttall gen. 1. 301.*

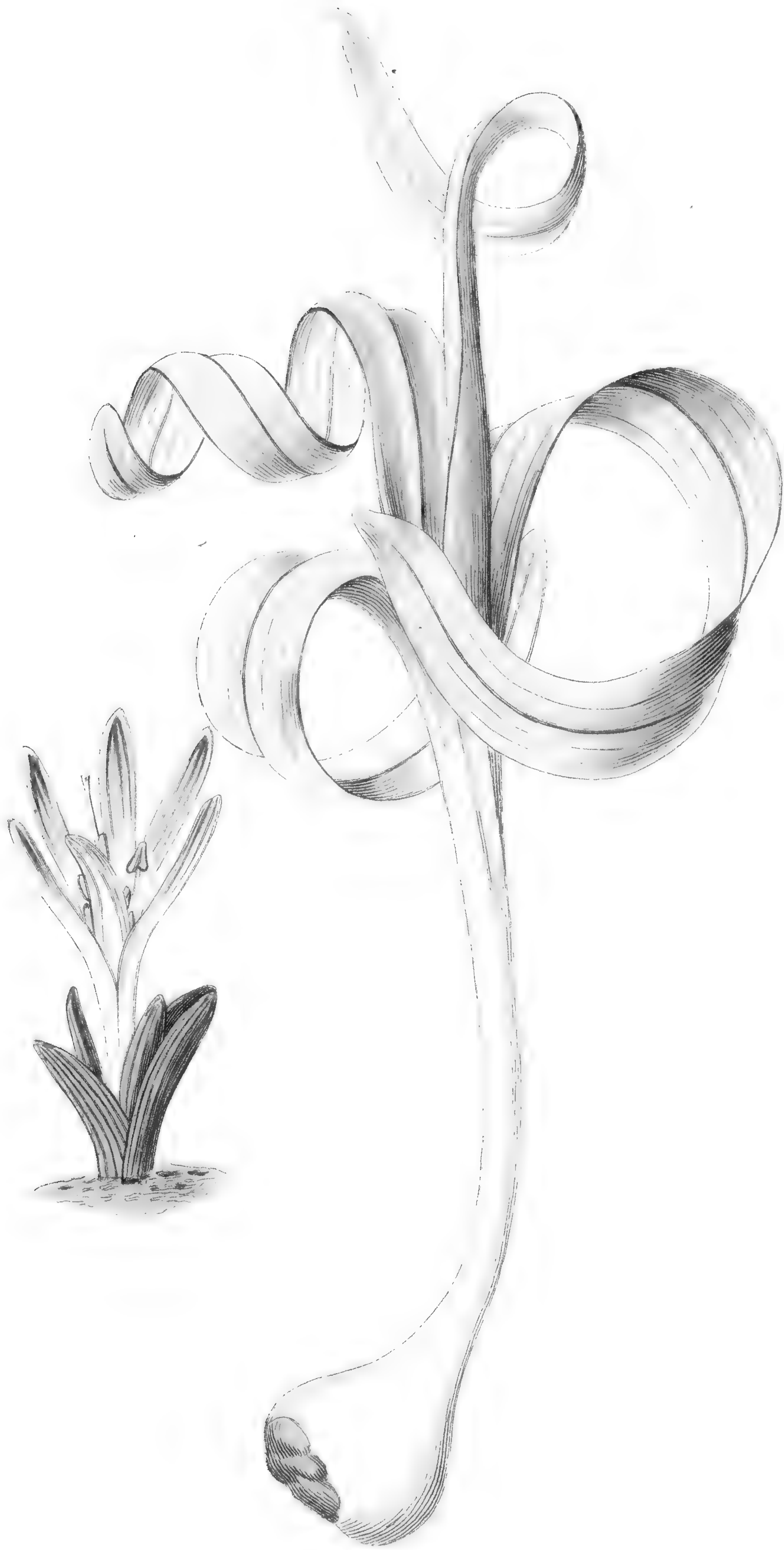
Philadelphus inodorus. *Barton's elem. bot. (ed. lond.) app. 28. t. 18. fig. 1? (non aliorum).*

Said by Pursh to grow on river banks in South Carolina and Georgia. It has been for some time in our gardens; but we are not aware of the precise period when introduced. It is a hardy ornamental shrub. The native samples in the Banksian Herbarium, under the title *inodorus*, we suspect belong to the present species.

Grandiflorus has been very generally confounded in our gardens with *inodorus*, which is a scarcer, less robust, and more tender shrub, with a narrow foliage of a lighter green colour than in the present. The leaves in *grandiflorus* are of a broader shorter ovate form, conspicuously toothed and more fully furred underneath than in the other; the very young ones indeed are very thickly furred underneath, so as to look white, which is never the case in *inodorus*. The leaves of the young branches, on strong-growing plants, are nearly orbi-

cular in *grandiflorus*, and in *inodorus* sometimes broadly ovate.

The drawing was taken at the nursery of Messrs. Colvill, in the King's Road; where the shrub is found to be quite hardy, and of the easiest cultivation.



COLCHICUM versicolor.

Clusius's Meadow-Saffron.

HEXANDRIA TRI-v. MONOGYNIA.

Nat. ord. JUNCI. *Jussieu gen.* 43. *Div. IV.* Germina plura (sæpius tria). Capsulæ totidem uniloculares, interdum basi coalitæ. Flores paniculati aut spicati.

MELANTHACEÆ. *Brown prod.* 1. 274.

COLCHICUM. *Suprà fol.* 541.

C. versicolor (uniflorum); foliis quaternis elongato-ligulatis, angustis, spirilibus, cinereo-virentibus, corollæ hexapetalodi-partitæ laciniis linearibus; stylo unico, stigmate subsimplici.

Amaryllis colchiciflora. *Denominatio sub quâ exemplar præsens à Moschâ missum fuit.*

Colchicum montanum minus versicolore flore. *Clus. hist.* 1. 201; *cum ic.*

In recapitulating the species of this genus in a preceding article (541) of this publication, we had attributed the synonym from Clusius belonging to the plant before us, to the *MERENDERA Bulbocodium* of the Liliacées, where it is represented from a dried sample; but we are convinced that the plant of the Liliacées is the *COLCHICUM montanum hispanicum* of Clusius, and consequently, in so far as a synonym can decide the point, the *COLCHICUM montanum* of Linnæus. A very distinct species from the present.

The drawing of *versicolor* was taken at Mr. Griffin's garden, South Lambeth, where the bulb had been obtained from Moscow, under the appellation of *AMARYLLIS colchiciflora*, and is quite new to our collections. It flowered in the autumn, when the leaves began to appear above the coating of the bulb, in the way shown in our drawing and in the figure in Clusius's work, though they did not attain their full growth before the following spring. The full-grown ones were not known to Clusius, to whom the drawing of the plant introduced in his valuable history seems to have been communicated by his correspondent Plateau of Tournay, its original cultivator.

The species is probably native of the South East provinces of the Russian dominions, and of the Levant; but has never been adopted in any general system, being probably unknown to any botanist, except through the figure we have cited.

In COLCHICUM the styles are generally far or entirely disunited, sometimes united nearly to the top, as in *Bulbocodium*, sometimes quite to the top where they end in a nearly simple point, as in the present species.

The separation of BULBOCODIUM and MERENDERA from COLCHICUM, is in our view not only inexpedient, but worse. The habit of the three is peculiar to themselves, and so far similar, as to differ in no greater degree than to illustrate the near transitions of species so palpably akin as in our apprehension to constitute a useful genus.

The corolla of *versicolor* separates finally for its whole length into six narrow petallike segments, at the top of the ungues of which the short filaments are inserted.

We subjoin an amended enumeration of the species, of which complete samples are seldom found in herbariums. The inflorescence and foliage being generally produced at far distant intervals, one or the other seems always to have escaped the collector.

COLCHICUM.

- versicolor. *Nob. COLCHICUM montanum minus versicolore flore. Clus. hist. 1. 200. cum ic.*
- Bulbocodium. *Nob. in Curtis's magaz. fol. vers. 1028. BULBOCODIUM verum. Curtis's magaz. 153. Willd. sp. pl. 2. 62.*
- montanum. *Lin. sp. pl. ed. 1. 1. 312. Willd. sp. pl. 2. 273. MERENDERA Bulbocodium. Redouté Liliac. 25. COLCHICUM montanum. Clus. hist. 1. 200.*
- arenarium. *Suprà fol. 541.*
- alpinum. *Redouté liliac. 8. 467.*
- variegatum. *Curtis's magaz. 1028. Willd. sp. pl. 2. 273.*
- autumnale. *Engl. bot. 133. Willd. sp. pl. 2. 272.*
- polyanthon. *Nob. in Curtis's magaz. fol. vers. 1028. COLCHICUM pannonicum. Clus. hist. 1. 199.*
- byzantinum. *Nob. in Curtis's magaz. 1122. Clus. hist. 1. 199, 200.*



collected Oct. 1, 1871.

S. Wats. sc

STENOCHILUS glaber.

Smooth-leaved Stenochilus.

DIDYNAMIA ANGIOSPERMIA.

Nat. ord. MYOPORINÆ. Brown prod. 1. 514.

STENOCHILUS. *Calyx* 5-partitus. *Corolla* ringens; *labio superiore* erecto, *semiquadrifido*; *inferiore* indiviso, angusto, deflexo. *Stamina* didynama, exserta. *Germen* 4-loculare, loculis 1-spermis. *Stigma* obtusum, indivisum. *Drupa* baccata, 4-locularis. *Semina* solitaria. *Embryo* inversus.

Frutices glabriusculi, v. tomento tenuissimo cinerascetes. Folia alterna, sæpiùs integra, avenia. Pedunculi solitarii, uniflori, ebracteati. Flores purpurei v. flavicantes. Drupæ putamen abortione sæpè biloculare. Brown prod. 1. 517; et in Hort. Kew. ed. 2. 4. 61.

S. glaber, foliis lanceolatis ellipticisve integris apice nunc dentatis glabris flore vix longioribus, ramulis tomentosis, caule diffuso. Brown prod. 1. 517.

Stenochilus glaber. Brown in hort. kew. ed. 2. 4. 61. Curtis's magaz. 1942.

Myoporinæ, the order where the present plant belongs, was founded by Mr. Brown in the Prodrômus of the Flora of New Holland; but the following observations are taken from his general remarks on the Botany of Terra Australis.

“The principal characters in the fructification of this order, by which it is distinguished from *Verbenacæ*, are the presence of Albumen in the ripe seed, and the direction of the Embryo, whose radicle always points towards the apex of the fruit. The first of these characters, however, is not absolute, and neither of them can be ascertained before the ripening of the seed: for previous to the complete developement of the Embryo the fluid albumen equally exists in both orders; and although all the genera of *Verbenacæ* have an Embryo whose radicle points towards the base of the fruit, yet many of them have pendulous seeds, and consequently a radicle remote from the umbilicus. Hence AVICENNIA, which I formerly annexed to *Myoporinæ*, should be restored to *Verbenacæ*, with which also it much better agrees in habit.”

“ *Myoporinae* with the exception of BONTIA, a genus of
“ equinoctial America; and of two species of MYOPORUM
“ found in the Sandwich Islands, has hitherto been observed
“ only in the Southern hemisphere, and yet neither in South
“ Africa, nor in South America beyond the tropic. Its
“ maximum is evidently in the principal parallel of Terra
“ Australis, in every part of which it exists; in the more
“ southern parts of New Holland, and even in Van Diemen’s
“ Island it is more frequent than within the tropic. The
“ genus MYOPORUM is also found in New Zealand, Norfolk
“ Island, New Caledonia, and the Society Islands.”

STENOCHILUS, like the whole order, consists of shrubs. Two species only are recorded; and both observed by Mr. Brown on the South East Coast of New Holland. Another is known to have been found on the Western coast of the same continent by M. Leschenault, the naturalist of the expedition under Captain Baudin; and we have heard that a fourth from the interior of the same country is now in our gardens.

Glaber was introduced in 1803 by Mr. Peter Good, and was drawn this summer in the greenhouse at the nursery of Messrs. Colvill in the King’s Road, Chelsea; where it flowers for a long time in succession.

The following is a version of Mr. Brown’s character of STENOCHILUS. *Calyx* 5-parted. *Corolla* ringent; *upper lip* upright, half4cleft; *lower* undivided, narrow, deflex. *Stamens* protruding. *Germen* 4-celled, cells single-seeded: *Stigma* obtuse, undivided. *Drupe* (*stone-fruit*) berried, 4-celled. *Seeds* solitary. *Shrub* nearly smooth, or else of a greyish hue proceeding from a very fine cottony fur. *Leaves* alternate, generally entire, unmarked by veins. *Peduncles* solitary, one-flowered, without bractes. *Flowers* either purple or deep yellow. The *stone* of the fruit miscarrying of two of its cells, is often only bilocular, instead of quadrilocular.



Phoradendron villosum (L.) Benth. *Phoradendron villosum* (L.) Benth. *Phoradendron villosum* (L.) Benth.

TO THE READER.



The letter-press of this article is unavoidably postponed; but will be delivered with the ensuing Fasciculus on the first of November next.



PASSIFLORA Murucuja.

Tubular-crowned Passionflower. Murucuja.

MONADELPHIA PENTANDRIA.

Nat. ord. PASSIFLOREÆ. Jussieu in ann. du musée. 6. 102.

PASSIFLORA. Suprà vol. 1. fol. 13. ubi conjungi potest character sequens MURUCUJÆ à Jussieuo separatus. "Corolla PASSIFLOREÆ colorata, urceolo prætereà subtùs sulcato. Corona interior non multipartita et triplex, sed simplex indivisa erecta tubuloso-conica truncata circa germinis stipitem connivens. Cætera omninò ut in PASSIFLORÆ." Jussieu gen. 398.

P. Murucuja, foliis bilobis obtusis, petiolis eglandulosis corona campanulata truncata integerrima. Willd. sp. pl. 3. 612.

Passiflora Murucuja. Lin. sp. pl. ed. 2. 2. 1357. Amœn. acad. 1. 223. tab. 10. fig. 10. Cavan. diss. 10. 456. t. 282. Swartz obs. 336. Hort. Kew. ed. 2. 4. 150.

Murucuja ocellata. Persoon syn. 2. 222.

Murucuja. Jussieu gen. 398.

Passiflora foliis tenuioribus trinerviis bicornibus lunatis, sinu anteriori obtuso. Browne jam. 328. 12.

Murucuja folio lunato. Tournef. inst. 241. tab. 125 (optimè).

Clematis indica, flore puniceo: folio lunato. Plum. amer. 72. t. 87.

Fruticosa, ramis sulcato-angulosis glabris. Fol. transversè oblongata, divaricato-biloba, obsoletè lunata, venosa, sesquiunciam latitudine semunciam profunditate parùm excedentia, apice emarginata setâque minutâ præfixa, basi curvo leni rotundata, 3-nervia, scrobiculis paucis glandulosis vagis madentibus subtùs punctata, lobis apice rotundatis: pet. eglandulosus brevior pedunculis; stipulæ parvæ, subulatæ. Flores punicei, sub-unicolores, recurvostellati, unciâ profundiores cum columnâ 3-unciali, solitarii, axillares: ped. sublongior robustiorque petiolis semunciam vix excedens, medio v. circà articulus, bracteolis 2-3 minutis subulatis vagis appressis infra articulum. Cal. firmior; urceolus brevi-cupulatus, extùs deciès toroso-sulcatus, limbus recurvovdivaricatus segmentis ligulato-attenuatis concavis acutulis, apice virentibus. Petala istis $\frac{1}{4}$ parte ferè breviora, paulò angustiora, teneriora, unicolora, lineari-oblonga, obtusa, explanato-patentia, summo urceolo inserta. Corona simplex, concolor, tubuloso-conica, duplo ferè calyce brevior erecta, plicis 5 obsoletè impressa, ore explicato eroso abrupto. Operculum pallidè rubens, membranosum, totum secundùm parietem urceoli deflexum, margine dentatofissili recurvo. Nect. albicans, urceolo calycino conforme, per septa 10 carnosâ parallela longitudinalitèr in cellulas totidem divisum. Columna exserta, glabra; stipes longitudine calycis, gracilis, strictus, rubescens, germine pluriès longior: fil. stipitis concolora, glabra, divaricato-recurva, subulata; anth. à medio dorso appensæ, cernuæ, versatiles, lineari-oblongæ, viridiusculæ, polline luteo. Germ. viridissimum, glabrum, ovali-oblongum obsoletè subtrigonum: styli germine longiores, punicei, compresso-filiformes, graciliores; stigmata sub-capitato-ovata, atro-rubentia, obliquè truncata cum disco depresso.

It is the first time that we meet this handsome species in flower, though it is stated in the Hortus Kewensis to

have been cultivated by Miller in 1739; but if any one will turn to the plant described by that celebrated gardener in his Dictionary, he will convince himself, that it was *perfoliata*, already published in this work (vol. 1. fol. 78), and not *Murucuja* that is there intended. The two have several peculiar features in common, though in the main they are widely distinct; both have a coloured calyx, a cupped urceolus, a protruded column, a deflected operculum, an upright conically contracted crown, and two-lobed lunulate leaves; but in *Murucuja* the crown is of one piece, the nectarium divided into 10 shallow cells by as many longitudinal fleshy septa, and the leaves are entire at the base; while in *perfoliata*, on the other hand, the crown is composed of many converging radii, the nectary is an undivided chamber, surrounded at the circumference by a single circular fleshy septum, and the leaves are cordately indented at the base.

Our figure was taken in August last in the hothouse of the nursery of Messrs. Colvill, in the King's Road, Chelsea; where the plant had been raised from seed received by Mr. Anderson, the superintendent of the Chelsea Physic Garden, from St. Domingo, where it was formerly found wild by Professor Swartz. We suspect that the present is the first instance of the species having flowered in this country.

The samples in the Banksian Herbarium were collected by Swartz, and have solitary flowers, not twin ones, as described in the "*Observationes*" of that celebrated botanist.

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PENTAPETES phœnicea.
Scarlet-flowered Pentapetes.

MONADELPHIA DODECANDRIA.

Nat. ord. MALVACEÆ. Jussieu gen. 271. Div. V. Stamina basi in urceolum sessilem connata, sterilia fertilibus intermixta, definita aut rariùs indefinita.

PENTAPETES. *Cal. duplex: exterior 3-phyllus, unilateralis, caducus: foliolis linearibus, acuminatis: interior monophyllus, 5-partitus, persistens; laciniis lanceolatis, acuminatis, patentibus, corollâ longioribus. Pet. 5, subrotunda, patentia, urceolo staminum affixa. Fil. 15, filiformia, erecta, corollâ breviora, infernè in urceolum 5-gonum coalita, supernè libera: anth. sagittatæ, erectæ: ligulæ 5, lineari-lanceolatæ, petaliformes, erectæ, inter terna stamina singulæ, ex urceolo prodeuntes. Germ. ovatum: stylus filiformis, supernè incrassatus, striatus, staminibus longior, persistens: stigma obsoletè 5-dentatum. Caps. membranacea, subglobosa, acuminata, 5-loc., 5-valv.: dissepimentis contrariis: sem. octona, ovata, acuta, utrinque 4 dissepimento interius affixa. Lin. gen. pl. 2. 459.*

P. phœnicea. Lin. sp. pl. ed. 2. 2. 958. J. Miller illustr. J. G. Miller sp. pl. Lamarck illustr. t. 576. f. 1. Gærtn. sem. 2. 248. t. 131. fig. 4. Trew pl. rar. 7. t. 5. Willd. sp. pl. 3. 727. Hort. Kew. ed. 2. 4. 193.

Pentapetes. Miller ic. 133. tab. 200.

Dombeya phœnicea. Cavan. diss. 3. 129. t. 43. fig. 1.

Alcæa fruticosa pentaphylloides æmula floribus amœnissimis rubellis, calyce producto. Pluk. alm. t. 126, fig. 4.

Alcææ indicæ cognata planta. Pluk. alm. 18. t. 255. fig. 3.

Blattaria zeylanica, flore amplo coccineo. Comm. hort. 1. 11. t. 6.

Flos impius. Rumph. amb. 5. 288. t. 100. fig. 1.

Naga-Pu. Rheede mal. 10. 111. t. 56.

The subjoined account of our plant is by Sir James E. Smith.

“ PENTAPETES (*πενταπέτες*, *having five leaves*), an ancient name for Cinquefoil, adopted for a very different plant by Linnæus. Though he declines any explanation of it, the five leafy expansions, which, in his PENTAPETES, accompany the stamens, seem so well to account for this appellation, that one cannot but think the idea of such an adaptation of the word had occurred to him, though he might have forgotten it when he wrote the *Philosophia Botanica*, p. 175. There seems otherwise no possibility of accounting for his choice of the name, for the particular genus in question;

of which indeed what is now separated under the denomination PTEROSPERMUM, was the original type, but the above character is common to that and the present genus."

" Native of various parts of India, sometimes cultivated for its beauty in our stoves, where it has been known considerably above a century. It flowers in July, and is annual. The *stem* is two or three feet high, round, branched, leafy, besprinkled with a few close-pressed starry bristles, indicative of its natural order. *Leaves* alternate, stalked, lanceolate, taper-pointed, strongly crenate, smoothish, more or less hastate at the base. *Stipulas* in pairs, linear. *Flowers* axillary, solitary, drooping, on rough stalks shorter than the *footstalks*; they are of a beautiful scarlet colour, and above an inch in diameter; the five leafy appendages (between every parcel of three stamens) are externally rough or hoary. The foolish name by which Rumphius has distinguished this flower (*Flos impius*) and which is said to be a translation of its Indian appellation, alludes to its profane or impious nature, in never looking towards heaven." *Smith in Rees's Cyclopædia.*

The genus consists at present of one species. The PENTAPETES (DOMBEYA. *Willd. sp. pl. 3. 725. and Curtis's magaz. 1000*) *Erythroxyton* of the first edition of the Hortus Kewensis has been referred to MELHANIA by Mr. Brown, in the second edition of that work; a genus differing chiefly from the present in technical character, by having five instead of fifteen stamens; but in nature and habit very widely.

The drawing was taken this summer at Mr. Lee's nursery, Hammersmith. The plant is rare with us, notwithstanding its beauty and long-standing.

The "*Sjamin*" of Van Rheedé's Hortus Malabaricus, quoted by Willdenow to this species, belongs to HIBISCUS *Rosa malabarica* of this work (vol. 4. fol. 337). It is the "*Naga-Pu*" of Rheedé, which is the species before us.



CANNA patens.

Spreading-flowered Indian-shot.

MONANDRIA MONOGYNIA.

Nat. ord. CANNÆ. Jussieu gen. 62.

CANNÆ. Brown prod. 1. 307, in obs. III.; ubi SCITAMINEIS distinguitur.

CANNA. Suprà vol. 3. fol. 206.

C. patens, limbi interioris corollæ labio superiore trifido; laciniis æqualibus, ovatis, patentibus; unguibus longis; labio inferiore bifido, revoluto: foliis ovatis, lanceolatis. Roscoe MSS; (ex angl. vers.)

Canna patens. Roscoe in trans. linn. soc. 8. 338; et in Hort. Kew. ed. 2. 1. 1.

Canna indica. Curtis's magaz. 454; (exclusis synonymis).

Canna indica; *δ. patens*; petalis interioribus reflexis coccineis, nectarii lacinia revoluta lutea lineolis rubris irrorata. Hort. Kew. 1. 1. Willd. sp. pl. 1. 3.

We have been favoured with the above specific character of the subject of this article by Mr. Roscoe, who continues to afford a portion of his literary leisure to the elucidation of the natural family where our plant belongs, and to which he has already so materially contributed. It is his intention before long to communicate to the botanic world the very considerable additions he has made to several of the monandrous genera, particularly CANNA, HEDYCHIUM, and CURCUMA.

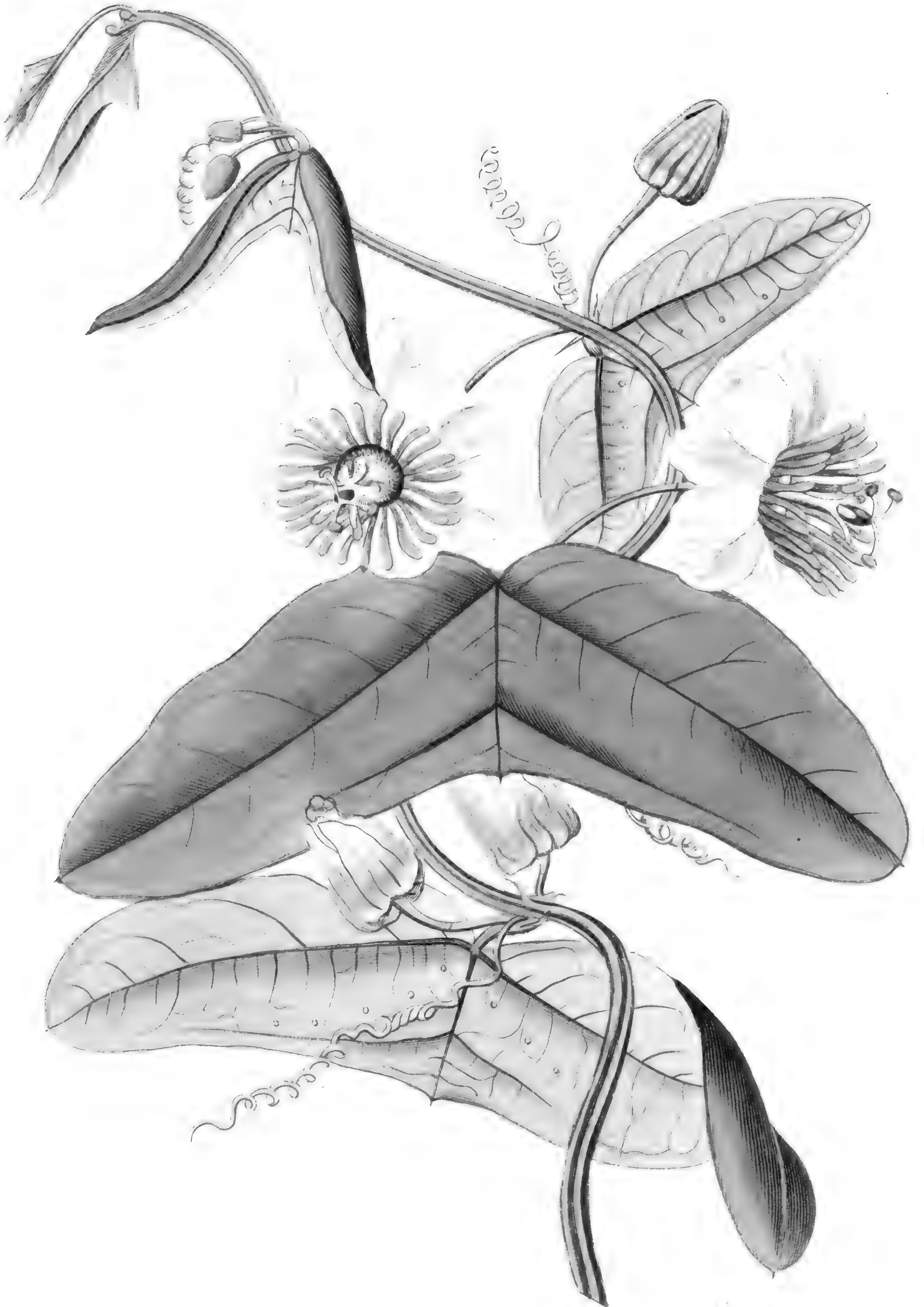
We agree decidedly with that gentleman in considering the present plant as of the species intended by Messrs. Solander and Dryander in the Hortus Kewensis by *patens*.

The native place does not appear to be known; it is left in blank in Hortus Kewensis.

By Willdenow, CANNA *patens* has been identified with CANNA *chinensis* of his "Enumeratio;" where however the description is far from precise or satisfactory, and leaves us in doubt as to the reality of their being of the same species. At all events the synonyms adduced by that botanist from the works of Rumphius and Van Rheedee do not belong to our plant.

We learn from Mr. Roscoe that nineteen species of **CANNÆ**, exclusive of *iridifolia*, are cultivated in the stoves of the Botanic Garden at Liverpool.

The drawing was taken from a sample which flowered about three or four years ago in the hothouse of Messrs. Whitley and Co. in the King's Road, Fulham.



Passiflora

PASSIFLORA lunata.
Crescent-leaved Passionflower.

MONADELPHIA PENTANDRIA.

Nat. ord. PASSIFLOREÆ. *Jussieu in ann. du musée.* 6. 102.
PASSIFLORA. *Suprà vol. 1. fol. 13. et fol. 574 hujus vol.*

Div. Foliis bilobis.

P. lunata, foliis cordatis divaricato-bilobis obtusis glabris punctatis, petiolis eglandulosis, pedunculis axillaribus geminis, filis coronæ clavatis. *Willd. sp. pl.* 3. 612.

Passiflora lunata. *Smith ic. pict.* 1. *Hort. Kew. ed. 2.* 4. 149.

Passiflora vespertilio. *Miss Lawr. passionfl. (non aliorum).*

Passiflora biflora. *Lamarck encyc.* 3. 36. *Cavan. diss.* 10. 457. t. 283.

Passiflora foliis bilobis glabris rigidis basi indivisis. *Mill. dict. ed. 7.* n. 13.

Granadilla folio lunato, flore parvo albo, fructû succulento ovato Houstoni.
Martyn dec. 5. 52. t. 52.

Frutex sempervirens, excelsius scandens. Ramis subherbaceis anguloso-striatis, subglabris. Folia 3-nervia, glabriuscula, magnitudine varia, floralia punctis subuniseriatis glandulosis madentibus notata, setâ parvâ nervum medium terminante: pet. brevis: stipulæ parvæ, subulatae, integræ, glabræ. Pedunculi gemini, recurvi, axillares, longiores petiolo ($\frac{2}{3}$ uncia longi), filiformes, rigidiusculi, lanuginosi, bracteolis 3 appressis vagis v. nunc sub articulo approximatis, subulatis. Flores cernui, chloroleuci, inodori, diametro sesquiuncie v. circâ. Cal. crassiusculus, pallidè virescens, opacus, rotatus, urceolo brevissimo plano basi extûs toruloso, segmentis subcuneato-oblongis acumine brevi obtuso. Cor. pet. tenera, candicantia, pellucencia, elliptica, calyce breviora, vix angustiora, apice subdentata; ungue brevissimo. Corona duplex, lutea; exterior $\frac{1}{2}$ brevior corollâ, radiis numerosis densis patentibus compresso-clavatis apice cuneato obtuso introrsum attenuato-truncato: interior 3-plo brevior, luteo-virens, radiis capillaceis erectis: operculum nectario incumbens, membranaceum, plicis densis profundis. Nectarium urceolo conforme, septo vallatum carnosum erecto-incurvescente toroso-plicato margine in aciem attenuato eroso; dorso lutescens. Columna corollæ æqualis; stipes albicans, glaber, robustus, duplo germine longior: fil. recurvo-potentia, albicantia, linearia, planiuscula, obtusa, nitida; anth. oblongæ, paulo supra basin dorsi appensæ, chloroleucæ, polline flavo. Germ. pallidè lutescens, pube minutâ opacatum, ovali-oblongum, obsolete angulosum; styli pallidè virentes; compresso-clavati, stigmatibus pileato-capitatis pruinosis viridioribus.

Native of Jamaica and Mexico. Introduced before 1733 by Dr. William Houston, by whom the seed was gathered at Vera Cruz, and sent to the Chelsea Garden. Pretty common in the hothouses of our collections, where it flowers freely nearly the year round. *Lunata* had been

very generally confounded with *punctata*, until the point was accurately settled by Sir James E. Smith, by whom the species has been established, and described in the above-cited work, where we find the following observation: "The description of *PASSIFLORA punctata* (not the specific character) in Linnæus's *Systema Vegetabilium* belongs to this plant, as well as the observation in his *Mantissa*, p. 492; but the latter is so obscure and erroneous, that it neither agrees with the plant, nor with the original manuscript from which it was printed."

"*PASSIFLORA punctata* is known by the figure and description of Feuillé, after whom Linnæus described it, nor did he or myself ever see a specimen of that species. The Abbé Cavanilles has given a figure of it from a plant which flowered in the Royal Garden at Paris."

A high climbing evergreen shrub; with divaricately obtusely two-lobed 3-nerved veiny pea-green leaves, with small yellowish glandular oozing dots on the under side, which are more conspicuous, numerous, and regularly arranged in the leaves next the flowers. *Petioles* slightly downy, glandless. *Involucre* 3 small bractes. *Flowers* twin, greenish white, with a yellow crown of two ranks.

Drawn at the nursery of Messrs. Colvill, in the King's Road, Chelsea.

The species appears to come the nearest to *PASSIFLORA holosericea* (published in the 59th article of this work) of any other we are acquainted with.



... ..

LISSOCHILUS speciosus.

Mr. Griffin's Lissochilus.

GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDÆ. Jussieu gen. 64. Brown prod. 1. 309. Div. IV. Anthera terminalis mobilis decidua. Massæ pollinis demùm cereaceæ. Brown in Hort. Kew. ed. 2. 5. 205.

LISSOCHILUS. Massæ pollinis 2, obliquè bilobæ. Labellum basi saccatum: laminâ sessili indivisâ convexâ, posticè excisâ et cum basi columnæ apteræ edentulæ connatâ. Perianthii foliola exteriora calycina (reflexa:) interiora petaloidea (divaricata). Brown MSS.

L. speciosus, petalis interioribus divaricatis duplo majoribus exterioribus reflexis, labello altè cordato. Brown MSS.

Herba 4-pedalis et ultra. Folia radicalia ensiformia acutissima crassiuscula rigidula viridia nec glauca, marginibus carinâque lævibus: basibus dilatatis incrassatis in bulbum emersum connatis, scapo aliquoties breviora. Scapus vaginatus teres viridis solidus, fasciculis vasorum sparsis. Vaginæ distantæ strictæ foliaceæ, in foliola appressa lanceolata acuta longitudine vix ipsius vaginæ productæ. Spica racemosa simplicissima erecta laxa sesquipedalis. Bracteæ foliaceæ lanceolatæ, patulæ sæpiùsve divaricatæ, immersè nervosæ, marginibus lævibus, infimæ in scapum paulò decurrentes ovarium cum pedicello suo superantes, reliquæ sessiles, superiores ovario breviores. Flores speciosi è torsione pedicelli baseosque ovarii verè resupinati labello antico. Perianthii foliola 3 exteriora utrinque viridia calycina, distincta arcuè reflexa ovata acutiuscula immersè nervosa, postico plano, lateralia paulò latiora levissimè concava: interiorum lateralia petaloidea, flava, immaculata, divaricatissima, oblongo-ovata, obtusiuscula limbo parùm reflexo, disco hinc convexiusculo; nervosa nervis lateralibus alternatim simplicibus bifidisque, ipsa basi alba. Labellum lateralibus interiorum vix brevius, basi subtùs calcarato-saccatum cornu brevissimo compresso albo: lamina sessilis, circumscriptione ovato-oblonga, flava basi albicante venis purpureis, apice subretuso, basi altè cordata lobis posticis rotundatis dimidio inferiore liberis superiore cum basi columnæ coherentibus suturis manifestis, lateribus subparallelo-reflexis plicatis plicis paulò tantùm elevatis obtusis sulcis intersticiibus angustis: disco convexo axi gibbosiusculo. Columna proportionata semiteres è basi alba pallidè virens, aptera apice edentulo posticè rotundato. Anthera terminalis mobilis decidua, in expanso flore apicem anticè declivem columnæ operiens, didyma dorso incrassato dilutè viridi apice retuso, bilocularis loculis approximatis septulo partiali incompleto contrario in latere exteriori instructis. Massæ pollinis in singulo loculo singulæ, in gemmâ florali juniore minutissimè granulosa, in expanso flore cereaceæ, ovata, post migrationem in apice obliquo columnæ (clinandro) inversæ, posticè (respectu antheræ anticè) instructæ lobulo minore operiente majoris cavitatem illitam materiâ viscidâ elastica flavescenti processû cujus massæ insertæ lingulæ communi brevi lato-lineari membranaceæ albæ è glandulâ subrotundâ apicis stigmatis ortæ. Stigma anticum cavum subrotundum viridè secernens. Brown MSS.

The plant here described is the only certain species of *Lissochilus*; *Cymbidium giganteum*, however, according to Thunberg's description, may also belong to the same genus.

This genus in affinity comes nearest to those plants of South Africa at present referred to *Limodorum* and *Cymbidium*, namely, *Limodorum barbatum*, *triste*, *longicorne*, and perhaps also *hians* of Thunberg (not however *Satyrium hians* *Linn.* which seems to be a *Disa*), *Cymbidium pedicellatum* and *aculeatum*. These along with several Indian species also referred by Swartz and Willdenow to *Limodorum*, especially *L. virens*, *carinatum*, and perhaps *epidendroides*, form a genus (*EULOPHUS*), related on the one hand to *Dipodium* (vide *prodr. flor. nov. holl. p. 330*), and essentially agreeing with *Lissochilus* in the structure of anthera, but sufficiently different from it in its trilobed crested labellum, which is neither cordate nor connected at base with the column. In both these characters *Lissochilus* equally differs from *Angraecum* of M. du Petit Thouars, which has also an elongated spur and a considerably different habit.

Among the plants at present referred to, *Limodorum*, another very distinct genus may be noticed, consisting of *Limodorum veratrifolium*, and judging from Kæmpfer's figure, *L. striatum* also. This genus (*CALANTHE*) agrees with *Bletia* in having eight pollen masses, but differs from it in the claw of the labellum being connected with the column. It is not unlikely that this may be the *Cyanorkis* of M. du Petit Thouars, who will probably hereafter publish it under a different name. *Brown MSS.*

Our plant is one of the handsomest of its natural family, and until introduced from the Cape of Good Hope by Mr. Griffin, unnoticed by any writer, and a stranger to both our gardens and herbariums. It flowered this summer in the hothouse at South Lambeth, throwing up a stem more than four feet high, which reminded us of that of the Tuberose, and producing a spike of fragrant blossom, that by successive expansion became nearly two feet long, and lasted almost two months in beauty.

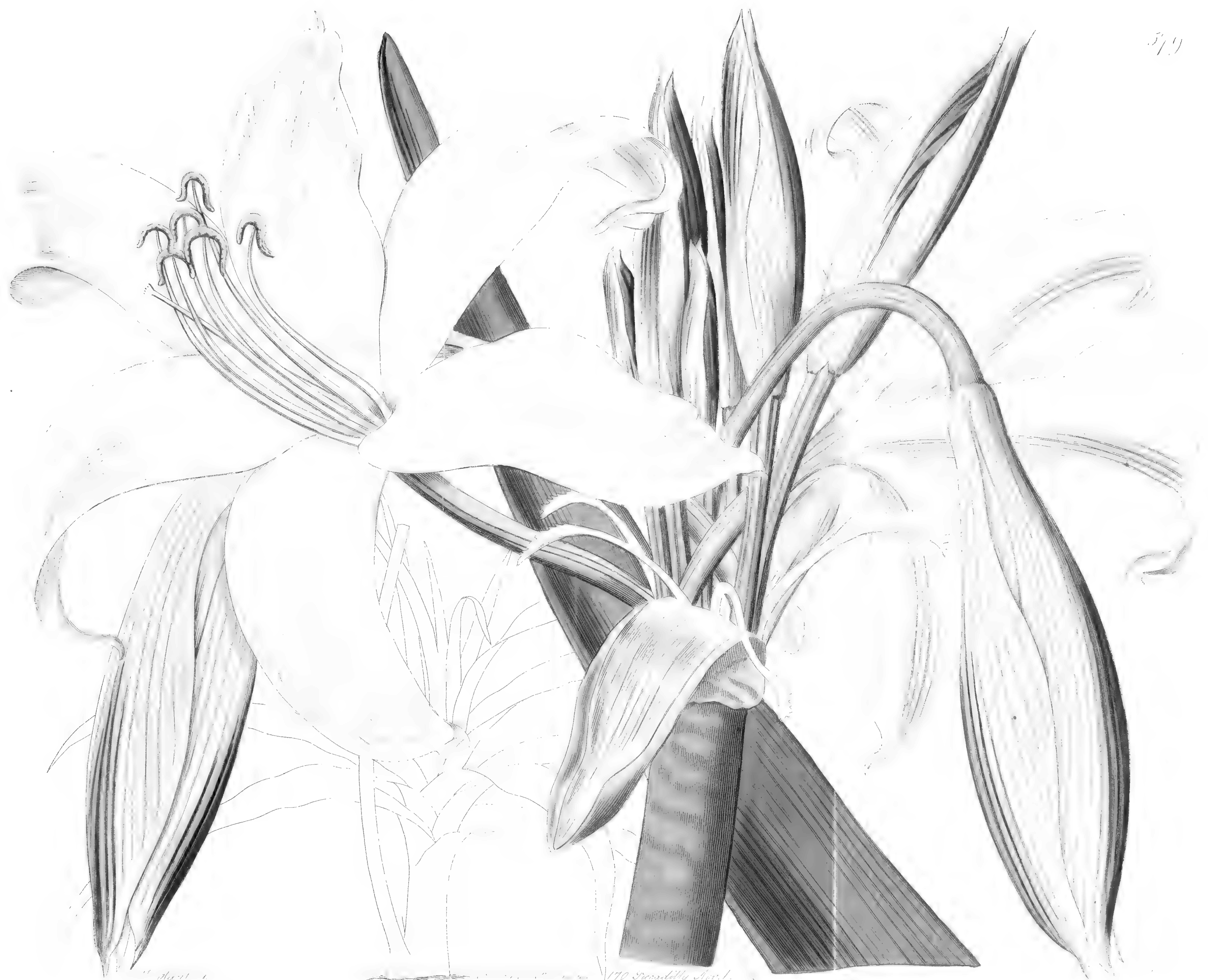
We feel pride that this work has been the means of communicating the above learned and elaborate document.

white, filiform, 3-cornered, straight, but little shorter than the germen, with simple pubescent *stigma*. *Seeds* (according to Jacquin) solitary, lanceolate, pointed, covered with simple seedcrownlike hairs.

—◆—

Specierum enumeratio.

- paradoxicum. *Nobis in Curtis's magaz. 1382. vers. fol. Ornithogalum paradoxicum. Jacq. collect. 5. 81. t. 1. Willd. sp. pl. 2. 115.*
- folioliferum. *Andrews's reposit. 521.*
- pubescens. *Jacq. hort. schœnb. 3. 7. t. 264. Suprà in loco præsentì.*
- lanuginosum. *Jacq. l. c. t. 265.*
- latifolium; (α). *Nobis in Curtis's magaz. 1382; (forsàn à β quoad speciem diversum?)*
- latifolium; (β). *Nob. in loc. cit. vers. fol. Jacq. coll. 5. 73. ic. rar. t. 420. Willd. sp. pl. 2. 110. Hort. Kew. ed. 2. 2. 256. ORNITHOGALUM capense. Lin. sp. pl. ed. 2. 1. 441.*
- lanceæfolium. *Jacq. coll. 5. 72. ic. rar. 2. t. 421. Willd. sp. pl. 2. 111. Hort. Kew. ed. 2. 2. 256. Redouté liliac. 394.*
- parvifolium. *Jacq. coll. 5. 74. ic. rar. 2. t. 422. Willd. loc. cit.*



1841

170. *Scilla maritima* L.

AMARYLLIS insignis.
Roxburgh's Amaryllis.

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. *Jussieu gen.* 54. *Div. II.* Germen inferum.

AMARYLLIDÆ. *Brown prod.* 1. 296. *Sect. I.* Radix bulbosa. Flores spathacei umbellati, raro solitarii.

AMARYLLIS. *Suprà vol. 3. fol. 226.*

Div. Bulbispermæ; foliis multifariis.

A. insignis (sessiliflora) foliis numerosis patentibus lorato-acuminatis planiusculis margine scabro; floribus subdenis limbo nutante patentissimo obsolete bilabiato subæquante tubum.

Crinum latifolium. *Roxburgh corom. ined. (exclusis synonymis).* *Nobis in Journ. of science and the arts.* 3. 114; (excluso synonymo AMARYLLIDIS latifoliæ cum omni synonymiâ).

Bulbus porraceo-caudescens. Folia numerosa, multifariam patentia, lato-subulata (lorato-attenuata), gramineo-virentia, non glauca, 3-4-pedalia v. ultrâ, latitudine 3-4 unciali, margine scabro. Scapus lateralis, 3-pedalis, totus dilute-purpurascens, rore tenuissimo canescens, tereti-compressus. Flores subdeni, sessiles, roseo-candicantes, pomeridiani ut in proximè affinibus ornata, zeylanicâ, &c., novemunciales, bracteis conspicuis interstincti; tubus virescens: limbus campanulato-patens, obsolete bilabiatus, laciniis oblongis lanceolatis. Antheræ ex luteo cinerascetes.

A magnificent species, introduced by Mr. Griffin, who received the bulbs from Ceylon. Plants of it flowered this summer in the hothouse at South Lambeth, where many of the finest and most curious plants of this natural family have first appeared amongst us.

Insignis is nearly allied to *zeylanica*, *ornata*, *gigantea*, and *latifolia*. In the first, however, the leaves are conspicuously undulate, smooth at the edge, narrower, shorter, and with a thicker midrib, the flowers much redder, the anthers dark brown, and the bulb not elongated into a leek-like neck. *Ornata* is altogether a far smaller plant with fewer leaves, which are strongly channelled, and the limb of the corolla is considerably shorter than the tube. In *gigantea* the leaves are broad and oblong, and narrowed at both ends. In *latifolia*, with which our plant has been con-

founded by Roxburgh, the leaves are shaped as in *gigantea*, but the flowers are peduncled, instead of sessile.

Leaves numerous, multifariously disposed, spreading, broadly subulate, not glaucous, 3-4 feet long or more, 3-4 inches broad, flat, rough-edged. *Scape* lateral, 3 feet high or more, of a palish somewhat peach-coloured red throughout, clouded by a grey hoar, compressedly rounded. *Flowers* sessile, about ten, more or less, rosy white, like those of the nearest relatives flowering in the afternoon; about nine inches long, intermediate *bractes* conspicuous; *tube* greenish; *limb* campanulately spreading, faintly bilabiate; *segments* oblong, lanceolate; *anthers* ash-coloured and yellow.

Dr. Roxburgh speaks of his plant as native of Bengal.



LILIUM carolinianum.

Carolina Martagon.

HEXANDRIA MONOGYNIA.

Nat. ord. LILIA. *Jussieu gen.* 48.
 LILIACEÆ. *Brown MSS.*
 LILIUM. *Suprà vol. 2. fol. 182.*

L. carolinianum, glaberrimum: foliis enerviis, plerùmque verticillatis, latè subcuneato-lanceolatis sive obovalibus: ramis floriferis crassis, ternato-terminalibus (rariùs binis aut unico) corollis valdè reflexis, maculosis. *Michaux bor. amer.* 1. 197; (non *Lamarckii*).

Lilium carolinianum. *Pursh amer. sept.* 1. 229. *Nuttall gen.* 1. 222. *Persoon syn.* 1. 358. *Elliot sket.* 1. 388.

Lilium Michauxii. *Poiret suppl. encyc. de Lamarck.* 3. 457.

Lilium autumnale. *Loddiges's bot. cab. n.* 335.

Lilium Martagon. *Walt. fl. carol.* 123.

Caulis pedalis v. circa, strictus, glaber, viridis, teres. Folia sparsa et verticillata (verticillis 3-4-foliis), sessilia, coriacea, obovato-lanceolata sursum brevius deorsum longius attenuata, obscuro-viridia, maculis oblongis nigrescentibus interdum variegata, sæpiùs undulata, glabra, nitida, subnervia (nervis trinis folio recenti vix sensibilitèr apparentibus), biuncialia latitudine ubi latiora $\frac{3}{4}$ partium uncia. Pedunculus cum caule continuus et æquicrassus, uni-(bi-pluri?) florus, sesuncialis, folio vago (nunc 2-3?) stipatus, erectus. Corolla lateritio-flavicans, odorem fundens strenuum vix gratum, cernua, turbinato-reflexa, 3-uncialis, glabra, intus punctata: laciniis longè citra basin revolutis, elongato-oblongis, exterioribus duplo angustioribus acuminatis, interioribus abruptè brevèque acutis, unciam unam cum alterius quartâ parte latis, lineâ quadratâ longitudinali dorso percursis. Stamina $\frac{1}{3}$ corollâ breviora; antheræ semunciales, fusca. Stylus virescens, elongato-clavatus, trigonus: stigma trilobo-capitatum.

Until we had seen a live plant of this species we could never persuade ourselves that there was sufficient ground for separating it from *superbum*; but are now fully persuaded of the expediency of their separation. *Carolinianum* is a few-flowered and comparatively dwarf plant, with broad blackish green coriaceous obovately lanceolate nerveless generally undulate shortish leaves, 3 or 4 in a whorl; *superbum* is a tall many-flowered plant, with thinner 3-nerved narrow linearly lanceolate flat longish leaves, 6 or 9 in a whorl. There are also differences both in the proportion, size, and colour of the flower.

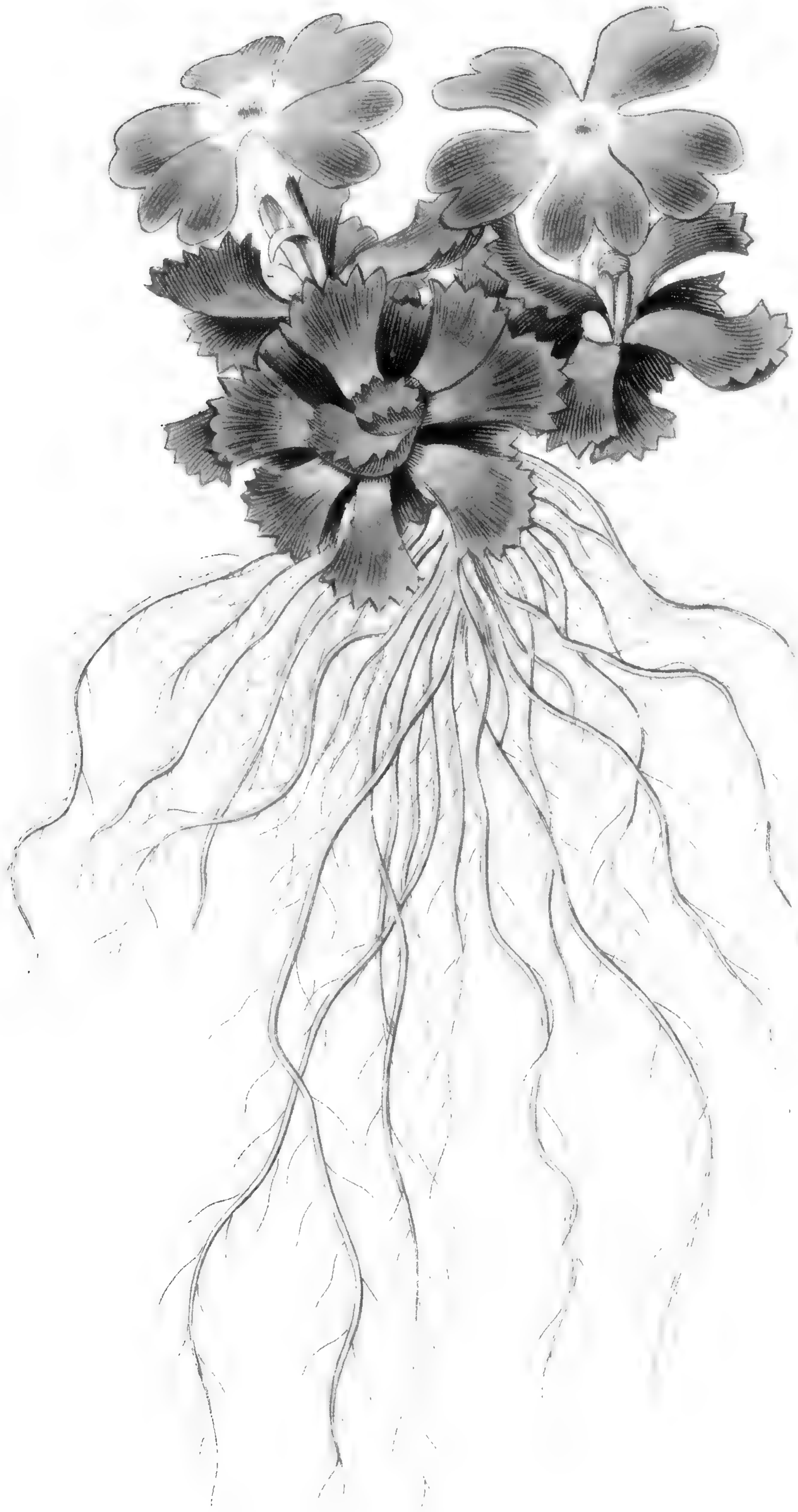
This species has been very lately imported by Messrs. Loddiges from Florida. It flowers two months later than *superbum*, viz. in September and October. In the winter the plant requires the shelter of a greenhouse or garden-pit, being tenderer than *superbum*.

Messrs. Elliot and Nuttall, in their respective works, suggest some doubts concerning the specific difference of the two; but state no reason for their doubt, and keep the two plants distinct, like their predecessors. Mr. Elliot remarks, that *carolinianum* is not a common plant; and belongs to the damp soils of the low country of South Carolina. We have purposely omitted the figures of both in Catesby's work; as quite worthless in point of illustration.

The drawing was taken at the nursery of Messrs. Colvill, in the King's Road, Chelsea.

Bulb scaly, of a dirty greenish white. *Stem* about a foot high, round, green. *Leaves* some scattered some in whorls, about two inches in length and about $\frac{3}{4}$ of an inch in breadth, short-pointed. *Peduncle* as thick as the stem, 1-3-flowered, upright, continuous with the stem, about six inches long. *Corolla* tawny-red and yellow, spotted on the inside, three inches long when extended, if smelled near of a strong pungent rather unpleasant scent: *inner segments* twice the broadest (1 and $\frac{1}{4}$ of an inch in breadth), short pointed.

LILIUM *carolinianum* of Lamarck is LILIUM *Catesbæi* of other authors.



PRIMULA minima.

Smallest Auricula. Snow-rosette.

PENTANDRIA MONOGYNIA.

Nat. ord. LYSIMACHIÆ. *Jussieu gen.* 95. *Div. II.* Flores scapo insidentes, umbellati involucro polyphyllo, aut rariùs solitarii. *Folia radicalia.*

PRIMULACEÆ. *Brown prod.* 1. 427.

PRIMULA. *Suprà fol.* 539.

P. minima, foliis cuneiformibus nitidis apice multidentatis, scapo subunifloro foliis brevior, corollæ laciniis semibifidis Y græcum referentibus, fauce villosula. *Lehmann monog. prim.* 85.

Primula minima. *Lin. sp. pl. ed.* 2. 1. 205. *Jacq. enum. pl. agr. vind.* 208. *obs. bot.* 24. t. 14. *misc.* 1. 160. *fl. austr. n.* 273. t. 273. *Host synops.* 98. *Suter fl. helv.* 1. 113. *Braune fl. salisburg. n.* 169. *Schrank fl. salisb.* 65. *Willd. sp. pl.* 1. 805. *Schmidt fl. bohem.* 46. *Willd. enum.* 1. 192.

Primula foliis cuneiformibus nitidis, scapis unifloris. *Hall. helv. n.* 614.

Auricula-Ursi minima. *Clus. hist.* 1. 305; *cum ic.*

Rad. *crassitie pennæ anserinæ et ultrà, per ætatem nigrescens: fibris albidis.* Fol. *cuneiformia, unguicularia, in rosulas collecta, glaberrima, nitida, coriacea, apice profundè dentata: dentibus acutis.* Scapus *obsoletè triangularis foliis brevior, uniflorus rariùs biflorus.* Invol. *submonophyllum, oblongum, paleaceum.* Cal. *tubulosus, 5-fidus: laciniis rotundatis brevibus obtusis.* Cor. *carnea (v. violacea), subsessilis, sæpè magnitudine totius plantæ; ad faucem villis albidis: limbo patente: laciniis semibifidis Y græcum referentibus.* Caps. *obtusissima, nitida.* *Variat floribus albis, limbi laciniis et latioribus et angustioribus.* *Lehmann l. c.*

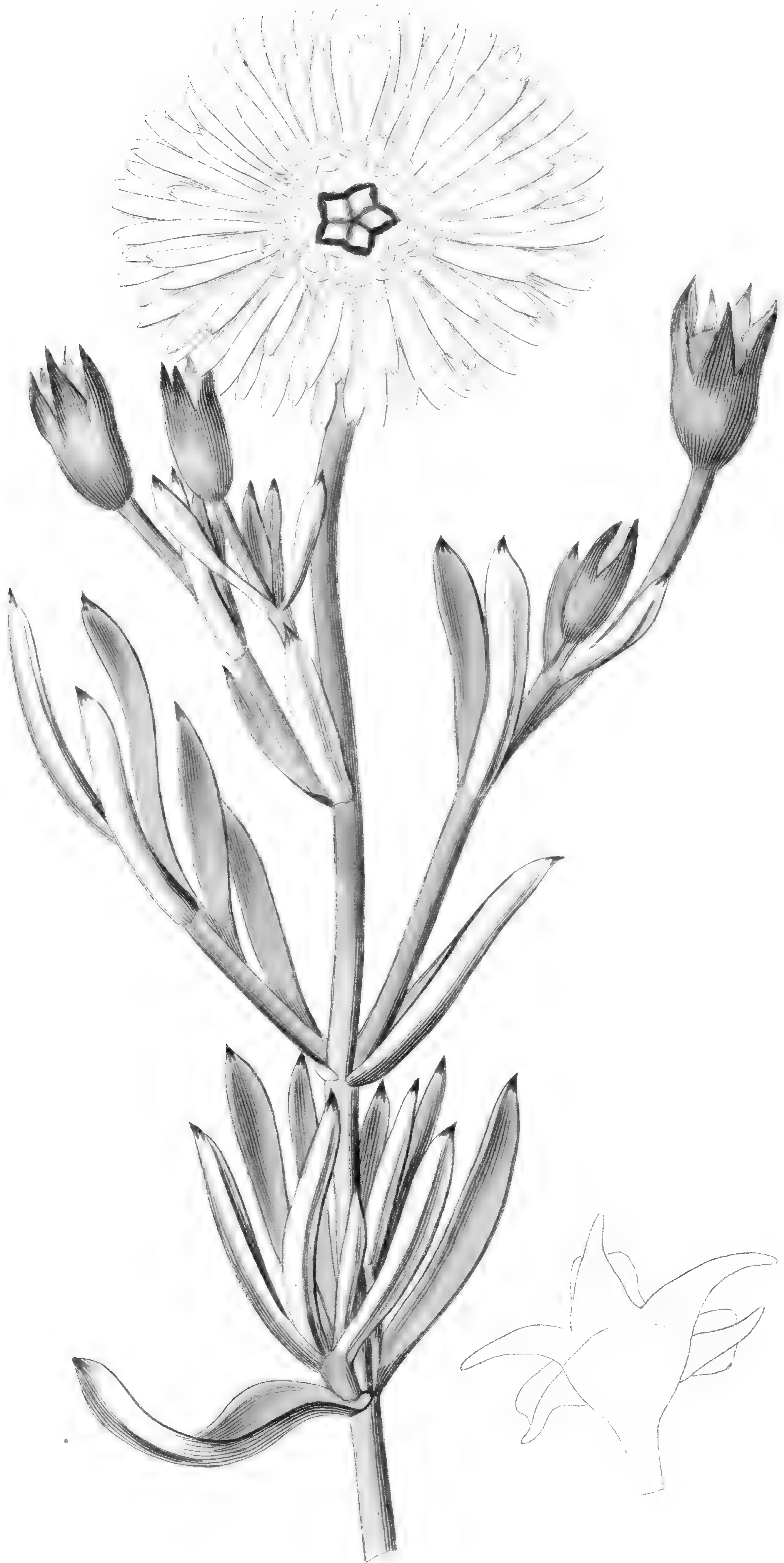
The smallest known species of its genus. Lately introduced by the Horticultural Society. Drawn in their garden at Hammersmith.

It has been supposed to be extremely impatient of cultivation when removed from its natural abode, the tops of the highest mountains of the South of Europe, which it ascends to the limits of perpetual snow, at the elevation of 7000 to 8000 feet above the level of the sea.

The corolla is large in proportion to the plant, and varies from pink to violet-purple and white: sometimes it equals all the rest of the plant together. The herb of the wild sample is still more diminutive than in the cultivated one.

Rootstock about as thick as a large quill, blackish when old; fibres white. *Leaves* cuneate, half an inch long, disposed in rosettes, very smooth, shining, coriaceous, deeply toothed at the end with pointed teeth. *Scape* obsolete 3-cornered, shorter than the leaves, 1- seldom 2-flowered. *Involucre* nearly of one piece, oblong, chaffy. *Calyx* tubular, 5-cleft: segments rounded short obtuse. *Corolla* subsessile, often as large as all the rest of the plant together; *faux* furnished with a whitish nap: *limb* spreading: *segments* cleft in two for half their length, like the letter Y. *Capsule* very blunt, shining.

Not having had the opportunity of examining the plant ourselves, we have offered a version of the description in Mr. Lehmann's Monograph of the genus.



MESEMBRYANTHEMUM blandum.

Fair-flowered Fig-Marygold.

ICOSANDRIA PENTAGYNIA.

Nat. ord. FICOIDEÆ. Jussieu gen. 315. Div. II. Germen inferum.
MESEMBRYANTHEMUM. *Suprà vol. 3. fol. 260.*

Div. Conspicua. Ramis fruticosis numerosis adscendentibus, foliis confertis longis triquetris angustis subacutis lævibus glaucis v. viridibus, petalis magnis latis multiseriatis, albis v. rubicundis. Haworth MSS.

M. blandum, foliis solido-triquetris subtriangularibus glaucescentibus; floribus candidis planis, antè anthesin dilutissimè erubescens. Haworth MSS.

Suffrutex pedalis v. ultrà. Rami erectiores atque distantiores quàm in conspicuo proximè affini; folia quoque laxiora quàm in eo, et sæpè in ramis floriferis longitudine tantummodò internodiorum: plerumque subglauciscentia. Flores numerosi, speciosi, sæpè ternatim terminales, sudo cælo manè expandentes, denuòque explicatim emorientes. Reliqua ferè ut in conspicuo et spectabili. Haworth MSS.

Native of the Cape of Good Hope, where the plant was originally observed by Mr. Burchell, and introduced into this country on returning from his expedition into South Africa.

The drawing was made from a sample which flowered with Mr. Haworth, to whom we are obliged for the above description, and indeed for all we have to say on the subject.

The species belongs to the same section as *spectabile* and *conspicuum*, and in Mr. Haworth's opinion is the more desirable of the three: blossoming abundantly; and if frequently renewed from cuttings at almost all times of the year; a circumstance by which it differs from the other two, which flower principally in the spring.

Mr. Haworth has seen samples in bloom, both in Mr. Burchell's collection at Fulham, and with Dr. Hooker, at

Halesworth, in Suffolk. He has also seen in the nursery of Mr. Ross, of Stoke Newington, a plant which he deems a variety of the species, with narrow inbowed petals; but it did not blossom in perfection. Both varieties are readily propagated by cuttings, but require a greater supply of fresh air and water than the generality of this genus.



sent by J. Sidgway 170 Giccardilly Nov. 1. 1821.

J. Watts. sc.

ERIGERON Villarsii.

Villars's Erigeron.

SYNGENESIA POLYGAMIA SUPERFLUA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. II. Receptaculum nudum. Semen papposum. Flores radiati. In TUSSILAGINE et SENEZIONE flores partim flosculosi.

ASTEREÆ. Cassini in journ. de phys. 88 (an 1819). 191.

ERIGERON. Suprà vol. 1. fol. 10.

E. Villarsii; caule erecto, foliis oblongo-lanceolatis trinervosis, floribus corymbosis. *Villars delph.* 3. 237; (sub *E. attico*.)

Erigeron Villarsii. *Bellardi app. ad fl. pedem.* 38. t. 7. *Hort. Kew. ed.* 2. 5. 33. *Lam. et Decand. fl. franç.* 4. 143. *Lamarck encyc.* 8. 489. *Willd. sp. pl.* 3. 1958. *Ejusd. enum.* 2. 873.

Erigeron atticum. *Villars ubi suprà.* *Persoon syn.* 2. 431.

Radix fasciculata, biennis. Caulis pedalis, striatus, fistulosus, levitèr viscosus. Folia ad radicem oblonga (spathulata *Lam.*) petiolo membranaceo, asperiuscula, intensè viridia, tribus v. quinque nervis striata, obitèr dentata: caulina lanceolata, sessilia integerrima. Ex caule flores prodeunt pedunculati, alternè dispositi, ferè corymbosi. Calycis foliola hirsutula, viscosa apice rufescentia; cæterum structura eadem ac in *unifloro*, *alpino*, et *acri*. (Flores cærulei v. violaceo-rubentes. Semen pappus albus.) *Bellardi l. c.*

In the differential phrase applied by Willdenow to this species in the *Species Plantarum*, and adopted in the *Enumeratio*, as well as in *Hortus Kewensis*, the ray of the flower is stated to be shorter than the disk, and the circumstance selected as the main distinction between *Villarsii* and *philadelphicum*. But this character is obviously erroneous, and has been probably assumed by Willdenow from a hasty inspection of Bellardi's engraving of the plant, where some of the flowers being represented in seed, when the pappus extends itself beyond the ray, he has mistaken this for the disk in flower. Bellardi expressly states, that the flower is of the same structure as in *ERIGERON alpinum*, *uniflorum*, and *acre*, where the ray is as usual higher than the disk.

Introduced by Mr. Holboël in 1804. Called biennial by Bellardi: marked as perennial in *Hortus Kewensis*. Gene-

rally cultivated with us in a garden pot, and sheltered in a pit or frame during winter.

Drawn at Messrs. Colvill's, in the King's Road, Chelsea.

Stem about a foot high, fluted, hollow, slightly viscid. *Root-leaves* spatulately oblong with a membranous petiole, roughish, deep green, marked with either three or five nerves, lightly toothed, *stem ones* lanceolate, sessile, quite entire. *Flowers* alternate upon the stem and peduncle, so as to form nearly a corymb. Leaflets of the *calyx* rather roughishly furred, viscid, reddish at the points. *Flowers* either blue or pinkish red. The pappus of the seed white.

We had no opportunity of examining the plant for description; and have borrowed the above remarks from Bellardi and Lamarck.



PASSIFLORA filamentosa; β .
Palmate-leaved Passionflower.

MONADELPHIA PENTANDRIA.

Nat. ord. PASSIFLOREÆ. Jussieu in ann. du mus. 6. 102.

PASSIFLORA. Suprà vol. 1. fol. 13; et fol. 574 vol. præsentis.

Div. Foliis multifidis.

P. filamentosa, foliis palmatis 5-(3-7-)partitis serratis, petiolis glandulosis, involucro triphylo serrato, filis coronæ corollâ longioribus (v. subbrevioribus). Willd. sp. pl. 3. 623.

Passiflora filamentosa. Cavan. diss. 10. 461. t. 294.

(β) corona floris subbrevior corollâ.

Passiflora filamentosa. Curtis's magaz. 2023.

Passiflora palmata. Loddiges's bot. cab. n.

Frutex altè scandens, ramis subteretibus flexuosis, villosis; junioribus herbaceis. Fol. alterna, distantia, oblata, latitudine 3-6-unciali v. ultrâ, 5-nervia, villosa, palmato-divisa lobis 3-5-7, sæpiùs 5, ovali-lanceolatis dentato-subsinuatis denticulis plerùmque setâ præfixis: suprâ nitidiuscula viridissima, subtùs conspicuiùs pubescentia: pet. villosus, teretiusculus, canaliculatus, subtriplo folio brevior, intùs supra medium carunculis binis elevatis glandulam secernentem foventibus appendiculatus: stipulæ subulatae, villosæ, parvulae, sphacelatae, caducæ: cirrhi villosi, elastico-rigentes. Flores axillares, solitarii, uncias 2 profundi: pedunculus teres, subvillosus, robustus, 2-3-plove longior petiolo. Involuc. foliaceum flori approximatum urceolum æquans v. exsuperans, foliolis ovato-oblongis v. orbiculatis, serratis, dente infimo utriusque lateris sæpius glanduloso-producto saturatiùs virente, apice umbilicato. Cal. molli-coriaceus, extùs virescens, lanuginosus, urceolo brevi oblato-campanulato lineis 10 superficialibus saturatioribus notato nec toroso neque sulcato, fundo subtùs intruso, segmentis naviculari-oblongis, sursùm attenuatis acumine obtuso, intùs concaviusculis candicantibus, extùs carinâ prominente in rostrum incurvulum compresso-subulatum productâ. Cor. candicans, summo urceolo inserta, calyce longior et plurimùm tenuior, laciniis lineari-oblongis subundulatis, apice rotundatis muticis: corona $\frac{1}{4}$ circâ brevior corollâ, violaceo et albo variegata, duplex, numerosa; radii exteriores contigui patentissimi filiformes obtusi: interiores saturatè purpurei ordine plurali conferti; filiformes, exterioribus aliquoties breviores, paulò graciliores, operculo duplo longiores, inæquales, obtusi: operculum membranaceum, nectario incumbens, dilutè rubescens, medio tenùs multifidum, nectarii septo inferiori impositum: nect. urceolo conforme, bicameratum, septo superiore à pariete libero columnam adnato-circinante dentato, inferiore parietali edentulo. Columna plurimùm brevior corollâ, stipite brevi crasso glabro lineolis rubris interruptis consperso: germ. pallidè virescens, lanuginosum, ellipticum, exsulcum; styli clavati, germen cum stipite simul subæquantes, violaceo-punctati, stigmata reniformi-depressa, opacata, summis clavis adnata. Fil. virentia, plana, linearia, glabra, submaculosa: anth. oblongæ, flavæ. Bacca (ex Cavan. l. c.) pendula, sphærica, magnitudine Pomi, sulcis 6 aut lineis notatus; cortex tenuis; pulpa alba carnosâ mucosa.

Although distinguishable by several available differences, our plant in general appearance comes near to the North American *incarnata* (vol. 4. fol. 332 of this work), and seems intermediate between that and the South American plant (vol. 2. fol. 152) since separated by the specific name of *edulis*. The three appear to form a group peculiarized in the genus by a glandularly serrated involucre. In *filiformis* the urceolus (tubular portion of the calyx or outer wall of the nectary) is much deeper than in *incarnata*, but much shallower than in *edulis*; and the lobes of its leaves are more numerous than in either of the others, where they are constantly three, while in this they vary from three to five and not seldom to seven; five being however the usual number.

Drawn from a plant which flowered last September in a stove in the garden of the Horticultural Society.

It is a free-flowering, free-growing, ornamental species, and said to have been lately imported by Messrs. Loddiges from South America.

(*α*) which differs very slightly, was raised some years ago by Professor Cavanilles in Spain, in the garden at Issy belonging to the Duke dell' Infantado.



RUELLIA paniculata.
Christmas Pride of Jamaica.

DIDYNAMIA ANGIOSPERMIA.

Nat. ord. ACANTHI. *Jussieu gen.* 102. *Div. I.* Stamina 4 didynama.

ACANTHACEÆ. *Brown prod.* 1. 472.

RUELLIA. *Cal.* 5-partitus (nunc profundè 5-fidus), æqualis. *Cor.* infundibuliformis, limbo 5-fido, parùm inæquali, patenti. *Stam.* 4 antherifera inclusa: *Antheræ* loculis parallelis, muticis. *Germinis* loculi polyspermi. *Caps.* teretiuscula, subsessilis, dissepimento adnato. *Semina* retinaculis subtensa. *Herbæ* oppositifoliæ, caulescentes, sæpè pilosæ. *Flores* axillares v. terminales. *Brown prod.* 1. 477.

R. paniculata, foliis integerrimis, pedunculis dichotomis lateralibus, calycibus sessilibus: laciniâ supremâ majore. *Lin. sp. pl. ed.* 2. 2. 885.

Ruellia paniculata. *Mill. dict. ed.* 8. n. 5. *Swartz obs.* 244. *Willd. sp. pl.* 3. 367. *Hort. Kew. ed.* 2. 4. 57.

Speculum Veneris majus impatiens. *Sloane jam.* 1. 158. t. 100. fig. 2.

Ruellia 1. procerior, subcinerea, hirsuta; pedunculis ramosis, flore multiplici. *Browne jam.* 261.

Caulis suffrutescens, 2-3-pedalis, ramosus, sæpè prostratus, 4-gonus glaber, versùs apicem pubescens. *Rami præcipuè ex paniculis formantur.* *Fol. petiolata, opposita, ovato-lanceolata, subserrata, nervosa, hirsutiuscula v. scabra; caulina majora; ramea sæpè decidua: pet. breves.* *Paniculæ ex ramis oppositis dichotomis divaricatissimis; pedicellis 1-floris, floribus majusculis cæruleis v. purpurascensibus.* *Cal. 5-phyllus: foliola linearia, longa, erecta, hirsuta: hirsuties glandulosa.* *Cor. infundib. tubus calyce duplo longior; limbo dilatato posticè gibbus, anticè planus: limbus 5-fidus: laciniæ subæquales; posteriores 2 vix breviores, 3 anteriores patentiores; omnes subrotundæ, concavæ, incumbentes.* *Faux compressa pallidè cærulea.* *Fil. 4, è basi tubi, duo dimidio breviora (rectiùs vix inæqualia) per paria approximata: anth. erectæ, acuminatæ, albæ, 2-valves.* *Germ. oblongum, acuminatum: stylus longitudine tubi, filiformis: stig. 2-fidum, alterâ laciniâ longiore.* *Caps. acuminata, calyce cincta, 2-loc. ungue elasticosè aperiens: sem. subrotunda, compressa, nigra.* *Tota herba subviscosa odorata, odore ad Camphoram accedente (quod in exemplari nostro non notavimus).* *Swartz l. c.*

Very common about Spanish Town in Jamaica, where, according to Browne in his account of the island, it generally blows in December and January, and from that circumstance has been named by the colonists "Christmas Pride." It makes a beautiful appearance among the bushes for the season of the year; and if skreened and supported by the neighbouring shrubs will attain the height of three feet, otherwise it seldom exceeds a foot and a half and lies along the ground.

Cultivated by Miller in 1768; but we had never met with the plant before last summer, when it flowered in the hothouse of Mr. Lee of the Hammersmith nursery, having been raised from seed from Jamaica.

The genus has been entirely recast in the Prodrromus of Mr. Brown; and defined as follows: *Calyx* 5-parted (sometimes deeply 5-cleft), equal. *Corolla* funnellform, with a 5-cleft spreading slightly unequal limb. *Stamens* 4, all antherbearing, inclosed; *anthers* with parallel unappendicated cells. Cells of the *germen* manyseeded. *Capsule* roundish, sessile, with the partition grown to the valves. *Seeds* subtended by brackets (bracketted). The group thus circumscribed consists of herbaceous caulescent opposite-leaved frequently furred plants; with either axillary or terminal flowers.

The species with two-seeded cells, in the genus, are thus excluded, and distributed into other groups.

Stem 2-3 feet high, branching, frequently lying along the ground, 4-cornered, smooth, furred at the upper part; the branches consist chiefly of the divisions which constitute the panicle. *Leaves* petioled, ovately lanceolate, subserrate nerved, either slightly hirsute or else roughened; stem-ones the longest; those of the branches frequently falling off while in flower: *petioles* short. Branches of the *panicle* opposite dichotomous divaricate; *pedicles* one-flowered, flowers largish, either blue or purple. Segments of the *calyx* long, linear, upright, hirsute, the pubescence glandular. Tube of the *corolla* twice the length of the calyx, wide above, gibbous behind, and flat before; segments of the limb nearly equal; two hinder ones scarcely shorter than the rest, three front ones more spreading; all nearly round concave and lapping at the sides: *faux* compressed and paler. *Filaments* from the base of the tube, two shorter by half than the rest (this seems a mistake, as there is scarcely any inequality mentioned by others) nearing by pairs: *anthers* upright, white, bivalved. *Germen* oblong, taper-pointed: *style* the length of the tube filiform: *stigma* bifid, with one lobe longer than the other. *Capsule* taper-pointed, enclosed by the calyx, bilocular, bursting elastically upon the claw: *seeds* nearly round, compressed black. The whole plant said to be slightly viscid, with a smell that approaches in some degree to that of Camphor.

We had no opportunity of describing the plant ourselves.



AMELLUS Lychnitis.

Cape Amellus.

SYNGENESIA POLYGAMIA SUPERFLUA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VII. Receptaculum paleaceum. Semen papposum, pappo plumoso aut piloso aut aristato. Flores sæpiùs radiati.

AMELLUS. Cal. subhemisphæricus, imbricatus squamis linearibus appressis. Thalamus paleaceus. Flosc. disci androgyni; radii feminei, ligulis oblongis cæruleis apice vix sensibilitè 2-3-dentatis: utrique fertiles. Sem. difformia. Pappus omnis simplex: radii paleaceus; disci setaceus. Gært. sem. 2. 459. Interdum unicus radius setaceus longior pappo seminum radii paleaceo admiscetur. Id.

A. *Lychnitis*, caule fruticoso, foliis incanis lineari-lanceolatis oppositis, ramis alternis. Willd. sp. pl. 3. 2214.

Amellus Lychnitis. Linn. sp. pl. ed. 2. 2. 1276. Mill. dict. ed. 8. n. 1.

Berg. cap. 298. Thunb. prod. 162. Jacq. coll. 5. 151. t. 10. fig. 1.

Hort. Kew. ed. 2. 5. 118. Gært. sem. 2. 459. t. 173. fig. 3.

Verbesina asteroides. Linn. sp. pl. ed. 1. 2. 902.

Buphthalmum foliis oppositis lanceolato-linearibus obtusis integerrimis, calycibus subrotundis. Hort. cliff. 415.

Chrysanthemum v. potiùs Buphthalmum africanum leucocii foliis, asteris flore cæruleo. Breyn. prodr. pl. rar. fasc. 1. 17. fasc. 3. t. 15. fig. 2.

Suffrutex sericeus, 2-3-pedalis: caulis teres crassitudine pennæ scriptoriæ, ramosus, ramis diffusis herbaceis. Folia cano-virentia, sessilia, alterna et opposita, elongato-oblonga, subcuneata acumine brevi, uncialia ad sesquiuncialia. Pedunculi terminales, solitarii, 1-flori, stricti, teretes, villosiusculi, erecti. Cal. radio bis brevior v. ultrà, herbaceus, turbinatus; foliolis recto-appressis, paulò inæqualibus lineari-acuminatis; dorso convexo, cuspidè sphacelato-purpurascènte. Radius femineus, lilacino-cærulescens, vesperè revoluto-contrahendus, manè iterùm evolvendus: flosc. laminâ obversè ligulatâ subplicatâ obsoletè tridenticulatâ, tubo eâ bis breviorè gracili cylindrico gracili villosulo. Stylus flavus, stigmatibus 2 linearibus parùm exsertis: germ. oblongum, obversum, angustum, angulosum, album, pappo paleaceo brevissimo è paleis paucis (4-5-6?) dentiformibus: discus hermaphrod., flavus, numerosus, altior calyce; flosc. infundib., tubo bis breviorè fauce longâ ampliusculâ cylindricâ infernè obsoletè villosâ supernè glabrâ, limbo flavo brevi reflexo. Stylus albus; stig. 2, exserta, linearia, flava, replicata, lobo villosulo subsagittato-acuminato terminata. Filamenta flexuosa: pollen vitellino-flavescens. Germ. turbinatum, compressum, album, pappo albo setaceo denticulato brevi (longiore tamen radii) paucò rigido. Recept. paleaceum: paleæ disci flosculis æquales, scariosæ, fusco-mucronatæ.

Cultivated by Miller in 1768; but still scarce with us, notwithstanding its easy culture and lively-coloured blos-

som. We had never indeed observed a plant of it in any of our gardens before last summer, when several flowered in the greenhouse of the nursery of Messrs. Colvill, in the King's Road, having been raised from seed from the Cape of Good Hope.

In the Hortus Kewensis the species is marked as a shrub; but we suspect it to be only suffrutescent and biennial; for none of the plants we had seen survived the season of their flowering.

Suffrutescent? silkily furred, branching, 2-3 feet high; *stem* about as thick as a common pen; *branches* long, straggling, herbaceous. *Leaves* greyish green, sessile, elongatedly oblong, subcuneate, with a short abrupt point; from an inch to an inch and a half in length or more, partly alternate, partly opposite. *Peduncles* at the ends of the branches, solitary, oneflowered, straight, round, slightly villous. *Calyx* twice shorter than the ray or more, turbinate, herbaceous, imbricate; *leaflets* not very unequal, upright, linearly taper-pointed, convex at the back, point sphacelate and purplish. *Ray of the flower* pistilbearing, of a lilac-blue, numerous, rolling itself up backwards in the evening, opening again in the morning; lamina of the *florets* obversely ligulate, 2-plaited, obsolete indented at the end; tube twice shorter slender cylindrical villous: *style* deep yellow with two slightly protruded linear *stigmas*: *germen* oblong, tapered downwards, narrow, angular, white; *pappus* (*seedcrown*) chaffy extremely short consisting of a few (4-5-6?) teethlike paleæ: *florets of the disk* stamen and pistilbearing, deep yellow, numerous, higher than the calyx, funnelform; *tube* twice shorter than the long widish cylindrical partly smooth partly villous *faux*; *limb* short reflex: *style* white, *stigmas* 2, protruded, linear, deep yellow, recurved, ending in a subsagittately pointed villous lobe: *filaments* flexuose: *pollen* orange-yellow. *Ger-men* cuneate, compressed, white; *pappus* white setaceous denticulate short (but longer than in the ray) scanty: *receptacle* chaffy: *paleæ* equal to the florets of the disk, scariose, brown-pointed.



RELHANIA pungens.

Prickly Relhania.

SYNGENESIA POLYGAMIA SUPERFLUA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. V. Receptaculum paleaceum. Semen nudum seu non papposum. Flores plerumque radiati, raro flosculosi. Pappus nunc brevis.

RELHANIA. (Pappo phyllode aut paleaceo. Thalamo paleaceo.)
Cal. ovato-oblongus, imbricatus squamis cartilagineis appressis, apice appendiculatis scariosis. *Flosculi disci* androgyni; *radii feminei*, ligulis ovato-lanceolatis integerrimis: utriusque fertiles. *Pappus* foliolis quinque aut paucioribus, brevibus. *Gærtn. sem.* 2. 440 (sub ECLOPE). Genus ATHANASIAE affine, ut nihil sit aliud quam ATHANASIA radio larvata. Gærtn.

Div. Floribus solitariis.

R. pungens, foliis linearibus subpungentibus subtus striatis, floribus sessilibus. *L'Hérit. sert. angl.* 24.

Relhania pungens. Willd. sp. pl. 3. 2138.

Fruticulus pedalis et ultra, debilis, ramosus, ramis duris, undique foliosis, supernè tomentoso-cinereis. Folia acerosa, rigida, sessilia, adscendentia, laxius sparsa, lineari-subulata, $\frac{2}{3}$ unciae v. circa longa, integerrima, dorso convexa striata subtomentosa strigilosa virentia, intus concava tomento denso candicante, ab apiculo fusco aciculari subpungentia. Flores concolores, aurei, terminales, sessiles, solitarii, foliis partim obvallati, unciam diametro excedentes. *Cal.* oblongus, turbinatus (deorsum attenuatus) melino-subfuscescens, corollæ discum plurimum exsuperans, infra arcuè imbricatus et areolis tomentoso-albis varius, supra radiato-patens glaberrimus: foliola inaequalissima, intima spathulato-ligulata cum laminâ lanceolatâ sublatisiore ungue. Corollæ radius plurimus: flosc. feminei, subcontigui, laminâ obversè ligulatâ edentulâ, biplicato-striatâ, subtus secundum medium longitudinis rubente, vesperè connivente flore convoluto-complicandâ manè reserandâ, tubo parum brevior, compresso, recurvo, subpiloso: germ. oblongum, triquetro-compressum, sericeo-tomentosum; pappus brevissimus paleaceus villosus laciniato-fissilis acuminatus æqualis: stig. 2, glabra, filiformia, subexserta, flava: discus planiusculus, flavus, tubis radii paulò altior; flosc. hermaphr. glabri, subpellucentes, exteriores peripheriam versùs recurvati; tubo tereti; fauce subampliore, oblongâ, cylindricâ, marginato-5-gonâ; limbi laciniis brevibus ovato-acuminatis: antheræ flavæ, filamentis elasticis: germ. oblongum, cultrato-compressum ab acie interiore villosâ; pappus radii similis nisi quod sæpè inflosculis centralioribus lacinularum una interior in setam longiorem producat: stig. 2 furcato-recurva, linearia, glabra, flava. Recept. planiusculum angustum: paleæ lanceolato-cuspidatæ, flosculis disci parum breviores, scariosæ, naviculares, singulæ flosculum singulum complectentes, carinâ, denticulato-pubescente.

Till now only known by the above short phrase in "Sertum Anglicanum," where it has been entered by L'Hé-

ritier, the founder of the genus, from a native sample in the Banksian Herbarium. We have not retained the synonym quoted by Willdenow, from Thunberg's Prodrumus, the leaves in that being described as bare or smooth, while in this they are furnished with both a downy and a strigilose pubescence.

Introduced by Messrs. Colvill, of the King's Road, Chelsea, with whom it flowered last September in the greenhouse, having been grown from seed from the Cape of Good Hope.

The genus includes 19 published species, of which only one besides the present is noticed as being in our gardens; and that belongs to a different section. They are all from South Africa.

A small weak, slender, branching *shrub*; branches leafy all the way, and tomentosely grey in the young wood. *Leaves* acerose, rigid, sessile, ascending, scattered, rather wide-set, linearly subulate, about $\frac{3}{4}$ of an inch long, entire, on the outside convex fluted slightly tomentose roughened by short hard inclined bristles and green, on the inside concave and tomentosely whitened, point spinous brown. *Flowers* yellow, terminal, sessile, solitary, enveloped below by the leaves of the branches, more than an inch in diameter. *Calyx* oblong, turbinate or narrowing downwards, light-yellowish brown, much higher than the disk of the flower, closely imbricated below and chequered by small downy white compartments, radiately extended above and quite smooth: *leaflets* very unequal, inner ones spatulately ligulate with a lanceolate lamina (blade) rather broader than the unguis (claw). *Radius* of the *corolla* numerous, *florets* pistilbearing, closish, lamina obversely ligulate unindented 2-plaited, reddish down the middle of the back, convolutedly folded when the ray converges at sunset.



dent. del.

Sub. by J. Ridgway 170 Piccadilly Dec. 1. 1821.

J. Watts. sc.

IPOMŒA pandurata; α .
Potato-Vine.

PENTANDRIA MONOGYNIA.

Nat. ord. CONVULVULI. *Jussieu gen.* 132. *Div. I.* Stylus unicus.
CONVOLVULACEÆ. *Brown prod.* 1. 481. *Sect. I.* Germen
unicum.

IPOMŒA. *Suprà vol.* 1. *fol.* 9.

Div. Caulis volubilis.

I. pandurata, foliis cordatis integris panduriformibus; calycibus lævibus.
Lin. sp. pl. ed. 2. 1. 219; (sub CONVULVULO).

(α) stigmatate capitato.

Convolvulus panduratus. *Lin. loc. cit.* *Willd. sp. pl.* 1. 850. *Hort. Kew.*
ed. 2. 1. 329. *Pursh amer. sept.* 1. 144. *Nuttall gen.* 1. 123. *Elliot*
sket. 1. 254. *Barton med. bot.* 1. 250. t. 23. *Curtis's magaz.* 1939.

Convolvulus foliis cordatis integris panduriformibus, calycis lævibus. *Gron.*
virg. ed. 2. 28.

Convolvulus foliis inferioribus cordatis, superioribus trilobis, calycibus pe-
dunculis petiolisque glabris caule cærulescente. *Fl. virg.* 141.

Convolvulus flore maximo albo, tubo intùs purpureo, foliis panduriformibus
et nonnullis cordatis. *Clayt. n.* 641.

Convolvulus megalorhizos flore amplo lacteo; fundo purpureo. *Dill. elth.* 101.
t. 85. *fig.* 99.

(β) stigmatibus brevibus.

Convolvulus candicans. *Solander in schedis banksianis.* *Curtis's magaz.*
1803.

Convolvulus panduratus. *Michaux bor. amer.* 1. 138.

Radix perennis, elongata, cylindrica. Caulis herbaceus, volubilis, pu-
bescens, teres. Folia (subsecunda) longè petiolata, lato-cordata s. lobata
lobis rotundatis obsoletioribus, integra, acuminata, petiolo 2-unciali. Pedun-
culi lactescentes folio longiores teretes: flores fasciculati. Cor. magna, tu-
bulato-campanulata (hypocrateriformis) alba, fundo rubro-purpurascete.
Bractææ vix ullæ, sed sæpiùs squamæ 2 obsoletæ. Stam. longitudine tubi
alba infernè laxiùs lanata. Pist. album, longitudine vix staminum; stig.
capitatum album. *Barton loc. cit.*

Folia subtùs pilosiuscula: petioli villosi. Pedunculi 1-5-flori; pedicelli
crassiusculi, stricti. Foliola 2 extima calycis opposita plurimùm breviora
firmiora oblonga obtusa extùs subplicato-striata. Germ. viride conicum disco
carnoso luteo orbiculato elevato subimmersum, biloc.? 4-spermum? Stam.
inæqualia: anth. lineares albæ receptaculo dorsali fusco. Stigma parvum,
capitatum, apice bilobo-emarginatum.

Drawn at the Nursery of Mr. Dennis, Queen's Row, Pimlico; where the plant was cultivated in the stove, and flowered in perfection from July to September. It seems very rare in our collections, though ornamental, and ac-

according to Dr. Barton found very generally in sandy places from Canada to Florida; receiving in its course various local appellations, such as: Wild-Rhubarb, Wild-Potato, Hog-Potato, Wild-Potato-Vine, Mecoacanna, Kussader or Kassader, &c. &c.

We have subjoined *candicans* as a variety, not from an assurance of the specific identity of the two plants, but for the sake of assorting the synonymy, which has, we suspect, been confused by Michaux and Pursh. Their stigmas differ materially; though the plants agree in a general habit distinguishable in the genus by some striking peculiarities.

“ The root is perennial, very large, cylindrical, and
“ full of longitudinal fissures. It is generally about the
“ thickness of a man’s wrist, and about two or three feet
“ long, branched at the bottom, of a yellow ochre colour.
“ I have seen specimens of greater dimensions. The stem is
“ twining, often procumbent on the earth, not unfrequently
“ climbing round fence-posts. It is round and of a greenish
“ purple colour. The leaves are broad-heartshaped, entire,
“ lobed, panduriform, somewhat acuminate, deep green
“ above and lighter underneath, situated on long petioles.
“ Flowers in panicles; calyx smooth awnless, corolla tubu-
“ larly campanulate, white, with purplish red at the base,
“ both within and without. The peduncles and petioles
“ have a common origin, and are arranged in pairs. The
“ flower-buds are of a purplish red hue at first, and when
“ further advanced, of a straw-colour. Flowers from June
“ to August.” *Barton l. c.*

The medicinal virtues, which reside in the root, do not appear to be either important or well-ascertained, but as far as they have been proved, are deemed analogous to those of Jalap. Mr. Elliot speaks of the root as being of a bitterish taste, slightly astringent and containing some resin.



HIBISCUS mutabilis.
Changeable Rose-Hibiscus.

MONADELPHIA POLYANDRIA.

Nat. ord. MALVACEÆ. Jussieu gen. 271. Div. III. Stamina indefinita. Fructus simplex multilocularis.

HIBISCUS. Suprà vol. 1. fol. 29.

H. mutabilis, foliis cordatis angulatis quinquelobis acuminatis, calyce exteriori octophyllo, capsula villosa, caule arboreo. Willd. sp. pl. 3. 817.

Hibiscus mutabilis. Lin. sp. pl. ed. 2. 2. 977. Thunb. jap. 272. Cavan. diss. 3. 165. t. 62. fig. 1. Loureiro coch. 419. Andrews's reposit. 228. Hort. Kew. ed. 2. 4. 226.

Hibiscus sinensis. Mill. dict. ed. 8. n. 2.

Rosa sinensis. Ferr. de cult. flor. 479. tabb. 485-499. Mer. surinam. 31. tab. 31.

Flos horarius. Rumph. amb. 4. 27. tab. 9.

Hina-parcti. Rheede malab. 6. 69. tabb. 38-42.

Frutex arboreus villosa-canescens ramosus, ramis cuticulâ tomentosâ cinerascens. Fol. tomentosa, dentata 7-9-nervia, 7-9-angulata: stipulæ 2 erectæ, lineari-attenuatæ. Flores magni, subquini, in summis ramis axillares, solitarii, erecti, corymbosi, pedunculis petiolo longioribus, teretibus, strictis. Cal. duplex, herbaceus, mollis, pubescens: exterior 8-phyllus, interiori dimidio brevior, foliolis lineari-attenuatis, 2 majoribus oppositis: interior 5-fidus, $\frac{3}{4}$ unciæ altus, nervoso-striatus, segmentis ovato-acuminatis. Cor. contorto-rotata diametro triunciali v. majore, æqualis, extus villosa, manè viridi-candicans, meridiè dilutè erubescens, vesperè saturatè purpurascens, occidente sole marcescens: petala cuneato-obovata, nervosa, sesquiuncialia, parùm longiora quàm lata, basi intus villosa-barbata; laminâ subrotundâ. Tubus stamineus triplo ferè brevior corollâ, lutescens, umbonato-conicus, totus confertim antheriferus; antheræ pallidè sulphureæ filis incumbentes ipsis longioribus; pollen è granulis globulosis grumosum. Styli 5 exserti, replicati, stigmatibus pruinosis pilcato-capitati: germen ellipticum, viride, apice sericeo-barbatum.

Native of the East Indies, China, and Japan. Introduced by Lord Portland in 1690. It had however been cultivated before 1632 at Rome by Father Ferrari, the Jesuit who wrote the treatise "De Culturâ Florum;" the seed having been sent him by some monks of his own order, as he says, from the West Indies, where, though not aboriginal, it is much cultivated for the beauty of the flowers, which are usually seen in the double or full state, as with us in our hothouses. We know of no representation of the species in the single-flowered state in any of our popular

works, and have been induced to publish the present figure for that reason.

On the first appearance of the plant in the gardens of Europe, it attracted much attention by the curious transitions of a corolla, opening in the morning from green to white, about noon beginning to redden, in the evening deepening to a full crimson, then quickly fading.

Drawn last November three years, in the hothouse of Mr. Vere, at Kensington Gore.

An arboreous shrub, with a stem 8 or 9 feet high, and 2 or 3 inches in diameter. Ferrari, who has allotted several fine engravings and many pages of description to its illustration, likens the leaves to those of the Vine for size, to the Fig-tree for hue and surface, to the Ivy for the angular incisure of the circumference. It should be observed, that when he says the seeds came from the West Indies, he mentions its appellation as being Fuyo, which is its vernacular one in its native Japan.



LIATRIS scariosa.

Large-flowered Liatris.

SYNGENESIA POLYGAMIA ÆQUALIS.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. I. Receptaculum nudum. Semen papposum. Flores flosculosi.

EUPATOREÆ. Cassini in journ. de phys. 88 (an 1819). 191.

LIATRIS. Cal. oblongus, imbricatus. Recept. nudum. Pappus plumosus, persistens (sæpè coloratus). Antherarum basis integra. Semina pubescentia, striata, turbinata.

Herbæ perennes, radice tuberosâ v. fibrosâ. Fol. alterna, integerrima, glanduloso-punctata, sæpè angusta. Flores spicati, racemosi, v. subcorymbosi, purpurascens. Cal. flosculis 5-10-20-(vel longè numerosioribus). Stylus 2-fidus, exsertus; sem. basi stipite minuto suffulta, sub10striata integumento multivalvi. Nuttall gen. 2. 131; (ex angl. vers.)

Div. Spicatae s. racemosae; bulbosae.

L. scariosa, caule simplici subpubescente, foliis lanceolatis utrinque attenuatis glabris margine scabris, calycibus racemosis alternis distantibus infernè squarrosis; squamis spathulatis, margine membranaceo-coloratis. Pursh amer. sept. 2. 509.

Liatris scariosa. Willd. sp. pl. 3. 1635. Hort. Kew. ed. 2. 4. 503. Nuttall gen. 2. 132. (*L. scariosa*. Curtis's magaz. 1709, quoad figuram saltèm, ad sphaeroideam rectiùs referenda).

Liatris squarrolosa. Michaux bor. amer. 2. 92.

Vernonia scariosa. Poir. in Lamarck encyc. 8. 502.

Serratula scariosa. Lin. sp. pl. ed. 2. 2. 1147. Mill. dict. ed. 8. n. 5.

Serratula foliis lanceolatis integerrimis, calycibus squarrosis pedunculatis obtusis lateralibus. Gron. virg. ed. 2. 116; (affirmante exemplari archetypo Herb. Claytoniani).

Caulis robustus, strictus, viridis v. purpurascens, villosus, simplex, obsoletè sulcatus, undique foliosus. Fol. sparsa lanceolata, gradatim decrescentia patentia puncticulata, glabriuscula, margine brevè ciliata, firmula; radicalia longè petiolata, 6-9-uncialia: caulina sessilia, distantia, subdecurrentia, lanceolato-linearia, numerosa. Racemus caulem continuo-terminans, strictus, sparsè distans, multiflorus, nunc infernè divisus; pedunc. axillares, solitarii, robusti, adscendentes, stricti, cum calyce clavato-continui, 1-flori, villosi, supernè juxta florem foliolis subulatis crebriùs rariùsve consiti, nunc aphylli. Flores lilacino-rubentes, erectiusculi, nunc unciam diametro excedentes, terminalis cæteris submajor. Cal. herbaceus, campanulatus, imbricatus, infernè subsquarrosus; foliola erecta, numerosa, glabra, punctata, ciliata, ima oblonga subacuminata, media obtusiora, summa spathulata laminâ subrotundâ, expanso flore, patente, ad marginem membranaceâ saturatè coloratâ denticulato-erosâ obsoletius ciliolatâ: cuncta nervo medio foliorum

ad instar percursa. Flosc. glabri, æquales, numerosi, infra limbum decolores, subdiaphani, micantes, clavato-infundibuliformes, peripheriam versùs recurvati, limbo patente bis breviorè fauce cum tubo simul sumptá, laciniis oblongis attenuatis obtusiusculis. Antheræ castaneo-fuscæ, valvulis 5 minimis obtusulis concoloribus apiculatæ, basi obsoletè emarginatæ: fil. inelastica. Stigmata palparum instar exserta, longissima, lilacina, filiformia, glabra, intùs canaliculata, deorsùm subattenuata et de infra medium usque ad basin sulco latiore planiusculo candicante puniceo-marginato exarata; stylus brevior, albus. Germ. cuneato-cylindricum, sesquibrevius pappo, hirsutum, sulcato-striatum, pallens, stipite brevi capillaceo insidens: pappus plumosus, serie simplici plurimus, coloratus, fauci flosculi æqualis. Recept. planiusculum, glabrum, punctatum.

A reference to the original sample in the Claytonian Herbarium, proves our plant to belong to the *scariosa* of Gronovius and Linnæus; else the epithet "squarrosus" applied by the latter to the calyx would have left some uncertainty. We still however suspect that "squarrosus" has been used inadvertently for "scariosus;" though in strictness neither term is correct, for it is the bottom only of the calyx that is slightly squarrose, and the top only that is partially scariosely; but it is an epithet applied by Pluknet to that plant of his work, which has been deemed by Linnæus specifically identical with *scariosa*, and which must have suggested to him the name.

We omit in our synonymy the *L. scariosa* of Curtis's Magazine (No. 1709) believing it (as to the figure at least) to be the *L. sphæroidea* of Michaux, in which the edges of the leaves are smooth, the spike much longer, more numerous flowered and shorter peduncled, the calyx nearly globular, tenderer, and of a lighter green, with far broader colourlessly and scariosely bordered connivent interior leaflets. The description, however, which is said to have been taken from a different plant from that from which the drawing was made, may probably relate to the present species.

The synonym adduced to *scariosa* by Linnæus from Pluknet, we believe to belong to *sphæroidea*. The two seem to have been also confused in the Banksian and Lambertian Herbariums.

Drawn last October from a plant in the collection of Mr. Burchell, at Fulham. We also saw several others in the Nursery of Messrs. Colvill, at Chelsea.

It is a hardy perennial with a stout stem from 2 to 3 feet high, rising from a large tuberous root, and flowering freely from September to November in the open ground.

Cultivated by Miller in 1739.

“ LIATRIS is a genus wholly North American, the
“ tuberous-rooted species of which rank amongst the nu-
“ merous, real or pretended, remedies administered for
“ the bite of the Rattle-snake. To the taste and smell
“ the roots appear impregnated with turpentine, and the
“ plants are for this reason called *Pinettes de Prairie* by the
“ Canadian boatmen.” *Nuttall l. c.*



Asplenium platyneuron (L.) Willd. Bot. Beechey Jan. 1. 1827.

TITHONIA tagetiflora.

Saffron-coloured Tithonia.

SYNGENESIA POLYGAMIA FRUSTRANEA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VII.

HELIANTHÆ. Cassini in journ. de phys. 98 (an 1819). 191.

TITHONIA. *Involucr. (cal.) globosum, gemino ordine polyphyllum, foliolis ovatis acuminatis subæqualibus suprâ patentibus. Flos numerosus radiatus: flosc. radii neutri, plurimi, ovali-oblongi, nervoso-striati; disci hermaphr. basi ventricosi. Recept. convexum, paleaceum. Achenia (sem.) cuneato-oblonga, subcompresso-5-gona, glabra v. pilosa: pappus paleaceus, brevis persistens, paleis 5-7 inæqualibus lacero-truncatis, 2 oppositis longioribus (in T. tubæformi subulato-cuspidatis).*

Herbæ annuæ, robustæ, facie HELIANTHI. Fol. alterna, petiolata, ovata, acuminata, serrata, nunc lobata, petiolum versùs cuneata. Pedunculi elongati, aphylli, suprâ clavato-incrassati, fistulosi. Radius croceus vel flavus. In HELIANTHO proximo involucr. multiseriatum squarrosum, recept. planiusculum, pappus bipaleaceus caducus sæpiùs cuspidatus. In GALARDIÀ flosc. disci glanduloso-tomentosi, radii 3-partiti, pappus polyphylo-paleaceus foliolis distinctis lanceolatis integris setâ longâ terminatis. Don MSS.

T. tagetiflora, involucri (calycis) foliolis ovato-lanceolatis, acheniis (seminibus) glabris, pappi foliolis omnibus laceris, foliis integris trilobisve, asperis. Don MSS.

Tithonia tagetiflora. Desfontaines in ann. du mus. 1. 49. t. 4. Willd. sp. pl. 3. 2246. Lamarck illustr. t. 708. Poiret in Lamarck encyc. 7. 690. Smith in Rees's cyclop. in loco.

Caulis 1-3-pedalis, erectus, teres, molli-pubescent, alternè ramosus, foliosus: rami remoti, simplices. Fol. longè petiolata, ovata v. subcordata, acuminata, integra v. 3-loba, crenata, reticulato-nervosa nervis 3 principibus: utrinque viridia, hirta. Pedunculi elongati, uniflori, lanuginosi, supernè incrassati, fistulosi. Involucr. foliaceum, villosum, foliolis integerrimis infernè coarctatis erectis, supernè laxis patentibus. Flosc. radii (12?) neutri, crocei, elliptico-oblongi, intùs lanugine densâ minutâ vix sensibili pruinosi, extùs villosi, nervoso-striati, apice subdentati, tubulo hirsuto brevissimo viridi compresso; flosc. disci pubescentes, limbo flavo hirsuto erecto, laciniis oblongis acutulis, tubo pallescente basi ventricosâ hirsutiore. Germ. albicans, turbinatum, pilis raris deflexis: pappus tenuis albus, è paleis latis subbinis oppositis glabris fissilibus laceris pluriès brevioribus flosculo (flosculorum centraliorum lacinula una palearum nunc in setam villosam producit): stig. exserta, flavissima, lineari-acuminata, revoluta-replicata, extùs villosa; stylus albus, basi bulbosus. Fil. elastica, villosa: anth. pullo-flavoque alternè striatæ cum pube brevi pellucidâ appressâ, valvulis 5 flavis erectis oblongis terminatæ: pollen flavum. Receptaculi paleæ lanceolato-naviculares, cuspidatæ, carinatæ, dorso villosæ, flosculis disci plurimùm breviores, supernè fusco-virentes. Achenia (sem.) cuneato-oblonga compressiuscula, 5-angula, glaberrima. Pappus persistens. Don MSS.

Cultivated in the Paris Garden in 1778, from seed collected at Vera Cruz by M. Thierry. Established as a distinct genus by Professor Desfontaines in 1780.

Now first introduced into this country by the Horticultural Society, with whom it flowered in their garden at Hammersmith towards the end of last summer.

A very handsome outdoors annual, requiring to be raised in the spring upon a hotbed. The flowers have something the appearance of the French Marygold, but are of a different and much finer yellow. We suspect that the plant will not ripen seed very readily either here or in France, in which last country it has been long since lost.

We find samples of the species, gathered in Jamaica by Mr. Wiles, in the Lambertian Herbarium.

An attentive examination of the samples of *HELIANTHUS tubæformis*, in the same Herbarium, has convinced us that that species should be included in *TITHONIA*, with which it agrees throughout in habit and character. There is likewise an unrecorded species in the same Herbarium, brought by Mr. Cowan from the Havannah; and this, we believe, will also be found to belong to *HELIOPSIS*.

We had not room for any of the lower three-lobed leaves in our plate, where only the upper entire ones are shown.

The genus comes near to *HELIANTHUS*, but there the calyx is in many rows of leaflets and squarrose, the receptacle nearly flat, and the seedcrown of two caducous generally cuspidated paleæ. *Don MSS.*



Helianthus annuus L. - Common Sunflower

HELIOPSIS canescens.

Peruvian Heliopsis.

SYNGENESIA POLYGAMIA SUPERFLUA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VI.

HELIANTHÆ. Cassini in journ. de phys. 88 (an 1819). 191.

HELIOPSIS. Involucrum (calyx) polyphyllum, imbricatum. Recept. conicum paleaceum. Flosculi disci tubulosi, hermaphroditi; radii ligulati, feminei. Achenia (semina) apice calva. Herbae oppositifoliae. Flores terminales, solitarii, pedunculati, flavi. Kunth nov. gen. et spec. 4. 212.

H. canescens, foliis cordato-ovatis utrinque villosis, involucro biseriato imbricato, ramis erectis bifariam pilosis. Don MSS.

Heliopsis canescens. Kunth nov. gen. et spec. 4. 212.

Heliopsis rugosa. Hort. berol. MSS.

Helianthus bupthalmoides. Hortulanis.

Helenomium canescens. Herb. Willdenovii; (fide D. Kunth.)

Helianthus cordatus. Herbar. peruv. penès D. Lambert.

Herba facie omninò HELIANTHI, perennis, radice ramosá. Caules numerosi, adscendentes, teretes, subtripedales, infernè glabri nitidi, supernè bifariam pilosi, ramosi ramis oppositis, erectis, caules sæpiùs superantibus, iterum divisis. Fol. membranacea, petiolata, lato-ovata, acuminata, serrata, utrinque virentia, hirtiùs villosa (juniora caneseentia), reticulato-venosa, 2-3-pollicaria v. ultrà latitudine sesqui-bipollicari, basi subcordato-rotunda, rariùs petiolum versùs cuneata: petiolus ter brevior laminá v. ultrà, subtùs glaber, suprà hirto-canescens canaliculatus. Pedunculi terminales, erecti, cylindrici, subsulcati, 5-fariam pilosi, canescentes, juxta florem clavati fistulosi; primarii ramis lateralibus breviores hisque abortientibus axillarium æmuli. Flores aurei, magnitudine INULÆ britannicæ. Invol. (cal.) biseriatum, villoso-canescens, foliolis spathulato-lanceolatis, trinerviis, mucronulatis, intinis plurimùm minoribus. Recept. conicum, paleaceum: paleæ lineari-oblongæ, obtusæ, carinatæ, flosculos sigillatim complectentes, apice flavæ. Flosc. disci hermaphr., tubulosi, glabri, deorsum attenuati, limbi laciniis brevissimis acutis revolutis: radii femin., lineari-oblongi, 3-dentato-retusi. Anth. inclusa, nigra. Germen breve, angulatum: stylus basi gibbosus: stigmata exserta, recurvatim replicata, linearia, villosa, incrassato-apiculata. Achenia (semina) subovata 5-angula, papilloso-micantia, epapposa. Don MSS.

While at Paris last summer, we were gratified with the inspection of the Herbarium collected by Messrs. Humboldt and Bonpland in South America, from which the great work of the vegetable discoveries of those celebrated travellers is at this moment editing by M. Kunth. It was

there that we ascertained our plant to be of the species we have placed it in. The synonyms we have added which are not in the "*Nova Genera et Species Plantarum*," were obligingly communicated by M. Kunth, who intends to introduce them in a Synopsis or Appendix that is to conclude his work.

The species was originally taken up from a very dilapidated sample, and its description has consequently failed in the requisite exactness. *Canescens* would have been selected for the specific denomination, had the plant been known to M. Kunth in the fresh state, no grayness being then perceptible. The nascent leaves are indeed slightly hoary.

Introduced by Mr. Anderson from the Berlin garden. Flowered in September last in the Physic Garden at Chelsea; where the drawing was taken. Apparently quite hardy. Perennial and not annual, as presumed by M. Kunth.

Observed by Messrs. Humboldt and Bonpland near Loxa, in Quito, growing at the height of 1050 fathoms above the level of the sea, in a temperate region. There is also a sample in the Lambertian Herbarium, collected by Messrs. Ruiz and Pavon in their Peruvian expedition.

HELIOPSIS was established by M. Persoon from *H. lævis* of North America, the only other recorded species that we are aware of. The character has however been recast by M. Kunth as follows: "*Calyx* many-leaved, imbricate. *Receptacle* conical, paleaceous (chaffy). *Florets of the disk* tubular, bearing both stamens and pistil; *of the ray* ligulate, bearing only the pistil. *Seeds* without pappus. The species are herbaceous plants with opposite leaves, and terminal solitary peduncled deep yellow corollæ." *Don MSS.*

We have to thank Mr. Don for this valuable article.



M. Hart. del.

Pub. by J. Highway 170 Piccadilly Jan. 1. 1822.

J. White. sc.

OPHIPOGON spicatus.

Blue-flowered Snakesbeard.

HEXANDRIA MONOGYNIA.

Nat. ord. ASPHODELEÆ. *Brown prod.* 1. 274.

OPHIPOGON. *Cor.* semisupera limbo 6-partito rotato æquali persistente. *Stam.* inclusa, æqualia, conniventia, *filamentis* brevibus imo corollæ limbo insertis: *anth.* introrsæ, erectæ, sagittato-lineares, extûs prope basin insertæ. *Germ.* semiinferum, 3-loc. loculis di-poly (6) spermis, *ovulis* adscendentibus: *stylus* robustus, triquetro-subulatus; *stig.* apex trigonus continuus.

Herbæ perennes humiliores, radice repente, fibris carnosis sæpiùs tuberoso-nodosis. Fol. graminea, radicalia, sempervirentia? numerosa, linearia, fasciculato-ambientia, infernè semivaginosè compacta incrassato-rigentia ochreateque vel membranâ tenui sphacelatâ utrinque aucta. Racemus laxis, scapi simplicis rigidi flexuosi tereti-angulosi continuus. Flores firmi v. rigentes, ex albidis obsoletius conspicuiùsve cærulescentes, minusculi, cum pedicello articulati, aggregati, rarò solitarii: fasciculi pauci-pluriflori, plures v. numerosi, laxiùs sparsi, singuli bracteâ communi subfoliaceâ subtensi partialibusque tenuibus sphacelatis interstincti. Staminum situs præ immerso germine epigynum comparens: anth. ex brevitate filamentorum subsessiles. Germinis loculamenta in spicato parallelo-disperma, in japonico (ex Richard) hexasperma. Fructus in japonico (ex dicto aut.) bacca cærulea subgloboso-ovoidea apice areolata, 3-loc. seminibus paucis v. interdùm solitariis; in spicato verò (monente D. Brown) semen (sæpè 2-3) nudum baccatum de ovulo mox post factum conceptum auctû præcociori cætera illidente exque germinis vertice erumpente excretum: basi cum exuto germine cohærens.

O. spicatus, scapo foliis subæquali v. longiore, fasciculorum racemo laxiusculo numeroso longo, germinis loculamentis dispermis.

Ophiopogon spicatus. *Nobis in Curtis's magaz.* 1063: *in lineâ penultimâ folii versi.*

Convallaria spicata. *Thunb. jap.* 141. *Willd. sp. pl.* 2. 161.

Liriope spicata. *Loureiro coch.* 200; (monente D. Brown ab autopsiâ edocto exemplaris archetypi in *Herb. Parisiano* asservati.)

Fol. plurima, inæqualia, longiora nunc pedalia, latitudine subbilineari, striata, extima brevia dura vaginas radicales æmulantia. Scapus aphyllus, tereti-angulosus, rigidus, violaceo-virescens, crassitudine, vix pennæ corvinæ. Fasciculi 2-4-flori: pedicelli rarò solitarii parùm longiores flore, stricti erecti, 1-flori, cum flore articulati: bracteæ partiales squamæ breves fuscae oblongæ obtusæ subsquarroso-imbricatæ; communes subherbaceæ, acuminatæ, ex imis fasciculo sublongioribus sursùm decrescentes. Flores diametro subtrilineares dilutiùs violacei, nitidi, inodori, laciniis oblongis obtusis basi pallentibus, 3 interioribus latioribus ovatis. Stam. corollâ $\frac{1}{2}$ breviora: fil. antheris ferè æqualia, filiformia, firma, distant-incurvescentia: anth. luteæ, à dorso juxta basin infixæ, erecto-conniventes, indè demisso polline vibratiles. Germ. suprâ depresso-orbiculatum trigibbum; loculamentis repletè dispermis, ovulis parallelis, imo angulo annexis, adscendentibus, obovato-oblongis. Stylus obsoletè violaceus, staminibus æqualis, filamentis ter crassior v. ultrâ, puncto stigmatoso pallido glanduloso triangulari apiculatus.

A genus proposed some years ago by ourselves in Curtis's Magazine (1863) under the present name, and afterwards (as a comparison of dates will show) by M. Richard by that of *FLUGGEA*, changed by M. Desvaux, at a still later period, into *SLATERIA*. Neither of these botanists appears, however, to have been aware that the present species should have been included in his genus; but has relied upon *japonicus* alone for the character.

The synonym from the "Florá Cochinchinensis" was kindly communicated by Mr. Brown, who has ascertained it from the original sample in the Herbarium of the Museum of Natural History at Paris; where a portion of Loureiro's Botanical Collection had found its way from Lisbon during the pillage of the late wars. The same attentive observer has likewise been enabled to trace the true nature of the fruit in native samples.

In *O. japonicus* the fruit has been described as a blue berry of an ovoid subglobular form, 3-celled, with few or sometimes solitary seeds, and particularized by Richard as having a tabulated remnant at the top. In *spicatus*, the one before us, Mr. Brown has found the fruit to be of the kind he has ascribed to *PELIOSANTHES Teta*, in the twelfth volume of the Linnæan Transactions. "In this monocotyledonous plant," we quote his text, "the germen comes heres with the tube of the perianthium or corolla, and has originally 3 cells, each containing 2 ovula. Soon after the pollen has been shed, from one to three of these ovula rapidly increase in size, by their pressure prevent the development of the others, and rupture the germen, which remains but little enlarged at the base of the fruit, consisting of from one to three berrylike seeds." Now, as it is impossible to separate the two species generically, the general coincidence, both in character and habit, being obviously paramount to any particular difference in the fruit, we must either conclude that there is some mistake in the description of that of *japonicus* and that a berried seed has been taken for a berried capsule, or else that the difference between these two kinds of fruit is of little influence in regard to the modification of the rest of the plant, and possibly not even constant.

Native of Nepal, Cochinchina, China, and Japan. Introduced last year by the Horticultural Society. Flowered in their conservatory at Hammersmith in October. The fruit, in the native samples we have seen, appears (when dry at least) of a dark violet blue.



Fig. 1. *Lilium*. Edwards del. Pub by J. Anderson, 1822. No. 1. 1822.

J. Anderson sculp.

LILIUM philadelphicum, β ; *andinum*.
Louisiana Red-Lily.

HEXANDRIA MONOGYNIA.

Nat. ord. LILIA. *Jussieu gen.* 48.
 LILACEÆ. *Brown MSS.*

- L. philadelphicum*, foliis verticillatis floribus erectis, corolla campanulata :
 petalis unguiculatis. *Lin. sp. pl. ed.* 2. 1. 435.
Lilium philadelphicum. *Hort. Kew.* 1. 431. *ed.* 2. 2. 243. *Willd. sp. pl.*
 2. 90. *Curtis's magaz.* 519. *Redouté liliac.* 104. *Pursh amer. sept.* 1.
 229. *Nuttall gen.* 222. *Bigelow flor. bost.* 82. *Elliot sket.* 1. 387.
Lilium foliis verticillatis brevibus, corollis campanulatis, unguibus petalorum
 angustioribus, floribus erectis. *Mill. ic. t.* 165. *fig.* 1.
Lilium acadiense pumilum flore rubro punctato. *Dodart mem.* 91.
 (β) *andinum*; floribus sæpè 5.
Lilium andinum. *Nuttall in Fraser's catalogue* (A. D. 1813); *et in gen.* 1.
 221.
Lilium umbellatum. *Pursh amer. sept.* 1. 229. (*excl. Parad. Lond.* 47.)
 Folia sparsa, sublineari-oblonga acuta, floralia verticillata: flores 1-5
 terminales (sæpiùs 5) erecti pedunculis glabris: corolla campanulata petalis
 lanceolatis unguiculatis maculatis alternè angustioribus: magnitudine ferè
 LILII philadelphici speciei proximè affinis, saturatè coccinea, infrà maculis
 fuscis vagis laxiùs sparsa, unguibus elongato-angustis, alternis canaliculatis;
 stigmatè furvo. *Nuttall loc. cit.* (ex anglico vers.)

Drawn from a plant in the Nursery of Messrs. Fraser in Sloane Square. It was brought over by one of the partners, and entered in the annual Catalogue of the Nursery by the name of *andinum*, proposed by Mr. Nuttall, who had collected the plant in Louisiana, where it is said to be common in moist situations in valleys and at the sides of rivulets from Fort Mandan to the mountains. We are unable to discover any available distinction between it and the well-known *philadelphicum*. The flowers of the Louisianian plant are perhaps larger, generally more numerous, of a deeper colour, and the leaves rather shorter and broader. We have thought it safer to keep the two under the same specific title, assorting to each its particular synonymy below the head of its variety.

NOTE.

Owing to a mistake originating with Catesby, a species of this genus is given by Messrs. Pursh and Nuttall to America, while in fact it does

not belong to that quarter of the globe. *LILIUM angustifolium flore rubro singulari* of the Natural History of Carolina was described and figured from a plant in Mr. Peter Collinson's garden at Peckham, and being conceived in the recollection of Catesby to be the same with one he had seen in America, was published by him in the above History as such. A sample of that plant from the same garden is also preserved in the Banksian Herbarium. Many years after, it was published by ourselves in Curtis's Magazine (No. 872), under the title of *L. pensylvanicum*, upon this authority; but having subsequently detected the mistake, we corrected it in No. 1210 (over-leaf) of the same work; where we republished the species by the name of *L. dauricum*, having ascertained its Siberian origin from native samples in the Lambertian Herbarium. This emendation however having been overlooked in the works of Messrs. Pursh and Nuttall, as well as in the Hortus Kewensis, it may not be useless to restate the whole correction. The species Catesby mistook it for was probably *LILIUM Catesbæi*, if not *philadelphicum*.

LILIUM dauricum.

Siberian Lily.

Lilium dauricum. *Nobis in Curtis's magaz.* 1210 fol. vers.

Lilium pensylvanicum. *Nobis in Curtis's magaz.* 872. *Pursh amer. sept.* 1. 229. *Nuttall gen.* 221; (*undique malè pro americano habitum.*)

Lilium bulbiferum. γ . *Hort. Kew. ed.* 2. 2. 241. *Georgi beschr. des russ. reichs.* v. 4. ps. 3. p. 898.

Lilium bulbiferum; spontaneum è Dauriâ. *Herb. Pallas. penès D. Lambert.*

Lilium angustifolium flore rubro singulari. *Catesb. carol.* 3. 8. t. 8; (*exemplari hortensi perperàm pro americano habito desumpta.*)

Lilium II. foliis angustioribus (α) flore miniato. *Gmel. sib.* 1. 41.

Polewoja Saron. *Ruthenicè.*

Mr. Nuttall seems to have been puzzled in adopting the plant as American; and suggests the possibility of its being a hybrid produced during culture, because of its occasionally wanting the pistil in our gardens; an effect more probably of luxuriance, as the pistil is usually perfect with us and frequently fertile. The species is, in fact, very close to *bulbiferum*, but we believe it nevertheless to be truly distinct.



Walt. del.

Gift by J. Kidyway 170 Siccardity Jan. 1. 1822.

J. Watts. sc.

LIATRIS pilosa.
Rattlesnake-Plant.

SYNGENESIA POLYGAMIA ÆQUALIS.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. I. Receptaculum nudum. Semen papposum. Flores flosculosi.

EUPATORIÆ. Cassini in journ. de phys. 88 (an 1819). 191.

LIATRIS. Suprà fol. 590.

Div. I. Spicatæ s. racemosæ; bulbosæ.

L. pilosa, caule (sæpiùs) simplici pubescente, foliis linearibus pilosis ciliatis, calycibus racemosis laxiusculis: squamis lineari-oblongis obtusiusculis, pedicellis bracteolatis. *Pursh amer. sept. 2. 508.*

Liatris pilosa. *Willd. sp. pl. 3. 1636. Hort. Kew. ed. 2. 4. 504. Nuttall gen. 2. 131.*

Liatris dubia. *Barton med. bot. 2. 222. t. 49.*

Vernonia pilosa. *Poiret in Lamarck encyc. 8. 503.*

Serratula pilosa. *Hort. Kew. 3. 138.*

Anonymos ciliatus. *Walt. carol. 197.*

(β) *gracilis*; foliis nudiusculis, caule piloso floribus minoribus, pedunculis foliolosis. *Nuttall gen. 2. 131.*

Liatris gracilis. *Pursh amer. sept. 508; (docente D. Nuttall).*

Tuber ovatum. *Caulis subsimplex, spithamæus ad sesquipedalem et ultrâ crassitudine pennæ anatinæ, erectus, laxiùs densiùsve pilosus, striatus, laxè foliosus. Fol. caulina, sparsa, patentia, linearia, acuminata, glanduloso-punctata, pilosa v. nudiuscula nervo medio pallidiore suprâ immerso infrâ bilineato-prominulo; longiora biuncialia, indè decrescentia. Racemus foliosus, multiflorus, longitudine varius, appressiusculus, erectus, simplex, remotiusculus; floribus erectis, 3-plo L. scariosæ minoribus, violaceo-rubentibus, inodoris, axillaribus, solitariis, uno terminali: pedunc. supernè squamato-foliolosi, graciles, pilosi, striati, 1 ad 2 uncias longi v. ultra, supremi folio longiores. Cal. turbinato-cylindricus, infrâ pedunculi foliolis appressis sua propria æmulantibus exceptus, herbaceus, oblongus, glaber, glanduloso-puncticulatus, ordine 3-4-plici imbricatus, foliolis cunctis erectis, lanceolato-oblongis, convexulis, ciliatis, interioribus longioribus subangustioribus margine colorato angustissimo. Flosc. plurimi, æquales, periphæriam versùs recurvati, calycem exsuperantes, elongato-infundibuliformes, angusti, puncticulis atomodeis micantibus; tubus cum fauce ampliori continuus; limbus istis simul sumptis duplo brevior, stellato-patens, glaber, intùs lilacino-rubens, extùs albicans, lac. oblongo-acuminatis. Recept. nudum, punctatum, angustum, convexulum: germ. oblongum, cuneato-attenuatum, sulcato-striatum, hirsutum, pallens, brevius pappo, stipite brevissimo capillaceo suffultum: pappus capillaris, plumosus, plurimus, coloratus, $\frac{1}{3}$ brevior flosculo. Stigmata atque antheræ ut in *L. scariosâ* (suprà fol. 590).*

Native of the United States, where it is said to be known by the names of "Button Snake-Root," "Blue-Blazing-

Star," " Rattlesnake-Plant," &c. &c., and to be found in pine-barrens and sandy fields from New Jersey to Carolina. *LIATRIS gracilis* of Pursh seems a variety of *pilosa* with smoother foliage and smaller flowers.

Drawn in October last at Messrs. Colvill's, in the King's Road. Introduced by Mr. William Young in 1783.

A hardy tuberous-rooted perennial. *Tuber* ovate. *Stem* almost always simple, from nine inches to a foot and a half or more in height, about as thick as a duck's quill, upright, fluted, thinly or thickly haired, loosely leaved. *Stem-leaves*, scattered, spreading, linear, taper-pointed, glandularly dotted, either hairy or nearly smooth, midrib paler and sunk above, slightly prominent in a double line underneath: from about two inches long, gradually growing shorter as they ascend the stem. *Raceme* manyflowered, of various lengths, upright, simple, rather close-pressed; *flowers* upright, widishly apart, smaller than in *scariosa*, violet-red, scentless, axillary, solitary, with an end-one: *peduncles* slender, hairy, fluted, 1-2 inches long, leafily scaled at the top, uppermost longer than the subtended leaf. *Calyx* herbaceous, turbinately cylindrical, surrounded at the lower part by the leaflets of the peduncle, oblong, smooth, glandularly dotted, imbricated in triple or quadruple order; *leaflets* upright and straight, lanceolately oblong, slightly convex, fringed, *inner ones* longer and something narrower, with a coloured but very shallow border. *Florets* many, equal, bending towards the circumference of the flower, overtopping the calyx, long-funnelform, slender, glittering; *tube* continuous with the widened *faux*; *limb* twice shorter than the two together, stellately spreading, smooth, of a lilac-red on the inside, white on the outside; *segments* oblong taper-pointed. *Receptacle* naked, dotted, narrow, slightly convex: *germen* oblong cuneately tapered, fluted, shaggy, pale, shorter than the seedcrown, standing on a very short fine wiry pedicle: *pappus* capillary, feathered, of many pieces, $\frac{1}{3}$ shorter than the floret. *Stigmas* and *anthers* as in *scariosa* (see above fol. 590).



Andropogon furcatus (L.) Nees. — *Andropogon furcatus* (L.) Nees. — *Andropogon furcatus* (L.) Nees.

AMARYLLIS radiata.
Snow-drop-leaved *Amaryllis*.

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. *Jussieu gen.* 54. *Div. II.* Germen inferum.
AMARYLLIDÆ. *Brown prod.* 1. 296. *Sect. I.*
AMARYLLIS. *Suprà vol.* 3. fol. 226.

Div. VI. Corollæ hexapetalo-partitæ, subrotatæ. Folia bifaria. Nobis in
journ. of science and the arts. 2. 362.

A. radiata, pluriflora, floribus semiformibus: foliis lineari-ligulatis glaucis,
corollâ crispâ, duplo genitalibus brevior, laciniis omnibus v. 5 tantùm in
labium superius semicirculatim radians approximatis.

Amaryllis radiata. *L'Héritier sert. angl.* 16. *Hort. Kew.* 1. 421. *ed.* 2. 2.
228. *Willd. sp. pl.* 2. 60. *Andrews's reposit.* 95. Nobis in *journ. of*
science and the arts. 2. 364.

Lycoris radiata. *Herbert append.* 20.

Lilio-Narcissus. V. *Trew fl. imag.* t. 35; (non *Seligm. aves.* t. 35. ut malè
habuimus Willd. et Nos in locc. citt.)

Yuk-lan. *Chinensibus*; ex *Roxburgh MSS.* ubi tab. ined.

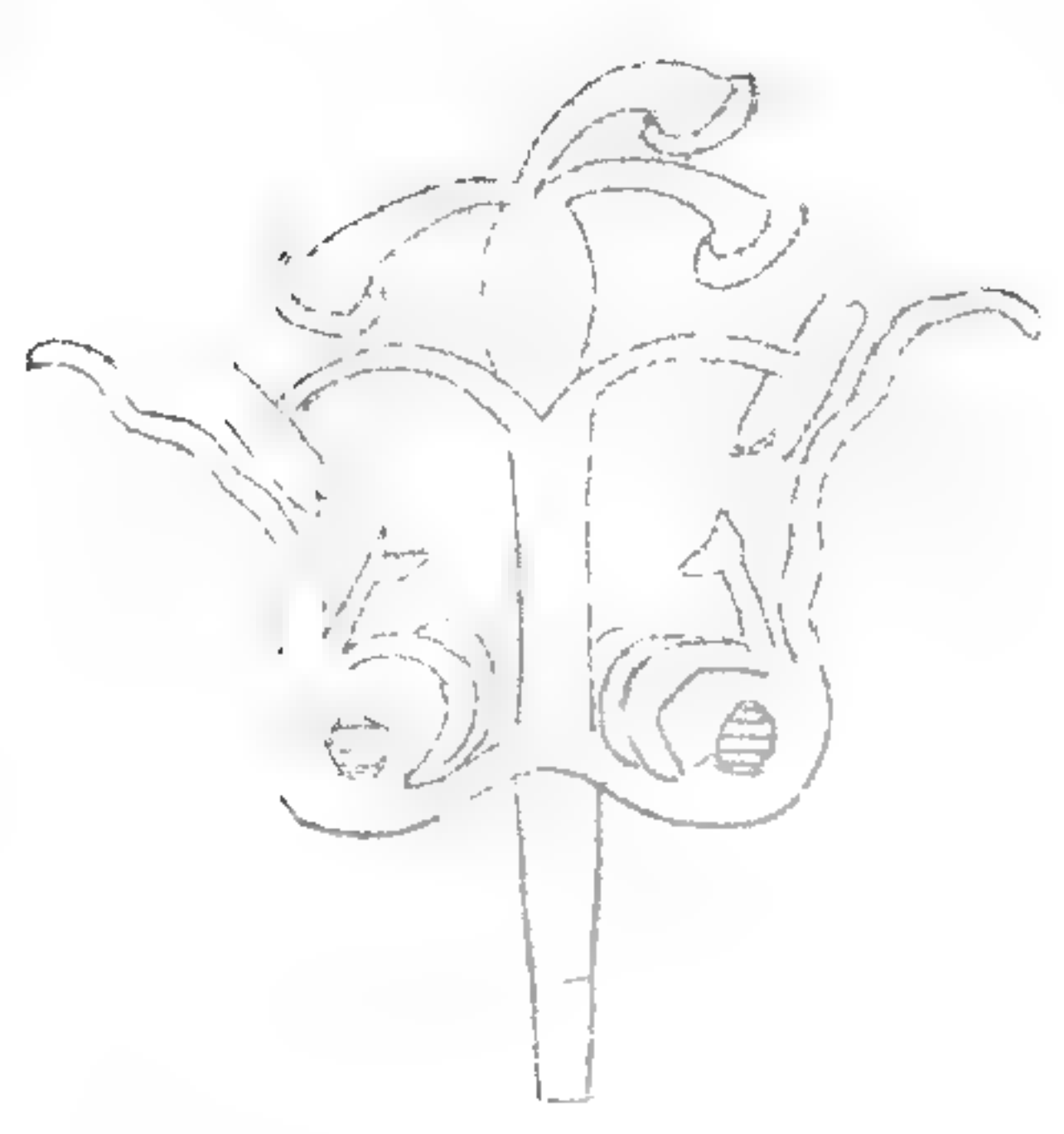
Bulbus ovatus, mole ferè ovi columbini, tunicâ pallidâ fuscâ. Fol. sub-
trina, lineari-ligulata, obtusula, in virorem obscuriorem glaucescentia, cana-
liculo medio lateribus planioribus glauciore, semunciam v. circâ lata. Scapus
spithamæus ad sesquipedalem, compresso-teres, erectus, simul cum foliis vigen-
s. Spatha sphacelata 4-5-flora pedunculis pluriès longior: pedunc. virides,
firmi, tereti-angulosi, corollâ pluriès breviores. Cor. inodora, horizontali-
patens, roseo-micans, diametro ferè triunciali, divaricato-radians, semifor-
mi-irregularis æqualis: tubus virescens, brevissimus, v. subnullus, decurvus,
compresso-cylindræus, germinis subisoperimeter: limbus 6-partitus unilabia-
tus v. inæqualissimè bilabiatus, laciniis distantibus lineari-ligulatis latitu-
dine bilineari v. circa, subæqualibus undulatis canaliculatis mucronatis
supernè recurvis carinâ mediâ dorsi virescente, omnibus aut summum medium
versùs in labium superius convergentibus aut nunc ex istis unâ distantissimâ
sub staminibus pro labio inferiore per se manente. Fil. declinato-assurgentia,
corollâ concolore duplo ferè longiora, prostantèr divergentia, firma, subulato-
elongata, tubi ori inserta: anth. parvulæ, oblongæ, vibratiles, coccineæ,
polline flavo. Stylus filamentis conformis atque concolor, robustior tamen
atque longior (triuncialis v. ultrâ); stigma punctum simplex pruinatum albi-
cans. Germ. vires, trigibbo-globosum, ovulis pluribus (4?) biseriatis globosis
in quoque loculamento.

Although known in our hothouses ever since 1750, it
has been rarely seen in flower; and the present is the first
instance we have ourselves witnessed. When the late
edition of the Hortus Kewensis was published its coun-

try had not been ascertained; but it is now however known, from Dr. Roxburgh's manuscripts, to belong to China; and by a native sample in the Lambertian Herbarium to Japan. It comes very near to *AMARYLLIS undulata* of the Cape of Good Hope.

At Messrs. Colvill's nursery in the King's Road, Chelsea, where the drawing was taken, the plant had been made to flower by being kept during the first part of the summer in the hothouse and then plunged into a common hot-bed. The bulbs are apt to break down into numerous offsets, while the outer coat remains entire, so that they appear like one bulb with numerous leaves; a closer inspection however shows that they consist of several bulbs with 3 leaves to each bulb.

Leaves about 3, bifarious, linearly ligulate, channelled, about $\frac{1}{2}$ an inch wide, of a dark glaucously clouded green, channel greener than the sides, obtuse. *Scape* cotemporary with the leaves, round, slightly compressed from 7 inches to a foot and a half high. *Spathe* sphacelate, 4-5-flowered, several times longer than the peduncles: *peduncles* green, firm, obsoletely angular, several times shorter than the flowers, which have no smell. *Corolla* semiform, facing the horizon, of a glittering rose-red, nearly 3 inches in diameter, divaricately radiant, equal: *tube* green, extremely short, almost none, bent downwards, cylindrical, compressed, nearly of the calibre of the germen: *limb* 6-parted, either of one upper lip or sometimes with a very disproportionate lower one, segments apart from each other, linearly ligulate, about 2 lines broad or thereabout, curled, channelled, mucronate, recurved towards the top, with a green keel along the back; all either converging towards the upper middle one into a semicircularly radiant upper lip, or else with the middle lower one remaining alone below the stamens for an under lip. *Filaments* declinedly assurgent, of the same colour as the corolla, but nearly as long again, pointing forwards and diverging, firm, subulately elongated, inserted at the mouth of the tube: *anthers* small, oblong, balancing, deep red, with yellow pollen. *Style* of the same shape and colour as the filaments, but thicker and longer (3 inches or more in length): *stigma* a simple frosted whitish point. *Germen* green, round and triply protuberant, with several (4?) globular *ovules* in two rows in each cell.



PASSIFLORA Vespertilio.
Night-blowing Passionflower.

MONADELPHIA PENTANDRIA.

Nat. ord. PASSIFLOREÆ. Jussieu in ann. du mus. 6. 102.
PASSIFLORA. Suprà vol. 1. fol. 13; et fol. 574 vol. præsentis.

Div. Foliis bilobis.

P. *Vespertilio*, foliis cuneiformibus bilobis acuminatis divaricatis basi biglandulosis, petiolis eglandulosis, involucreo nullo. Willd. sp. pl. 3. 613.

Passiflora *Vespertilio*. Linn. am. acad. 1. 223. n. 11. t. 10. fig. 11; iterùm 8. 262. n. 119. Ejusd. sp. pl. ed. 2. 2. 1357. Mill. dict. ed. 8. n. 11. Cavan. diss. 10. 437. t. 271. Hort. Kew. ed. 2. 4. 150. Smith in Rees's cyclop. in loco.

Passiflora *discolor*. Link abbild. auserl. gew. kön. bot. gärt. zu berl. 13. t. 5.

Granadilla *bicornis*, flore candido: filamentis intortis. Dill. elth. 164.

Frutex altè scandens, ramis compresso-ancipitibus glabris foliisque obscure virentibus. Fol. latissima, divaricato-biloba, cum formâ ferè arcus tensi in transversum elongata, uncias 2-6ve lata, altitudine bis sexièsve breviora, infrà cordata convexiuscula, suprà subrectilineari-repanda vel concaviuscula, nervosa nervis principibus 3, subtùs lanugine minutâ vix sensibilitèr pubescentia ibidemque punctis ustulato-fuscis glandulam secernentem continentibus (geminis conspicuioribus intra nervos 2 laterales ad marginem baseos positus, cæteris vagis paucis) ocellata: lobi laterales oblongi acuminati obtusi mucronati, medius omnino obliterated mucronulo tantùm superstite vel rudimentum breve rotundatum: petiolus semi-sesquiuncialis, filiformis, suprà obsolete canaliculatus, flexilis: folia juniora subtùs sæpè plùs minùs rubedine tincta: stipulæ subulatæ parvulæ: cirrhi junctim cum flore axillares. Pedunc. solitarii, 1-flori, breviores folio, rubicundi, plurimùm graciliores petiolo, filiformes, elastico-rigentes, ebracteati. Involucr. 0. Flos nocturnus, unciam diametro paulò excedens, extùs virescens, intùs albicans, involuto-emarcescens: cal. urceolato-rotatus, urceolo oblato ventricoso exsulco 3-plo brevioris segmentis oblongo-attenuatis obtusis muticis planis ecarinatis: cor. tenera, alba, limbo calycino conformis sed plurimùm minor. Corona radiata, alba, numerosa, biseriata, radiis exterioribus filiformibus, patentissimis, flexuosis, obtusis, calyci æqualibus v. sublongioribus, interioribus conformibus erectiusculis duplo brevioribus et ultrà rectisque apice glochidiformi: operculum album profundè densèque plicatum, septo brevi carnosissimo parietali nectarii à margine interiori fornicato-incumbens. Nectar. albicans septo simplici. Columna paulò calyce brevior, stipite subrubente tereti glabro longiore germine: germ. ovale, viride, glabrum, opacum: styli pallidi, stigmatè saturatiùs viridi pileato-capitati: fil. ligulata, virentia, stipiti æqualia: anth. oblongæ, pallidæ.

Perhaps the only plant of the species in the country, for though cultivated near a century ago by Dr. Sherard, in

the celebrated garden at Eltham, it had long since disappeared from amongst us, until procured afresh by Messrs. Colvill of the Chelsea Nursery from France. The reintroduction into Europe is due to H. S. H. Prince Maximilian of Neuwied, who had communicated the seeds, brought by himself from the Brazils, to Professor Link. Plants were raised in 1817 at the Berlin Botanic Garden, and published in the work we have quoted by the title of *P. bicolor*, not having been recognised as *P. Vespertilio* of Linnæus.

The species is remarkable for its hours of blowing, which are from about ten o'clock at night to about eight the next morning. The younger leaves have a short dense scarcely perceptible fur on the under surface, where they are also often more or less tinged with crimson; a circumstance which has suggested the name of *discolor*. The original title is derived from the form of the leaf, which, with the two glassy eyelike glands just above the petiole, had suggested to the fancy of Linnæus the likeness of a Bat.

Leaves dark green, extremely broad and shallow, with something of the outline of a bow when strung; studded with several brown irregularly scattered eyelike dots, besides the more remarkable pair on the inside of the base just over the petiole. *Branches* of the same colour as the leaves, smooth, flat, 2-edged. *Peduncles* solitary, 1-flowered, wtery, elastic, much slenderer than the petioles, shorter than the leaf, bracteless. *Flowers* without an involucre, green on the outside, white within, little more than an inch over. *Urceolus* of the *calyx* broad and ventricose, furrowless and even, three times shallower than the limb: *segments* oblong slightly tapered blunt pointless keelless. *Corolla* tender, white: *petals* of the same shape with the segments of the calyx, but considerably smaller. *Crown* white; *rays* numerous in two rows; *outer* filiform, spreading, serpentine, blunt, even with the calyx, if not longer, *inner* upright, twice shorter, straight, terminated by an acutely bent hook: *operculum* (*lid of the nectary*) white, deeply and closely plaited, vaulted and lapping by the inner edge over the short fleshy partition of the one-chambered *nectary*. *Column* rather shorter than the calyx, with a cylindrical reddish smooth *shaft*. *Germen* oval, green, opaque. *Stigmas* deep green. *Anthers* pale.



W. Ward. del.

Pub. by S. R. Rogers, 170. Piccadilly, Jan. 1. 1822.

J. W. & Co. sc.

HELENIUM quadridentatum.

Louisiana Helenium.

SYNGENESIA POLYGAMIA SUPERFLUA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VI. Recept. paleaceum. Semen apice dentatum aut paleaceum. Flores in plurimis radiati, in paucis flosculosi. Recept. HELENII subnudum.

HELENIUM. Involucrum (cal.) simplex, polyphyllum, subæquale. Receptaculum hemisphæricum, medio nudum, margine paleaceum. Flosculi disci tubulosi hermaphroditi: radii feminei ligulati. Achenia (sem.) paleis compluribus membranaceis coronata. Herbae foliis alternis decurrentibus: floribus terminalibus corymbosis radio flavo. Kunth nov. gen. et spec. pl. 4. 200.

H. quadridentatum, caule alato ramosissimo paniculato fastigiate, foliis sessilibus obtusulis superioribus lanceolatis integris, inferioribus pinnatifidis, pedunculis filiformi-elongatis, involucri (calycis) foliolis linearisubulatis, disco brevioribus, flosculis disci 4-dentatis. Don MSS.

Helenium quadridentatum. Labillard. in act. soc. hist. nat. paris. 1. 22. t. 4. Michaux bor. amer. 2. 133. Willd. sp. pl. 3. 2121. Hort. Kew. ed. 2. 5. 85. Pursh amer. sept. 2. 560. Willd. enum. 2. 898. Nuttall gen. 2. 173. Smith in Rees's cyclop. in loco.

Rudbeckia alata. Jacq. coll. 5. 154. ic. rar. 3. t. 593.

Herba lætè virens, supernè obsoletè lanuginosa: radix fibrosa annua. Caules erecti, teretes, bifariam v. trifariam alati, paniculato-ramosi, ramis alternis corymboso-fastigiantibus. Fol. alterna, tenuia, sessilia, alato-decurrentia, plana, enervia, immersè puncticulata, obtusula, superiora elongato-oblonga acuminata integra, inferiora pinnato-incisa. Pedunculi terminales v. axillares, solitarii 1-flori, filiformi-elongati, sulcati, obsoletè villosi. Flores flavicantes, INULÆ dysentericæ subæquales, erecti. Invol. (cal.) simplex polyphyllum foliolis lanceolato-linearibus scabriusculis, subduodenis disco brevioribus reflexis. Radius femineus flavus plurimus ad basin usque divaricato-rotatus contiguus, subtus obsoletè lanuginosus, flosculis (12?) sessilibus (absque tubo) planis oblongis cuneatis 4-fidis sæpiùsve trifidis, lobulis obtusis: discus viridi-lutescens, hermaphr., elevato-conicus, creberrimus, flosculis brevibus clavato-infundibuliformibus; tubus brevissimus æquans pappum; faux multoties longior cylindrica subdiaphana; limbus 4-partitus pube externâ glandulosâ subviscidâ, laciniis ovatis pluriès brevioribus fauce. Stam. inclusa: anth. fulvescentes valvulis minutis (4?) ustulato-fuscis apiculatæ. Germ. parvum, cylindricum cuneato-oblongum hirsutiùs villosum albicans, pappo paleaceo è paleis 5 ovato-lanceolatis brevibus; stigmata exserta, linearia, recurva, crassiuscula, flava; (radii) glabra. Achenia (sem.) parva, obovata, teretia, densè pilosa, pappo paleaceo brevissimo. Recept. elevato-conicum, punctatum, subnudum, periphæriâ solâ paleaceum, paleis linearibus. Don MSS.

Native of Louisiana. Introduced in 1790 by Abbé Pourret. A handsome hardy annual, and as we have ob-

served, far more frequent in the gardens of France, than in our own, in which it flowers about September and October; in France a month or six weeks sooner. Drawn at the Chelsea Botanic Garden.

It comes very near to *HELENIUM mexicanum* of the "Nova genera et Species Plantarum;" insomuch that we should have been inclined to deem it of the same species, but for the different conclusion of M. Kunth has come to. Among other distinctions he mentions the florets of the disk as smooth in *mexicanum*, which is clearly not the case in our plant. The point is however, we suspect, to be determined by future observation.

The florets of the ray are here generally trifid, as in *mexicanum*. In *autumnale* they are frequently 5- and 6-cleft. In fact no available difference can be established on this character, which is extremely variable in the genus. We think however that the curious cuneate form of the florets of the ray might have entered with advantage into the generic character.

The florets of the disk are 4-cleft throughout in this species, not 5-cleft as usual in the order. The whole flower when bruised has a strongly aromatic flavour.

Messrs. Pursh and Persoon have erroneously stated the species to be perennial; and the former is evidently mistaken in speaking of it as growing from three to five feet high. *Don MSS.*

The genus is, we believe, wholly North American.



M. Hort. del.

Tab. by J. Redburny 11

1807

Mittler

CLEMATIS hedysarifolia.

Birman Virgin's-Bower.

POLYANDRIA POLYGYNIA.

Nat. ord. RANUNCULACEÆ. Decand. syst. nat. 1. 127. Div. I. Ranunculaceæ veræ, seu *Antheris extrorsis*. Tribus I. Clematideæ.

CLEMATIS. *Involucrum* 0 aut calyciforme sub flore. *Sepala* (*petala*) 4-8 colorata, æstivatione valvata aut induplicata. *Petala* 0 aut sepalis breviora. *Cariopsides* (*semina*) indefinitæ stipite proprio destitutæ, in caudam sæpiùs barbato-plumosam productæ. *Radices fibrosæ perennes*. *Caules annui aut perennantes, sæpiùs sarmentosi scandentes*. *Fol. exactè opposita, in unicâ specie verticillaria, simplicia, integra lobata ternatim pinnatimve secta aut decomposita, petiolata; petioli interdum persistentes cirrhiformes*. *Pedunculi nunc axillares nunc terminales, alii ramoso-paniculati, alii trifidi triflori, alii terni uniflori, alii solitarii 1-flori; bracteolæ secus pedicellos nunc nullæ, nunc 2 oppositæ liberæ, nunc coalitæ in involucrum bilobum calyciforme*. *Flores s. potiùs calyces sæpiùs albidii, nunc flavescetes, nunc cærulescentes purpurascetesve*. Decand. l. c. 131.

Sect. I. *Flammula*. *Invol. sub flore* 0. *Sepala æstivatione sæpiùs valvata; Petala* 0. *Pericarpiorum caudæ longæ barbato-plumosæ; Embryonis in semine cotyledones distantes*. Subsect. II. *Floribus paniculatis, foliis ternatim biternatimve sectis*. Dec. l. c. 133—142.

C. *hedysarifolia*, floribus paniculatis, foliis ternatim sectis, segmentis ovato-lanceolatis acuminatis subintegris glabris ima basi 5-nerviis. Decand. loc. cit. 148.

Perennis, sempervirens, scandens: rami teretiusculi pilis mollissimis rariusculis subpubescentes. *Fol. decussato-distantia, brachiato-patentia, ternata; pet. comm. purpurascens pilosiusculus, sesquiuncialis v. longior, aliquandò (in foliis floralibus?) cirrhoso-prehensilis; folia coriacea, viridi-cinerascentia, petiolata, ovato-oblongata, integra, acuminata, 3-nervia*. *Paniculæ terminales axillaresque, pendulæ, brachiatæ, elongato-thyrsiformes multifloræ, ramulis strictis decussato-oppositis distantibusque: pedicelli graciles, villosi, infra medium opposito-bigemiferi*. *Flores candicantes, extus villosi, diametro $\frac{2}{3}$ uncia v. circa*. *Pet. 4, ovali-oblonga, æqualia, obtusa, cruciato-rotata, caduca*. *Stam. ochroleuca, erecta, corollâ $\frac{1}{4}$ circa breviora, plurima, glabra; filamentis compresso-teretibus, antheris concoloribus lineari-oblongis erectis apiculo brevi obtuso, receptaculo vel rachide planiusculo*. *Pist. staminibus longiora, subvirentia; germ. pilis longis erectis capillata; styli 3-plo breviores, nudi, recurvo-patentes*.

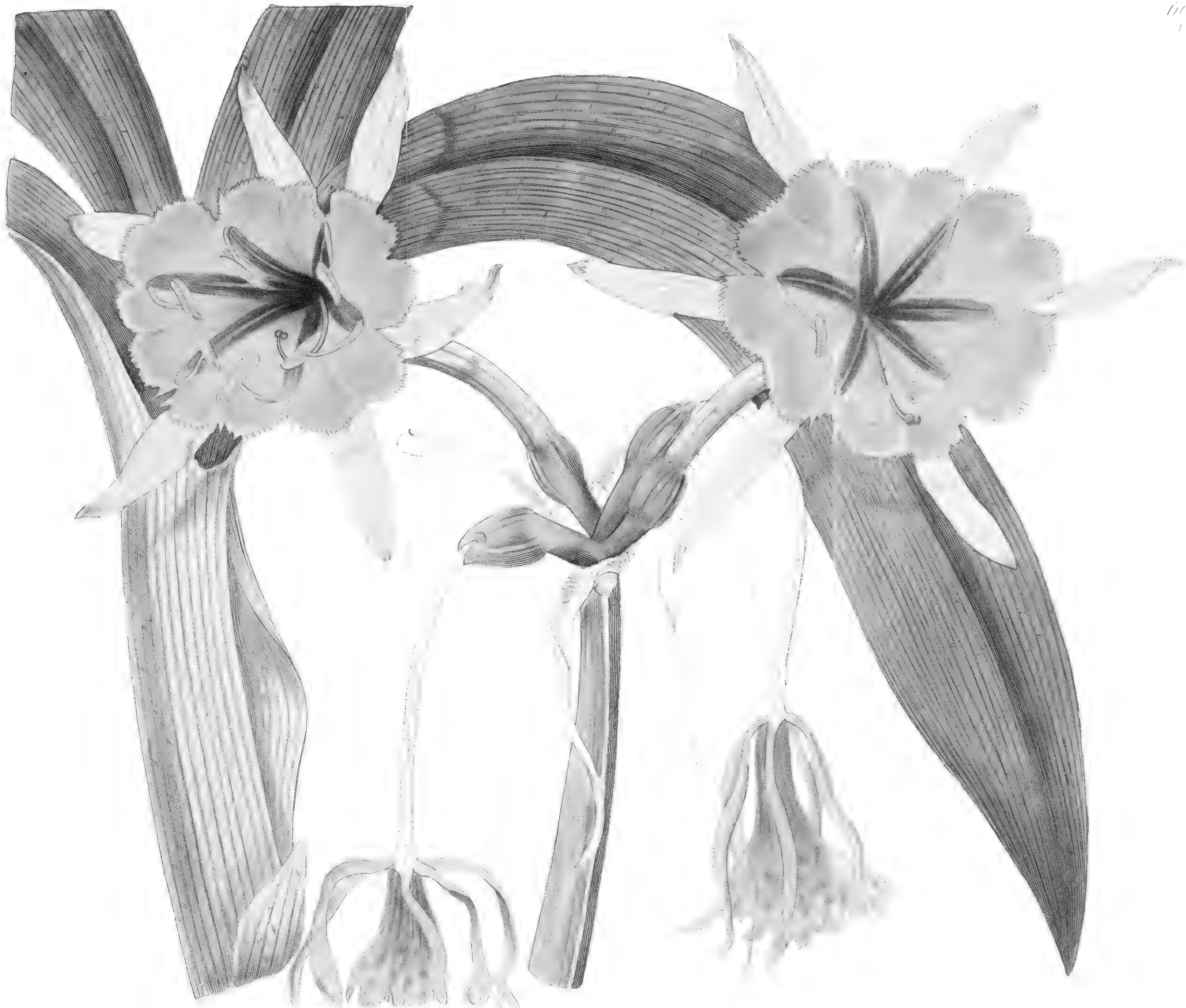
It is from a sample gathered by Mr. Hore at Rangoon in the Birman empire, and deposited in the Banksian Herbarium, that this species has been published by M. De Candolle under the above title. Of the immediate source from whence the plant has found its way here we are not aware,

but should think from the botanic garden of Calcutta, now become the depository from which the plants of the most distant and sequestered quarters of India are daily transmitted to this country.

The drawing was made at the Nursery of Messrs. Colvill, in the King's Road, Chelsea; where the plant is cultivated in the hothouse and flowers about October. We do not believe that it is yet in any other collection.

The genus CLEMATIS has been remodelled by M. De Candolle in four sections or sub-genera, under the titles *Flammula*, *Viticella*, *Cheiroopsis*, and *Athragene*; comprising together 83 ascertained species, and 3 doubtful ones; by some one or other of which its type is disseminated over nearly every part of the globe.

Hedysarifolium is a suffrutescent evergreen climber: *branches* roundish, thinly sprinkled with very fine soft hairs. *Leaves* decussately opposite, with wide intervals between the pairs, outspread, ternate: *common petiole* purplish, slightly hairy, an inch and a half long or more, sometimes (especially in the leaves next the flowers) tendril-like and prehensile; *leaflets* coriaceous, cinereously green, petioled, ovately oblong, entire, taper-pointed, 3-nerved. *Panicles* terminal and axillary, pendulous, elongatedly thyrsiform, many-flowered, *branchlets* stiff, decussately opposite and wide apart: *pedicles* slender villous, bearing two small opposite abortive buds below their middle. *Flowers* white, furred on the outside, about $\frac{3}{4}$ of an inch in diameter. *Petals* 4, ovally oblong, equal, obtuse, cruciately rotate, caducous. *Stamens* cream-coloured, upright, about $\frac{1}{4}$ shorter than the petals, many, smooth: *filaments* compressedly filiform: *anthers* of the same colour, linearly oblong, upright with a short obtuse point and a flattish receptacle. *Pistils* longer than the stamens, greenish; *germens* with long upright hair; *styles* thrice shorter than these, bare, recurved and spreading.



48. *Clematis* *leb.*

Gift by J. H. Gray May 17/60. Herbar. No. 2500 / 1827.

11.



PANCRATIUM Amancaes.

Golden Pancratium.

HEXANDRIA MONOGYNIA.

Nat. ord. NARCISSI. *Jussieu gen.* 54. *Div. II.* Germen inferum.
 AMARYLLIDÆ. *Brown prod.* 1. 206. *Sect. I.*
 PANCRATIUM. *Suprà vol.* 3. *fol.* 221.

Div. I. Floribus petiolatis v. sessilibus: limbo radiato: coronâ ad dentium intervalla staminiferâ. *Nob. in Journ. of scienc. and the arts.* 3. 317.
P. Amancaes, pluriflorum; foliis infernè fistuloso-vaginantibus laminâ lanceolato-elongatâ, corollæ tubo erecto limbum nutantem stellatum æquante, coronâ inæqualitèr 12-fidâ, denticulatâ, subbreuiore laciniis: staminibus infracto-conniventibus. *Nobis in Journ. of science and the arts.* 3. 323.
Pancratium Amancaes. Nobis in Curtis's magaz. 1224. *Hort. Kew. ed.* 2. 218.

Ismene Amancaes. Herbert append. 46.

Narcissus Amancaes. Ruiz et Pavon fl. peruv. 3. 53. t. 283. *fig. a.*

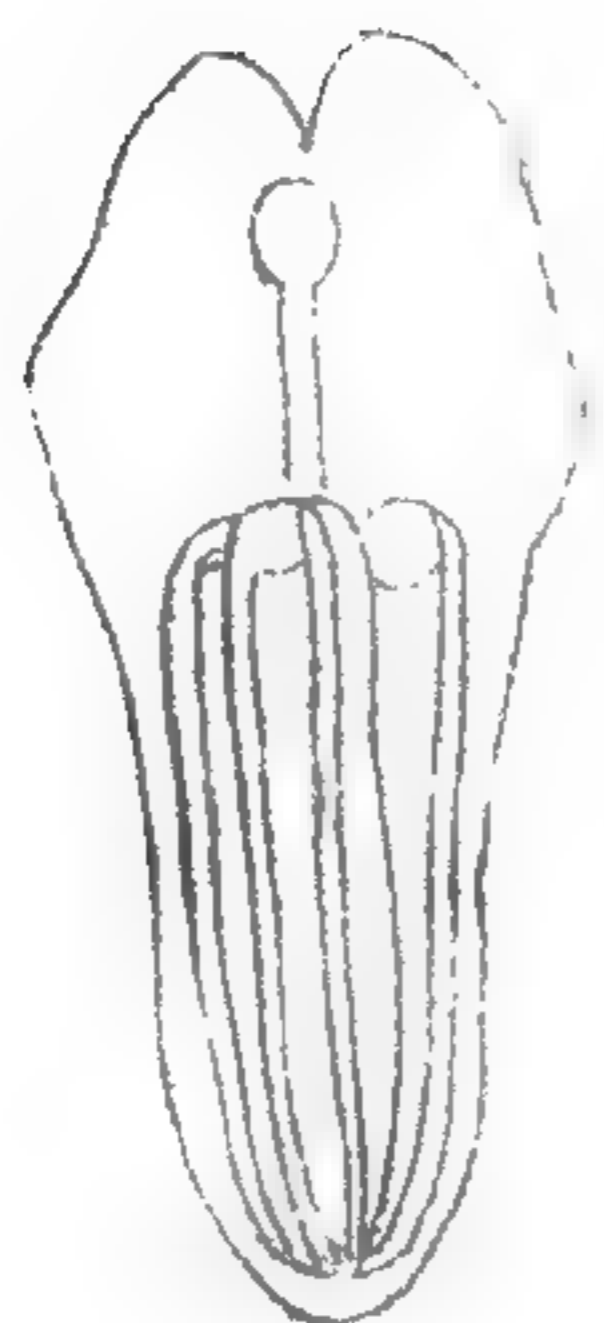
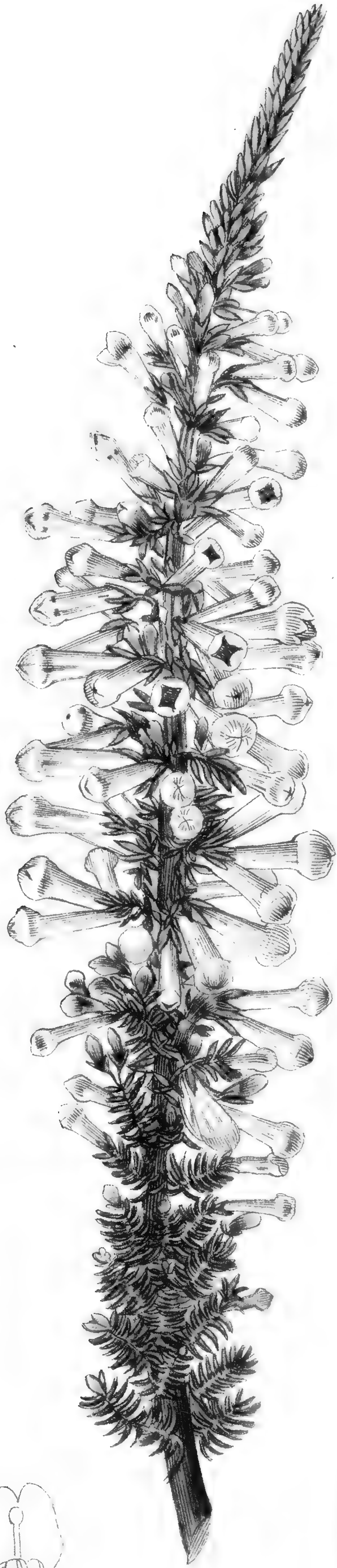
Bulbus ovatus. Fol. 3-plura, bifaria, bipedalia magisvè latitudine subbiunciali, canaliculata, infernè fistuloso-vaginantia vaginâ longitudinalitèr dimidiato-membraneâ. Scapus bi-tripedalis, compressus, anceps. Spatha arescens, ovato-cuspidata. Germ. viride, ovato-trigonum. Flores 3-6, aurei, odoratissimi, subsesunciales, sessiles vel nunc brevè pedunculati. Tubus germinis pluriès brevioris continuum, virens, carnosus, crassus, triqueter, supernè curvatus; limbus nutans, sexpartitus, stellatus, tubo æqualis, laciniis lineari-lanceolatis cum acumine longè attenuato, distantibus. Corona cum limbo concolor parùmque brevior, oblato-campanulata, crenis 12 alternè angustioribus (latioribus 6 staminiferis) incisa, maculâ viridi radiiformi infra staminis cujusque pedem picta. Fil. aurea, inclusa, obesiùs subulata, coronæ crenis sublongiora, 3 summa infracto-declinata, 3 ima subassurgentia: anth. subsagittatæ, obliquè incumbentes. Stylus albicans, declinatus, triquetro-filiformis, filamentis obesior: stig. 3, brevia. Caps. bulbisperma. Nob. in Journ. of science and the arts. 3. 323.

Imported from the Brazils by Messrs. Middlemist and Wood in 1808. Native of Peru, where it is said to be found in abundance on the hills called Amancaes or Hamanchaes, in the vicinity of Lima. The blossom, which is beautiful and delightfully fragrant, is said to be used by the South American females as an ornament for their hair, along with the flowers of *BEGONIA tuberosa*.

Drawn from a plant in Mr. Griffin's hothouse at South Lambeth; where the species is cultivated with great success, and produces flowers and seeds every year.

A supernumerary plate has been added to our fasciculus, to represent the appearance of the ripe fruit.

Bulb ovate: *leaves* 3 or more, upwards of 2 feet high, bifarious, fistularly sheathing at the lower part, the half of the sheath on the side opposite to the blade being membranaceous; blade lanceolately elongated channelled, about 2 inches broad. *Scape* 2-3 feet high, compressed, two-edged. *Spathe* sphacelately membranous, ovately cuspidate. *Flowers* 3-6, deep yellow, about 6 inches long, sessile or sometimes shortly peduncled: *tube* upright, green, thick, fleshy, 3-cornered, continuous with a several times shorter germen, equal to the limb, curved at the top: *limb* nodding, sixparted, stellate; segments linearly lanceolate, taper-pointed, wide apart: *crown* of the same colour as the limb and but little shorter, oblately campanulate, denticulate, 12-cleft, the clefts alternately narrower, the 6 broadest bearing the stamens, marked within by a green longitudinal streak below the foot of every stamen. *Filaments* robust, roundedly subulate, short, rather higher than the clefts in which they stand, convergent below the rim of the crown: *anthers* incumbent, slanting. *Germen* green, ovately 3-cornered: *style* filiform, 3-cornered, whitish, thicker than the filaments: *stigmas* 3, very short. *Capsule* bulbispermous.



ERICA colorans.
Blush-flowered Heath.

OCTANDRIA MONOGYNIA.

Nat. ord. ERICÆ (nuperiùs ERICÆÆ). Jussieu gen. 150. Div. I.
Germen superum.

ERICA. Suprà vol. 1. fol. 6.

Div. II. Longifloræ. Corollæ cylindricæ vel clavatæ, semunciâ longiores.
Subdiv. A. Antheræ aristatæ (appendicibus apicis filamenti binis, linearibus vel subulatis, margine vel integro vel serrulato). Dryander in Hort. Kew. ed. 2. 2. 368.

E. colorans, foliis ciliatis, floribus axillaribus approximatis subsessilibus, corollis clavatis, antheris subexsertis subaristatis. Link abbild. aus. gew. bot. gart. zu berl. 1. 37. t. 15.

Erica colorans. Loddiges's bot. cab. 224. Link entm. hort. berol. 1. 360.

Caulis erectus ramosus 2 pedes et ultrâ altus. Ramuli pubescentes. Folia sena, quatuor lineas longa, subtùs carinata, ciliata. Flores in ramulis brevibus approximatis terminales, undè habitus spicatus. Pedicelli brevissimi. Bracteæ flori approximate. Calyx laciniis ovatis acutis subtilimè ciliatis brevibus albentibus (purpurascens) versùs apicem nervo viridi. Corolla octo lineas longa clavata alba demum rùbra. Antheræ cum stylo subincluse, aristis brevissimis. Link l. c.

This pretty shrub, though long ago introduced by Mr. Niven from the Cape of Good Hope, is not to be found in the last edition of the Hortus Kewensis. According to Mr. Sweet it comes the nearest to *perspicua* of any of the genus. The specific name, such as it is, is intended to refer to the transition in the colour of the corolla from a delicate transparent white to an opaque rosy red, the circumstance which constitutes the singularity and one of the beauties of the species. It grows from about two to three feet high, and is loaded with blossom round the middle of the branches, from the latter part of the autumn far into the winter.

It is becoming universal in our greenhouses, and deservedly so, on account of its easy culture, and abundant elegant blossom.

Drawn at the Nursery of Messrs. Colvill, in the King's Road, Chelsea.



Phlox pilularis (L.) Nutt. *Phlox pilularis* (L.) Nutt. *Phlox pilularis* (L.) Nutt. *Phlox pilularis* (L.) Nutt. *Phlox pilularis* (L.) Nutt.

NEOTTIA australis; β . chinensis.
Chinese Neottia or Ladies' Traces.

GYNANDRIA MONANDRIA.

Nat. ord. ORCHIDÆ. Jussieu gen. 64. Brown prod. 1. 309. Div. II. Anthera stigmati parallela persistens. Massæ pollinis v. farinaceæ v. è corpusculis angulatis; apicibus stigmati affixæ. Brown in Hort. Kew. ed. 2. 5. 197.

NEOTTIA. Cor. ringens: petalis exterioribus anticis labello imberbi suppositis; interioribus conniventibus. Columna aptera. Pollen farinaceum. Brown in Hort. Kew. ed. 2. 5. 198.

N. australis, labello indiviso oblongo crispato: basi bilingulatâ, columnæ lobulis lateralibus stigmatè longioribus, spicâ tortili, foliis radicalibus lanceolatis, bulbis oblongis. Brown prod. 1. 319.

(β) *SPIRANTHES pudica: foliis lineari-lanceolatis, labello subsessili apicem versùs crenulato, callis subrotundis; perianthii laciniis ovario rachique glaberrimis. Lindley collect. 30.*

Folia erecta, lineari-lanceolata, acuta, plana, enervia. Scapus glaberrimus, teres, subflexuosus, bracteis vaginantibus acuminatis vestitus. Flores parvi, albi, erubescens, in spicâ tortili glaberrimâ horizontalitè dispositi. Laciniæ glaberrimæ, ovato-lanceolatæ, obtusæ, cum labello parallelæ. Labello breviter pedicellatum, oblongum, apice dilatatum, pubescens, columnæ marginibus oppositis amplectens; basi callis 2 villosis globosis munitum. Columna porrecta, clavata, anticè gynizum (stigma, v. si mavis areola secernens stigmati) hemisphæricum viridissimum glabrum ferens, apice in linguam lanceolatam obtusiusculam dorso uniglandulosam productum. Anthera postica erecta bilocularis, massas pollinis 4 farinaceas per paria coherentes glandulæ gynizi adhærentes promens. Id. loc. cit.

Drawn in Mr. Griffin's conservatory at Lambeth. Introduced by the Horticultural Society from China. We had no opportunity of inspecting the plant; but comparing our figure and the description we have quoted above with the character given by Mr. Brown of *NEOTTIA australis*, a native of India as well as New Holland, we can as yet see no sufficient ground for determining a difference in their species. At all events no distinction has been pointed out, nor the two compared by any author; and until that has been done they are evidently too near akin to be idly disposed of by different names.

The Chinese plant is very like the "Ladies' Traces" (*NETOTIA spiralis*) of our own country. Whether the *ARISTOTELEA spiralis* of Loureiro belongs here or not, can scarcely be satisfactorily decided from the description given by that author. We should think it cannot be far off from the present species.



1844

22 2

CUSCUTA chilensis.

Chili Dodder.

TETRANDRIA (v. potius PENTANDRIA) MONOGYNIA.

Nat. ord. CONVULVULI. *Jussieu gen.* 132. Div. *III.* Genera Convulvulis affinia.CONVOLVULACEÆ. *Brown prod.* 1. 491. Sect. *III.* Embryo acotyledoneus.

CUSCUTA. Cal. 5-rarò 4-fidus. Cor. globoso-urceolata, limbo 5-fido, marcescens. Germ. 2-loc., loculis dispermis. Caps. bilocularis, circumscissa. *Herbæ aphyllæ, volubiles, parasiticæ. Flores aggregati, subcapitati v. spicati, unibracteati. Squamæ 5, epipetalæ, infra filamenta, iisdemque oppositæ, rarò deficientes.* *Brown prod.* 1. 491.

OBS. E speciebus 10 examini subjectis novem constanter decimam sæpè floribus 5-fidis observavi: unica monogyna est, digynarum duæ tantùm stigmatibus acutis, unica inedita absque squamis epipetalis quæ in *C. europæâ* et *monogynâ* certè extant. *Brown l. c.*

C. chilensis, pentandra, digyna, floribus 5-fidis; calyce ter brevior corollâ, segmentis obliatis rotundatis; corollâ imò infra medium fimbriato-squamata lævibus ovatis, tubo ter brevioribus, recurvis; antheris sessilibus; stylo altero brevior; stigmatibus pileato-capitatis.

Filum herbaceum ochroleucum aphyllum volubile radicans semperflorens. Flores paniculato-congesti ochroleuci odori pedunculis pedicellisque succulentis obesis brevissimis nitidis bracteatis: bracteæ squamaceæ, appressæ, calycis concolores, obovatae v. ovato-rotundæ. Cal. corollâ crassior triploque brevior, oblato-cupulatus, pedicelli continuus, persistens, 5-partitus segmentis rotundatis, corollæ applicitis. Cor. alba, apice sæpius erubescens, oblonga, ovato-cylindrica, marcescens, decidua, 5-fida laciniis tubo triplo v. quadruplo brevioribus recurvis ovatis æqualibus; ad basin 5-fissilis: squamæ 5 membranaceæ fornicato-conniventes, corollæ concolores, infra antheras insertæ, limbi laciniis alternantes, ovatae, fimbriatæ lacinulis denticulato-micantibus. Anth. inclusæ, ore tubi sessiles, introrsæ, oblongæ, biloculares, utroque latere dehiscentes: pollen flavum, granulosum. Pist. corollæ tubo subæquale: germ. subglobosum, nitidum, supernè violaceo-pallens, disco patelliformi aurantiaco-splendente placentifero circumscisso-insidens, biloculare septo incompleto, loculamentis collateralibus dispermis: ovula imò angulo loculamentorum inserta, erecta, globosa, alba, opaca: styli 2, paralleli, contigui, erecti, filiformi-subulati, obesusculi, albidii, alter altero longior; stig. pileato-capitata, violaceo-fusca, subanguloso-rugata, à cavitate pilei infixæ.

It is not without hesitation that we separate this plant from *CUSCUTA odorata* of the Flora Peruviana; yet if the description and figure in that work are to be relied on at all, it would be hardly justifiable to unite the two. The calyx in the plant before us is much shorter in proportion to the corolla than in *odorata*, with broader shallower and rounder seg-

ments, the limb of the corolla is also much shorter in proportion to the tube, with blunter-ended segments; but a far more material point is, that the stamens in *odorata* are described and figured with filaments, while in *chilensis* the anthers are sessile; nor is any notice taken in either figure or description of *odorata* of the different lengths of the two styles so remarkable in *chilensis*. Both are natives of no very distant parts of the same continent.

We are informed by the very intelligent superintendent of the Horticultural Society's Garden, Mr. Monro, that the plant has been lately introduced from South America. The annexed figure, which was drawn in the above garden, represents it clinging to the Red Malabar Nightshade (*BASELLA rubra*) which had been selected in the hothouse for the foster-plant. The flowers seem larger in proportion to the greater succulence of the plant on which their parent grows.

In the Banksian Herbarium we found an unnamed sample of the species collected by Mr. Menzies at Valparaiso, in Chili. The genus consists wholly of parasites, or, as they were formerly termed, superplants. The English species, which are two, are called Dodder. *Dotter* is one of the German names for them, though it belongs likewise to other very different vegetables. The Spanish Creoles of South America call them *Cabellos de Angel* (*Angel's hair*).

Doddered, as an epithet to trees, has probably been used metonymically, being intended for a tree covered with any of the smaller kinds of superplants, such as Liverworts, &c. &c. Shakespeare applies the term to the Oak; but Dodders attend only upon herbaceous plants, and the smaller shrubs, and are never found upon trees. We suspect that Dodder was formerly a general appellation for all the lesser vegetable parasites.

The seed should be sown near the intended support. Roots are soon sent forth, and the seedling is sustained by the soil until it has settled itself, when with the lower part of the stem, it withers away; and thus flowering, seeding, and withering at the bottom in succession, while it grows on at the top, it overruns and often either starves or stifles in the end the vegetable on which it has fed.



SPHENOGYNE pilifera.
Hair-tipped Sphenogyne.

SYNGENESIA POLYGAMIA FRUSTRANEA.

Nat. ord. COMPOSITÆ. Adanson fam. 2. 103.

CORYMBIFERÆ. Jussieu gen. 177. Div. VI.

SPHENOGYNE. Recept. paleis distinctis. Pappus paleaceus, simplex. Stigmata apicè dilatato subtruncato. Cal. imbricatus: squamis intimis (omnibusve) apicè dilatato scarioso. Brown in Hort. Kew. ed. 2. 5. 142. *Herbæ vel sæpiùs frutices Australi-africana.*

S. pilifera, fruticosa, pilosiuscula, erecta, ramosa, foliis frequentibus carnosis linearibus pinnatifidis bipinnatifidisve, summis bi-trifidis v. indivisis: pappo flosculis disci pluriès brevioribus: paleis receptaculi inclusis truncatis flosculos semiamplectentibus.

Arctotis pilifera. Berg. cap. 356. Willd. sp. pl. 3. 2360.

Arctotis crithmoides. Jacq. hort. schænb. 2. 15. t. 155; (non aliorum, quæ est eadem cum SPHENOGYNE crithmifoliâ. Brown in Hort. Kew. ed. 2. 5. 142, ARCTOTIDE fœniculaceâ. Jacq. hort. schænb. 2. 15. t. 156, atque ARCTOTIDE paleaceâ. Willd. sp. pl. 3. 2359.)

Fruticulus alternè ramosus; rami adscendentes, virentes, teretes, villosi, approximato-foliosi, lineati. Fol. sparsa, numerosa, carnosula, pilosa, immerso-puncticulata, lineari-pinnatifida v. rariùs bipinnatifida (superiora 2-3-fida vel integra), semuncialia v. circà, lobis alternis v. oppositis, nunc foliorum lyratorum ad instar infernè versus gradatim brevioribus, setulâ brevi subtili apiculatis, rachide utrinque sulcatâ. Pedunculi terminales, solitarii, 1-flori, elongato-filiformes (subunciales?), erecti, pilosiusculi, lineati, aphylli v. foliolis paucis subulatis appressis bracteati. Flores flavi, erecti, diametro vix unciali. Cal. cupulatus, bis brevior radio v. ultrâ, viridi et fusco subtessellato-varius, glaber, subseriato-imbricatus; foliola erecta, introrsum longiora, margine scariosa, et pone marginem lineâ fuscâ circumnotata: intima ovato-oblonga, laminâ scariosâ pallidâ erectâ latè ovatâ convexâ cum maculâ fuscâ in disco appendiculata; media ovato-lanceolata; extima subulato-attenuata. Radius plurimus, neuter, stellatus, subtus rubicundus, revolutio-emarcescens; flosculorum lamina lineari-ligulata plana obtusa subintegra, subtus et summo tubo pube minutâ glandulosâ diaphanâ laxiùs aspersa; tubus rectus gracilis subvirescens: Discus numerosus flavus, hermaphr., convexiusculus, radio 3-4plo brevior; flosc. obversè cylindræci, glabri; tubus fauce continuâ parùm ampliata pentagonâ longior; limbus luteus laciniis fauce pluriès brevioribus apicè incrassato acuto: anth. flavæ valvulis 5 minutis ad apicem, basi integerrimæ; fil. elastico-extensilia; pollen flavum granulosum: stig. flava, apicè subcristato-dilatata pubentia, cæterum glabra: germ. lanâ bascos obvallatum, tubo flosculi brevius, lineari-oblongum, cylindricum; paleæ 5 pappi tenues ovato-rotundæ glabræ germine duplo breviores convolutio-imbricatæ. Recept. planiusculum, paleaceum; paleæ diaphano-albicantes, oblongæ, disco $\frac{1}{4}$ v. circà breviores, flosculos semiamplectentes, eroso-truncatæ.

The subject of our article evidently belongs to the *ARCTOTIS crithmoides* of Jacquin, but not to Bergius's species

with the same name, as was supposed by Jacquin and Willdenow. *ARCTOTIS crithmoides* of Bergius is *SPHENOGYNE crithmifolia* of Mr. Brown in the Hortus Kewensis, and the same with *ARCTOTIS paleacea* of Linnæus as well as *ARCTOTIS fœniculacea* of Jacquin. It is this inadvertence in Willdenow that has occasioned the repetition of *paleacea* and *pilifera*, in his Species Plantarum, under the titles of *crithmoides* and *fœniculacea*.

Pilifera in general appearance comes so near to *ARCTOTIS paradoxa* (*URSINIA paradoxa* of Gærtner) that the two are not easily distinguishable without an attentive inspection of the flower. In *paradoxa* the pappus is much longer than the germen, and nearly as long as the florets, and the paleæ of the receptacle are higher than the disk, the florets of which they envelop all the way round; in *pilifera* the pappus is shorter than the germen and several times shorter than the floret, and the paleæ of the receptacle lower than the disk, the florets of which they envelop only half way round; the anthers are black in the first, yellow in the second; the segments of the florets of the disk have a dark-coloured callus at their back in *paradoxa*, but not in *pilifera*.

Is it likely that the two should be the counterparts of a dioicous species?

We suspect the inner series of the double pappus attributed by Gærtner to his *URSINIA paradoxa* to be a mere remnant of the floret itself, and that the plant is a very good *SPHENOGYNE*. Neither Linnæus nor Solander has noticed this second pappus, though the latter has described very minutely this member of the seed in a manuscript note concerning *paradoxa* in the Banksian Library.

The drawing was taken in the greenhouse of the nursery belonging to Messrs. Colvill in the King's Road, where the plant had been raised from seed from the Cape of Good Hope, and was in flower during last December. We are not aware that it has been introduced into this country before. It is a branching upright thickly-leaved bush about two feet high. The ray of the corolla rolls itself close up backwards in the evening, and spreads again in the morning, for several days in succession. The flower when bruised smells like Chamomile.

SPHENOGYNE is a wholly South African group, partly herbaceous, but chiefly shrubby.



ANTENNARIA contorta. Mas.

Barren-flowered twisted-leaved Everlasting.

SYNGENESIA POLYGAMIA NECESSARIA (monente D. Brown).

Nat. ord. COMPOSITE. Adanson fam. 2. 108.

CORYMBIFERÆ. Jussieu gen. 177. Div. I. Receptaculum nudum. Semen papposum. Flores flosculosi.

INULÆ. Cassini. Tribus. Inulæ-Gnaphaliæ.

ANTENNARIA. Involucr. imbricatum, scariosum, coloratum. Recept. epaleatum, scrobiculatum. Flosculi dioici, MASCULI: antheris basi bisetis: stigmatibus truncatis: Pappo vel penicillato v. apice incrassato. FEMINEI filiformes, limbo parvo: staminum rudimentis nullis: Pappo capillari. Herbarum perennes, ~~terrestres~~, incanae. Folia plana, adulta sæpe super glabrescunt: radicalia in florisque latiora. Inflorescentia corymbosa raro solitaria. Involucro turbinato vel quandoque hemisphærico squamæ e basi calycinâ supernè coloratæ (albæ v. purpurascens). Corollulæ flavæ. Antheræ semiexsertæ. Pappus marium niveus, opacus. Hæc GNAPHALIUM dioicum Linn., alpinum L., carpaticum Wahlenberg, plantaginifolium L. et margaritaceum Linn. Brown in trans. lin. soc. 11. 122.

A. contorta tomentosa; caule erecto, ramoso, foliis linearibus mucronulatis decurvis margine deflexis, senioribus obliquatis (contortis) supra nudiusculis; corymbis paucifloris simplicibus vel proliero compositis, foliorum calycinorum laminis oblongis obtusis. Don MSS.

Gnaphalium contortum. Buchanan MSS.

Herba perennis? sesqui-bipedalis, basi lignescens: rami sparsi simplices teretes albo-lanati floribus tenuis foliosi. Fol. sparsa, approximata, crebra, sessilia, linearia, decurvo-reflexa, convexa lateribus deflexis, mucronulata, basi latiora, subtus albo-lanata, rachide supra depressâ; seniores ~~respu~~quincialia v. circa, obliqua (contorta), supra nudiuscula cinereo-virentia, rachide subtus prominente. Corymbi terminales capitato-pauciflori vel proliero-compositi; pedicellis brevissimis lanatis squamaceo-braeteatis. Flores flosculosi, masculi, albo-cinereoque varii, magnitudine fermè Pisi mediocri. Involucr. (cal.) cupulatum, scarioso-candicans, squarrosum, basi lanatum, disco subaltius; foliola sub4serialia, plurima, glabra, elongato-spathulata, medio reflexa, infernè erecta laxius imbricata, supernè patentissima, ungue cuneato nitido maculâ in medio lineari-lanceolata viridi notato, supra fusciscente, laminâ sublatiore ovali-oblongâ obtusè acuminatâ opacè candicante patentissimâ. Radius 0. DISCUS plurimus, convexiusculus, viridi-cinereus, pubescens: flosc. parvuli, cylindrici, glabri, singuli (monente D. Brown) insidentes disco (corpusculo carnosio) epigyno germine majore; limbus virescens, profundè divisus, campanulatus, laciniis acuminatis: anth. subexsertæ, basi villosa-setosa, valvulis 5 subulatis erectis apiculatæ; pollen vitellino-flavens; fil. elastica: stylus supernè virescens; stig. virentia, brevis, truncata, apice pubentia: germ. parvum, abortivum; pappus albus capillari-clavatus, flosculis longior, supernè denticulatus. Recept. parvum, nudum. Planta feminea nobis non nota. Don MSS.

In the article *ASTELMA eximium* (fol. 532 of the present volume) we have already said that ANTENNARIA was originally separated from GNAPHALIUM by Gærtner, and subsequently divided into METALASIA, LEONTOPODIUM, and ANTENNARIA by Mr. Brown. As it now stands it consists wholly of dioicous species, the staminiferous counterparts of which have the radii of their pappus of a shape somewhat resembling that of the Antennæ or Feelers of an insect; and hence has arisen the generic name.

We received from Mr. Herbert the sample for the drawing. The plant was raised at Spofforth, and has been, we believe, now first introduced into this country. The species was originally observed by Dr. Hamilton (then Buchanan) near the town of Narainhetty in Nepal, and samples collected in the native spot are preserved in Mr. Lambert's Herbarium. The more immediate source of the present plant has probably been the Botanic Garden at Calcutta. Four other unrecorded species of the genus were found by Dr. Hamilton in the same country; two of them, nearly allied to the well-known *margaritacea*, and distinguished by the Doctor by the names of *Busua* and *Timmua*, are said to be in the same request for the boughpot among the natives as the Everlastings are with us.

The plant before us is the staminiferous counterpart of the species, the pistilliferous is probably not in this country. *Don MSS.*

NOTES.

Ricotia ægyptiaca. Vol. 1. fol. 49.

The above long-established specific name had been lately changed by M. De Candolle, because that learned botanist had never heard of the plant being found in Egypt, but only in Syria. We have no respect for such alterations.

Ricotia Lunaria. Decand. syst. veg. 2. 284.

Fumaria eximia. Vol. 1. fol. 50.

Since the publication of that article, FUMARIA has appeared in a new order and been divided into six genera.

Nat. ord. FUMARIACEÆ. Decand. syst. veg. 2. 105.

DICLYTRA. Decand. syst. veg. 2. 107.

Diclytra eximia. Id. in eod. 109.

Fumaria aurea. Vol. 1. fol. 66.

Nat. ord. FUMARIACEÆ. Decand. loc. cit.

CORYDALIS. Id. in eod. 113.

Corydalis aurea. Id. in eod. 125.

Ipomœa insignis. Vol. 1. fol. 75.

Add the following synonyms in that article.

Ipomœa gossipiifolia. Willd. enum. 1. 208. Link enum. hort. reg. berol. 1. 199.

Gladiolus edulis. Vol. 2. fol. 169.

GLADIOLI SPECIES.

Cunonia. Nob. in ann. of bot. 1. 230. Antholyza *Cunonia.* Curt. mag. t. 343.

watsonius. Curt. mag. t. 450. et 569.

quadrangularis. Nob. in curt. mag. t. 567.

permeabilis. De la Roche pl. nov. desc. n. 1. t. 2.

viperatus. Nob. in curt. mag. t. 688.

alatus. Nob. in curt. mag. t. 586.

namaquensis. Nob. in curt. mag. t. 592. *equitans.* Vahl enum. 291.

(*α*) *aphyllus.* Nob. in curt. mag. t. 992. *brevifolius.* Jacq. ic. rar. 2. t. 249. *tristis.* i. *aphyllus.* Thunb. de glad. 8.

(*β*) *brevifolius.* Nob. in curt. mag. t. 727. *brevifolius.* Jacq. fragm. t. 2. fig. 3. *Orobanche.* Redouté liliac. t. 125. *carneus.* Andrews's reposit. t. 240. *tristis;* k; *ruber.* Thunb. de glad. 8.

(*γ*) *villosiusculus.* Nob. in curt. mag. t. 828. *tristis.* l. *purpureus.* Thunb. de glad. 8. *Gladiolus &c. &c.* Breyn. cent. 24. t. 12. fig. 1.

(*δ*) *roseus.* Nob. in curt. mag. t. 574. Jacq. ic. rar. 2. t. 250. *Redouté liliac.* t. 273. *roseus.* Andrews's reposit. t. 11.

hirsutus.

NOTES.

- hirsutus.* (ε) *tenuiflorus.* Nob. in *curt. mag. fol. verso.* 727. Merianellus. Thunb. *de glad. n.* 11. *prod.* 7. Willd. *sp. pl.* 1. 214; (excl. Millero). Vahl *enum.* 2. 94. Antholyza Merianella. Reich. *sp. pl.* 103. Lin. *sys. veg. ed.* 14. 8; (excl. Millero. Neque est Antholyza Merianella, Horti Kewensis neque Curt. mag. quæ est Watsonia ale-troides).
- versicolor.* (α) *major.* Nob. in *curt. mag. t.* 1042. *versicolor.* Andrews's *reposit. t.* 19. *grandis.* Thunb. *prod.* 185. Vahl *enum.* 2. 87.
- (β) *binervis.* Nob. in *curt. mag. t.* 1042.
- (γ) *inaequalis.* Nob. in *curt. mag. fol.* 556. Gladiolus &c. &c. Breyn. *prod. pl. afr.* 2. 20. t. 7. *fig.* 2. Gladiolus tristis; *minor.* Solander in *herb. banks.*
- (δ) *tenuior.* Nob. in *curt. mag. t.* 556. Gladiolus tristis; *inodorus.* Thunb. *de glad.* 8.
- (ε) *longifolius.* Nob. in *curt. mag. fol.* 556. *elongatus.* Thunb. *prod.* 185. Vahl *enum.* 2. 81. Gladiolus tristis; *prioris var.* Jacq. *ic. rar.* 2. t. 245.
- tristis.* Curt. *mag. t.* 272. (β.) Nob. in *loc. cit. t.* 1098. *concolor.* Salisb. *paradis. t.* 8.
- trichonemifolius.* Nob. in *curt. mag. t.* 1483.
- hyalinus.* Jacq. *ic. rar.* 2. t. 242.
- tenellus.* Jacq. *ic. rar.* 2. t. 242. (β.) Ejusd. *coll.* 4. t. 3. *fig.* 1.
- setifolius.* Vahl *enum.* 2. 100.
- gracilis.* Nob. in *curt. mag. t.* 562. (β.) *lævis.* Vahl *enum.* 2. 83?
- recurvus.* Nob. in *curt. mag. t.* 578. Lin. *mant.* 28; (non Thunb.). *carinatus.* Hort. Kew. *ed. prior.* 1. 64. Vahl *enum.* 2. 82. Redouté *liliac. t.* 123. *punctatus.* Jacq. *ic. rar.* 2. t. 247. *tristis;* (γ) *punctatus odor.* Thunb. *de glad.* 12. Gladiolus. Miller *ic. t.* 235. *fig.* 2. *alatus.* Schneevogt *ic. t.* 12. *ringens.* Andrews's *reposit. tt.* 27. 227.
- carneus.* Nob. in *curt. mag.* 591. Jacq. *ic. rar.* 2. t. 255. *cuspidatus.* Andrews's *reposit. t.* 147. Redouté *liliac. t.* 36. *ventricosus.* Lamarck *illustr.* 1. 118.
- cuspidatus.* Nob. in *curt. mag. t.* 582; (excl. Thunb.) Jacq. *ic. rar.* 2. t. 257. Andrews's *reposit.* 219. Redouté *liliac. t.* 136. *undulatus.* Linn. *mant.* 57.
- blandus.* (α) *carneus.* Nob. in *curt. mag. t.* 625. *carneus.* De la Roche *pl. nov. desc. t.* 4. Redouté *liliac. t.* 65. Gladiolus. Breyn *ic. rar.* 2. t. 70. *fig.* 2.
- (β) *niveus.* Nob. in *curt. mag. t.* 648. *albidus.* Jacq. *ic. rar.* 2. t. 256. *blandus.* Andrews's *reposit. t.* 99.
- (γ) *purpurascens.* Nob. in *curt. mag. t.* 645. *campanulatus.* Andrews's *reposit. t.* 188.
- Huc verosimiliter referendi *trimaculatus.* Vahl *enum.* 2. 85; et *inflatus.* Ejusd. *enum.* 2. 87.
- (δ) *excelsus.* Nob. in *curt. mag. t.* 1665.
- angustus.* Nob. in *curt. mag. t.* 602. Jacq. *ic. rar.* 2. 252. Hort. *cliff. t.* 6. Mill. *ic. t.* 142. *fig.* 2. Andrews's *reposit. t.* 589. Redouté *liliac.* 344.
- involutus.* De la Roche *pl. nov. desc. n.* 2. t. 3. Mill. *ic. t.* 286. *fig.* 1.
- hastatus.* Nob. in *curt. mag. t.* 1564. Thunb. in *act. soc. nat. hafn. vol.* 6. *ejusd. prod.* 185; (excl. Jacq.) *tristis, o. hastatus.* Thunb. *de glad. n.* 8.
- edulis.* Nob. *suprà vol.* 2. t. 169.

NOTES.

- undulatus. *Nob. in curt. mag.* (α) tab. 647. (β) tab. 538. *Schneevoogt ic.* 18. *Jac. ic. rar.* 2. 251; (non *Linnaei*). striatus. *Andrews's reposit.* 111. *Gladiolus. Mill. ic.* 292. fig. 2.
- floribundus. *Nob. in curt. mag.* t. 610. *Jacq. ic. rar.* 2. t. 254. grandiflorus. *Andrews's reposit.* 118.
- Milleri. *Nob. in curt. mag.* tab. 632. *Antholyza &c. &c. Mill. ic.* t. 40.
- cardinalis. *Curt. mag.* t. 135. *Redouté liliac.* t. 112.
- byzantinus. *Nob. in curt. mag.* tab. 874.
- communis. *Curt. mag.* (α) tab. 86. (β) *carneus. Nob. in curt. mag.* tab. 1575. neglectus. *Schultes obs. bot. in sp. pl. willd.* 14.
- segetum. *Nob. in curt. mag.* tab. 719. *Hort. Kew. ed. 2.* 1. 102. communis. *Bulliard herb. de la france. Flora græc.* 1. tab. 37. imbricatus. *Linn. sp. pl. ed. 2.* 1. 52. tenuis. *Marsch. bieb. fl. taur. cauc.* 1. 29. rossicus. *Persoon syn.* 1. 46; (excl. var. β .) *Glad. italicus. Park. parad.* t. 191. fig. 2. β .) triphyllus. *Flora græc.* t. 38.
- Species ulterius cognoscendæ.*
- flexuosus. *Thunb. de glad.* t. 1. fig. 1; (anne TRITONIE accensendus? vel potius sui generis?)
- exscapus. *Vahl enum.* 2. 80. flexuosus. *Linn. suppl.* 96; (non *Thunbergii*).

Cheiranthus Cheiri; γ . *Chameleon. Vol. 3. fol. 219.*

In the 2d page of the 2d leaf of the 551st article of this publication, we had observed, that this plant belonged to an already recorded species, that it belonged to the Island of Teneriffe, and that the following alterations were requisite.

CHEIRANTHUS scoparius; γ . *Chameleon.*
Teneriffe Wallflower.

C. scoparius, foliis lineari-lanceolatis acuminatis integris pube adpressâ bipartitâ subpubescentibus, caule fruticoso ramoso. *Decand. syst. veg.* 2. 184.

Cheiranthus scoparius. Willd. enum. 6. v. 1. *Decand. monsp.* 94. *Hornem. hort. hafn.* 613.

Hesperis cinerea. Poir. suppl. 3. 196.

(δ) *purpurascens.* (β) *æruginosus.* (γ) *Chameleon.*

Deemed nearest to *mutabilis*, but of a harder and stouter habit, with stiff branches, entire and generally greyish leaves, and a more dense pubescence of 2-3-parted hairs. Introduced from the Berlin garden, and not from Moscow, as we had been misinformed.

Dianthus crenatus. Vol. 3. fol. 256.

The following synonym should be added in the above article. *Jacquin* was not aware of his plant belonging to a recorded species.

Dianthus prostratus. Jacq. hort. schænb. 3. 11. t. 271.

Indigofera filifolia. In notis appendicis vol. 3.

This species has been since published in *Curtis's Botanical Magazine* under the title *LEBECKIA nuda*, and seems not to have been recognised as previously published.

NOTES.

Convolvulus involucreatus. Vol. 4. fol. 318.

This has been since published in Curtis's Magazine under the title *C. bicolor*, as being the same as the species of that name in Dr. Roxburgh's Manuscripts, which it may possibly be; but it is nevertheless that we have given it for, and of course should be continued by the title under which it has been long previously published.

Erysimum diffusum. Vol. 5. fol. 388.

M. De Candolle has changed the original specific name to *canescens*, as one that is better suited. To us we own the name first recorded is always the best. M. De Candolle also suspects that the drawing annexed to the above article may rather belong to *lanceolatum* than to *diffusum*; but does not say why. We again suspect that the whole may be left as it is, with the addition of the following synonym.

Erysimum canescens. Decand. syst. veg. 2. 500.

Hovenia acerba. Vol. 6. fol. 501.

We were indebted for the above article to Mr. Lindley, who had distinguished the plant from *HOVENIA dulcis*, principally by the supposed entire-edged leaves and unpalatable small fruit. It has been subsequently discovered, by samples from the same plant in Mr. Lambert's collection at Boyton, that Mr. Lindley, as well as our artist, has overlooked the serrature of the leaves, and that in reality these are serrated and not entire. This being the case we see no reason for distinguishing the plant from *HOVENIA dulcis*, though it has not ripened its fruit to the perfection it does in its native climate. Mr. Lambert tells us that it was raised from seed sent to him by Dr. Wallich from India. The following alterations should be made in the above article.

HOVENIA dulcis.

Japanese Hovenia.

Hovenia dulcis. Thunb. jap. 101. Willd. sp. pl. 1. 1141. Lamarck illustr. t. 131. Smith in Rees's cyclop. in loco.

Sicku vulgò Ken et Kenopkonas. Kæmpf. amœn. fasc. 5. 808. t. 909.

Native of Japan, where it is much cultivated, as well as in China, for the sake of its fruit, of the nature of which it has already been spoken in the above article. Said to grow to a small tree about 12 feet high. The leaves are described as smooth by Thunberg, but are known from native samples to be finely furred.

Ixia maculata: cæsia. Vol. 7. fol. 530.

IXIÆ species.

Veræ.

flexuosa. Nob. in curt. mag. 624. *polystachia*. Redouté liliac. 126. *capitata v. stellata*. Andrews's reposit. 232? IXIA &c. Mill. ic. t. 156. f. 2.

hybrida. Nob. in curt. mag. 1013. fol. vers. *flexuosa*. Curt. mag. 127.

patens. Nob. in curt. mag. 522. Redouté liliac. 140. *filiformis*. iterum 30. Ventenat cels. 48. *aristata*. Schneevogt ic. 32. β . fl. albo. *leucantha*. Jacq. ic. rar. 2. 278. *candida*. Redouté liliac. 133.

NOTES.

- aristata. *Nob. in curt. mag.* 589. *Thunb. ix.* 15. *prod.* 9. *Syst. veg. ed.* 14. 85; (non *Willd. sp. pl. nove edit. prior. Hort. Kew. quæ est Sparaxis grandiflora; supra vol. 3.* 258).
- conica. *Nob. in curt. mag.* 539. *Redouté liliac.* 138. capitata; *fl. aurantio. Andrews's reposit.* 50. *Milleri. Berg. pl. cap.* 8. maculata; *flava apicibus purpureis. Thunb. ix.* 19. *IXIA &c. Mill. ic. t.* 156. *f.* 1. (β) fusco-citrina. *Redouté liliac.* 86.
- maculata. *Suprà fol.* 530.
- erecta. *Nob. in curt. mag.* 623, 846. *Jacq. hort. schoenb. 1. t.* 8. *Thunb. ix.* 18. *Berg. pl. cap.* 5. *Syst. veg. ed.* 14. 85. polystachia. *Lin. sp. pl. ed. 2. 1.* 51. *Hort. Kew. ed. prior.* 1. 58. *Andrews's reposit.* 155. serotina. *Salisb. prod.* 35. *IXIA &c. Mill. ic. t.* 155. *f.* 2.
- odorata. *Nob. erecta; γ . lutea, odorata. Nob. in curt. mag.* 1173. *Jacq. hort. schoenb. 1. t.* 18; (tantum quoad figuram minorem).
- monadelpha. *Nob. in curt. mag.* 607, 1378. columnaris. *Andrews's reposit.* 203, 211, 213, 250. curta. *Id. eod.* 554. *Galaxia ixiaeflora. Redouté liliac.* 41.
- columellaris. *Nob. in curt. mag.* 630. columnaris; var. *angustifolia. Andrews's reposit.* 392.
- crateroides. *Nob. in curt. mag.* 594. speciosa. *Andrews's reposit.* 186.
- fucata. *Nob. in curt. mag.* 1379; (planta hortensis. *Anne crateroidis et capillaris hybrida?*)

Minus verae.

- capillaris. { *a. gracillima. Nob. in curt. mag.* 570. linearis. *Thunb. ix. n.* 12. *Willd. sp. pl. 1.* 201. *Vahl enum.* 61. *Hort. Kew. ed. 2. 1.* 86.
- { *β . stricta. Nob. in curt. mag.* 617. capillaris. *Thunb. ix. t. 2. f.* 2. *Willd. sp. pl. 1.* 201. *Vahl enum. 2.* 60. striata. *eod. 2.* 65. rapunculoides. *Redouté liliac.* 43. lancea. *Jacq. ic. rar. 2. t.* 281; (non *Thunbergii, quæ TRITONIA squalida; nobis in curt. mag.* 581.)
- { *γ . aulica. Nob. in curt. mag.* 1013. *Vahl enum. 2.* 60. aulica. *Hort. Kew. ed. 2. 1.* 86. *Willd. sp. pl. 1.* 207. phlogiflora? *Redouté liliac.* 432.
- { *δ . incarnata. Nob. in curt. mag.* 617. incarnata. *Jacq. ic. rar. 2. t.* 2. 81. *Vahl enum. 2.* 60.
- retusa. *Hort. Kew. ed. 2. 1.* 89. polystachia. *Jacq. ic. rar. 2. t.* 275. *Nob. in curt. mag.* 629. *Andrews's reposit.* 128.
- scillaris. *Nob. in curt. mag.* 542; (exclus. var. β .) *Lin. sp. pl. ed. 2. 1.* 52; (non *Thunbergii ix. n.* 14; quæ est *Geissorhiza imbricata; nob. in curt. mag. fol. verso* 1105; in *spec. synth.*) *Redouté liliac.* 127. *Hort. Kew. ed. 2.* 189. pentandra. *Lin. fil. suppl.* 92. *Thunb. ix. n.* 22. *prod.* 10. *Willd. sp. pl. 1.* 207. *Vahl. enum. 2.* 67. polystachiaë varietas. *Jacq. collect. suppl. 159. t. 2. fig. 1.* reflexa. *Andrews's reposit. 14. rotata. ejusd. recens.* 3.
- crispa. *Nob. in curt. mag.* 599. *Redouté liliac.* 433. *Thunb. ix. n.* 8. *t. 2. fig. 3. prod.* 9. undulata. *Burm. pl. cap. 1. Salisb. prod.* 37.

Astelma eximium. Vol. 7. 532.

This species has been generally accounted shrubby; but we are informed by Mr. Sweet that the plants are only biennial or triennial, never

NOTES.

surviving the production of the blossom: they seed however freely with us, and are easily propagated. We understand that the like nature has been observed in the country where the species is wild.

Leucojum tricophyllum. (δ). Vol. 7. fol. 544.

We were mistaken in saying that this plant had been received by Mr. Griffin from Lisbon; he received it from Moscow. It is probably native of some of the warmer oriental provinces of the Russian dominions.

Tithonia tagitiflora, Vol. 7. fol. 591; overleaf; line 7, from the bottom.
For "HELIOPSIS" read "TITHONIA."

ERRATA.

- Vol. 3. fol. 241. post lin. 7, inserte "CAMPANULA. vol. 1. fol. 56."
Vol. 3. fol. 261. l. 10. pro "Willd. sp. pl. 1058," pone "Willd. sp. pl. 3. 1058."
Vol. 4. fol. 315. l. 5. pro "53." lege "51."
Vol. 4. fol. 327. l. 14 (overleaf); for "petiole not undulated at the base," read "petiole not dilated at the base."
Vol. 5. append. fol. vers. 1. l. 19. pro "plant. rar. hung. 3. tab. 220," lege "plant. rar. hung. 1. 57. t. 57."
Vol. 6. fol. 486. l. 6. pro "Brown prod. 2. 520" lege "Brown prod. 1. 520."
Vol. 6. fol. 488. l. 5. post "Div." inserte "I."—l. 6. dele "B."
Vol. 6. fol. 490. l. 17 à calce pag. pro "essenb." lege "esenb."
Vol. 6. fol. 508. l. 26. pro "tinervi" lege "trinervi."
Vol. 7. fol. 528. l. 12. for "LABERTIA" read "LAMBERTIA."
Vol. 7. fol. 528. l. 14. pro "interioriobus" lege "interioribus."
Vol. 7. fol. 532. pag. 4. for "and which florets are all both" read "and the florets within all both."
Vol. 7. fol. 536. l. 18. pro "scienc." lege "cienc."
Vol. 7. fol. 539. l. 14. pro "corallam" lege "corollam."
Vol. 7. fol. 546. page 3. l. 2. for "fuller that" read "fuller than that."
Vol. 7. fol. 553. l. 6 à calce pag. pro "stipitalisque" lege "stipitatisque."
Vol. 7. fol. 558. l. 3 from bottom (overleaf), dele "the."
Vol. 7. fol. 559. l. 7. pro "Schulte" lege "Schultes;" passimque in ead. pag.
Vol. 7. fol. 567. l. 5. post "Jussieu" adde "gen."
Vol. 7. fol. 570. l. 16. pro "4-linearibus" lege "4, linearibus."
Vol. 7. fol. vers. 576. l. 2. for "iridifolia" read "iridiflora."
Vol. 7. fol. vers. 591. l. 7 à calce pag. for "HELIOPSIS" read "TITHONIA."

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