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# KING'S *College* LONDON

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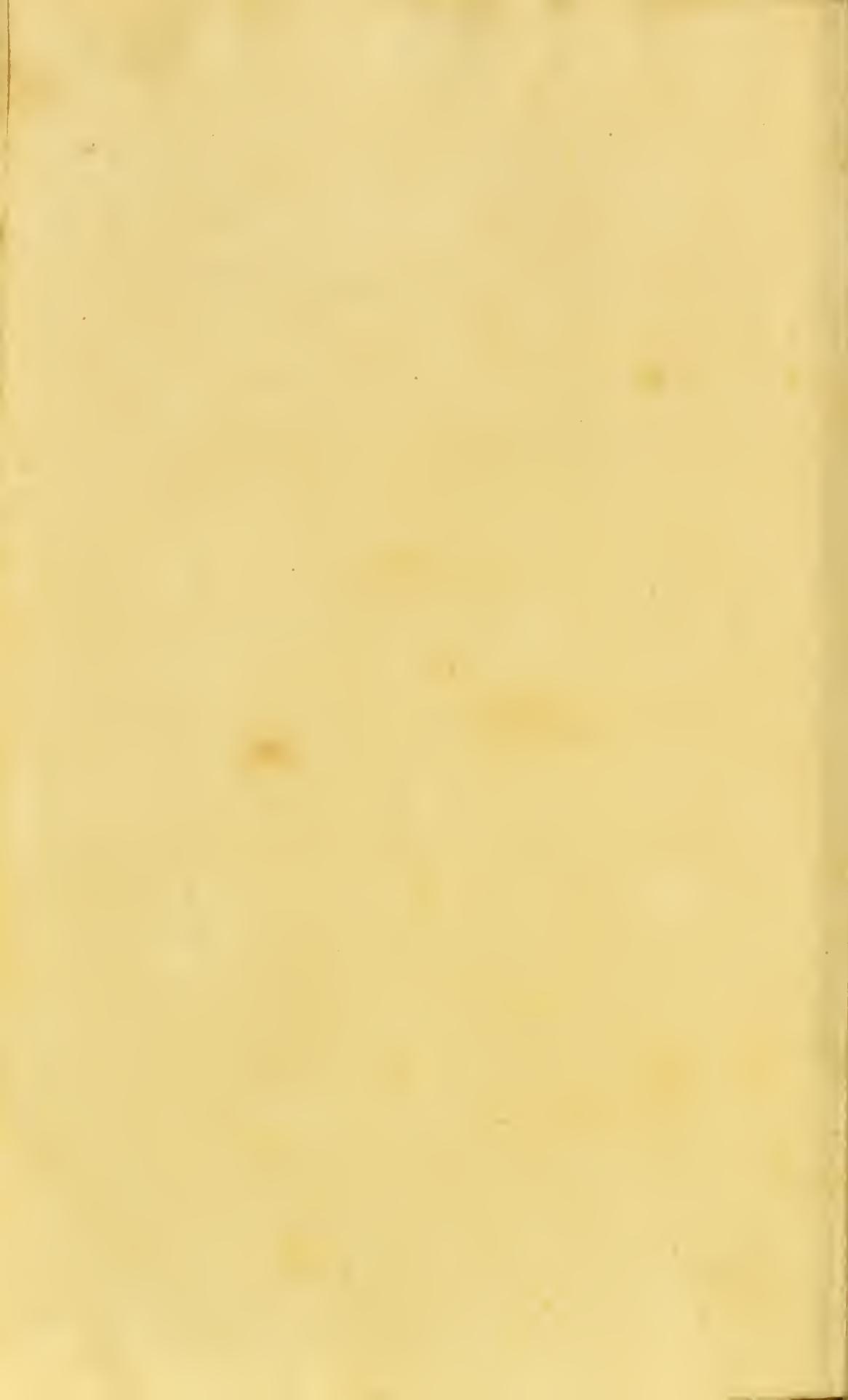
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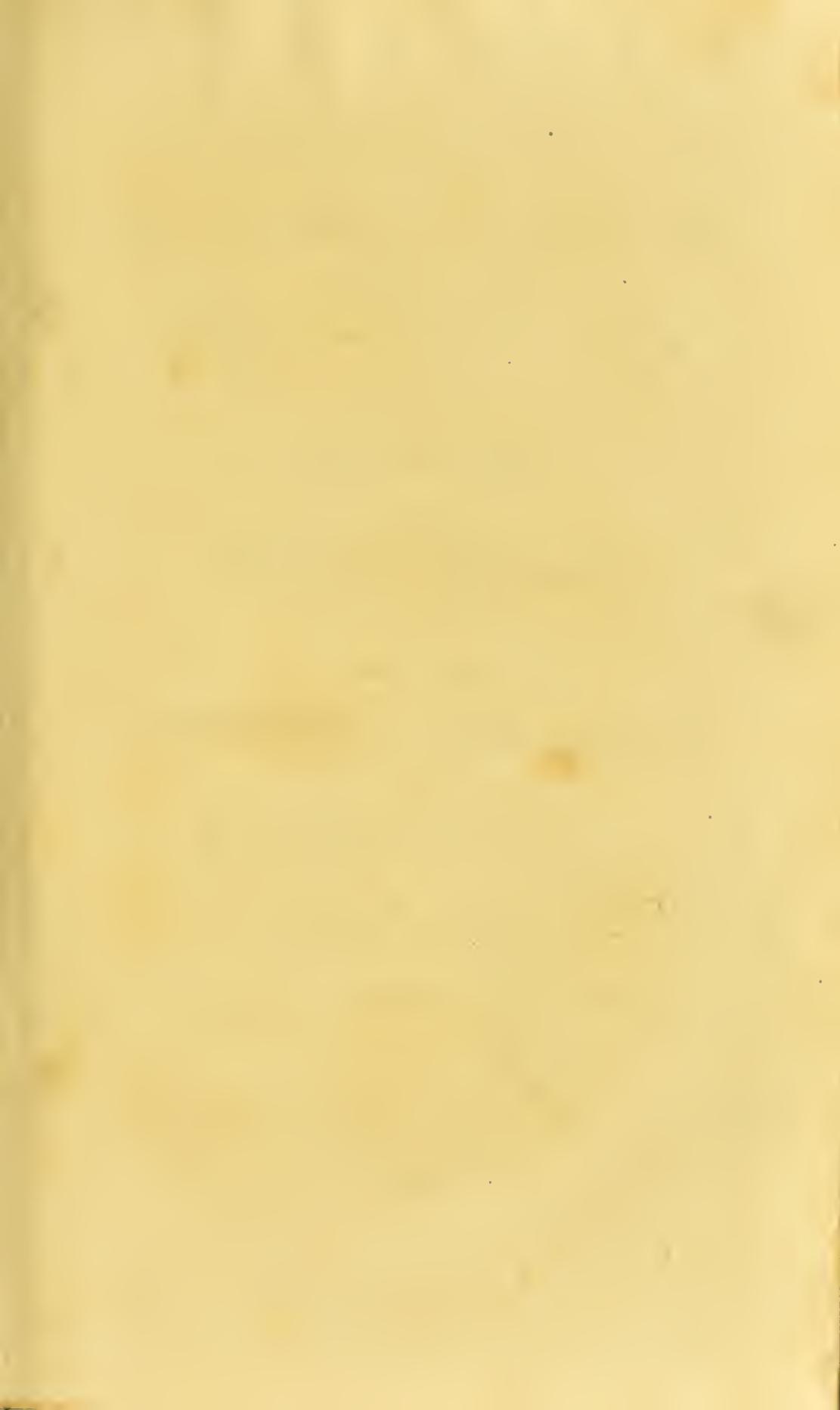
STOKES, JOHN THOMAS  
A BOTANICAL MATERIA  
MEDICA  
1812

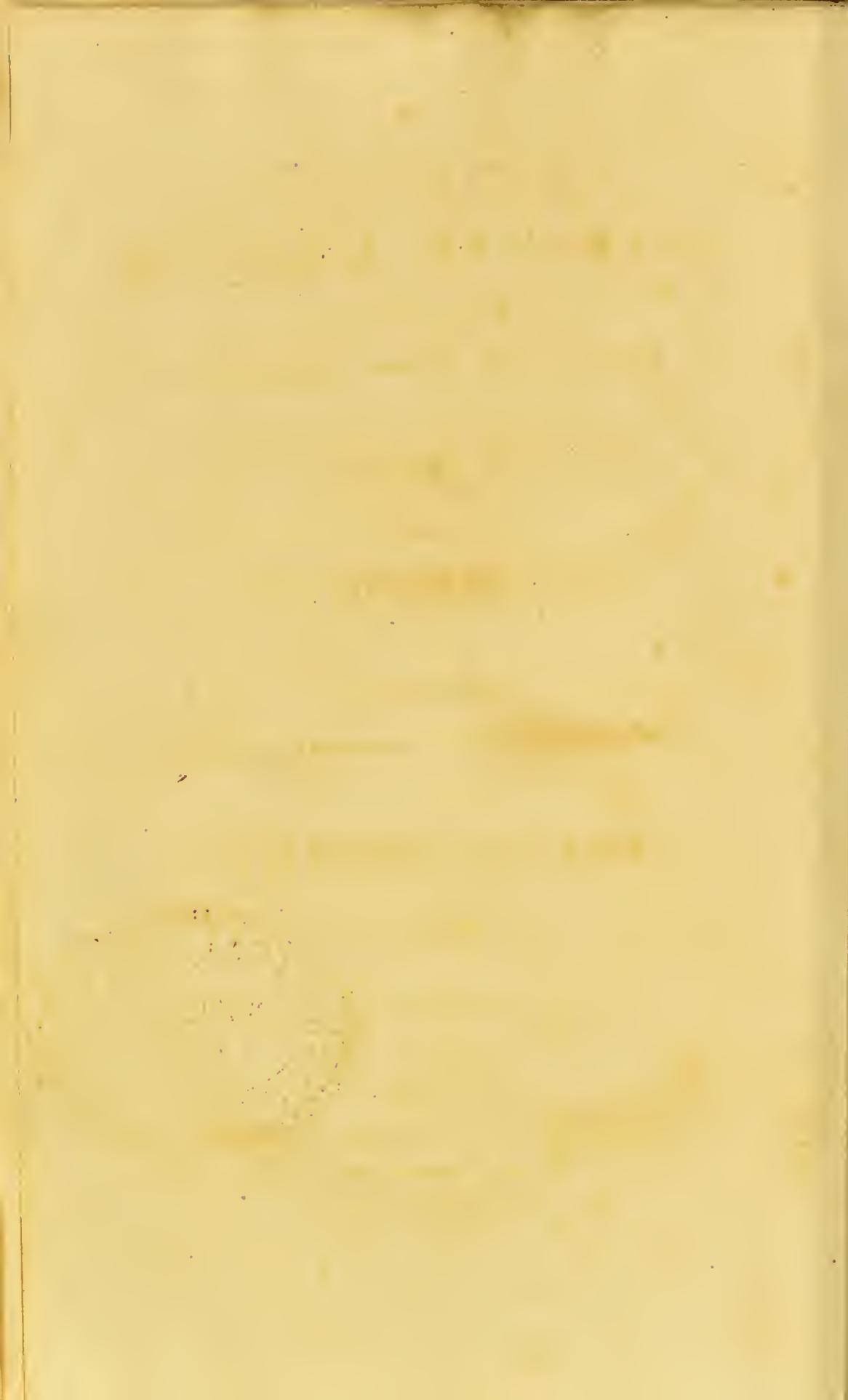
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KING'S COLLEGE LONDON







A  
**BOTANICAL  
MATERIA MEDICA,**  
CONSISTING OF THE  
GENERIC AND SPECIFIC CHARACTERS  
OF THE  
**PLANTS**  
USED IN  
**MEDICINE AND DIET,**  
WITH  
SYNONYMS,  
AND REFERENCES TO MEDICAL AUTHORS,  
BY  
**JONATHAN STOKES M. D.**

IN FOUR VOLUMES.

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*Class 17.*

# DIADELPHIA.

*Order 1.*

## HEXANDRIA.

720. FUMARIA. *Calyx* diphylloous. *Corolla* ringent. *Filaments* 2; each with 3 antherae. *Capsule* monospermous, and *siliqua* unilocular. *Obs.* 3830.

*Order 2.*

## DECANDRIA.

1. *Stigma pubescent.* L.

736. COLUTEA. *Legumen* inflated. *Style* carinate underneath, villose on the upper side. *Calyx* quinquefid. *Obs.* 5202.

724. PHASEOLUS. *Carina stamna* and *style* spiral.

725. DOLICHUS. *Verillum* with oblong callosities at the base. *Obs.* 7145.
728. PISUM. *Style* carinate and pubescent on the upper side. *Obs.* 3850.
729. OROBUS. *Style* flat, bearded on the upper side. *Obs.* 3861.
730. VICIA. *Style* bearded on the lower side. *Obs.* 3671.
731. ERVUM. *Style* filiform, hirsute all round just below the stigma. *Obs.* 4582.

*Legumen mostly bilocular, not as the preceding.*

746. ASTRAGALUS. *Legumen* bilocular and semibilocular, gibbose. *Obs.* 8178.

3. *Legumen mostly monospermous, not as the preceding.* L.

722. PTEROCARPUS. *Legumen* not opening, falcato-subrotund.

721. DALBERGIA. *Legumen* not opening, foliaceous. *Calyx* obsoletely dentate. *From L. a Willd.*

747. PSORALEA. *Legumen* subrostrate, without valves, as long as the calyx.

748. TRIFOLIUM. *Legumen* not opening, monospermous and dispermous, scarcely longer than the calyx.

4. *Legumen unilocular, polyspermous, not as the preceding.*

737. GLYCYRRHIZA. *Legumen* with few seeds. C-

- lyx*, upper lip tripartite; lower lip entire.
750. TRIGONELLA. *Vexillum* and *alae* patent. *Carina* minute.
727. GLYCINE. *Carina* reflecting back the *vexillum*. *Obs.* 6962.
726. CLITORIA. *Corolla* resupinate; *vexillum* very large, covering the *alae*.
735. ROBINIA. *Vexillum* reflexo-patent, roundish. *L.*
743. INDIGOFERA. *Carina* with a tooth on each side. *L.*
744. MARCANTHUS. *Carina* and *alae* very long. *Legumen* thick, terete. *Lour.*
732. CICER. *Calyx*, 4 upper segments pressing on the *vexillum*. *L.*
723. CYTISUS. *Calyx* bilabiate. *Legumen* stipitate. *L.*
745. GALEGA. *Legumen* linear, with obliquely transverse striae. *L.*
749. LOTUS. *Legumen* oblong, cylindric and angular. *Seeds* cylindric. *Alae* longitudinally connivent. *Obs.* 6815.
751. MEDICAGO. *Legumen* spiral, membranaceo-compressed. *Carina* depressed by the pistil. *L.*
5. *Lomentum* with internodia separating at the articulations. *Willd.*
741. AESCHYNOMENE. *Lomentum*, internodia truncate. *Calyx* bilabiate.

742. HEDYSARUM. *Lomentum*, internodia roundish, compressed; or *legumen* monospermous. *Carina* ascending at right angles. *Calyx* quinquefid. *Obs.* 5897.
738. CORONILLA. *Lomentum* terete, contracted at the joints, straight. *Calyx* bilabiate.
739. ORNITHOPUS. *Lomentum* terete, contracted at the joints, bowed. *Calyx* quinquedentate. *Obs.* 4580.
740. HIPPOCREPIS. *Lomentum* compressed; one of the sutures sinuate. *Obs.* 4575.

6. *Drupe.*

734. GEOFFREA.

7. *Flowers not examined.*

733. VATAIREA.

H E X A N D R I A.

720. FUMARIA.

*Calyx* diphyllous. *Corolla* ringent. *Filaments* 2,

each with 3 antherae. *Capsule monospermous,*  
and *siliqua unilocular.* Obs. 3830. L.

1. *Corolla with 1 spur.* L.

1. **FUMARIA officinalis.** Capsules monospermous.  
Flowers racemose. Segments of the leaves cuneiform. Obs. 4800. On the side of a road.—L.  
suec. n. 630; sp. 984. Bot. arr. 751. Curt. lond.  
ii. 52. t. 112. Walc. t. Woodv. ii. 241. t. 88.  
Huds. 309. Lightf. 379. Fl. dan. t. 940. Smith  
brit. 750; engl. t. 589. Mart. rust. t. 68.  
**F. officinarum et Dioscoridis, flore purpureo.** Boerh.  
i. 308. In Holland.  
**Fumaria.** Riv. tctr. t. 1. Cam. epit. 890. Dalech.  
1292. Dod. 59, repr. in  
**Capnos.** Lob. obs. 437,  
**Capnos, Fumaria.** Lob. ic. i. 757, &  
**F. purpurea.** Ger. by Johns. 1088, & cop. in  
**F. vulgaris.** Park. theatr. 287. Raii hist. 405;  
syn. 204. Bauh. J. iii. a. 201, &  
**F. Phragmites.** Dalcch. 1292, cop. from  
**F. seu Fumus terrae.** Fuchs. 338, fol. ed. which  
cop. in 332. c. 128.  
**Fumus terrae.** Brunsf. i. 99.  
**FUMARIA.** Herb. Pharm. austriaco-prov. 39,  
suec.—Alst. ii. 140. Berg. 594. Carth. ii. 340.  
Chom. 74. Cull. ii. 77. Dale 111. Geoffr. iii. 499.  
Herm. 311. 529. Krock. n. 1139. Lew. i. 451;  
disp. by Dunc. 227. Linn. 199. Mill. Jos. 205.  
Monro iv. 286. Murr. ii. 449. Ploucq. bibl. i.  
699. Quar. anim. 115. Rutty 210. Schrod. 593.  
Spielm. 215. Stoll med. ii. 242. Vog. 62.

*F. officinarum* et *Dioscordidis*. *Chom.* 490; *suppl.* 146.

2. *FUMARIA cava*. Root tuberous. Bracteae entire.  
*Obs.* 2688. Specimen gathered near a village on  
 the left bank of the Rhine between Ungle and Bonn.  
 —*Curt. mag. t. 232.* *Mill. Ph. dict. n. 7.*
- F. bulbosa*. *L. sp.* 983  $\alpha$ ; *suec.* n. 631  $\gamma$ . *Hort. kew.* iii. 2  $\alpha$ . *Scop. carn.* n. 864. *Krock.* ii. n. 1136. *t. 35.* *Fl. dan.* *t. 605.* *Dalech.* 1293. *Gou. hort.* 353. Near Montpelier.
- F. major*. *Roth germ.* i. 300; ii. *pars* ii. 151.  
*Aristolochia rotunda*, flore albo. *Besl. hort. tern.*  
*ord. 1. fol. 2.* Uppermost bracteae incise.
- Pistolochia*. *Fuchs. fol. ed.* 91, *cop. in*  
*Aristolochia longa*. *Fuchs.* 94. c. 31,
- F. bulbosa*, radice *cava*, flore purpurascente et albo.  
*Bauh. J.* iii. 201, &
- Aristolochia rotunda vulgaris*. *Trag.* 767, which  
*repr. in*
- Chelidonia phragmitis*. *Cord. fol.* 122. *p. 1.*
- Radix cava viridi flore*. *Park. theatr.* 288.
- Radix cava major purpurea*. *Ger. by Johns.* 1090.
- Radix cava major*, flore carneo. *Park. par.* 275.  
 No fig.
- Radix cava*. *Dod.* 325, *repr. in*
- Radix cava herbariorum*. *Lob. obs.* 439; *ic. i.*  
*759*,
- Radix cava major*. *Clus. hist.* i. 271, &
- Radix cava major alba*. *Ger. by Johns.* 1090, *cop. in*
- Radix cava vulgaris*. *Park. theatr.* 288, & *abr. in*
- F. radice cava*, major, flore pupureo et albo. *Hist. ex. s. 3. t. 12. row 2. f. 6.*

- FUMARIA* bulbosa. *Dale* 228.  
*Aristolochia* fabacea. *Berg.* 593. *Carth.* ii. 330.  
*Linn.* 199. *Murr.* ii. 452. *Spielm.* 201.  
*Aristolochia* rotunda vulgaris. *Neum.* ii. 195.  
*Aristolochia* cava. *Herm.* 101.
8. *FUMARIA solidæ*. Root tuberous. Bractæe multifid. *Obs.* 384. Specimen gathered in a garden.—*Curt. mag.* t. 231. *Mill. Ph. dict.* n. 8. *Smith brit.* 748; *engl.* t. 1471.
- F. bulbosa*. *L. suec.* n. 631  $\alpha$ ; sp. 983  $\gamma$ . *Hort. kew.* iii. 2  $\beta$ . *Krock.* n. 1137. *Poll.* n. 662. *Fl. dan.* t. 1224. Folioles entire.
- F. minor*. *Roth germ.* i. 300; ii. pars ii. 153.
- F. Halleri*. *Willd. ber.* 229, who says that by age the root becomes hollow; *L. a Willd.* iii. 863.
- F. intermedia*. *With. in bot. arr. ed.* iii. 620. t. 29, if I mistake not, from a dried specimen sent him by Mr. Hall who found it at Leyvans Park 5 miles from Kendal.
- Capnos altera*, fabacea radice. *Lob. obs.* 439, repr. in *ic.* i. 759,
- Radix cava minor*. *Dod.* 325, & *Ger.* by *Johns.* 1091, cop. in
- Capnos fabacea radice*. *Dalech.* 1294, & *abr. in*
- F. bulbosa*, radice solida, calcari & folio cristato. *Bauh. J.* iii. a. 205, &
- Radix cava minor*, seu *Capnos fabacea radice*. *Park.* par. 275. t. 279. f. 2.
- F. bulbosa* seu *tuberosa minor*. *Tab. ic.* 39.
- Aristolochia vulgaris*, flore purpureo. *Besl. hort. hyem. ord.* 1. *fol.* 7.
- FUMARIA* bulbosa, radice non cava, major. *Schrod.* 593.

*Aristolochia fabacea.* *Herm.* 101. *Neum.* ii. 195.

4. *FUMARIA tetragona.* Siliquac tetragonous, lanceolato-linear. Stem branched, with acute angles. Root perennial. *Obs.* 5096. In a garden.

Stem erect, mostly pentagonal. Leaves alternate; folioles glaucous underneath. Petioles triquetrous; angles decurrent. Flowers racemose. Racemi terminating the stem and branches. Bracteae solitary. Capsules compressed. *Obs.* 5096. 7759.

$\alpha$  *lutea.* Corolla yellow. *Obs.* 5096.

*F. lutea.* *L. mant.* 258; *a Murr.* 258. *Hort. kew.* iii. 2. *Smith engl.* t. 588; *brit.* 749. *Boerh.* i. 309. Not marked as an annual.—*Ger.* by *Johns*, 1088, *repr. from*

*F. lutea montana.* *Lob.* *obs.* 438, which *repr. in ic.* i. 758; *adv.* 338. No fig. In the mountains of Illyria, Dalmatia, Tuscany, and the south of France. —*Hist. ox.* s. 3. t. 12. row 2. f. 4. *Dalech.* 1293, *cop. from*.

*F. corydalis.* *Matth.* 1160.

*F. capnoides.* *Mill. Ph. dict.* n. 4, but he describes the capsules as terete and the angles of the stem as obtuse.

*F. caule ramoso diffuso;* siliquis oblongis, radice perenni. *L. cliff.* 352.

*F. siliquis linearibus tetragonis,* caulibus diffusis acutangulis. *Mill. Ph. ic.* 91. t. 136. f. 1.

*Capnoides lutea.* *Gaertn.* ii. 163. t. 115.

Stem 7 to 16 inches long, tinged rufous below and rufous flesh-coloured throughout. Folioles, the very ends rufous. Racemi with sometimes a long solitary peduncle in the axilla of the uppermost leaf. Bracteae subulate, obsoletely serrate. Pedicles twice as long as

the bracteae. *Capsules* twice and thrice shorter than the pedicels. *Corolla* full yellow. *Obs.* 5096. June, Aug.

*FUMARIA* quae Split dicitur. *Bauh. J.* iii. a. 203; (the fig. *Delphinium Consolida.*) Flowers yellow or white. *Raii hist.* 974.

## 2. Corolla with 2 spurs. L.

5. *FUMARIA bicalcarata.* Flowers on a scapus. *Obs.* 8298. Specimen gathered in Fothergill's garden,  
*F. Cucullaria*, *L. sp.* 983; *mant.* 437. *Hort kew.* iii. 1.  
*F. scapo nudo.* *Gron. virg.* 103. *Roy.* 393.  
*Capnorhynchus americana.* *Boerh.* i. 309.  
*F. siliquosa*, radice grumosa, flore bicorporeo ad labia conjuncto, virginiana. *Pluk. alm.* 162; *phyt. t.* 90. f. 3.  
*F. tuberosa insipida.* *Corn.* 127. *t.* 126. No fructifications.  
*FUMARIA Cucullaria.* *Schoepf* 110.

# DECANDRIA.

## 721. DALBERGIA.

*Calyx* obsoletely quinquedentate. *Legumen* not opening, foliaceous, flat, monospermous and dispermous. *From L. fil.*

1. *DALBERGIA arborea.* Leaves pinnate; folioles

ovate, acuminate, glabrous. Fruit oval, acute, veinless. *L. a Willd.* iii. 901.

*PONGAM* seu Minari. *Rheede* vi. 5. t. 3. *Raii hist.* 1733.

Caranjaca. *Jones in as. res.* iv. 310.

2. DALBERGIA *Lanceolaria*. Leaves pinnate; folioles oblong, pilose underneath. Racemi axillary. Fruit lanceolate. *From L. fil. suppl.* 316, & *L. a Willd.* iii. 903.

*NOEL VALLI* et Panni valli. *Rheede* vi. 39. t. 22. *Raii hist.* 1734.

## 722. PTEROCARPUS.

*Calyx* quinquedentate. *Legumen* not opening, falcate, foliaceous, varicose, monospermous dispersuous and trispermous. *From L. a Willd.* *Gaertn.* 351. t. 156, *Lour. J. Commel.* and *Rumph.*

1. PTEROCARPUS *santalinus*. Leaves ternate; folioles roundish, retuse, glabrous. Petals crenate, undulate. *L. fil. suppl.* 318. *Woodv.* iv. 109. t. 254, from a specimen in Sir Jos. Banks's herbarium.

Santalum rubrum. *Tab. ic.* 933, *cop.* in *Bauh. J.* i. a. 489. *Wood.*

Folioles emarginate. *Specimen* in Sir Jos. Banks's herbarium from Koenig with a portion of the wood.

*SANTALUM* rubrum. Red Saunders. Wood.

*Pharm. lond.*—*Alst.* ii. 49. *Berg.* 906. *Carth.* iv. 289. *Chom.* 344. *Dale* 345. *Geoffr.* ii. 241. *Herm.* 236. *Hill* 684. *Lew.* ii. 330. *Linn.* 201.

*Mill.* *Jos.* 392. *Monro* iii. 246. *Rutty* 460.

*Schrod.* 672. *Spielm.* 392. *Vog.* 284.

Pterocarpus. *Wood.* *Pharm. lond.* noviss.

*P. santalinus.* *Pharm. edin.*—*Lew. disp. by Dunc.*  
288. *Murr.* vi. 89; *J. i.* 197.

Red Saunders. *Neum.* ii. 87.

2. PTEROCARPUS *Draco*: Leaves pinnate; folioles ovate, acuminate. Stipulae oblong, obtuse. Legumina obtuse. *L. a Willd.* iii. 904, from a dried specimen; *sp.* 1662; *mant.* 438; *a Murr.* 641. *Jacq. amer.* 8vo, 256. *Swartz. obs.* 275.—Specimens in Sir Jos. Banks's herbarium gathered by Aublet in Guiana, and by Mr. Masson in Saint Lucia in 1780.

*Moutouchi suberosa.* *Aubl.* ii. 748. *t.* 299.

PTEROCARPUS *officinalis*. *Jacq. amer.* 283. *t.* 183. *f.* 92, a leaf, *cop. in pict.* 98. *t.* 264. *f.* 91. In the island of Tierra Bomba near the Spanish main.

3. PTEROCARPUS *indicus*. Leaves pinnate; folioles oblong, acuminate. Stipulae none. Legumina acute. *L. a Willd.* iii. 904, from Rumph.

Pterocarpus. *L. zeyl.* 196; *mat. med.* 184. *n.* 522.

*Draco arbor indica siliquosa, populi folio.* *Comm. J. hort.* i. 213. *t.* 109. Seeds, and the plant raised from them without fructifications.

*LINGOUM saxatile.* *Rumph.* ii. 205. *t.* 70.

4. PTEROCARPUS *flavus*. Leaves pinnate. Racemi lateral. Corolla dentate. *From Lour.* ii. 525.

The account of the corolla from

*MALAPARIUS.* *Rumph.* iii. 183. *t.* 117.

## 723. CYTISUS.

*Calyx* bilabiate; upper lip with 2 divisions, lower with 3 divisions. Obs. 5091. L.

1. CYTISUS *penduliflorus*. Racemi pendulous. Folioles dull. Sinuses of the calyx very obtuse. Germen sericeous. Obs. 7104. In a garden.  
C. *pendulus*. Sal. R. hort. 330.  
C. *alpinus*. Mill. dict. n. 2.  
C. Laburnum. Host 402. Roth germ. i. 322; ii. pars ii. 222. Jacq. austr. iv. 3. t. 306. Curt. mag. t. 176. Hort. kew. iii. 49  $\alpha$   
C. *alpinus angustifolius*, flore racemoso pendulo longiori. Boerh. ii. 26.  
Laburnum, arbor trifolia, anagyridi similis. Bauh. J. i. b. 361, in Switzerland, Savoy, and Burgundy; cop. in  
Laburnum majus. Park. theatr. 245.  
Laburnum. Park. par. 438. t. 435. f. 4. Seeds blackish.  
Anagyris altera. Matth. 931, cop. in  
Laburnum alterum. Dalech. 104.  
Anagyris angustifolia. Best. hort. arb. ord. 1. fol. 7. Seeds blackish.  
Anagyris non foetens minor. Raii hist. 1722.

Branches of last year's growth greyish olive, striaterrugose; those of the present years growth very short. Leaves dull, glabrous above, slightly sericeous underneath; folioles elliptic. Racemi near the end of the small branches, but not terminal. Calyx bilabiate, sericeous; lips acute; sinuses so shallow that the calyx covers the unguis of the corolla. Corolla

lemoncoloured; upper petal with blackish rufous lines along the middle extending from the base of the lamina to nearly two thirds of its length; unguis thicker and broader than in *C. nitidifolius*. *Stamina monadelphous*. *Germen* microscopically sericeous. *Obs. 7104.*

**LABURNUM.** *Aretius in Gesn. hort. fol.* 246.

*p. 2. Dale* 342. *Vog.* 106. 131.

*Anagyris minor.* *Matth.* 931.

2. **CYTISUS nigricans.** Racemi terminal, erect. Calyces pilose; teeth minute. Folioles elliptic, pilose underneath. *H. K.* iii. 49. *L. sp.* 1041; *mant.* 444. *Scop. carn. n.* 904. *Jacq. austr.* iv. t. 387. *C. racemis simplicibus erectis, foliolis ovato-oblongis.* *Mill. Ph. ic. t.* 117. *f. 1.* *C. I Tabernaemontani spicatus.* *Besl. hort. vern. arb. fol.* 12. *C. Gesneri.* *Dalech.* 260. *C. Gesneri, cui flores fere spicati.* *Bauh. J. i. b.* 370. *C. I.* *Clus. pann.* 36, repr. in *C. IIII.* *Clus. hist.* i. 95, & *Cytisus.* *Ger. by Johns.* 1304. *f. 1.* *CYTISUS nigricans.* *Krock. n.* 1181.

3. **CYTISUS Cajan.** Racemi axillary, erect. Folioles sub lanceolate, tomentose, middlemost on a longer petiole. *L. sp.* 1041; *mant.* 444. *Hort. kew.* iii. 50. *Lour.* ii. 565. *C. fruticosus* *erectus ramosus triphyllus, foliis subcinereis oblongis, vexillo variegato, siliqua compressa ad semina torosa.* *Browne* 296.

- C. folio molli incano, siliquis orobi contortis & acutis.  
*Burm. J. zeyl.* 86. t. 37.
- Phaseolus erectus incanus, siliquis torosis, Kayan dictus.  
*Pluk. alm.* 293; *phyt.* t. 213. f. 3.
- Laburnum humilius, siliqua inter grana et grana juncta, semine esculento. *Sloane cat.* 139.
- Phaseolus arbor indica, siliquis torosis, Kayan dicta.  
*Raii hist.* 1722.
- Arbor trifolia indica. *Bauh. J.* ii. 368.
- Thora paeru. *Rheede* vi. 23. t. 13.
- Pigeon Pea-tree. *Hughes* 199. t. 19.  
 (C. frutescens sericeus. *Plum. ic.* 105. t. 114. f. 2,  
 has à terminal racemus, and oblong obtuse folioles.)
- CYTISUS* Cajan. *Brij.* 312.
- Angola Peas. *Graing.* 36.
- Pigeon Peas. *Hawk. voy.* iv. 341.

## 724. PHASEOLUS.

*Carina stamina and style twisted spirally. L.*

## 1. Stem twining. L.

1. PHASEOLUS *vulgaris*. Flowers racemose. Pedicels in pairs. Bracteae of the pedicels solitary, ovate. Legumina linear. *Berg. mat. med.* n. 378. *L. sp.* 1016.  $\alpha$ . *Hort. kew.* iii. 29.  $\alpha$ . *Thunb. jap.* 278. *Boerh.* ii. 28. *Lob. obs.* 511, repr. in *ic.* ii, 59,  
*Dolichus*, sive *Phascolus*. *Dod.* 509, &  
*P. albus*. *Ger. by Johns.* 1212, & cop. in  
*Phaseoli tumidi minores nivei*. *Bauh. J.* ii. 259.

*Phasiolus albus.* *Dalech.* 472.

*Phaseoli sativi.* *Park. par.* t. 523. f. 2.

*Smilax hortensis.* *Fuchs.* 672. c. 269, cop. in *Bauh.*

J. ii. 255, but is more like *P. nanus*.—*Raii hist.* 884.

*Dalech.* 474. *Tab. ic.* 488. *Trag.* 615, repr. in *Cord. fol.* 127. p. 2.

*P. major*, sive *Smilax hortensis*. *Magn. hort.* 158.

**PHASEOLUS.** *Berg.* 601. *Geoffr. suite i.* 395.

*Linn.* 203.

*Phaseoli.* *Spielm.* 31.

*P. vulgaris.* *Bry.* 304. *Chom.* 748. *Pears.* R. i. 76. *Schoepf* 111.

*Smilax hortensis.* *Dalec.* 217.

2. **PHASEOLUS multiflorus.** Flowers racemose. Pedicels in pairs. Bracteae of the pedicles in threes. Obs. 7197. In a garden.—*L. a Willd.* iii. 1030. *Lam.*

*P. vulgaris*  $\beta$  *L. sp.* 1016. *Hort. kew.* iii. 29.

*P. caule volubili*, racemis multifloris, bracteis pedicellorum ternis lanceolatis, leguminibus acinaciformibus hirtis. *Berg. mat. med. n.* 379.

**PHASEOLUS floralis.** *Berg.* 602.

$\alpha$  *coccineus.* Corolla scarlet. Obs. 7197.

*P. puniceo flore.* *L. ups.* 213.

*P. puniceo flore, fructu ex nigro et colossino variegato.* *Boerh.* ii. 28. n. 13.

*Phaseolus puniceo flore.* *Corn.* 184. t. 185.

*Phasiolus flore coccineo.* *Park. theatr.* 1056. (The fig. a copy of Clus. pann. 729.) *Raii hist.* 884.

*P. indicus*, flore coccineo. *Hist. ox. s.* 2. t. 5. f. 4.

*Scarlet Bean.* *Ger. by Johns.* 1215. No fig.

Bracteae of the calyx oblongo-ovate, acute, ad-

pressed, with 2 and 3 obsolete ribs. *Calyx*  $1\frac{1}{2}$  as long as the bracteae upper lip obsoletely bidentate. *Corolla*, vexillum thrice as long as the calyx. *Obs.* 7197.

*β albus.* Corolla white. *Obs.* 7198. In a garden.—  
*L. a Willd.* iii. 1031 *β*

3. **PHASEOLUS perennis.** Stem twining. Root perennial. Flowers racemose. Racemi in pairs. Peduncles as long as the flowers. Bracteae very small. Legumina pendulous. Corolla purplish red. *Walt.* 182? *L. a Willd.* iii. 1031?

*P. I.* sive *africanus*. *Clus. pann.* 722, *repr. in Phaseoli peregrini* I genus alterum. *Clus. hist.* ii. 223, & *cop. in*

*Phasiolus lato striato* sive *radiato semine*. *Bauh. J.* ii. 267, the entire plant and the 2 seeds with radiated lines.

**PHASEOLUS maximus perennis**, siliquis majoribus compressis, tetra vel pentaspermibus. *Browne* 293.

4. **PHASEOLUS saccharatus.** Stem somewhat twining. Folioles ensiformi-ovate. Peduncles axillary, quadriflorous. Calyces truncate above. *Obs.* 8807. Specimen with imperfect flowers and an enlarged germen gathered by Dr. Wright in Jamaica.

*P. scandens*, siliquis glabris compressis tri-vel quadrispermibus. *Browne* 293.

**PHASEOLUS saccharatus.** *Berg.* 603.

Sugar Bean. *Long* 787.

5. **PHASEOLUS trilobus.** Stem half twining, decum-

bent, nearly glabrous. Folioles trilobate; lobes ovate. Stipulae ovate. Legumina cylindric. *Hort. kew.* iii. 30.

*P.* maderaspatanus, foliis glabris trilobis, floribus exiguis, longis petiolis ex eodem puncto geminis. *Pluk. alm.* 292. *t.* 214. *f.* 3. No fructifications.

*DOLICHOS* trilobus. *L.* sp. 1021; *mant.* 442. *Burm. N. ind.* 160. *t.* 50. *f.* 1.—*Lour.* ii, 535.

6. *PHASEOLUS lunatus*. Legumina scymetarshaped, somewhat crescentshaped, smooth. *L.* a *Murr.* 656; sp. 1016. *Hort. kew.* iii. 29.—*Lour.* ii. 528.

7. *PHASEOLUS tunkinensis*. Stem very much branched. Folioles conic, small, thick. Vexillum revolute, of the colour of the calyx. *Lour.* ii. 529.

8. *PHASEOLUS nanus*. Stem erect, angular, pubescent. Folioles deltoideo-ovate. Upper lip of the calyx emarginate. Flowers racemose. Pedicles in pairs. Bractae of the pedicles in threes. *Obs.* 8152. In a garden.—*L.* sp. 1036. *Berg. mat. med.* n. 381. *Donn* 67. *Retz. obs.* iii. 38. n. 77.

*P.* caule erecto laevi, leguminibus erectiusculis compressis rugosis. *L.* ups. 213.

*P. vulgaris italicus humilis*, seu minor albus cum orbita nigricante. *Bauh. J.* ii. 258. No fig.—*Raii hist.* 885.

*P. niveus minor*, circa hilum nigra macula insignitus. *Bauh. J.* ii. 260, cop. from

P. III sive americanus elatior. *Clus. pann.* 726,  
 (which accords with the descr. of n. III Lobi americaniani minores sive pumiliones 725, but by no means  
 with n. III Lobi americaniani majores 725,) which  
*repr.* with an addition of fruit, in

P. peregrinus III. *Clus. hist.* ii. 224, &

P. peregrinus, fructu minore albo. *Ger. by Johns.*  
 1213, & cop. in

P. erectus. *Park. theatr.* 1057, accords in the colour  
 of the fruit, but differs in the stipulac, the number  
 of flowers on a peduncle, and the pendent fruit,  
 the latter possibly inaccuracies of the author and  
 engraver.

*PHASEOLUS nanus.* *Berg.* 604.

Phaseolus. *Dale* 217.

P. vulgaris. *Bry.* 304.

9. *PHASEOLUS partiflorus.* Folioles ovate. Vexillum pubescent. Pedicles solitary. *Obs.* 8154.  
 Specimen gathered by Dr. Wright in Jamaica.

*PHASEOLUS perennis,* floribus herbaceis minoribus, spicis alaribus et terminalibus, siliquis compressis tetraspermis, sutura altera rugosa. *Browne* 292. Introduced into Jamaica.

Lima Bean. *Long* 786. n. 124.

10. *PHASEOLUS radiatus.* Stem erect, terete. Flowers capitatae. Legumina cylindric, horizontal. *L. sp.* 1018; *mant.* 441. *Lour.* ii. 529. *Thunb. jap.* 278; *trav.* iii. 86; iv. 88.

P. zeylanicus, siliquis radiatim digestis. *Dill. hort.* 315. t. 235. f. 304.

*PHASEOLUS minimus.* *Rumph.* v. 386. t. 139.  
 f. 2.

Too. Kaempf. am. 837.

11. PHASEOLUS Max. Stem erect, angular, hispid. Legumina pendulous, hirtose. *L. sp.* 1018. *Hort. kew.* iii. 31.

P. caule recto anguloso hispido. *L. cliff.* 499, from Virginia.

(Cadelium. *Rumph.* v. 388. t. 140, is Dolichos Soia.)

**MUNGO**, sive P. orthocaulis. *Col. ap. Hern.* 887.

12. PHASEOLUS *Mungo*. Stem flexuose, terete, hirsute. Legumina capitate, hirtose. *L. a Murr.* 657; *mant.* 101. *Lour.* ii. 530.

**MUNGO**. *Garc.* 213; *ap. Clus. exot.* 236.

13. PHASEOLUS *sphaerospermus*. Stem erect. Seeds globular, with a coloured hilum. *L. sp.* 1018, from authors.

P. *erectus minor*, semine sphaericō albido hilo nigro. *Sloane cat.* 72; *hist.* i. 184. t. 117. f. 1. 2. 3. Legumina erroneously represented as flat.

P. *vulgaris italicus humilis*, seu *minor albus cum orbita nigricante*. *Raii hist.* 885.

P. *III*, sive *americanus elatior*. *Clus. pann.* 727, *cop. in*

P. *niveus minor circa hilum nigra macula insignitus*. *Bauh. J.* ii. 260, & repr. with the addition of a peduncle and 2 legumina, *in*

P. *peregrinus IIII*. *Clus. hist.* ii. 224, &

P. *peregrinus, fructu minore albo*. *Ger. by Johns.* 1213, which *cop. in*

*P. erectus.* Park. theatr. 1057.

*PHASEOLUS* *erectus*, siliquis gracilibus teretibus polyspermis, seminibus subrotundis hilo nigro notatis. Browne 292.

14. *PHASEOLUS tuberosus*. Stem scandent. Vexillum revolute. Root tuberous, fasciculate. Lour. ii. 528.

### 725. DOLICHUS.

*Uppermost petal with oblong callosities at the base.*

*Obs. 7145. Dod. Rumph.*

Dolichos. L.

#### 1. *Stem twining.* L.

1. *DOLICHUS Lablab.* Legumina ovato-scymitar-shaped. Seeds ovate; hilum bowed towards the other end of the seed. L. sp. 1019. Bot. mag. t. 896. H. K. iii. 31. Gærtn. ii. 323. t. 150. f. 2. Legumen.

*P. maximus perennis*, floribus spicatis albis speciosis, siliquis brevibus latis, semen russum hilo albido fere circumdante. Sloane cat. 68; hist. i. 177. t. 113. f. 4.

Leblap, sive Leblab. Clus. pann. 732, repr. in Phaseolus peregrinus XIII. Leblab. Clus. hist. ii. 227, &

Phascolus aegyptiacus. Ger. by Johns. 1214. Legumen and the uppermost seed.

*PHASEOLUS niger* Lablab. Alp. sol. 30. p. 2. t. 31, cop. in a Vesl. ii. 39. t. 21, &

Lablab. Vesl. 24.

*3 albus.* Corolla white. *Obs.* 8806. Specimen gathered by Dr. Wright in Jamaica.

*PHASEOLUS scandens, spicis laxis terminalibus, siliquis compressis tetraspermis, utraque sutura rugosa.* *Browne* 291.

*Phaseolus maximus perennis, floribus spicatis albis speciosis, siliquis brevibus latis, semen album hilo albido fere circumdante.* *Sloane cat.* 67; *hist.* i. 177. *t.* 113. *f.* 1. 2. 3.

2. *DOLICHUS bulbosus.* Folioles glabrous, multangular, dentate. *L. sp.* 1021. *Hort. kew.* iii. 33, in which works for foliis read foliolis.—*Lour.* ii. 534.

*Phaseolus nervicensis, foliis multangularis, tuberosa radice.* *Pluk. alm.* 292; *phyt.* *t.* 52. *f.* 4. No fructifications.

*CACARA bulbosa.* *Rumph.* v. 373. *t.* 132. *f.* 2.

3. *DOLICHUS purpureus.* Stem glabrous. Petioles pubescent. Lateral petals patent. *L. sp.* 1021? *Donn* 95? *Smith exot.* ii. 29. *t.* 74?—*Lour.* ii. 534. Stem hispid. Legumen glabrous.

4. *DOLICHUS albus.* Stem glabrous. Vexillum very broad. Legumina flat, fleshy. *Lour.* ii. 534.

*CACARA alba.* *Rumph.* v. 380. *t.* 137.

5. *DOLICHUS giganteus.* Legumina racemosc, hirsute, smooth. Seeds encompassed by the hilum. Leaves glabrous. Calyces hirsute, campanulate. *L. a Willd.* iii. 1041, from

*KAKU-VALLI.* *Rheede* viii. 63. t. 36.

6. DOLICHUS *pruriens*. Legumina racemose; valves somewhat carinate, hirtose. Peduncles in threes.  
*L. a Murr.* 657; *sp.* 1019; *mant.* 441. *Jacq. amer.* 201. *t.* 122. *Woodv.* iii. 468. *t.* 172. *Lour.* ii. 533. *Hort. kew.* iii. 32, where erase Horse-eye Bean or Doliehos, and read Cowitch Dolichos.

*Stizolobium spicis multifloris pendulis alaribus, floribus ternatis.* *Browne* 290. *t.* 31. *f.* 4, parts of fructification; 291. *par.* 2. 3. In all the islands of the West Indies.

*Phaseolus utriusque indiae, lobis villosis pungentibus, minor.* *Herm. prodr.* 364. *Sloane cat.* 69; *hist.* i. 37.

*Phaseolus americanus, foliis molli lanugine obsitis, siliquis plurimis hirsutie pungentibus, semine fusco punctato.* *Pluk. alm.* 292; *phyt.* *t.* 214. *f.* 1. A branch without fructifications, and fruit separate.

*Phaseolus orientalis, pruritum excitans hirsutie siliquarum, fructu nigro splendente.* *Pluk. alm.* 292.

*Phaseolus zurattensis, siliqua hirsuta, Couhage dicta.*  
*Raii hist.* 887.

*Phaseolus siliquis hirsutis.* *Park. theatr.* 1056. No fig.

*Cacara pruritus.* *Rumph.* v. 393. *t.* 142.

*Nai corana.* *Rheede* viii. 61. *t.* 35. *L. zeyl.* 539.

Stinging Beane. *Ger. by Johns.* 1215. No fig.

Branches twining, pubescent,  $\frac{1}{3}$  to  $\frac{1}{2}$  tenth of an inch broad. Leaves solitary, ternate, uppermost simple; folioles thin, pubescent above, villose underneath,

elliptico-ovate; margin entire and somewhat serpentine; lower half of the lateral folioles as broad again as the upper half; intermediate foliole somewhat smaller. *Petiolules* of the lateral folioles very short, that of the terminal foliole four times as long, with an articulation near the end. *Stipulae* setaceous, attenuate, brownish black, in pairs, one pair at the insertion of the lateral petiolules, the other pair at the articulation of the petiolule of the terminal foliole. *Peduncle* opposite to the leaf, shorter than the calyx, pubescent. *Pedicles* shorter than the peduncle, pubescent. *Calyx* campanulate; teeth 5, attenuate, 1 larger than the rest and emarginate at the end. *Legumen* so closely beset with softish bristles of a light mousecoloured brown as to give it the resemblance of the skin of an animal; bristles simple, cylindrical, near the end tapering to a fine point, transparent. *Obs.* 8276. Specimen gathered by Broughton, compared with one gathered by Dr. Wright in Jamaica, and with others in Sir Jos. Banks's herbarium gathered by Koenig, by the Moravians in Tranquebar in 1775 and 1778, by Prof. Jacquin, and by M. de Ponthieu in the West Indies.

*DOLICHOS*. *Pharm. lond. noviss.*—*Lew.* i. 403.

*Dolichos pruriens*. Rigid pubescence of the leguminæ. *Pharm. edin.*—*Brought. verm.* 29. *Lew. disp. by Dunc.* 220. *Murr. J.* i. 376. *Pears. R.* ii. 255. *Wright in med. journ.* viii. 253.

*Dolichos urens*. *Berg.* 605. *Monro* iii. 98.

*Stizolobium*. *Chamberlaine in med. journ.* vi. 313; *med. soc.* iii. 562; *phys. journ.* xiii. 87; *and chir. rev.* xi. 441.

*Siliqua hirsuta*. *Murr.* ii. 358.

Couhage. *Cochrane in med. comment.* ii, 82. *Dale* 217.

Cowhage. *Phys. journ.* iv. 567.

Cowitch. *Graing.* 9. 27. 47. 56.

7. DOLICHUS *urens*. Legumina racemose, hirtose, transversely lamellate. Seeds encompassed by the hilum. *L. sp.* 1020; *mant.* 441; *a Murr.* 658. *Jacq. amer.* 202. *t.* 182. *f.* 84, flowers and legumen; 8vo, 260. *H. K.* iii. 32, where erase Cowitch Dolichos, and read Horse-eye Bean or Dolichos.

*Phaseolus brasiliensis* frutescens, lobis villosis punctibus, maximus. *Herm. prodr.* 363. *Sloane cat.* 68; *hist. i.* 178.

Mucuna. *Maregr.* 18. In fruit.

Mucuna guacu. *Pis. bras.* 48. No fig.

*Phaseolus I nigritarum*. *Clus. exot.* 68.

(*Phaseolus hirsutus*, siliquis articulatis. *Plum. ic.* 216. *t.* 222, has dentate folioles and articulated legumina.

Kaku-valli, *Rheede viii.* 63. *t.* 36, is *D. giganteus*.)

*PHASEOLUS* siliquis latis hispidis et rugosis, fructu nigro. *Plum. amer.* 92. *t.* 107.

8. DOLICHUS *sinensis*. Peduncles multiflorous, erect.

Legumina pendulous, cylindric, torulose. *L. sp.* 1018. *H. K.* iii. 31. *Lour.* ii. 530.

*DOLICHUS sinensis*. *Rumph.* v. 375. *t.* 134.

9. DOLICHUS *unguiculatus*. Legumina capitate, somewhat cylindric, recurved and concave at the end. *L. sp.* 1019; *mant.* 441. *Lour.* ii. 531.

*H. K.* iii. 32. *Jacq. hort. i. t.* 23.

*CACARA nigra.* Rumph. v. 381. t. 138.

10. DOLICHUS *tuberousus*. Stem tetragonous. Legumina compressed, hirsute, racemose. Folioles subrotundo-rhombic, acuminate. *L. a Willd.* iii. 1045. *Lam.*

*Phaseolus americanus frutescens*, foliis glabris, lobis pluribus villosis pungentibus, fructu orbiculari plano hilo nigro ambiente. *Pluk. phyt.* t. 213. f. 2. A legumen seed and branch without fructifications.

*Zoophthalmum.* Browne 295.

*PHASEOLUS* radice tuberosa esculenta, siliquis quasi articulosis hirsutis. *Plum. ic.* 214. *t.* 220.

11. DOLICHUS *filiformis*. Folioles linear, obtuse, mucronate, glabrous, underneath pubescent. *L. sp.* 1021.

*DOLICHOS herbaceus minor*, foliis linearibus, siliqua polysperma compressa. Browne 294.

12. DOLICHUS *lignosus*. Stem perennial. Corymbi roundish. Obs. 8533. In Mr. Sitwell's garden,—  
*L. sp.* 1022, who characterises it as having legumina quite straight.—*H. K.* iii. 33. *Smith spic.* 19. *t.* 21. *Curt. mag.* *t.* 380, who describes and figures the legumina as bowed.

*Dolichos altissimus.* Lour. ii. 533.

*Dolichos caule perenni lignoso.* *L. cliff.* 360. *t.* 20.

*Corolla* pale pinkish purple; vexillum subrotundo-cordate, with 2 teeth at the base, and 2 fleshy appendages a little above the base of the lamina; teeth fleshy.  
Obs. 8533.

*Legumina* unripe, straight; upper margin straight, the lower curved. *Obs.* 5469. Specimen gathered in the garden of Fothergill. Hence it should seem that the legumina are sometimes straight and sometimes bowed.

*CACARA*, sive *Phaseolus perennis*. *Rumph.* v. 378. t. 136. Legumina slightly curved.

13. DOLICHUS *gladiatus*. Legumina racemose, ensiform, with 3 keels along the back, with a straight mucro. Seeds arillate. *L. a Willd.* iii. 1039. Annual. Seeds brown.—*Jacq. ic.* iii. t. 560. Cuspis slightly curved.

*Dolichos mutabilis*. *Sal. R. hort.* 334.

*Dolichos ensiformis*. *Lour.* ii. 531.

*LOBUS machaeroides*. *Rumph.* v. 376. t. 135. f. 1. Perennial. Seeds red.

Baram-mareca. *Rheede* viii. t. 44. Cuspis at the end of the legumen slightly curved.

14. DOLICHUS *tetragonolobus*. Legumina with 4 membranaceous angles. *L. sp.* 1020. *Lour.* ii. 532.

*LOBUS quadrangularis*. *Rumph.* v. 374. t. 133.

15. DOLICHUS *ensiformis*. Stem nearly erect. Legumina ensiform, with 3 keels along the back. Seeds arillate. *L. sp.* 1022; *a Murr.* 657. *Hort. kew.* iii. 33. *Jacq. coll.* i. 114, under *Dolichos acinaciformis*.

*Dolichos leguminibus gladiatis dorso sulcatis*. *L. cliff.* 360. From Jamaica.

*Phaseoli brasiliani*. *Ger. by Johns.* 1215, cop. in *Park. theatr.* 1057.

*Phaseoli parvi ex america delati.* *Ger. by Johns.*  
1215, *cop. in*

*Phaseoli parvi ex america.* *Park. theatr.* 1057?

**PHASEOLUS** suberectus major, siliquis maximis oblongis glabris, sutura altera nervo majori utrinque insignita. *Browne* 291.

*Phaseolus maximus*, siliqua ensiformi nervis insignita & semine albo membranula inclusa. *Sloane cat.* 68; *hist.* i. 177. t. 114. f. 1. 2: 3. *Legumina.*  
Stem described as climbing about every thing.

2. *Stem procumbent.* L. a Gmel.

16. **DOLICHUS roseus.** Stem creeping, ascending. Folioles roundish, shining. Flowers racemose. Legumina with 3 keels along the back. *Swartz. prodr.* 105; *ind. occid.* iii. 1243.

**DOLICHOS maritimus repens**, foliis orbiculatis nitidis, siliquis compressis, sutura altera trigona. *Browne* 293.

17. **DOLICHUS hastifolius.**—Stem procumbent. Leaves subhastate. Peduncles multiflorous, erect. *Lour.*  
**DOLICHOS hastatus.** *Lour.* ii. 539.

3. *Stem erect.* L.

18. **DOLICHUS Soia.** Stem erect, flexuose. Racemi axillary, erect. Legumina pendulous, hispid, mostly dispermous. *L. sp.* 1023. *Donn* 95. *Sul. W.* 34. *Jacq. coll.* i. 46; *ic.* i. *t.* 145. *Thunb. jap.* 292. *Lour.* ii. 537.

Cadelium. *Rumph.* v. 388. *t.* 140.

Daidsu. *Kuempf. am.* 837. *t.* 838.

**SOJA.** *Berg.* 606. *Dale* 217. *Linn.* 203.

Dolichos Soja. *Bry.* 300.

19. DOLICHUS *Catiang.* Stem erect. Legumina in pairs, linear, nearly erect. *L. mant.* 269. *Lour.* ii. 538.

*PHASEOLUS minor,* *Rumph.* v. 383. t. 139. f. 1.

Peru. *Rheede* viii. 75. t. 41.

Monks Beans. *Link trav.* §14.

## 726. CLITORIA.

*Corolla* resupinate; vexillum very large, patent, covering the alae. *L.*

1. CLITORIA *Ternata.* Leaves pinnate. Peduncles uniflorous. *From L. sp.* 1025, *and a Willd.* iii. 1068. *Hort. kew.* iii. 36. *Lour.* ii. 555.

*Phaseolus indicus, glycyrrhizae foliis, flore ample caeruleo.* *Commel. J. hort.* i. 47. t. 24.

*Flos Clitoridis ternatensibus.* *Breyn. cent.* 76. t. 30.

*Phaseolus indicus, glycyrrhizae foliis, flore caeruleo ample, sive Flos Clitoridis.* *Breyn. prodr.* i. 27.

Schonga-Cuspi. *Rheede* viii. 69. t. 38.

*FLOS CAERULEUS.* *Rumph.* v. 56. t. 31.

## 727. GLYCINE.

*Calyx* bilabiate; upper lip emarginate; lower lip trifid. The point of the *carina* reflecting back the vexillum. *Obs.* 6962. *L.*

## 1. Leaves ternate.

1. GLYCINE *subterranea*. : Stems prostrate, flexuose.  
Peduncles biflorous. *Froui L.* sp. 1023; *mant.*  
442, and *L. fil. dec. 37. t. 19. Lour.* ii. 558.  
Legumen trifolium, sub terra fructum edens. *Raii*  
*hist.* 919.  
(Manobi. *Laet* 568, is *Arachis hypogaea*.)  
*MUNDUBI d'Angola.* *Marcgr.* 43. No fig.

## 2. Leaves pinnate with an odd foliole. L.

2. GLYCINE *Apios*. Leaves bijugate and trijugate;  
folioles lanceolato-ovate, glabrous. Racemi shorter  
than the leaves. Stem herbaceous, twining. *Obs.*  
2976. Specimen gathered by Dr. Cutler in New  
England.—*L. a Willd.* iii. 1067; *sp.* 1025; *mant.*  
442. *Michaux* ii. 63.

*G. foliis pinnatis alternis, foliolis ovato-lanceolatis.*  
*L. ups.* 227. *Gron. virg.* 107.  
*G. radice tuberosa.* *Roy.* 391. *Gron. virg.* ed. i.  
85.

*Apios americana.* *Boerh.* ii. 53. *Corn.* 200. *t.* 201,  
*abr. in*

*Astragalus perennis spicatus americanus scandens*  
*caulibus, radice tuberosa.* *Hist. ox. s.* 2. *t.* 9.  
*row 1. f. 1.*

*MEDICAGO.* *Cutl.* 473.

3. GLYCINE *floribunda*. Leaves quinquejugate; fo-  
lioles ovate. Racemi longer than the leaves. Stem  
frutescent, twining. *L. a Willd.* iii. 1066, from  
authors.

*DOLICHOS polystachyos.* *Thunb. jap.* p. xxxiv.

## 728. PISUM.

*Calyx* quinquesfid. *Style* triangular, carinate and pubescent on the upper side, channelled underneath.  
*Obs.* 3850. *L.*

1. *PISUM decurrentis.* Leaves mostly conjugate; petioles decurrent. Peduncles uniflorous. *Obs.* 6021. Specimen from Dr. Boehmer.

*P.* petiolis decurrentibus membranaceis diphyllis.  
*L. ups.* 215.

*Ervilia sylvestris.* *Dod.* 512, *repr. in Ochrus*, sive *Ervilia*. *Ger. by Johns.* 1249, *and cop. in*

*Ochrus*, sive *Ervilia*, flore et fructu albo. *Park. theatr.* 1066.

*PISUM Ochrus.* *L. sp.* 1027. *H. K.* iii. 37. *Gou. hort.* 366. Near Montpelier.—*Krock.* n. 1155.

2. *PISUM americanum.* Leaves conjugate; folioles of the lower leaves lanceolate, acutely dentate; those of the upper leaves sagittate. Peduncles quadri-florous and quinqueflorous. *From Mill. Ph. dict. n. 5.* Stem angular, procumbent. Corollae blue. Brought by Anson from Cape Horn.—*Bry.* 305.

3. *PISUM biflorum.* Leaves pinnate. Petioles terete. Stipulae semicordate, crenate below. Peduncles biflorous and uniflorous. *Obs.* 3850. In a garden.

- P. sativum. *L.* sp. 1026. *Hort. kew.* iii. 37. *Lour.* ii. 539.  
Pisum. *Bauh. J.* ii. 295. No fig.  
\* album. Corolla white. *Obs.* 3850.—*Hort. kew.* iii. 37  $\alpha$   
P. album, fructu albo. *Boerh.* ii. 40.  
Pisum. *Blackw.* t. 83. *Cam. epit.* 213. *Fuchs.* 599.  
c. 240, cop. in  
Pisa majora alba. *Bauh. J.* ii. 299, & imit. in  
Cicer arietinum, quod vulgo P. nominant. *Trag.* 605.  
P. majus. *Dod.* 511, repr. in  
P. minus ex luteo virescens. *Lob. obs.* 516; ic. ii.  
66;  
P. angulosum hortorum. *Lob. obs.* 515, &  
P. excorticatum. *Ger. by Johns.* 1220, and cop. in  
P. sylvestre primum. *Park. theatr.* 1050. *Raii syn.*  
318. Cultivated in fields.  
P. minus I. *Tab. ic.* 496.  
P. minus II. *Tab. ic.* 497.  
Pisa. *Bauh. J.* ii. 297, cop. from  
P. minus. *Cam. epit.* 214. *Dod.* 512, repr. in  
*Ger. by Johns.* 1219, &  
P. vulgatius majus. *Lob. ic.* ii. 65.  
P. vulgare. *Park. par. t.* 523. *t.* 3.  
**PISUM.** *Berg.* 608. *Dale* 218. *Geoffr. suite* ii.  
7. *Linn.* 204. *Mill. Jos.* 350. *Schoepf* 111.  
Pisa. *Spielm.* 32.  
P. sativum. *Bry.* 304. *Pears.* *R. i.* 77.  
P. arvense, flore candido, fructu rotundo. *Rutty*  
394.  
Pease. *Brown, J.* ii. 249. *Cook in pk. tr. abr.*  
*by Hutt.* xiv. 59.  
Pois. *Chom.* 755,

- $\delta$  *cinereum*. Vexillum roseocoloured. Alae blackish purple. Seeds grey. *Obs.* 6019. Specimen gathered in a ploughed field.
- P. arvense*. *L. suec. n.* 639; *sp.* 1027. *Vaill. paris.* 160. *Magn. hort.* 160. *Krock. n.* 1156.
- Pisi pulchra* species, folio angulosō. *Bauh. J.* ii. 297.
- Pisi agrestis* alterum genus. *Trag.* 606. No fig.
- P. arvense*, flore roseo, fructu ex cinereo-nigricante. *Raii syn.* 318. Cultivated in fields.
- P. arvense*, flore roseo, fructu fusco aut ex cinereo nigricante. *Raii hist.* 891.
- Pisa minora* rubra variegata. *Bauh. J.* ii. 298. No fig.
- $\gamma$  *variegatum*: Seeds grey and reddish. From.
- P. arvensé*, flore roseo, fructu variegato: *Raii syn.* 318. Cultivated.
- P. tertium* genus *arvense*. *Raii hist.* 891.
- $\delta$  *rufum*. Vexillum roseocoloured. Alae blackish purple. Seeds rufous. *Obs.* 6020. In a garden.
- $\epsilon$  *umbellatum*. Vexillum white. Alae pink. *Obs.* 8180. In a garden.—*L. sp.*  $\delta$ ; *ups.* 215  $\delta$ .
- P. umbellatum*. *Boerh.* ii. 41. *Magn. hort.* 160.
- P. erectius comosum*. *Raii hist.* 891. *Bauh. J.* ii. 299. No fig.
- P. proliferum*. *Tab. ic.* 495, *imit. in*
- P. umbellatum*, sive *roseum*. *Park. par. t.* 523. *f.* 4, & *cop. in*
- P. umbellatum*. *Ger. by Johns.* 1220. *Boerh.* ii. 41. *Dill. ap.* *Raii syn.* 318. Observed by Du-bois cultivated in Dorsetshire.
- Seeds of the size of the smaller kinds of  $\alpha$ , when boiled purplish brown, well tasted. *Obs.* 8180.

- ¶ *quadratum*. Seeds angular. *From*  
*P. quadratum* Plinii. *Tab. ic.* 496. *Lob. ic.* ii. 66,  
*repr. in*  
*Pisi majoris alia icon.* *Dod.* 511, &  
*P. majus.* *Ger. by Johns.* 1219, *cop. in*  
*Pisa magna rubra variegata.* *Bauh. J.* ii. 298, &  
*abr. in*  
*P. saccharatum.* *Park. par. t.* 523. *f. 5.*  
*PISUM majus quadratum.* *Boerh.* ii. 40. *n. 1 to*  
*4. Magn. hort.* 160.—*Rutty* 394. *n. 2.*

4. *PISUM multiflorum*.—Leaves pinnate. Petioles  
flattish on the upper side. Stem angular. Stipulae  
sagittate. Peduncles multiflorous. *L.*  
*P. petiolis supra planiusculis, caule angulato, stipulis*  
*sagittatis, pedunculis multifloris.* *Cull.* 472.  
*P. marinum.* *L. lapp. n.* 272, but not within the  
limits of Lapland.—*Raii hist.* 892, (mispr. 894;)  
*syn.* 319. Near Hastings in Sussex, and observed  
by Camden near Dengeness in Kent.  
*P. spontaneum perenne repens humile.* *Hist. ox. s.*  
*2. t. 1. row 3. f. 5.*  
*P. sylvestre.* *Ger. by Johns.* 1220, *cop. in*  
*P. spontaneum maritimum anglicum.* *Park. theatr.*  
*1060.* Near Rumney in Kent.  
*P. aliud maritimum britanicum.* *Park. theatr.* 1060,  
from a fig. of Lobels. Near Rye and Pemsey in  
Sussex, at Guildford in Kent, and at Ingolne mills  
in Lincolnshire.  
*Pulse, or Pease.* *Ger. by Johns.* 1250, under *n. 3.*  
No fig. Recorded by Gesner and Stow as having  
been observed between Aldborough and Orford in  
Suffolk.

*Native* of the shores of the Baltic, of Holland, Dorsetshire, Sussex, Kent, Suffolk, possibly Lincolnshire, and of New England.

*PISUM maritimum.* *L. suec. n.* 640; *sp.* 1027.

*Fl. dan. t.* 338. *Roth germ. ii. b.* 173. *Geuns belg. n.* 47. *Bot. arr.* 766; *ed. iv.* 615. Found by Mr. Stackhouse between Portland island and Bridport in Dorsetshire—*Smith brit.* 760; *engl. t.* 1046; *spic. 8. t. 9.* Glabrous.—*Bry.* 306.

## 729. OROBUS.

*Calyx* with 5 divisions. *Style* flat, bearded on the upper side. *Obs.* 3523. 3861. 4990. *L.*

*Orobos.* *Diosc. l. 2. c.* 131.

### 1. *Without cirrhi.*

*Orobus. L.*

1. *OROBUS tuberosus.* Leaves bijugate and trijugate; folioles lanceolate. Stipulae semisagittate. Stem simple. *Obs.* 3523. In woods.—*L. suec. n.* 642; *sp.* 1028. *Curt. lond. i.* 53. *t. Bot. arr.* 768. *Scop. carn. n.* 883. *Fl. dan.* 781. *Smith brit.* 761; *engl. t.* 1153.

*O. radice tuberosa.* *Riv. tetr. t.* 59.

*O. sylvaticus, foliis oblongis glabris.* *Tourn. paris.* 511. *Dill. ap. Raii syn.* 324. *Boerh. ii.* 46.

*Lathyrus angustifolius, radice tuberosa.* *Loes.* 138. *t.* 37.

*Lathyrus arvensis, radicibus tuberosis.* *Park. theatr.* 1686, *cop. from*

*Astragalus sylvaticus.* *Ger. by Johns.* 1237. *Sibb.*

t. l. *Raii hist.* 916; *syn. ed.* ii. 191. *Thal.* 7. t. 1, *cop. in*  
*Lathyrus sylvestris lignosior.* *Park. theatr.* 1062,  
*and*

*Astragaloides.* *Bauh. J.* ii. 334.

*Stipulae* frequently with a tooth opposite to the place of insertion. *Nectarium* none as in *Vicia*. *Style* linear, slightly attenuate upwards, truncate, hirsute on the inner side; the apex inflex. *Leguminina* as soon as fully grown purplish pink. *Obs.* 3523.

*OROBUS tuberosus.* *Bry.* 37. *Krock.* n. 1160.  
*Orobus.* *Vog.* 221.

2. *OROBUS vernus.* Leaves pinnate; folioles elliptico-ovate, acuminate. *Stipulae* oblongo-semisagittate, entire at the margin. Stem simple. *Obs.* 3524. In Curtis's garden.—*L. suec.* n. 641; *sp.* 1028. *Hort. kew.* iii. 38. *Scop. carn.* n. 882. *Host* 394. *Jacq. vind.* 127. *Roth germ.* i. 304. *Poll.* n. 672. *Curt. mag.* t. 521. *Gou. hort.* 366. Near Montpelier.

*Astragalus Dioscoridis.* *Col. phytob.* 59. t. 60.

*Galega nemorensis verna.* *Bauh. J.* ii. 343. Near Geneva Montbeliard and Bologna.

*O. venetus.* *Park. par.* 338. t. 337. f. 13. *Blackw.* t. 208. f. 1.

*Phasiolus sylvarum.* *Dalech.* 472.

*O. pannonicus I.* *Clus. pann.* 736, *repr. in hist.* ii. 230, &c.

*O. sylvaticus vernus.* *Ger. by Johns.* 1247. *Thal.* 80. t. 6.

*O. pannonicus.* *Besl. hort. vern. ord.* 1. *fol.* 6.

*OROBUS vernus.* *Krock.* n. 1158.

2. *Cirrhose.* *Peduncles uniflorous & biflorous.*  
*Lathyrus. L.*

3. *OROBUS bimarginatus.* Leaves conjugate and bijugate. Legumina with 2 borders along the upper suture. *Obs.* 7507. In Mr. Shore's garden from seeds gathered in Russia.—*Obs.* 7508. Specimen in fruit from Mr. Boraston to whom it was given by Dr. Targioni Tozetti.

*Lathyrus sativus.* *L. sp.* 1030. *Hort. kew.* iii. 40.  
*Krock. n.* 1163. *Gou. hort.* 368. Near Montpelier.

$\alpha$  *caeruleus.* Corolla blue. *From Curt. mag. t.* 115.  
*Leaves* in some plants conjugate, in others bijugate.  
*Obs.* 3864. Specimens gathered in a garden.

$\beta$  *albus.* Corolla white. *Obs.* 7507. *L. sp.*  
*Lathyrus sativus, flore fructuque albo.* *Vaill. paris.*  
 115. *Boerh.* ii. 42. *Magn. monsp.* 150.

*Lathyrus, sive Cicercula.* *Dod.* 513, *repr. in*  
*Lathyrus angustifolius, flore albo.* *Ger. by Johns.*  
 1229.

*Ervum album et sativum.* *Fuchs.* 550, *cop. in*  
*Lathyrus anguloso semine.* *Bauh. J.* ii. 306, &  
*Aracus, sive Cicera.* *Dod.* 513, *which repr. in*  
*Lathyrus angustifolius, flore purpureo.* *Ger. by*  
*Johns.* 1230, (the descriptions in the 2 last authors  
 seeming to belong to some other species or variety;) &  
*cop. in*

*Cicercula flore albo vel purpureo.* *Park. theatr.*  
 1065.

*Stem* square; 2 opposite angles bordered. *Stipulae*  
 semisagittate; lobes ensiform, with a triangular horizontal tooth in the sinus. *Leaves* conjugate; petiole  
 triquetrous, the margins bordered; folioles lanceolato-

ensiform,  $2\frac{1}{2}$  as long as the petiole. *Peduncles* axillary, solitary, uniflorous, bidentate at the end. *Pedicles* solitary, terminating the peduncle. *Calyx* somewhat longer than the pedicle. *Corolla* with 2 slightly prominent angles opposite to the lower petals. *Style* oblique. *Stigma* linear, bearded on the upper side. *Obs.* 7507. July 22.

*LATHYRUS*. *Clegh.* 16.

*Lathyrus sativus*, flore fructuque albo, *Magn. hort.* 112.

3. *Cirrhose*. *Peduncles uniflorous biflorous and triflorous*.

4. *OROBUS Lens*. *Calyx* longer than the corolla.

Seeds lenticular. *Obs.* 7111. Specimen gathered in Mr. Hunter's nursery, from seeds brought out of Germany.

*Ervum Lens*. *L. sp.* 1039, *Hort. kew.* iii. 47.  
*Scop. carn.* ii. 67.

*Lens vulgaris*. *Vaill. paris.* 114. *Boerh.* ii. 44.

*Lens minor*. *Dod.* 517, *repr. in Ger. by Johns.* 1224.

*Leaves*, lower without cirri. *Calyx* quinquepartite, just longer than the corolla, slightly hirsute. *Corolla*, uppermost petal obovate; the 2 lateral ones as long as the uppermost. *Stamina* diadelphous. *Style* linear, slightly hirsute on the upper side, inflex at the end. *Obs.* 7112. Specimen from Dr. Boehmer.—*Legumen* dispermous, sometimes monospermous. *Seeds* rufous, a little more than 2 tenths of an inch broad. *Obs.* 7111.

*LENS*. *Fuchs. c.* 330. 814, *cop. in Bauh. J.* ii. 317. f. 1. *Raii syn.* 323. Cultivated in fields in

Cambridgeshire and Huntingdonshire; *hist.* 904.

*Trag.* 628. Lower leaves erroneously represented as cirrhose.—*Alst.* ii. 344. *Dale* 219. *Linn.* 204. *Mill. Jos.* 262. *Murr.* ii. 369. *Rutty* 280. *Vog.* 177.

Lentes. *Berg.* 613. *Spielm.* 30.

Lens arvensis minor. *Geoffr.* iii. 701.

Ervum Lens. *Bry.* 301. *Krock. n.* 1178.

Lentille. *Chom.* 753; *suppl.* 202.

$\delta$  major. Seeds twice as large as those of  $\alpha$ . From French Lentil. *Mill. Ph. dict. n. 2.* Plant twice as large as  $\alpha$ .

Lens major vulgaris, semine cinereo et nigro variegato. *Boerh.* ii. 44.

Lens. *Dod.* 517, *repr. in*

Lens major. *Ger. by Johns.* 1224, & cop. in *Park. theatr.* 1068. *Raii hist.* 904; *syn.* 323. Differs from  $\alpha$  chiefly in size.—*Vaill. paris.* 114. Specifically different from  $\alpha$

LENS arvensis major. *Geoffr.* iii. 702.

#### 4. Cirrhose. Peduncles with more than 3 flowers.

Lathyrus. L.

5. OROBUS bulbosus. Legumina glabrous. Leaves conjugate; folioles oval. Stem not bordered. *Obs.* 7928. In Mr. Knowlton's garden.

Lathyrus arvensis repens tuberosus. *Tourn. paris.* 281. *Vaill. paris.* 114. *Boerh.* ii. 43. In Holland.

Terrae glandes. *Dod.* 540, *repr. in Lob. obs.* 518; *ic.* ii. 70, & *Ger. by Johns.* 1237, & cop. in

Lathyrus arvensis, sive Terrae glandes. *Park. theatr.* 1061.

*Arachydna Theophrasti.* *Col. ecphr.* i. 304. t. 301.  
*Apios.* *Fuchs.* 137. c. 46, *cop. in Trag.* 631, *Da-*

*lech.* 1596, &

*Chamaebalanus leguminosa.* *Bauh. J.* ii. 324. *Raii*  
*hist.* 895. The account of its virtues misplaced  
at p. 899. l. 8.

*Calyx* quinquefid; segments patent, acute, straight,  
the 4 upper triangular, the lowermost ensiform, some-  
what longer. *Style* compressed, ascending, from a  
little below the middle hirsute to the end. *Obs.*  
7928.

*Native* of Italy, Switzerland, France, the Low  
Countries, Holland, and Germany.

*LATHYRUS tuberosus.* *L. sp.* 1033. *Hort. kew.*  
iii. 42. *Curt. mag.* t. 111. *Gort. belg.* *foed.* n.  
599.—*Bry.* 36.

*Glandes terrae.* *Berg.* 611.

6. *OROBUS pratensis.* Leaves conjugate; folioles  
lanceolate. Stem bordered. Cirri mostly simple.  
Stipulae sagittate and semisagittate. *Obs.* 3861.  
In bushes.

*Lathyrus pratensis.* *L. suec.* n. 647; *sp.* 1033.  
*Curt. lond.* iii. 44. t. 170. *Walc. t. Bot. arr.* 771.  
*Fl. dan.* t. 527. *Mart. rust.* t. 52. *Riv. tetr.* t.  
43. *Smith brit.* 765; *engl.* t. 670.

*Lathyrus luteus silvestris dumetorum.* *Bauh. J.* ii.  
304. *Raii hist.* 894; *syn.* 320.

*Lathyrus sylvestris, flore luteo.* *Ger.* by *Johns.*  
1231, *cop. in*

*Lathyrus major perennis.* *Park. theatr.* 1061.

*Calyx* obtuse at the base; upper sinus semicircular.  
*Filaments*, the simple filament distinct at the base.

*Nectarium* none as in *Vicia*. *Style* linear, somewhat attenuate upwards, truncate at the end, hirsute on the upper side. *Obs.* 3861.

*LATHYRUS sylvestris*. *Dale* 218.

### 730. VICIA.

*Calyx* quinquefid. *Stigma* bearded transversely underneath. *Legumen* unilocular. *Obs.* 3671. 4587, 4591. 4583. *L.*

1. *Flowers axillary, nearly sessile.* *L.*

1. *VICIA sativa*. Legumina nearly sessile, 2 together and solitary. Germen pubescent. Seeds glabrous. Stipulae with a depressed spot underneath. *Obs.* 4583. Cultivated in fields.—*L. sp.* 1037. *Bot. arr.* 776.

α *nigra*. Folioles of all the leaves obcordato-cuneiform. Seeds black. *Obs.* 151. Cultivated in fields.

*V. sativa*. *L. sp.* 1037 α. *Huds.* 318 α. *Sibth. o.r.* n. 625. *Walc. t. Smith brit.* 769 α. *Bot. arr.* 776 α; 777. note n. 1. *Willich obs. n.* 118, who justly remarks that this variety has not hitherto been found wild.

*V. leguminibus erectis, petiolis polyphyllis, foliolis acumine emarginatis, stipulis dentatis.* *L. ups.* 218 β

*V. sativa vulgaris, semine nigro.* *Tourn. paris.* 370. *Vaill. paris.* 202. *Boerh. ii.* 43. In Holland.

*V. vulgaris sativa.* *Bauh. J.* ii. 310. *Park. theatr.* 1072, cop. from

*VICIA*. *Dod.* 521, which repr. in *Clus. hist.* ii. 235, *Lob. obs.* 522; *ic.* ii. 75, & *Ger.* by *Johns.* 1227. *Raii hist.* 900; *syn.* 320. *Cam. epit.* 320. —*Dale* 218. *Geoffr. suite* iii. 310. *Mill. Jos.* 451.

*V. sativa vulgaris, semine nigro.* *Chom.* 750.

*s alba.* Seeds white. *From authors.* *L. sp.* under  $\alpha$ ; *suec. n.* 654  $\alpha$  Amongst corn.—*Hort. kew.* iii. 45  $\beta$ . *Huds. \beta* No place of growth mentioned.

*V. sativa alba.* *Boerh.* ii. 43.

*V. sativa with white seeds.* *Mill. Ph. dict. n.* 5.

*V. albo semine.* *Raii hist.* 900. *Bauh. J.* ii. 311. No fig. Some of the folioles nearly round, others long and narrow.

*VICIA alba.* *Dale* 219. *Geoffr. suite* iii. 311.

*V. sativa alba.* *Chom.* 750.

*\gamma linearifolia.* Folioles linear. *Obs.* 3355. In Barlow woods near Chesterfield.

*V. sativa.* *L. suec. n.* 654  $\beta$ ; *sp.* 1037  $\beta$  *Bot. arr.* 776  $\gamma$ ; 777 *note n.* 3. *Smith brit.* 770  $\beta$

*V. sativa angustifolia.* *Willich obs. n.* 118, who says that the seeds sown in the Gottingen garden afforded plants all the folioles of which were retuse and shorter than those of the plant which yielded the seeds.

*V. angustifolia.* *Riv. tetr. t.* 54.

*V. vulgaris silvestris, semine parvo et nigro, frugum,* *Bauh. J.* ii. 312.

*V. sylvestris, sive Cracca major.* *Raii hist.* 902; *syn.* 321. *Ger.* by *Johns.* 1227, repr. from

*Craccae primum genus.* *Dod.* 533, which cop. in *Arachus, seu Cracca major.* *Park. theatr.* 1071, & repr. in

*ARACUS.* *Lob. obs.* 522, & *ic.* ii. 75.—*Dale* 219.

2. *Racemi sessile.*

**2. VICIA Faba.** Cirrhi flat, subulate. Margin of the folioles entire. *Obs.* 3676. In a garden.—*L. sp.* 1039. *Hort. kew.* iii. 46. *Lour.* ii. 540.

**α bicolor.** Corolla white with black spots. *Obs.* 3676. *Faba sativa.* *Dalech.* 451. *Park. par. t.* 523. *f. 1, cop. from*

*Faba.* *Tab. ic.* 493. *Boerh.* ii. 45. *Raii hist.* 909; *syn.* 323. *Cam. epit.* 206. *Fuchs.* 384. *c.* 147, *cop. in*

*Faba, Cyamos leguminosa.* *Bauh. J.* ii. 278, & *imit. in*

*Faba germanica.* *Trag.* 618.

*Bona, sive Phaselus major.* *Dod.* 504, *repr. in*

*Faba major recentiorum.* *Lob. obs.* 509; *ic.* ii. 57, *and*

*Faba major hortensis.* *Ger. by Johns.* 1209.

*Faba major vulgaris.* *Vaill. paris.* 52.

*Stems angular, fistular, without isthmi.* *Cirrhous* 6 times shorter than the folioles, sessile, straight, inserted at the base of the terminal petiolule. *Racemi sessile, axillary.* *Obs.* 5409. In a garden.

**FABA.** *Pharm. austriaco-prov.* 37. *suec.*—*Alst.*

ii. 343. *Berg.* 611. *Dale* 219. *Geoffr.* iii. 458.

*Lew. disp. by Dune.* 349. *Linn.* 204. *Murr.* ii.

368. *Rutty* 189. *Schoeps* 111. *Schrod.* 588. *Vog.*

161.

*Fabae.* *Herm.* 425. *Quar. febr.* 144. *Spielm.* 29.

*Faba major.* *Mill. Jos.* 195.

**V. Faba.** *Bry.* 307. *Pears. R.* i. 84.

*Feve.* *Chom.* 748; *suppl.* 201.

**CINERES** stipitum fabarum. *Boecl. ap. Herm.*

427.

*Salia ex lixiviis herbarum crematarum praeparata.*  
*Mead. mon. i. 97.*

$\beta$  *equina.* Seeds smaller and less compressed than those  
 of  $\alpha$ . *From memory.—L. sp.  $\beta$*

*Faba minor, sive equina.* *Raii hist. 909; syn. 323.*  
*Vaill. paris. 52.*

Common Beane. *Johns. in Ger. by Johns. 1210.*  
 No fig.

*FABA minor.* *Lob. adv. 393.* No fig.—*Mill.*  
*Jos. 196.*

### 731. ERVUM.

*Calyx quinquefid.* *Style filiform, hirsute all round*  
*just below the stigma.* *Legumen unilocular.* *Obs.*  
*4582.* *L.*

Cracca. *Dill. ap. Raii syn. 322.*

1. ERVUM *Ervilia.* Leaves pinnate with an odd one.

*Germen undulato-plicate.* *L. sp. 1040.* *Hort.*  
*kew. iii. 48.* *Roth germ. i. 322; ii. pars ii. 222.*  
*Mill. Ph. dict. n. 1.* *Gou. hort. 374.* Near Mont-

pelier.

*Vicia Ervilia.* *L. a Willd. iii. 1103.*

*E. seminibus undulato-plicatis.* *Ger. Lud. 500.*

*Cicer pistillorum germinibus undulato-plicatis.* *L.*  
*ups. 224.*

*E. verum.* *Cam. hort. 57.* *Tourn. inst. 398.* *Vaill.*  
*paris. 51.* *Boerh. ii. 47.*

*Mochus, sive Cicer sativum.* *Dod. 514, cop. in*  
*Orobus vulgaris herbariorum.* *Park. theatr. 1078,*  
*& repr. in*

*Orobus receptus herbariorum.* *Ger. by Johns. 1225.*

*Lob. obs.* 519, & *ic.* ii. 72; *adv.* 400. *Magn. monsp.* 196. *Raii eur.* 195. In fields about Montpelier and Geneva.

**Orobus**, sive *E. multis.* *Bauh. J.* ii. 321. *Raii hist.* 915.

**Orobus.** *Matth.* 432, *cop. in Dalech.* 468, & *imit. in Matth. a C. B.* 343, which *repr. in* *E. sive Orobus.* *Tab. ic.* 501.

**ERVUM.** *Tourn. inst. l.* 221. *L. cliff.* 370. *Hall. hist.* i. 182. *n.* 420. *Cam. epit.* 215.—*Alst.* ii. 343. *Linn.* 205. *Murr.* ii. 371. *Vog.* 177.

**Orobos.** *Dale* 221. *Geoffr. suite.* i. 283. *Herm.* 421. *Mill. Jos.* 323. *Rutty* 368.

**Orobe.** *Chom.* 749.

## 732. CICER.

*Calyx* quinquefid. *Style* filiform, glabrous above.  
*Obs.* 7106. 4582. *L.*

1. **CICER arietinum.** *L. sp.* 1010. *Bauh. J.* ii. 292. *Dod.* 515, *repr. in*

*Arietinum* *Dioscoridis.* *Lob. ic.* ii. 71, &

*C. sativum arietinum.* *Lob. obs.* 519, *cop. in*

*C. sativum*, sive *arietinum nigrum rubrum vel album.* *Park. theatr.* 1076, & *repr. in*

*C. sativum.* *Ger. by Johns.* 1222. *Raii hist.* 917; *eur.* 96. Cultivated in Malta, Sicily, and Italy.

*C. sativum*, flore ex purpura rubente, semine rubro. *Boerh.* ii. 48.

**Cicer.** *Cam. epit.* 204.

Leaves pinnate, with an odd foliole. Peduncles solitary, unisporous, pubescent; hairs clavate. *Brac-*

*lea* 1, a little above the middle of the peduncle. *Calyx* pubescent, quinquefido-quinquepartite; segments ensiform; hairs clavate. *Corolla* one sixth longer than the calyx; petals lineate; uppermost subrotundo-obovate, with a very short acumen at the end; 2 lateral ones one fourth shorter than the uppermost; 2 lowermost one sixth shorter than the lateral ones. *Stamina* diadelphous, as long as the 2 lowermost petals. *Filaments*, the lower with 9 lines terminating in the 9 segments. *Germen* oval, hirsute. *Style* filiform, deflex and then ascending, the lower half hirsute. *Stigma* roundish, gibbous on the side next the uppermost petal, microscopically tuberculate; tubercles round, transparent. *Legumen* oblongo-oval, dispermos. *Obs.* 7106. Specimen from Germany.

*CICER*. *Pharm. austriaco-prov.* 30.—*Alst.* ii.

342. *Berg.* 614. *Herm.* 422. *Linn.* 205. *Murr.* ii. 372. *Rutty* 122. *Schrod.* 565. *Vog.* 175.

*Cicera*. *Spielm.* 29.

*C. arietinum*. *Bry.* 299.

*C. sativum*, sive *arietinum nigrum rubrum vel album*, *Geoffr.* iii. 317.

ꝝ *album*. Seeds white. *From authors.*

*CICER* *album*. *Dale* 222. *Mill.* *Jos.* 136. *Schrod.* 565.

*C. sativum*, flore candido. *Chom.* 231; *suppl.* 78.

ꝝ *rubrum*. Seeds red. *From authors.*

*CICER* *rubrum*. *Chom.* 231; *suppl.* 78. *Dale* 222. *Schrod.* 565.

ꝝ *nigrum*. Seeds black. *From authors.*

*CICER* *nigrum*. *Dale* 222. *Schrod.* 565.

## 733. VATAIREA.

*Legumen* not opening, monospermous, rugose on one side. *From*

1. VATAIREA guianensis. *Aubl.* ii. 755. t. 302.

## 734. GEOFFREA.

*Calyx* semiquinquesfid. *Drupe.* *From L.*

1. GEOFFREA spinosa. Spinose. *From Swartz.* *prodr.* 106. *L.* sp. 1043. *Jacq. amer.* 207. t. 180. f. 62, a flower and drupe; 8vo, 266.

*UMARI.* *Pis. bras.* 121, *repr. in Marcgr.* 121, & *cop. in ind.* 174. In fruit.

Umari, vel Camarinhas. *Raii hist.* 1518.

2. GEOFFREA obtusifolia. Folioles oblong, obtuse. *From*

GEOFFRAEA surinamensis. *L.* a *Willd.* iii. 1130.—*Bondt*, account from in *med. comment.* xiii. 1.

Geoffroya surinamensis. *Murr.* vi. 103.

3. GEOFFREA acutifolia—Folioles lanceolate. *Swartz.*

*G.* inermis. *Swartz.* *prodr.* 106; *ind. occid.* iii. 1255. *Hort. kew.* iii. 52. *L.* a *Willd.* iii. 1130.

*G.* jamaicensis inermis. *Wright in ph. tr.* lxvii. 507. t. 10, *abr. in Woodv.* ii. 306. t. 112.

Spigelia. *Browne* 367?

Andira Ibaiariba, sive Angelin. *Pis. bras.* 81. t. Leaves trijugate, with an odd one.

Andira Ibiariba. *Marcgr.* 100. No sig.

Andira, vulgo Angelyn. *Raii hist.* 1687.

Leaves pinnate, those near the panicles quadrigulate, with an odd one; folioles ovato-lanceolate, acuminate. *Obs.* 8275. Specimen gathered by Dr. Wright in Jamaica.—*Folioles* sometimes acuminate. *Specimens* in Sir Jos. Banks's herbarium, gathered by Dr. Wright in Jamaica, and by M. De Ponthieu in Dominica.

*Native* of Jamaica, Martinico, and Dominica.

*GEOFFRAEA*. *Lew.* i. 462. *Rush* i. 185.

*Geoffraea incernis*. Bark. *Pharm. edin.*—*Lew. disp.* by Dunc. 228. *Murr. J.* i. 379; ii. 45. *Pears. R.* ii. 257. *Wright in med. journ.* viii. 256.

*Geoffroya jamaicensis*. *Murr.* vi. 93.

Cabbagebark tree. *Macdonald & Donald Monro in med. comment.* ii. 96. *Wright in ph. tr. abr.* by Hutt. xiv. 200, & account from *in med. comment.* v. 400.

Wild Cabbage or Bulgewater tree. *Duguid in phys. ess.* ii. 290.

Jamaica Cabbage tree. *Rush* i. 185.

Mountain Cabbage tree. *Graing.* 28.

Cabbage tree. *Anderson in med. comment.* iv. 84. *Rush in med. comment.* i. 328.

Angelina. *Murr.* vi. 171?

Angeline tree. *Grieve in med. comment.* ix. 365? *Monro* iii. 18?

## 735. ROBINIA.

*Calyx* with 5 divisions. *Stigma* villose and glabrous.

*Legumen* unilocular, polyspermous. *Obs.* 4940.  
7149. *L.*

1. *Leaves abruptly pinnate.*

1. ROBINIA *Caragana*. Peduncles simple. Leaves from quadrijugate to sexjugate. Petioles unarmed. Legumina cylindric. *Obs.* 8804. Specimen gathered in Fothergill's garden, without fructifications.—*L. a Willd.* iii. 1135; *sp.* 1044. *Hort. kew.* iii. 53. *Mill. Ph. dict. n.* 11.  
*R. pedunculis simplicissimis, foliis pinnatis. L. ups. 212.*

*ROBINIA* *Caragana*. *Krock. n.* 1187.

2. ROBINIA *flava*. Peduncles triflorous, in threes, terminal. Leaves mostly octojugate. Stem unarmed. *Lour. ii.* 556.

2. *Leaves pinnate with an odd foliole.*

3. ROBINIA *Pseudacacia*. Flowers racemose. Pedicels uniflorous. Stipulae spinose. Legumina glabrous. *L. a Willd.* iii. 1131; *sp.* 1043; *mant.* 444. *Mill. Ph. dict. n.* 1. *Hort. kew.* iii. 53.

*R. aculeis geminatis. Gron. virg.* 82.

*Acaciae affinis virginiana spinosa, siliqua membranacea plana. Pluk. alm.* 6; *phyt. t.* 73. *f.* 4.

*Acacia major. Munt. phyt.* 3. *t.* 8.

*Acacia virginiana, siliquis glabris. Raii hist.* 1719,  
*from*

*Arbor siliquosa virginensis spinosa, Locus nostratibus dicta. Park. theatr.* 1550. A branch without fructifications.

*Pseudoacacia vulgaris. Tourn. inst.* 619. *t.* 417.

Vaill. *paris.* 165. *Seb.* i. 23. t. 15. f. 1. *Boerh.* ii. 39,

*Acacia americana*, foliis coluteae, monococcos, siliquis echinatis. *Herm. hort.* 5. *Raii hist.* 1719. *Tourn. hort.* 270.

*Acacia americana* Robini. *Raii dendr.* 101. *Corn.* 171. t. 172, *cop. in*

*Pseudoacacia americana* Robini. *Park. theatr.* 1550, with the addition of a legumen containing 1 and 2 seeds, received from Robinus. (The separate flowers with a vexillum as long again as the alae and carina, and the racemus with prickly legumina described by Cornutus as monospermous, belong to some other plant.)

*Anagyris americana spinosa*, floribus albis odoratis. *Herm. prodr.* 311, where the erroneous specific character of the hort. is noticed as a mistake adopted from *Coronatus*.

(*Pseudoacacia siliquis glabris*. *Boerh.* ii. 39, being marked as a greenhouse plant is probably a different species.)

*R. echinata*. *Mill. Ph. dict.* n. 2, probably inserted in consequence of believing that a plant corresponding with the specific character of *Herm. hort.* once grew in the Fulham garden.)

*Calyx* quinquedentate, pubescenti-villöse; 3 lower teeth triangular, acuminata, 2 upper obsolete, with a slight emarginature between them. *Stamina* diadelphous. *Germen* pedunculate, polyspermous. *Style* nearly terete, ciliate along the inner side for one third of its length to near the end and on the outer side just below the end. *Stigma* round, hirsute. *Obs.* 7149. Specimen gathered in a garden.—*Style* hirsuta.

at the end and a little below on the upper side. *Obs.* 7180. Specimen from Prof. Jos. F. Jacquin.

**PSEUDO-ACACIA.** *Dale* 344. *Geoffr. suite* ii. 95. *Schoepf* 112.

4. **ROBINIA amara.** Racemi elongate. Pedicles in threes. Leaves mostly quinquejugate. Stem unarmed. *Lour.* ii. 556.

### 736. COLUTEA.

*Calyx* quinquefid. *Style* carinate underneath, villose on the upper side. *Legumen* inflated. *Obs.* 5202. *L.*

1. **COLUTEA arborescens.** Shrubby. Folioles oval-obcordate and obovate. Prominencies at the base of the uppermost petal as long as the unguis. *Obs.* 5202. In a garden.—*H. K.* iii. 55. *L. sp.* 1045. *Curt. mag. t.* 81. *Gou. hort.* 364. Near Montpelier.

*Colutea.* *Raii eur.* 104. In Italy in several places, on the side of Mount Vesuvius among ashes and pumice where scarcely any other plant grows.—*Dod.* 772, repr. in *Ger. by Johns.* 1299, & cop. in *C. vesicaria vulgaris.* *Park. theatr.* 226, &

*C. vesicaria.* *Bauh. J. i. b.* 380. *Vaill. paris.* 40. *Boerh.* ii. 39. *Raii hist.* 1720.

*Colytea, sive Colutea.* *Fuchs.* 436. c. 170.

*Bracteae* 2, at the base of the calyx, minute, subulate. *Calyx* semiquinquefid; sinuses semi-circular; segments acuminate, triangulari-subulate. *Corolla,* carina obtuse at the end, somewhat

longer than the alae. *Filaments* ascending. *Style* triquetrous, flat on the upper side, villose at the 2 upper edges. *Stigma* hooked. *Obs.* 5202.—*Folioles* obovate. *Obs.* 5869. Specimen from Broussonett.

*COLUTEA*. *Dale* 344. *Mill.* *Jos.* 146. *Vog.* 99. *C. arborescens*. *Coste* and *Willem*, *in med. comment.* v. 298. *Krock.* n. 1188.

*Senna mauritanorum*. *Chom.* 42.

*Pseudo-senna*. *Boerh.* 468.

### 737. GLYCYRRHIZA.

*Calyx* bilabiate; upper lip tripartite; lower lip entire, *Legumen* ovate, compressed. *L.*

1. *GLYCYRRHIZA glabra*. *Legumina* glabrous. *Stipulae* none. *L.* sp. 1046; *a Murr.* 669. *Hort. kew.* iii. 57. *Lour.* ii. 543. *Woodv.* iii. 458, t. 167. *Gou. hort.* 377. Near Montpellier.  
*G. siliquosa*, vel *germanica*. *Boerh.* ii. 47.  
*G. vulgaris*. *Raii hist.* 910. Cultivated near Pontefract in Yorkshire and Worksop in Nottinghamshire.—*Dod.* 339, *repr. in ed.* ii. 341, *Ger. by Johns.* 1302,  
*G. siliquosa*. *Lob. obs.* 529, & *ic.* ii. 86, & *cop. in G. vulgaris siliquosa*. *Park. theatr.* 1098, the entire plant and the upper of the 3 inner figures.  
*G. non echinata*. *Dalech.* 248.  
*Glycyrrhiza*. *Fuchs.* 191. c. 70, *impr. in G. radice repente, vulgaris germanica*. *Bauh. J.* ii. 328.  
*Dulcis radix*. *Trag.* 935. with the sig. of a cake

similar to our Pontefract cakes bearing the impression of the imperial eagle.

**GLYCYRRHIZA.** Liquorice. Root. *Pharm-lond.* & *noviss.*—*Alst.* i. 451. *Cull.* ii. 406. *Dale* 220. *Geoffr.* ii. 64. 730. *Gillibert, account from in med. journ.* v. 131. *Heb.* 328. *Herm.* 148. 709. *Hill* 620. 788. *Lew.* i. 469. *Mill. Jos.* 215. *Monro* iii. 119; ii. 451. *Rutty* 220. *Schrod.* 597. *Spielm.* 456.

Liquiritia. *Berg.* 615. *Carth.* ii. 180. *Linn.* 205. *Ploucq. bibl.* i. 623. *Quar. anim.* 36. 37. 42 to 45. 84. 86 to 88. 91. 112. 113. 115. 131. *Stoll mcd.* ii. 234. 379; iii. 23. *Vog.* 202.

G. glabra. Root. Extract. *Pharm. edin.*—*Lew. disp. by Dunc.* 228. *Murr. J.* i. 386. *Pears. R. ed.* ii. 295.

G. sive Liquiritia. *Murr.* ii. 374.

Liquorice. *Chalm.* i. 92; ii. 120. *Und.* i. 187\*.

Reglissee. *Chom.* 88.

2. **GLYCYRRHIZA echinata.** Legumina echinate. Flowers capitate. Stipulae subulate. Folioles elliptic, cuspidate, glabrous underneath. *Obs.* 8278. Specimen gathered in the Vienna garden.—*L. a Murr.* 669; *sp.* 1046. *Jacq. hort.* i. 41. *t.* 95. *Gaertn.* ii. *t.* 148. *Hort. kew.* iii. 56. *Raii hist.* 914. *Park. theatr.* 1098, the 2 lower inner figures, a head in fruit and legumina, *cop.* from

G. vera Dioscoridis. *Dod.* 339, which repr. in *ed.* ii. 341,

G. echinata Dioscoridis. *Lob. obs.* 528; *ic.* ii. 85, & *Ger.* by *Johns.* 1302, *cop.* in

G. echinata Dodonaei. *Dalech.* 247, & *abr.* in

- G. Dioscoridis echinata, non repens. *Bauh. J.* ii.  
327.  
G. echinata Matthioli. *Dalech.* 247.  
Dulcis radix. *Cam. epit.* 423.  
*GLYCYRRHIZA* echinata. *Berg.* 617.  
Liquiritia. *Pharm. austriaco-prov.* 46.  
Glycyrrhiza. *Murr.* ii. 379.  
Radix dulcis. *Dale* 224.

3. *GLYCYRRHIZA asperrima*. Legumina glabrous?  
Folioles elliptic, cuspidate. Stem hispid, scabrous.  
*L. fl. suppl.* 330. *Pall. reise* iii. t. *G. g. f.* 1.  
In flower.—*f.* 2. In fruit.  
G. hispida. *Pall. reise* iii. 754.  
*GLYCYRRHIZA* aspera. *Pall. reise* i. 499. *t. I.*  
*f.* 3. In fruit.

## 738. CORONILLA.

*Calyx* bilabiate; upper lip semibifid; segments connate; lower lip semitrifid. *Vexillum* scarcely longer than the alae. *Lomentum* terete, articulated, straight. *L. a Willd.* *L.*

### 1. Flowers racemose. *L. a Willd.*

1. *CORONILLA Sesban*. Racemi multiflorous. Folioles linear, obtuse, mucronate. Petioles smooth. Lomenta siliiform, terete. Stem fruticose. *L. a Willd.* iii. 1147, from authors.  
Aeschynomene Sesban, *L. sp.* 1061; *mant.* 448.  
*Hort. kew.* iii. 62.  
Sesban foliis hedusari. *Bauh. J.* i. b. 386. No fig.

*SESBAN.* *Alp. aeg. fol. 33. p. 2. t. 34, cop. in a Vesl. ii. 42. t. 24. Raii hist. 926.*

2. CORONILLA *aculeata*. Racemi pauciflorous. Folioles linear, obtuse, mucronate. Petioles aculeate. Lomenta filiform, terete. Stem herbaceous. *L. a Willd.* iii. 1147.

*Aeschynomene Sesban.* *Jacq. coll. ii. 283.*

*Emerus siliquis geminatis longissimis.* *Burm. J. zeyl.* 93. t. 41.

*Colutea sesban aegyptiacae foliis accedens, maderaspatica.* *Pluk. phyt. t. 165. f. 2.*

*Colutea angustifolia, floribus luteis aversa parte ele- ganter punctatis.* *Pluk. alm. 112; phyt. t. 164. f. 5.*

*KEDANGU.* *Rheede vi. 49. t. 27. Raii hist. 1735.*

## 2. Flowers umbellate. L. a Willd.

3. CORONILLA *Emerus*. Peduncles mostly triflorous. Claws of the petals thrice as long as the calyx. Stem angular. *L. suec.* n. 636. On the rocks of the eastern side of Mount Thorsburg in Gothland; sp. 1046. *Hort. kew.* iii. 57. *Curt. mag.* t. 445. *Host 404.* *Jacq. vind.* 133. *Scop. carn.* n. 911. *Asso n.* 700. *Gou. hort.* 377. Near Montpelier.

*Emerus major.* *Mill. Ph. dict.* n. 1.

*Colutea scorpioides I.* *Clus. pann.* n. 43, on Calenberg and other mountains near Vienna, and on mountains in Hungary, with stems from 3 to  $4\frac{1}{2}$  feet long; *repr. in*

*Colutea scorpioides I clatior.* *Clus. hist.* i. 97, &

*Colutea scorpioides.* *Ger. by Johns.* 1299, *cop. in Bauh. J. i. b.* 381, & a branch *cop. in Park. theatr.* 227. *f. 2. Cam. epit.* 541.

*Colutaea scorpioides major.* *Park. par.* 441. *t. 443. f. 3.* Siliquae represented as jointed.—*Raii hist.* 923; *eur.* 104. On hills about Salernum Geneva and Montpelier.

*EMERUS.* *Boerh. ii.* 49. *Mill. Ph. ic. t.* 132. *f. 1.* Folioles retuse.—*Coste & Willem, in med. comment.* v. 298.

$\beta$  *humilis.* Stems as short again as those of  $\alpha$ . Folioles oblongo-obcordate. From

*Emerus minor.* *Mill. Ph. dict. n.* 2; *ic. t.* 132. *f. 2.* Folioles acute.—*Boerh. ii.* 49.

*Colutea scorpioides humilior.* *Clus. pann.* 45, *repr. in*

*Colutea scorpioides I humilior.* *Clus. hist. i.* 97, *cop. in*

*Colutea humilior.* *Park, theatr.* 227, *repr. in*

*Colutea scorpioides humilis.* *Ger. by Johns.* 1300, & *cop. in Bauh. J. i. b.* 382, with a separate foliole.—*Raii hist.* 924.

*EMERUS.* *Dale* 344.

*C. montana.* *Rupp. ab Hall.* 267.

## 739. ORNITHOPUS.

*Calyx* semiquinquefid. *Lomentum* bowed; *internodia* falling off separately. *Obs.* 3373. 4580. *L.*

1. *ORNITHOPUS nodosus.* Lomenta nodose, longer than the involucrum. *Obs.* 4580. On Eyam common in Derbyshire.

- O. nodosa. *Mill. Ph. dict. n. 2.*
- O. perpusillus. *Roth germ. i. 318. L. sp. 1049 7.*  
*Curt. lond. vi. t. 53. Bot. arr. 782. Smith engl.*  
*t. 369; brit. 777. Fl. dan. t. 730.*
- Ornithopodium radice nodosa. *Raii syn. 326.*
- Ornithopodium radice tuberculis nodosa. *Tourn.*  
*paris. 350. Vaill. paris. 154. Boerh. ii. 50. In*  
*Holland.*
- Ornithopodium perpusillum. *Lob. adv. 403, repr.*  
*in ic. ii. 94, &*
- Ornithopodium minus. *Ger. by Johns. 1241, and*  
*cop. in Park. theatr. 1092, &*
- Ornithopodium pusillum. *Dalech 487.*
- Ornithopodium tuberosum. *Dalech. 486, cop. in*  
*Bauh. J. ii. 351.*
- Ornithopodium majus. *Ger. by Johns. 1241, cop.*  
*in Park. theatr. 1092, & repr. from*
- ORNITHOPODIUM.* *Dod. 535, which repr.*  
*in Lob. obs. 527, & ic. ii. 81. Dalech. 487.—Dale*  
*223. Geoffr. suite 281.*

## 740. HIPPOCREPIS.

*Lamentum compressed; one of the sutures sinuate.*  
*Obs. 4575. 4576. 4577. 4578. L.*

1. HIPPOCREPIS unisiliquosa. Flowers solitary.  
*Obs. 4575. Specimen from Leske.—L. sp. 1049.*  
*Asso n. 703. Hort. kew. iii. 60.*
- Ferrum equinum minus. *Park. theatr. 1092. f. 2,*  
*cop. from*
- Ferrum equinum. *Col. ecphr. i. t. 300. Ger. by*  
*Johns. 1235, cop. in*
- Ferrum equinum majus. *Park. theatr. 1091.*

*Ferrum equinum* siliqua singulari. *Garid.* 172. *t.* 114, at *p.* 200.

*Solea equina.* *Bauh. J.* ii. 347.

*Legumina* slightly curved straight & semicircular.  
*Obs.* 4575.

**FERRUM EQUINUM.** *Boerh.* 483,

### 741. AESCHYNOMENE.

*Calyx* bilabiate. *Lomentum* compressed; internodia truncate, monospermous. *L. a Willd.* *L.*

1. **AESCHYNOMENE grandiflora.** Stem arboreous. Corolla twice as long as the folioles. *Legumina* filiform. *Obs.* 8371. Specimen from Dr. Wright.—*L. sp.* 1060. *Hort. kew.* iii. 62. *Swartz. obs.* 283. Peduncles bifid and trifid.

*Coronilla grandiflora.* *L. a Willd.* iii. 1145.

*Turia.* *Rumph.* i. 188. *t.* 76.

*AGATY.* *Rheede* i. 95. *t.* 51. *Raii hist.* 1734.

2. **AESCHYNOMENE indica.** Stem herbaceous, smooth. *Lomenta* smooth, torose on one margin; tuberosities obtuse. Folioles obtuse. *L. a Murr.* 671; *sp.* 1061.

*A. caule laevi herbaçeo, foliolis obtusis, leguminibus hinc obsolete torosis.* *Roy.* 385.

(*Gajatus niger.* *Rumph.* iv. 64, is a small tree.

*Gajatus luteus.* *Rumph.* iv. 64. *t.* 24 is a shrub.)

**NELI-TALI.** *Rheede* ix. 31. *t.* 18.

## 742. HEDYSARUM.

*Calyx* quinquefid. *Corolla*, carina ascending at right angles. *Lomentum* with monospermous internodia, and *legumen* monospermous. *Obs.* 5897. *L.*

1. *Leaves simple.* L.

1. HEDYSARUM *Alhagi*. Leaves lanceolate, obtuse. Stem fruticose, spinose. *L. sp.* 1051. *Hort. kew.* ii. 65.

*Genista-spartium spinosum, foliis polygoni,* *Raii hist.* 1730.

*Planta spinosa, maurorum Alhagi.* *Dalech. app.* 24, *cop. in*

*Agul et Alhagi arabibus, planta spinosa mannam resipiens.* *Bauh. J. i. b.* 405.

*MANNA persica.* *Schreb. ap. Linn.* 268. *Spielm.* 623.

*Manna persicum.* *Fotherg. J. in ph. tr. abr. by Hutt.* ix. 31.

*Alhagi maurorum.* *Neum.* ii. 68.

2. *Leaves ternate.* L.

2. HEDYSARUM *umbellatum*. Folioles oval, hirsute. Peduncles umbelliferous. Stem fruticose. *From L. sp.* 1053, & *a Willd.* iii. 1182.

*H. trifoliatum áborescens, floribus ex alis foliorum, siliquis copiosis glabris.* *Burm. J. zeyl.* 115. *t.* 51.

*FOLIUM CROCODILI.* *Rumph.* iv. 112, *t.* 52.  
Folioles elliptic.

2. Leaves pinnate. *Legumina monospermous,*  
*Onobrychis.* *Tourn. Scop. carn.* ii. 76.

3. HEDYSARUM *Onobrychis.* *Legumina aculeata.*  
Lateral petals as long as the tube of the calyx.  
Stem elongate. *Obs.* 7108. Cultivated between  
Mansfield and Pleasly-park in Derbyshire, on lime-  
stone.—*L. sp.* 1059; *mant.* 448? *a Murr.* 676?  
but in the 2 latter works the lateral petals are said  
to be as long as the calyx.—*Bot. arr.* 785. *Smith*  
*engl. t.* 96; *brit.* 778. *Mart. rust. t.* 47. *Jacq.*  
*austr. iv.* 27. *t.* 352.

*Onobrychis foliis viciae, fructu echinato, major.*  
*Tourn. paris.* 28. Sainfoin.—*Vaill. paris.* 146.

*Onobrychis, sive Caput gallinaceum.* *Raii hist.* 914;  
*syn.* 327. *Ger. by Johns.* 327, *repr. from*  
*Caput gallinaceum belgarum.* *Lob. obs.* 527, *which*  
*repr. in ic.* ii. 81, &

*Onobrychis.* *Dod.* 539, & *cop. in*

*Onobrychis vulgaris.* *Park. theatr.* 1082. Flowers  
distinct, instead of crowded.

*Polygala multorum, quibusdam Onobrychis.* *Da-*  
*lech.* 488.

*Polygalon Gesneri.* *Bauh. J.* ii. 335. On the  
Apennines, in Switzerland, and the Grisons.

*Calyx*, lowermost segment somewhat shorter than  
that on each side of it. *Petals*, lateral ones semi-  
cordate, rather obtuse, somewhat longer than broad;  
uppermost and 2 lowermost 4 times as long as the  
lateral ones. *Stamina diadelphous.* *Germen ovate,*  
green, hirsute with white hairs at the end, as long as  
the breadth of the tube of the stamens. *Style filiform,*  
as long as the stamens, the upper third part bent at  
right angles with the part below. *Stigma simple.*

*Obs.* 7108.—*Folioles oblongo-lanceolate.* *Obs.* 7110.  
Specimen gathered in Surry, on chalk.

*ONOBRYCHIS.* *Dale* 220. *Gcoffr.* *suite i.* 240.

3. *Leaves pinnate.* *Leguminæ polyspermous.* From  
 4. *HEDYSARUM lineare.* *Folioles lanceolato-linear.*  
 Spikes terminal. *Legumina straight, smooth.* Stem  
 diffuse. *Lour.* ii. 551.

4. *Leaves pinnate, Lomenta.*

5. *HEDYSARUM coronarium.* *Lomenta aculeate,*  
*glabrous, straight.* Stem diffuse. *L.* sp. 1058.  
*H. K.* iii. 66,  
*H.* clypeatum, flore suayiter rubente. *Boerh.* ii. 51.  
*Astragalus romanus.* *Bauh. J.* ii. 333. (mispr. 315)  
*f. 1. f. 2, cop. from*  
*Onobrychis altera.* *Dod.* 540, which repr. in  
*HEDYSARUM clypeatum.* *Ger. by Johns.*  
 1235. *Raii hist.* 929; *eur.* 140, *Park. par. t.*  
*337. f. 10.—Dale* 223.

## 743. INDIGOFERA.

*Calyx patent.* Lateral petals with a subulate projecting spur. *Legumen linear.* From *L.*

1. *Leaves pinnate.* *L.*

1. *INDIGOFERA Anil.* Leaves trijugate; folioles oblong, Racemi shorter than the leaves. Legumina falcate. Stem fruticose. *L. a Willd.* iii. 1236; *a Murr.* 678; *mant.* 272. *Swartz.* *obs.* 290.

- I. assurgeus subvillosa et subcinerea, ramiulis crassioribus, siliquis arcuatis brevioribus reflexo-patentibus. *Browne* 302.  
*Coluteae affinis fruticosa argentea, floribus spicatis e viridi purpureis, siliquis falcatis.* *Sloane cat.* 142.  
*INDIGO commune.* *Berg.* 617.  
*Indigo commune optimum.* *Schoepf* 112.  
*Indigo.* *Lew. in Neum.* ii. 237. *Schreb. ap. Linn.* 206.  
*Wild Indigo.* *Graing.* 56.
2. INDIGOFERA *tinctoria*. Leaves quadrijugate, glabrous; folioles obovate. Racemi shorter than the leaves. Legumina terete, somewhat bowed. Stem fruticose. *From L. a Willd.* iii. 1237; *a Murr.* 678, & *sp.* 1061. *Mill. Ph. diet.* n. 1. *Lour.* ii. 560. *Hort. kew.* iii. 69. *Swartz. obs.* 290.
- I. scapo recto, foliorum pinnis ovatis ad apicem obtusis glabris laete virentibus, florum spicis erectis, floribus sparsis, leguminibus teretibus pendulis incurvis subhirsutis. *Trew sel.* 24. t. 54. Quatimalo Indigo.
- I. decomposita diffusa minor & humilior, ramis gracilibus. *Browne* 302.
- Anil, sive Indigo americana, siliquis in falculae modum contortis. *Mill. ic.* 23. t. 34. Quatimala Indigo. Folioles acute.
- Coluteae affinis fruticosa, floribus spicatis purpurascensibus, siliquis incurvis, e cuius tinctura indigo conficitur.* *Sloane cat.* 141; *hist.* ii. 34. t. 179. f. 2. Cultivated in the West Indies.
- Coluteae foliis, Anil nominatum.* *Bauh. J. i. b.* 384.

- Nil, sive Anil, Glastum indicum. *Park. theatr.*  
 600. *Raii hist.* 926.  
 Ameri. *Rheede* i. 101. t. 54.  
**INDICUM.** *Rumph.* v. 220. t. 80.—*Dale* 222.  
 421.  
 Indigo orientale. *Berg.* 618.  
 Indigo. *Linn.* 206.

### 744. MARCANTHUS.

*Carina* and *ala*e very long. *Legumen* somewhat terete, thick. *Lour.*

#### I. MARCANTHUS *cochinchinensis*. *Lour.* ii. 563.

### 745. GALEGA.

*Calyx* semiquinquefid; segments subulate, nearly equal. *Legumen* with oblique striae and the seeds between them. *From L.*

#### 1. Leaves pinnate. L. a Willd.

I. **GALEGA officinalis.** Legumina erect, straight. Folioles oblongo-lanceolate, cuspidate, glabrous. Stipulae sagittate. *Obs.* 156. Specimen gathered in a garden.—*L. sp.* 1062. *Hort. kew.* iii. 70. *Roth germ.* i. 322. Near Frankfort on the Oder; ii. pars ii. 225.

*G. vulgaris*, floribus caeruleis. *Boerh.* ii. 45.

*G. sive Ruta capraria.* *Park. theatr.* 417.

*G. vulgaris.* *Hist. ox. s. 2. t. 7. row 3. f. 9,* cop. from

*GALEGA*. *Dod.* 538, which repr. in *Lob.* *obs.* 509; *ic.* ii. 57, & *Ger.* by *Johns.* 1253. *Dalech.* 976. *Mill. Ph. ic.* 91. *t.* 137. *Raii hist.* 911; *eur.* 129. *Blackw. t.* 92. *Bauh. J.* ii. 342. In many places in Lombardy.—*Alst.* ii. 142. *Biss. ess.* 163. 170. *Chom.* 324. *Dale* 220. *Geoffr.* iii. 509. *Krock. n.* 1193. *Linn.* 206. *Mill. Jos.* 208. *Murr.* ii. 383. *Ploucq. bibl.* i. 419. *Spielm.* 379. *Schrod.* 594. *Vog.* 130.

2. *GALEGA virginiana*. Legumina retrofalcate, compressed, villose, spicate. Calyces woolly. Folioles ovali-oblong, acuminate. *L. sp.* 1062; *mant.* 448.

*Cracca virginiana*. *L. sp. ed.* i. 752.

*Cracca*. *Gron. virg.* 111.

*Cicer astragaloides virginianus hirsutie pubescens,* floribus amplis subrubentibus. *Pluk. alm.* 103; *phyt. t.* 23. *f.* 2.

*GALEGA virginiana*. *Coxe* 371.

## 746. ASTRAGALUS.

*Legumen gibbose, bilocular and semibilocular.* *Obs.* 2898. *L.* *L. a Willd.* *Juss.* 358.

*Dissepiment* formed of 2 adherent semitransparent membranes which are extensions of the inner membranes of the valves, dividing the legumen into 2 cells, and reaching from the lower to the upper suture in *A. galegiformis*, nearly to the upper suture in *A. glycyphyllos*, and only part of the way in *A. Trag-acantha*.

## 1. Stems diffuse.

1. **ASTRAGALUS glycyphyllos.** Stein prostrate.  
 Legumina nearly triquetrous, bowed. Leaves longer than the peduncles; folioles oval. Obs. 2898. Specimen gathered near Worcester.  
**A. glycyphyllos.** L. suec. n. 658; sp. 1067. Bot. arr. 787. Smith engl. t. 203; brit. 779. Boerh. ii. 53.  
**A. luteus perennis procumbens vulgaris, sive sylvester.** Dill. ap. Raii syn. 326. Tourn. paris. 247. Vaill. paris. 18.  
**Astragalus.** Riv. tetr. t. 103.  
**Foenograecum sylvestre.** Trag. 599, repr. in Polygalon. Cord. fol. 123. p. 2. In fruit.  
**Foenum graecum sylvestre.** Bauh. J. ii. 330.  
**Glaux vulgaris leguminosa.** Park. theatr. 1098. (The fig. a different species) Raii hist. 935; syn. ed. ii. 192.  
**Foenum graecum sylvestre primum.** Dod. 537, repr. in  
**Glaux vulgaris.** Lob. obs. 526; ic. ii. 80, &  
**Hedysarum glycyrrhizatum.** Ger. by Johns. 1233.  
**ASTRAGALUS.** Vog. 216.  
**Glaux vulgaris.** Dale 225.

## 2. Flowers on a scapus.

2. **ASTRAGALUS densifolius.** Scapus erect, longer than the leaves. Folioles oblong, emarginate. Flowers capitato-spicate. Vahl. symb. i. 60.  
**Tragium alterum Dioscoridis.** Dalech. app. 29, cop. in

*Traginum alterum* Dioscoridis quibusdām, folio trichomanis. *Bauh. J.* iii. 279.

*Stoechadi serratae* affinis. *Raii hist.* 514.

*TRAGIUM* alterum. *Dale* 141.

The other *Tragium* Dioscoridis. *Rauw. by Staph.* 112.

### 3. Flowers without stem & scapus. L.

3. ASTRAGALUS exscapus. Folioles oblong, obtuse, pilose. Flowers nearly sessile, aggregate. Calyces pilose with adpressed hairs. Leguminæ oblong, woolly. *L. a Willd.* iii. 1822; *mant.* 275. *Hort. kew.* iii. 78. *Jacq. ic. t.* 561; *coll.* ii. 269.

A. acaulos, flore luteo. *Buxb.* iii. 21. *t.* 38. *f.* 2.  
Glaux lanuginosa montana acaulos. *Rupp. ab Hall.* 270.

ASTRAGALUS exscapus. *Girtanner*, account from *in med. comment.* xiv. 259. *Hargens*, account from *in med. rev.* ii. 572. *Hartenkeil*, account from *in chir. rev.* ix. 364. *Lew. disp. by Dunc.* 329. *Murr.* vi. 83. *Pears. J.* account from *in chir. rev.* vii. 161; *R. i.* 246. *Quar. anim.* 320 to 323.

### 4. Stem woody.

4. ASTRAGALUS creticus. Shrubby. Petioles spinescent. Leaves trijugate and quadrijugate; folioles lanceolate, hoary. Flowers axillary, sessile, solitary. Calyx woolly. *L. a Willd.* iii. 1330, from a dried specimen.—*Lam. dans l'encycl.* i. 320. *n.* 62, from a dried specimen.

*Tragacantha cretica* incana, flore parvo lineis purpureis striato. *Tourn. cor.* 29; *toy.* i. 21. *t. at p.* 55; *engl. transl.* 43. *t. at p.* 43. A portion of the

trunk and larger branches with gum exuding from it. On Mount Ida.

*Tragacantha humilior spinosior densius ramificata.*

*Hist. ox.* i. 113. descr. from

*Poterium alterum densius ramificatum.* *Alp. exot.* 51. t. 50.

Stem shorter than that of *A. Tragacantha*. *Folioles* oblongo-lanceolate, hoary, villose. *Corolla*, uppermost petal pale; lateral petals purplish. Specimen in Sherard's herbarium, examined in company with Sibthorp, who informed me that the stem is not above 6 inches long, that it grew on all the higher mountains of Greece, and that there were different species nearly allied to this and *A. Tragacantha*, which produce Gum Tragacanth. In travelling from Smyrna to Prusa, he observed the gum in great abundance on a species with yellowish flowers, growing on low sandy situations.

**TRAGACANTHA.** Gum. *Pharm. lond.* & *noviss.* — *Alst.* ii. 384. *Berg.* 620. *Carth.* i. 292. *Cull.* ii. 415. *Dale* 224. *Geoffr.* ii. 577. *Herm.* 714. *Hill* 743. *Lew.* i. 481. *Linn.* 207. *Mill. Jos.* 439. *Monro* ii. 440. *Murr.* ii. 380. *Neum.* ii. 1. *Ploucq. bibl.* i. 594. 346. *Quar. anim.* 36. 45. 58. 87. 90. *Ratty* 230. *Schrod.* 750. *Spielm.* 467. *Vog.* 320.

*A. Tragacantha.* Gum. *Pharm. edin.* — *Lew. disp.* by *Dunc.* 164. *Murr. J.* i. 385; ii. 38. *Pears. R. ed.* ii. 294. *Woodv.* ii. 267, the account of the gum and of M. Billardiere's plant. (The rest and the fig. belongs to *A. Tragacantha*.)

*Gummi Tragacanthi.* *Quar. febr.* 66. 134.

*Gum Tragacanth.* *Darw.* ii. 188. *Und.* i. 133.

*Gomme Adragant.* *Chom.* 823.

## 747. PSORALEA.

*Legumen monospermous, without valves, somewhat rostrate, as long as the calyx. From L. a Willd. L.*

1. **PSORALEA bituminosa.** Leaves ternate; folioles ovato-lanceolate. Petioles pubescent, smooth. Spikes capitate, pedunculate, axillary. *L. a Willd.* iii. 1349; *sp.* 1075; *a Murr.* 686. *Hort. kew.* iii. 80. *Gou. hort.* 387. Near Montpelier.

*Trifolium bitumen redolens.* *Boerh.* ii. 32.

*Trifolium bituminosum odoratum.* *Besl. hort. aest. ord.* 10. *fol.* 11.

*Trifolium bituminosum inodorum.* *Besl. ib.*

*Trifolium Asphaltites.* *Bauh. J.* ii. 366.

**TRIFOLIUM** *bituminosum.* *Raii eur.* 254. In Italy Sicily and the south of France, on rocky hills not far from the sea; *hist.* 943. *Dod.* 556, *repr.* in *ed.* ii. 566, & *Ger.* by *Johns.* 1187, & *cop.* in *Park. theatr.* 716. *Cam. hort.* 171. Plants raised from seed produced in Germany destitute of the flavour and odour of native plants.—*Dale* 225. *Geoffr. suite* iii. 238.

2. **PSORALEA glandulosa.** Leaves ternate; folioles ovato-lanceolate, acuminate. Petioles scabrous. Racemi axillary. *L. a Willd.* iii. 1349; *sp.* 1075; *a Murr.* 686. *Hort. kew.* iii. 80. *Gou. ill.* 50. *Bot. mag. t.* 990.

*P. glandulosa, caule erecto arborescente, foliis omni-*

bus ternatis, pedunculis spicatis, bracteis minimis ciliatis. *Ard. anim.* i. 24. t. 8.

*Barba jovis triphilla, flore ex albo et caeruleo vario.*  
*Feu. iii. plantes 7. t. 3.*

*IPECACUANHA americana.* *Murr.* i, 523.

## 748. TRIFOLIUM.

*Legumen* not opening, scarcely longer than the calyx.

*From L.*

### 1. *Legumina not covered by the calyx.*

1. *TRIFOLIUM caeruleum.* Legumina racemose, striate, dispermous trispermous & monospermous, mucronate. Stem erect. *Obs.* 6487. Specimen gathered in a garden.—*L.* a *Willd.* iii. 1352.

*T. Melilotus caerulea:* *L.* *sp.* 1077. *Hort. kew.* iii. 83. *Krock. n.* 1199.

*Melilotus major odorata violacea.* *Boerh.* ii. 30.

*Lotus sativa odorata annua, flore caeruleo.* *Bauh. J.* ii. 368. No fig.

*T. odoratum alterum, sive Lotus sativa.* *Dod.* 561, *repr. in*

*Lotus hortorum odora.* *Lob. obs.* 500; *ic.* ii. 41, *and*

*T. odoratum.* *Ger. by Johns.* 1195, *and cop. in* *Park. theatr.* 716. *Raii hist.* 950. *Fuchs.* 775. *c. 315.*

*T. odoratum alterum sive sativum.* *Dalcz.* 506.

*Τριφυλλον.* *Trag.* 588, *repr. in*

- Lotus sativa. *Cord. fol.* 126.  
 Lotus sylvestris altera Matthioli. *Dalech.* 508.  
 Lotus sylvestris. *Cam. epit.* 894.  
 Melilotus vera. *Tab. ic.* 510.  
 Lotus urbana. *Blackw. t.* 284.  
**LOTUS.** *Geoffr.* iii. 747. *Schrod.* 617.  
 L. urbana. *Dale* 226. *Mill. Jos.* 274.  
 Lotier odorant. *Chom.* 666; *suppl.* 186.

- 2. TRIFOLIUM officinale.** Legumina racemosæ, monospermous and dispermous, slightly rugose, elliptic. Stem nearly erect, angular. *Obs.* 6491. Specimen gathered near Worcester.—*Scop. carn.* n. 935. *L. a Willd.* iii. 1355.  
 T. Melilotus officinalis. *L. sp.* 1078. *Krock.* n. 1198.  
 a lutea. Corolla yellow,  $2\frac{1}{2}$  tenths of an inch long. *Obs.* 6491.  
 T. officinale. *Smith brit.* 781; *engl. t.* 1340.  
 T. Melilotus officinalis. *L. suec. n.* 663. *Fl. dan.* t. 934. *Bot. arr.* 790. *Huds.* 323. *Mart. rust. t.* 72.  
 Melilotus officinarum germaniae. *Tourn. paris.* 117. *Vaill. paris.* 124.  
 Common Melilot. *Sheldr. t.* 72.  
 Melilotus vulgaris. *Raii hist.* 951; *syn.* 331. *Trag.* 591. *Dalech.* 511. *Park. theatr.* 719, *cop.* in  
 T. odoratum, sive Melilotus. *Dod.* 557, which *repr.* in  
 Melilotus germanica. *Lob. obs.* 501; *ic.* ii. 43, & *Ger. by Johns.* 1205. The descr. marked +.—*Cam. hort.* 99.

- Lotus sativa altera. *Dalech.* 507.  
 Saxifraga lutea. *Fuchs.* 708. c. 287, cop. in  
 T. odoratum, sive Melilotus vulgaris, flore luteo.  
*Bauh. J.* ii. 370. *Riv. tetr.* t. 6.  
 T. leguminibus racemosis nudis dispermis rugosis  
 acutis, caule erecto. *Gmel. sib.* iv. 23. t. 7.  
 Melilotus. *Blackw.* t. 80.  
**MELILOTUS.** *Pharm. austriaco-prov.* 48. suec.  
 —*Alst.* ii. 177. *Berg.* 622. *Dale* 226. *Geoffr.* iii.  
 833. *Herm.* 597. *Lew.* ii. 98; disp. by *Rother.*  
 195; by *Dunc.* 348. *Mill. Jos.* 289. *Murr.* ii.  
 384. *Rutty* 319. *Quar. febr.* 275. *Schrod.* 622.  
*Spielm.* 278. *Vog.* 68.  
 Melilotus vulgaris. *Carth.* i. 269.  
 M. citrinus. *Linn.* 207.  
 Melilot. *Chom.* 525; *suppl.* 153.  
 ♂ alba. Corolla white,  $1\frac{1}{2}$  tenth of an inch long.  
*Obs.* 6492. Specimen gathered by W. Russell  
 in an English garden.—*H. K.* iii. 84 ♂. *Willd.*  
*ber.* 241.  
 Melilotus officinarum germaniae, flore albo. *Vaill.*  
*paris.* 124.  
 Melilotus germanica. *Ger. by Johns.* 1205. n. 4.  
 No fig.  
 T. odoratum, sive Melilotus vulgaris, flore rarius  
 albo. *Bauh. J.* ii. 370. No fig.  
**MELILOTUS** albus. *Linn.* 207. *Schoepf* 113.  
 Melilotus officinarum germaniae, flore albo. *Boecl.*  
*ap. Herm.* 597.  
 ♀ frutescens. Root biennial. Sides of the vexillum  
 deflex. From *L.*  
 Melilotus vulgaris altissima frutescens, flore luteo,  
*Tourn. paris.* 289.  
**MELILOTUS** altissimus. *Dale* 227.

## 2. Legumina covered by the calyx.

3. TRIFOLIUM repens. Umbel roundish. Legumina tetraspermous. Steni creeping. Obs. 2979. In meadows.—*L. lapp.* n. 327; *succ.* n. 665; *sp.* 1080. *Curt. lond.* iii. 46. t. 193. *Fl. dan.* t. 990. *Krock.* n. 1201. *Poll.* n. 699. *Scop. carn.* n. 934. *Riv. tetr.* t. 17. f. 2. *Rupp. ab Hall.* 255. *Roth germ.* ii. *pars* ii. 198. *Bot. arr.* 792. *Smith brit.* 782; *engl.* t. 1769. *Mart. rust.* t. 34. *Afz. in lin. tr.* i. 227.

*Trifoliastrum pratense corymbiferum majus repens,*  
foliis rotundioribus alba sagittata & in acutum longius producta macula notatis, siliqua tetrasperma.  
*Mich. gen.* 26. t. 25. f. 4.

*Trifoliastrum pratense corymbiferum majus repens,*  
foliis rotundioribus alba & sagittata macula notatis,  
siliquis tetraspermis. *Mich. gen.* 26.

T. pratense, flore albo, minus, & foemina, glabrum.  
*Bauh. J.* ii. 380, lower fig.—*Tourn. paris.* 43.  
*Vaill. paris.* 195.

T. pratense album. *Lob. adv.* 380. No fig.—*Raii hist.* 942; *syn.* 327. *Park. theatr.* 1111. (The fig. represents a different species.) *Boerh.* ii. 31.  
In Holland.

T. pratense. *Dod.* 555, *repr. in Lob. obs.* 493; *ic.* ii. 29, & *Ger. by Johns.* 1185, & *cop. in*

T. pratense vulgare purpureum. *Park. theatr.* 1110, (the descriptions and names belonging to T. pratense.

*Melilotus parisiensis humifusus, foliis serratis glabris.*  
*Vaill. paris.* t. 22. f. 1, has elliptic acute folioles.

Trifoliastrum pratense corymbosum repens minimum, foliis obtusis non maculatis, siliquis tetraspermis supra parte aequalibus inferna veluti nodosis, semine sublateo. *Mich. gen.* 27. t. 25. f. 3 is a different species.)

*TRIFOLIUM* album. *Berg.* 623. *Linn.* 208.  
*Schoepf* 113. *Vog.* 156.

ꝝ *quadrifolium*. Leaves with mostly 4 folioles. From *T. repens*. *Roth germ.* ii. b. 198, var. 1.  
*T. quadrifolium hortense* album. *Boerh.* ii. 31. In Holland.

*Quadrifolium phaeum*. *Lob. obs.* 496, repr. in *Quadrifolium phaeum fuscum hortorum*. *Lob. ic.* ii. 33, &

*Lotus quadrifolia*. *Cer. by Johns.* 1198, & cop. in *Quadrifolium phaeum fuscum*. *Park. theatr.* 1111, and

*TRIFOLIIS AFFINE*. *Quadrifolium phaeum Lobelii*. *Bauh. J.* ii. 380.—*Raii hist.* 942.

### 3. *Calyces villose*. L.

4. *TRIFOLIUM pratense*. Spikes villose, roundish. Alae shorter than the vexillum. Calyx villose; 4 upper segments equal, somewhat shorter than the lowermost. Stipulae aristate at the end. *Obs.* 5143. In meadows near Chesterfield.—*Bot. arr.* 795. *Afz*, in *lin. tr.* i. 240. *L. suec.* n. 666; sp. 1082. *Smith brit.* 785; *engl.* t. 1770. *Krock.* n. 1203. *Mart. rust.* t. 3. *Fl. dan.* t. 989. *Gou. hort.* 390. Near Montpelier.—*Math.* 835, ill. imit. in *Cam. epit.* 582. *Trag.* 586, &  
*T. purpureum vulgare*. *Bauh. J.* ii. 374, cop. from

*T. pratense purpureum.* *Fuchs.* 778. c. 316. *Vaill.* *paris.* 194. *Raii hist.* 943; *syn.* 328. *Lob. adv.* 380. No fig.

*T. pratense, flore monopetalo.* *L. lapp.* n. 273. *Tourn. paris.* 43. *Boerh.* ii. 31. In Holland. *Trifolium.* *Riv. tetr. t. 11. f. 1.*

*T. purpureum majus sativum, pratensi simile.* *Raii syn.* 328.

*T. vulgare.* *Blackw.* t. 20.

Cow-grass. *Mart. rust.* t. 36.

Native of Europe from the south to Lapland.

*TRIFOLIUM vulgare.* *Mill. Jos.* 442.

*Trifolium.* *Dale* 226. *Geoffr. suite iii.* 233.

*T. pratense purpureum.* *Chom.* 424.

5. *TRIFOLIUM alpestre.* Spikes villose, roundish. Alae as long as the vexillum. Calyx villose; lowermost segment thrice as long as the rest. Stipulae setaceo-subulate. Folioles lanceolate; margin minutely serrate. Stems straight, simple. *Obs.* 8805. Specimen from Prof. Jos. F. Jacquin.—*Afz. in lin. tr. i.* 234. *L. sp.* 1082; *mant.* 451; *a Murr.* 688. *Retz. scand.* n. 915. *Donn.* 183. *Mart. rust.* i. t. 1.—*Krock.* n. 1204.

6. *TRIFOLIUM artense.* Spikes villose, oval. Calyx longer than the corolla; segments equal. Folioles oblongo-lanceolate, retuse, cuspisidate at the end. *Obs.* 981. On the borders of fields near Worcester.—*L. suec.* n. 668; sp. 1083. *Krock.* n. 1207. *Bot. arr.* 798. *Fl. dan.* t. 724. *Smith brit.* 787; *engl.* t. 944. *Roth germ.* ii. *pars.* ii. 202. *Curt. lond.* vi. 50. t.

- T. arvense humile spicatum*, seu *Lagopus*. *Raii syn.* 330. *Tourn. paris.* 159. *Vaill. paris.* 196. *Boerh.* ii. 31. In Holland.
- Lagopus vulgaris Fuchsii*. *Dalech.* 441, &
- Lagopus trifolius quorumdam*. *Bauh.J.* ii. 377, cop. from
- Lagopus*. *Fuchs.* 479. c. 189. *Blackw. t.* 450. *Cam. epit.* 724. *Dod.* 567, repr. in *Lob. obs.* 498; *ic. ii.* 39, &
- Lagopodium, Pes leporis*. *Ger. by Johns.* 1193, & cop. in
- Lagopus vulgaris*. *Park. theatr.* 1107. *Raii hist.* 948.
- Lagopus vulgaris Matthioli*. *Dalech.* 441.
- LAGOPUS.** *Dale* 226. *Geoffr. suite* iii. 236. *Mill. Jas.* 253. *Schrod.* 611. *Vog.* 131.

## 749. LOTUS.

*Calyx* tubular. Upper margins of the lateral *petals* longitudinally connivent. *Legumen* mostly straight. *Obs.* 6815. *L.*

*Lotos altera*. *Plin. l.* 16. c. 44. p. 408. l. 12. Λωτος whence derived is masculine.

1. *Legumina tetragonous; angles winged.*

1. **LOTUS tetraplera**. *Legumina* solitary. *Folioles* of the floral leaves ovate. *Obs.* 938. In a garden.
- L. ruber, siliqua angulosa*. *Dill. ap. Raii syn.* 334.

Cultivated in gardens in the north of England.—  
Boerh. ii. 37.

*L. pulcherrima tetragonolobus.* Cam. hort. 91. t.  
26, cop. in

*L. siliquosa, flore fusco, tetragonolobus.* Bauh. J.  
ii. 358. Raii hist. 966. About Messina in Sicily.

*L. siliqua quadrata.* Ger. by Johns. 1199, cop. in  
*L. quadripinnatis siliquis.* Park. theatr. 1101.

Raii eur. 170.

*Pisum quadratum.* Park. par. 338. t. 337. f. 4.

Folioles entire at the margin. Obs. 938.

Native of Sicily and Crete.

*LOTUS tetragonolobus.* L. sp. 1089. Hort. kew.  
iii. 91. Curt. mag. t. 151.—Bry. 302.

## 2. *Legumina terete, mostly solitary.*

2. *LOTUS edulis.* Legumina mostly solitary, gibbous;  
incurvate. L. sp. 1090; mant. 453. Hort. kew.  
iii. 91.

*L. leguminibus subsolitariis gibbis incurvis.* All.  
nic. 146.

*L. pentaphyllos, siliqua cornuta.* Boerh. ii. 38.

*L. edulis cretica.* Raii hist. 967; eur. 171. In  
Sicily, and about Naples.

*L. οὐροκεφαλός cretica lutea, siliquis binis curvis pro-  
pendentibus.* Hist. ox. ii. 176. n. 5. s. 2. t. 18.  
row 2. f. 5. Folioles hirsute.

*Trifolium, sive L. hierazune edulis siliquosa.* Bauh.  
J. ii. 365, cop. in

*L. edulis creticus.* Park. theatr. 1100.

*Trifolium corniculatum creticum.* Alp. exot. t. 268.  
Native of Sicily, and Italy.

*LOTUS edulis.* Bry. 302.

3. *Flowers umbellate.*

3. LOTUS *hirsuta*. Leaves ternate. Stem erect, hairy. Legumina ovate. Flowers shorter than the folioles. Obs. 4115. Specimen gathered in Fothergill's garden.—*L. sp.* 1091; *mant.* 453; *a Murr.* 691. *Hort. kew.* iii. 93. *Curt. mag. t.* 336.

*L. caule erecto hirto, capitulis hirsutis, leguminibus ovatis.* *L. ups.* 220. *All. nic.* 147.

*L. polyceratos frutescens incana alba, siliqnis curtis crassioribus brevioribus erectis.* *Boerh.* ii. 37.

*L. pentaphyllos siliquosus villosus.* *Magn. monsp.* 165. *Raii hist.* 968; *eur.* 171. Near Montpelier, and Messina.

*L. polyceratos incana alba, siliquis curtis crassioribus & brevioribus erectis.* *Hist. ox. s.* 2. *t.* 18. *f.* 14.

*L. haemorrhoidalis majus, sive Trifolium haemorrhoidale majus.* *Park. theatr.* 1102.

*L. sylvestris.* *Dalech.* 507.

*Trifolium album rectum hirsutum valde.* *Bauh. J.* ii. 360.

*Oxytriphyllo alterum Scribonii herbariorum.* *Lob.* *adv.* 381, *repr.* in *ic.* ii. 31.

(*L. incana*, sive *Oxytriphylon Scribonii Largi.* *Ger.* by *Johns.* 1191 is *Cytisus argenteus.*)

Native of Sicily, Italy, and the south of France.

*TRIFOLIUM haemorrhoidale.* *Dale* 227. *Geoffr.* *suite* iii. 240.

4. LOTUS *corniculata*. Umbels depressed. Stem prostrate. Legumina cylindric, patent. Obs. 144. On marl, near Worcester.—*L. suec.* n.

675  $\alpha$ ; sp. 1092  $\alpha$ . Bot. arr. 804. Curt. lond. ii. 56. t. 107. Smith brit. 793  $\alpha$ . Poll. n. 711  $\beta$ . Mill. Ph. dict. n. 1. Mart. rust. t. 53. Fl. dan. t. 991.

*L. corniculata* glabra minor. Raii hist. 967; syn. 334. Tourn. paris. 112. Magn. monsp. 164. Bauh. J. ii. 355. f. 2. (f. 1 is *Medicago polymorpha*.)

*L. sive Melilotus pentaphyllos minor glabra*. Vaill. paris. 119.

*L. sativa* Matthioli. Dalech. 507.

*Trifolium corniculatum* L. Dod. 563, repr. in

*Melilotus coronata*. Lob. obs. 501; ic. ii. 44, &

*Trifolium siliquosum minus*. Ger. by Johns. 1190.

*Melilotus germanica*. Fuchs. 512. c. 201, imit. in

*Melilotus nobilis*. Trag. 594.

Stem 22 inches long. Corolla bright yellow; vexillum and alae when dried green and the carina tawny. Obs. 6469. In a meadow.

Native of Europe from the south of France to Sweden.

*LOTUS corniculata*. Dale 227.

*Trifolium corniculatum*. Geogr. suite iii. 242.

## 750. TRIGONELLA.

*Verillum* and *alae* patent. From L.

1. TRIGONELLA *Foenugraecum*. Legumina nearly sessile, attenuate at the end. Stem erect. Vexillum longer than the alae and carina. Obs. 6417. Specimen from Mr. Ballard's garden.

T. Foenum graecum. *L.* sp. 1095. *Asso* n. 735.  
*Hort. kew.* iii. 96. *Woodv.* iii. 437. t. 158. *Roth*  
*germ.* ii. *pars* ii. 219. Cultivated in Saxony.—  
*Gou. monsp.* 202  $\alpha$

Foenum graecum. *Blackw.* t. 384. *Fuchs.* 758. c.  
 308, cop. in *Trag.* 597. *Bauh. J.* ii. 363. No  
 fig.—*Dod.* 526, repr. in *Lob. obs.* 502; ic. ii.  
 44, & *Ger. by Johns.* 1196, & cop. in

Foenum graecum sativum. *Park. theutr.* 1096.  
 Teeth of the folioles not expressed.—*Dalech.* 480.  
*Boerh.* ii. 32. *Magn. hort.* 80.

Folioles obovato-cuneiform and obovate in the  
 same plant, dentate. *Calyx* semiquinquefid, villose;  
 segments ensiform; uppermost rather longer. *Corolla*  
 more than twice as long as the calyx; vexillum  
 obovato-oblong, emarginate, one fourth longer than  
 the alae; alae twice as long as the carina; lamina of  
 the carina roundish; unguis cuneiform. *Legumina*  
 solitary. *Obs.* 6417.

**FOENUGRAECUM.** *Berg.* 624. *Murr.* ii. 386.  
*Vog.* 161.

Foenum graecum. Fenugreek. Seeds. *Pharm.*  
*lond.*—*Alst.* ii. 343. *Carth.* i. 282. *Dale* 227.  
*Fordyce, G. pract.* 210. *Geoffr.* iii. 485. *Herm.*  
 419. *Hill* 529. *Krock. n.* 1220. *Lew.* i. 438;  
 disp. by *Dunc.* 319. *Linn.* 208. *Mill.* *Jos.* 201.  
*Monro* iii. 109. *Schrod.* 591.

Foenum graecum sativum. *Chom.* 752; *suppl.* 202.  
*Rutty* 206.

Fenugreek. *Neum.* ii. 86.

$\beta$  *sylvestre.* Shoots prostrate. Legumina more hirsute  
 than those of  $\alpha$ . From *L.*  $\beta$ .

T. Foenum graecum. *Gou. hort.* 396. In corn  
 fields near Montpelier; *monsp.* 203  $\beta$

*Foenugraceum silvestre Dalechampii.* *Bauh. J.* ii.  
365. Folioles obtusecuneiform.

*FOENUM GRAECUM sylvestre.* *Magn. hort.*  
80; monsp. 98. *Dalech.* 481. Folioles elliptic.—  
*Schrod.* 591.

## 751. MEDICAGO.

*Legumen* compressed, cochleate. *Corolla*, carina  
bent down at a distance from the vexillum. *L.*

### 1. *Legumina wreathed.*

1. *MEDICAGO sativa.* Flowers racemose. Stem  
glabrous. *Obs.* 5089. In a garden.—*L. sp.* 1096.  
*Bot. arr.* 806. *Smith brit.* 795; *engl. t.* 1749.  
*Huds.* 330. In meadows pastures and hedges,  
but where not said. Marked as not indigenous.—  
*Gou. hort.* 398. In corn fields about Montpelier.  
—*Dalech.* 502 is a bad representation of it.—*Poll.*  
*n.* 712. *Roth germ.* i. 319. *Host* 416. *Mart. rust.*  
*t.* 48.

*Lucern.* *Le Pluche nat. delin.* iii. 19. *t.* 1.

*Medica major* erectior, floribus purpurascensibus.  
*Bauh. J.* ii. 382. *Vaill. paris.* 125. *Boerh.* ii.  
34. *Raii hist.* 960. About Montpelier; *eur.*  
177.

*Medica.* *Dod.* 566, repr. in

*Medica legitima.* *Clus. hist.* ii. 242,

*Foenum burgundiacum.* *Lob. obs.* 498; *ic.* ii. 36,  
& *Ger. by Johns.* 1189, & cop. in

*Foenum burgundiacum*, sive *Medica legitima*. *Park. theatr.* 1114.

*Native of Spain, the south of France, Switzerland, and Germany as far north as Brandenberg.*

*MEDICA*. *Dale 227. Diosc. l. 2. c. 177.*

*Class 18.*

# POLYADELPHIA.

*Order 1.*

## DECANDRIA.

752. THEOBROMA. *Petals 5. Calyx pentaphylloous.  
Filaments 5. Antherae 2 on  
each filament.*

*Order 2.*

## DODECANDRIA.

753. GUAZUMA. *Petals 5. Calyx triphyllous.  
Filaments 5. Antherae 3 on  
each filament.*

*Order 3.*

## ICOSANDRIA.

755. MELALEUCA. *Capsule* trilocular.754. CITRUS. *Berry* novilocular.*Order 4.*

## POLYANDRIA.

758. HYPERICUM. *Capsule.* *Calyx* pentaphyllous.  
and quinquepartite. *Obs.*  
3008.756. DURIO. *Pomum* quinquelocular.757. HOPEA. *Drupe.* *Nut* trilocular.

## DECANDRIA.

## 752. THEOBROMA.

*Calyx* pentaphyllous. *Petals* 5, vaulted. *Nectarium* urceolate, with 5 horns. *Filaments* 5, inserted into the outside of the nectarium, each with 2 anthers. *Capsule* quinquelocular, valveless. *From L.*  
*a Schreb.* *L.*

1. THEOBROMA *integerrima*.—Leaves entire at the margin. *L.*
- T. Cacao. *L. a Willd.* iii. 1422; *sp.* 1100. *Hort. kew.* iii. 99. *Jacq. obs.* i. 2; *amer. Svo*, 272.
- T. fructu ovato-acuminato subverrucoso decem sulcis longitudinalibus subarato. *Browne* 306.
- T. fructu subrotundo subverrucoso decem sulcis subborato. *Browne* 306.
- Cacao arbor. *Cat. App. t. 6.*
- Arbor cacavifera americana. *Pluk. alm.* 40; *phyt. t.* 268. *f.* 3. A branch without fructifications. A separate fruit.
- Cacao, et Cacavate. *Blackw. t. 373.* From Jos. Miller's herbarium.
- Cacao fructus. *Clus. exot. 55, cop. in*
- Cacao, sive Cacavate. *Park. 1642,*
- Cacao-americæ, sive Avellana mexicana. *Bauh. J. i. 291;* &
- CACAO.* *Dalech. 1857, & repr. in Ger. by Johns. 1550. Raii hist. 1670. Sloane cat. 134; hist. ii. 15. t. 160. Mer. sur. 26. t.—Pharm. austriaco-prov. 25. suec.—Alst. ii. 265. Berg. 626. Carth. i. 344. Dale 328. Geoffr. ii. 409. Herm. 384. Lew. i. 245; disp. by Rother. 120; by Dunc. 348. Linn. 209. Mill. Jos. 100. Murr. iii. 378. Quar. anim. 309. Schoepf 114.*
- Cacao nuces. *Spielm.* 114.
- T. Cacao. *Bry. 364. Pears. R. i. 81. 102. Wright in med. journ. viii. 288.*
- SUCCOLATA.* *Schrod. 742.*
- Chocolate. *Fotherg. J. in med. obs. vi. 122. Graing. 67.*
- Chocolat. *Chom. 447.*
- COCOA.* *Blane 311.*

## DODECANDRIA.

## 753. GUAZUMA.—

*Calyx* triphyllous. *Petals* 5, with 2 horns. *Nectarium* campanulate, quinquefid. *Filaments* 5, inserted into the outside of the nectarium, each with 3 antherae. *Capsule* quinquelocular, valveless, woody, tuberculate, pierced with 10 rows of foramina. *From L. a Schreb. & a Willd. Plum. Cav.*

1. *GUAZUMA polybotra.* *Cav.* quoted in *Bubroma Guazuma.* *L. a Willd.* iii. 1423.  
*Theobroma* foliis oblongo-cordatis serratis ab altero latere majoribus, fructu minori scabro. *Browne* 306.  
*Theobroma* foliis serratis. *Plum.* ic. t. 144.  
*Cenchra media jamaicensis ulmifolia*, fructu ovali integro verrucoso. *Pluk. alm.* 92; *phyt.* t. 77. f. 2.
2. *THEOBROMA Guazuma.* *L. sp.* 1100. *Hort. kew.* iii. 99.—*Swartz. obs.* 291.

## ICOSANDRIA.

## 754. CITRUS.

*Calyx* quinquesfid. *Petals* 5. *Stamina* about 20.

*Filaments in several phalanges. Berry novilocular and quinquelocular. Obs. 5041, & from Lour. L,*

1. CITRUS *Margarita*. Petioles linear. Leaves lanceolate. Branches ascending, aculeate. Berries quinquelocular, oblong. *Lour.* ii. 570.

2. CITRUS *nobilis*. Petioles linear, strict. Leaves lanceolate. Branches ascending, unarmed. Berries tuberculate, slightly compressed. *From Lour.* ii. 569.

*AURANTIUM sinense.* *Rumph.* ii. 113. t. 34.

*AURANTIUM verrucosum.* *Rumph.* ii. 114. t. 35. Leaves serrate. Petioles obovate.

3. CITRUS *madurensis*. Petioles linear. Leaves elliptic. Branches unarmed, diffuse, angular. Fruit globular, smooth. *Lour.* ii. 570.

*LIMONELLUS madurensis:* *Rumph.* ii. 110. t. 31.

4. CITRUS *medica*. Petioles linear. Leaves ovate, acuminate. *From L. a Willd.* iii. 1426; *sp.* 1100. *Hort. kew.* iii. 101. *Lour.* ii. 568.

— *citrea*. Rind of the fruit tuberculate. *From authors.*

— *L. sp. a*

C. fructu oblongo majori, cortice crasso carnosu-  
perficie inaequali vesiculato. *Browne* 309.

Citria Malus. *Blackw.* t. 361.

Citreæ mala. *Trag.* 1032, *repr. in*

C. arbor, et mala citrea. *Cord. fol.* 183. p. 2, outer  
lowermost branch.—*Sloane cat.* 208.

- *Citreum vulgare.* *Boerh.* ii. 240.
- *Malus citria.* *Dalech.* 298.
- Malus citria*, sive *medica*. *Raii hist.* 1654.
- Malus medica*. *Dod.* 779, *repr. in Lob. obs.* 572; *ic.* ii. 143, & *Ger. by Johns.* 1462.
- Citria malus*, cum fructu magno et mediocri. *Bauh.* *J. i. a.* 94, *cop. in*
- Malus medica*, vel *citria*. *Park. theatr.* 1506.
- Citrion*. *Stap.* 344.
- Citria mala*, sive *Mala medica*. *Cam. epit.* 148.
- *Citrum monstrosum de maxiniis.* *Bauh. J. i. a.* 96.
- CITRUS*. *Carth.* i. 412. *Lew. disp. by Rother.* 145. *Linn.* 209. *Schrod.* 567. *Vog.* 168. 291.
- Malus citria*. *Dale.* 326.
- Malus citrea*. *Carth.* iii. 210.
- Citria malus*. *Mill. Jos.* 140. *Rutty* 127. *Vog.* 250.
- Citrea*. *Lew. i.* 349.
- Citreum*. *Alst.* ii. 294. *Geoffr.* iii. 330.
- Mala citrea*. *Mead mon.* ii. 121.
- C. Citrullns*. *Wright in med. journ.* viii. 245.
- Poma citrina*. *Bang in act. haun.* i. 99?
- Citron*. *Chom.* 318; *suppl.* 106. *Fordyce, W. sev.* 135. 143. *Neum.* ii. 221.
- β *Limon*. Rind of the fruit rugose. Fruit oval, mam-  
mose at the end.—*Woodv.* iii. 500. *t.* 184. *L. sp.* β  
C. *fructu ovato acido superficie inequali*. *Browne*  
308.
- Limo arbor*, ejusque *fructus Limo*. *Sloane cat.* 209.
- Malus limonia*. *Raii hist.* 1656. *Dod.* 779, *repr.*  
*in Ger. by Johns.* 1462, *cop. in Park. theatr.*  
1507, & *repr. in*
- Limones*. *Lob. obs.* 573, & *ic.* ii. 143. *Trag.* 1032,  
*repr. in*

- Limon. *Cord. fol.* 183. *t. fol.* 182, *p. 2*, inner lower branch.
- Limonia Malus. *Dalech.* 301. *Bauh. J. i. a.* 96. *Blackw. t.* 362.
- Limon vulgaris. *Boerh. ii.* 240.
- Limonia mala. *Cam. epit.* 149.
- LIMON.** Lemon. Juice, outer rind, and its oil commonly called essence. *Pharm. lond.*—*Chom.* 318; *suppl.* 106. *Heb.* 328. *Spielm.* 74. *Und. i.* 309.
- Limones. *Pharm. lond. noviss.*—*Fordyce, G. pract.* 152. 167. 207; *fev. ii.* 83. *Heb.* 217. 259. *Monro i.* 72. 113; *iii.* 159. *Ploucq. bibl. i.* 486. *Wintr. in Mead mon.* i. 231. 250.
- Limonium. *Alst. ii.* 294. *Carth. i.* 414. *Cull. i.* 250. *Geoffr. iii.* 338. *Lew. ii.* 67. *Wall, Mart. opium pref. v, note.* *Wright in med. comment.* xi. 189, & *med. journ.* viii. 97.
- Limonia. *Carth. iii.* 214. *Fordyce, W. fragm.* 32. *Linn.* 210. *Mead mon. i.* 32. *Stoll aph. n.* 431.
- Limonia mala. *Schrod.* 616.
- Limonia malus. *Mill. Jos.* 269. *Rutty* 288. *Vog.* 255.
- Malus limonia. *Dale* 326.
- C. Limonium. *Wright in med. journ.* viii. 242.
- Citrus. *Bang in act. haun.* i. 11. *Berg.* 630. *Herm.* 187. *Murr. iii.* 265; *J. i.* 357. *Ploucq. bibl. i.* 586. *Quar. anim.* 39. 198; *febr.* 15. 27. 31. 54. 84. 89. 103. 106. 120. 149. 162. 171. 206. 217. 219. 348. 381. 428. *Schoepf* 114. *Stoll med.* iii. 193.
- C. Medica. Fruit, its rind and volatile oil. *Pharm.*

*edin.*—*Bry.* 189. *Lew.* *dlsps.* by *Dunc.* 199. *Murr.*

*J.* i. 193. *Pears.* *R.* i. 61; ed. ii. 318. 330.

*Ponnia citri.* *Bang in act.* *haun.* i. 294.

*Lemon.* *Biss.* *ess.* 253. *Blanc* 86. 303. 452. 502.

503. 508. *Clegh.* 187. 189. *Cook in ph. tr. abr.* by *Hutt.* xiv. 59. *Currie, W.* account from in *med. rev.* vi. 64. *Fordyce, W.* *fev.* 135. 143. 155. 160. 167. 206. 220. *Graing.* 38. *Lind, hot. clim.* 314; *seam.* 20. 21. *Monro, Don.* *sold.* ii. 185. *Pemberton, account from in chir. rev.* xiii. 16. *Quier in lett.* 153. *Rush* i. 112. *Sims, James epid.* 22. *Trotter, account from in med. comment. dec.* II. viii. 198, & *chir. rev.* iv. 15; x. 285.

*Lemon peel.* *Neum.* ii. 198.

*Lemon juice.* *Browne in Trott.* ii. 150. *Clark, J.* long *voy.* 327. 423. *Cruickshank in Rollo diab.* 493; ed. I. ii. 170, & account from in *ann. med.* ii. 115. *Darw.* ii. 218. 219. 375. 710. 715. *Denm.* i. 254. *Graing.* 28. *Hunt. J. jam.* 242. *Lind hot clim.* 313; *seam.* 35. *Monro, Don.* *sold.* 239. 247. *Neum.* ii. 220. *Papin in ph. tr. abr.* by *Jones v. part ii.* 185, and by *Hutt.* vi. 53. *Perciv. T.* i. 105. 106. *Pringle* 132. *Rush* iii. 285. *Stewart, account from in med. rev.* viii. 241. *Tilesius, account from in phys. journ.* xi. 240. *Trotter, account from in chir. rev.* x. 283. *Und.* i. 200. *Vaugh.* in *med. soc.* i. 370. *Watherston in Trott.* ii. 145. *Wright in med. facts* vii. 21, & *med. journ.* viii. 97.

**LEMONADE.** *Darw.* ii. 43. 125. 126. 221. 245.

*Fordyce, W.* *fev.* 219. *Lempr.* ii. 181. *Monro, Don.* *sold.* ii. 185. 196. *Maclean* 165. *Rush* i, 113; v. 120.

*Limonade.* *Hume, J.* in *lett.* 252.

Limonada. *Quar. febr.* 17. 27. 120. 142. 158. 219.

*CITRIC ACID.* *Trotter in phys. journ.* iv. 154;

v. 75.

$\gamma$  *maxima.* (Variation.) Fruit much larger than that of  $\alpha$ . *From*

*CITRUS* fructu majori acido ovato superficie inaequali. *Browne* 308.

$\delta$  *acidissima.* Fruit similar to that of  $\beta$ , but three times smaller. *From memory.*

*C. fructu sphaerico-ovato punctato laevi minori acido.* *Browne* 308,

*Malus arantia fructu limonis pusillo acidissimo,* *Sloane cat.* 211.

*Limon acris.* *Bœrkh.* ii. 240.

*LIMONIUM.* *Berg.* 635,

*Limonia.* *Schoepf* 115.

*C. Medica.* *Wright in med. journ.* viii. 242.

Lime. *Blane* 24. 56. 164. 503. *Chish.* 155. *Crawford, in Trotter* ii. 96. *Gillepsie, account from in med. rev.* iii. 291. *Graing.* 38. 47. 54. *Hume, J. in lett.* 211. *Hunt. J. jam.* 281, 289. *Lempr.* ii. 264. *Lind seam.* 35. *Moseley* 23. *Paterson, D. account from in ann. med.* i. 142. *Perciv. Rob. cape* 85. *Quier in lett.* 153. *Rush* i. 112. *Stewart, account from in med. rev.* viii. 241. *Stuart, account from in chir. rev.* v. 257. *Winterbottom, T. account from ib.* x. 450. 463. *Trotter, account from in med. comment. dec. II.* viii. 198. *Wright in med. facts* vii. 21; & *med. journ.* viii. 97.

Vegetable acid. *Lempr.* ii. 263.

5. *CITRUS Aurantium.* Petioles winged. Leaves acute. *Obs.* 5041; In a garden.—*L. a Murr.*

697; sp. 1100. *Thunb. jap.* 293. *Hort. kew.* iii.

101. *Woodv.* iii. 496. t. 183.

*Aurantium.* *Tourn. inst.* t. 393.

*Aurantia mala.* *Cam. epit.* 150.

*Aurantia.* *Blackw.* t. 349.

**CITRUS** *Aurantium.* *Lour.* ii. 569. *Murr. J. i.* 356.

*Aurantia.* *Quar. anim.* 23.

*Aurantium.* *Alst.* ii. 294. *Berg.* 636. *Cull.* i. 250; ii. 86. 88; *pract. n.* 1333. *Linn.* 220. *Ploucq. bibl.* i. 251. *Schoepf* 115.

*Malus aurantia.* *Schrod.* 541.

*Oranges.* *Cook in ph. tr. abr. by Hult.* xiv. 59.

α *amara.* Rind of the fruit bitter. Pulp acid.—*L. α.*

#### *H. K. α*

*Aurantium acre.* *Mill. Ph. dict. n.* 1.

**C.** fructu sphaerico punctato croceo acido, cortice interiori spongioso, petiolis alatis. *Browne* 308.

*Aurantium acri medulla, vulgare.* *Boerh.* ii. 239.

*Malus aurantia.* *Raii hist.* 1658. *Dalech* 302.

*Malus anarantia.* *Dod.* 780, *repr. in*

*Arantia.* *Lob. obs.* 573, *and ic.* ii. 144, & *cop. in*

*Aurantia.* *Stap.* 346, &

*Malus arantia vulgaris.* *Park. theatr.* 1508, & *repr. in*

*Malus arantia.* *Ger. by Johns.* 1463. *Park. par.* t. 585. f. 1. *Bauh. J. i. a.* 97.

*Poma nerantia.* *Trag.* 1032, *repr. in*

*Mala nerantia.* *Cord. fol.* 182. p. 2, upper branches.

**AURANTIUM hispalense.** Seville Orange. Leaves.

Flowers. Juice and outer rind of the fruit.

*Pharm. lond.*—*Fordyce, G. fev.* ii. 83. *Heb.* 51. 175. *Lew.* i. 183. *Monro* iii. 27.

- Aurantia amara. *Spielm.* 110.  
Aurantium. *Pharm. lond.* noviss.  
Malus aurantia fructu acri. *Geoffr.* iii. 149.  
Aurantia. *Carth.* iii. 212. *Herm.* 183. *Home, F. clin.* 198. *Lind hot clim.* 311. *Med. ess.* vi. 377. *Murr.* iii. 284. *Ploucq. bibl.* i. 409, 518, 595. *Quar. anim.* 275. *Stoll med.* iii. 181. *Vog.* 286.  
C. Aurantium. Leaves. Flowers and their distilled water and volatile oil. Juice and outer rind of the fruit. Unripe fruit. *Pharm. edin — Bry.* 190. *Lew. disp. by Dunc.* 197. *Murr. J.* i. 192. *Pears. R.* i. 60; ii. 175, 213; *ed.* ii. 330, 379.  
C. Aurantium amara. *Wright. in med. journ.* viii. 243.  
Malus aurantia. *Dale* 326.  
Aurantia malus. *Mill. Jos.* 67. *Rutty* 48. *Vog.* 246.  
Seville Orange. *Biss. ess.* 70. 253. *Bree* 292. *Monro, Don. sold.* ii. 192. *Pears. R.* i. 61. *Perciv. T.* i. 105.  
Bitter Orange. *Lempr.* ii. 264.  
Orange. *Blane* 303. 451. 502. *Clark, J. long voy.* 427. *Currie, W.* account from *in med. rev.* vi. 64. *Fordyce, G. f. ev.* ii. 125. *Graing.* 38. *Hume, J. in lett.* 214. *Lind seam.* 20. 21. 35. *Monro, Don. sold.* ii. 183. 206. *Neum.* ii. 185, 198. *Perciv. T.* i. 47. 508. *Stewart, account from in med. rev.* viii. 241. *Trotter, account from in med. comment. dec. II.* viii. 198. *Und. i.* 110. 241.  
Bigarade. *Chom.* 320. 197; *suppl.* 107.  
*AURANTIA curassavensia.* *Murr.* iii. 286. *Ranoe in act. med. hafn.* ii. 16.  
Aurantia curasavensia. *Lew. disp.* 98.

*NAPHAE.* *Berg.* 636. *Linn.* 210. *Murr.* iii.

284. *Schoeps* 115. *Vog.* 148.

Orange flowers. *Hill* 425. *Neum.* ii. 185.

$\beta$  *dulcis.* Pulp sweet.

*C.* *petiolis alatis.* *L. ups.* 236  $\beta$

*C.* *Aurantium sinensis.* *L. sp.* 1101. *Hort. kew.* iii. 101.

*Aurantium sinense.* *Mill. Ph. dict.* n. 2.

*C.* *fructu sphaerico punctato crocco dulci, petiolis alatis.* *Browne* 309.

*Malus aurantia sinensis.* *Sloane cat.* 211.

*Aurantium medulla dulci, vulgare.* *Boerh.* ii. 239.

*AURANTIA dulcia,* *Boecl. ap. Herm.* 185. *Spielm.* 80.

*Aurantia sinensis.* *Lew.* i. 186.

*Aurantia malus.* *Vog.* 246.

*Aurantium sinense.* *Murr.* iii. 302.

*Malus aurantia, dulci medulla.* *Geoffr.* iii. 150.

*C. Aurantium dulcis.* *Wright in med. journ.* viii. 243.

*Cortices pomorum sinensium.* *Carth.* iii. 214.

*Aurantia.* *Wintr. in Mead mon.* i. 250. *Fordyce, W. frugm.* 60. *Quar. febr.* 348.

*Mala aurea.* *Mead mon.* ii. 121.

*China Orange.* *Cull.* i. 251. *Lew. disp. by Dunc.* 198. *Pears. R.* i. 60.

*Sweet Oranges.* *Hawkesw. toy.* iv. 343.

*Orange.* *Fordyce, G. fev.* ii. 36; *W. fev.* 135. 143.

167. 189. 206. 220. *Maclean* 289. *Mos.* 254.

*Vaugh. in med. soc.* i. 370.

*Orange douce.* *Chom.* 320.

$\gamma$  *Bergamot.* *C. Aurantium*  $\beta$  *Berg. mat. med.* 639.

*BERGAMOT.* *Berg.* 639.

Bergamotte. *Linn.* 210. *Schoepf* 115. *Spielm.* 75.  
 C. Bergamot. *Wright in med. journ.* viii. 245.  
 Limon Bergamotta. *Murr.* iii. 297.

6. CITRUS *decumana*. Petioles winged. Leaves obtuse, emarginate. *L.* a *Murr.* 697. *Hort. kew.* iii. 102. *Thunb. jap.* 293. *Lour.* ii. 571.

✉ *tuberculata*. Berry tuberculate. *Obs.* 8656. From Portugal.

C. Aurantium γ *L. sp.* 1101.

Aurantium decumanum. *Mill. Ph. dict. n. 4.*

C. fructu sphaerico-obovato maximo, cortice aequali vesiculato pallide luteo. *Browne* 309.

Aurantium fructu maximo, indiae orientalis. *Boerh.* ii. 240.

Limo decumanus. *Rumph.* ii. 96. t. 24. f. 2.

Malus arantia fructu rotundo maximo pallescente humanum caput excedente. *Sloane cat.* 212; *hist.* i. 41. t. 12. f. 2. 3. 4.

Berry sphaeroidal, depressed at the end,  $4\frac{1}{2}$  inches long,  $6\frac{1}{4}$  broad, smooth, with slightly elevated flattened tubercles; rind from 3 to 9 tenths of an inch thick; pulp pale yellow. *Obs.* 8656.

CITRUS *decumanus*. *Bry.* 191. *Forst. G. esc.*

35. *Wright in med. journ.* viii. 244.

Shaddock. *Perciv. Rob. ceyl.* 313. *Trotter, account from in med. comment. dec. II.* viii. 198.

Chaddock. *Hume, J. in lett.* 214. *Fordyce, W. fev.* 143.

Pumplemoeses. *Hawkesw. voy.* iv. 343.

✉ *punctatus*. Berry punctate. *Obs.* 8657. From Portugal, under the name of Forbidden fruit.

Limon fructu aurantii. *Boerh.* ii. 241?

*Berry* obovato-spherical, slightly depressed at the end, pale tawny yellow, smooth, with shallow dots, shining and almost without dots at the end,  $3\frac{1}{4}$  inches in diameter; pulp tawny yellow, somewhat acid, and sweet but not so agreeable as that of *C. Aurantium*. *Seeds* ovate, slightly compressed, mostly carinate on one side and at the end; keel acute and obliquely truncate. *Obs.* 8657.

*CITRUS fructu sphaerico-ovato minori, cortice aequali vesiculato pallide luteo, petiolis alatis.*  
*Browne* 309.

Forbidden-fruit tree: *Hughes* 127. *t. 7.*

7. *CITRUS fusca*. Petioles winged, cordate. Leaves lanceolato-ovate. Stem very much branched, aculeate. Berries globular, rough. *From Lour.* ii. 571.

*AURANTIUM acidum.* *Rumph.* ii. 112. *t. 33.*

8. *CITRUS japonica*. Petioles winged. Leaves ovate, acute. Stem fruticose. *From Thunb. jap.* 292; *trav.* iv. 120.

9. *CITRUS trifoliata*. Leaves ternate. *L.* sp. 1101. *Thunb. jap.* 294. *trav.* iii. 162.  
*SSI.* *Kaempf. am.* 801. *t. 802.*

## 755. MELALEUCA.

*Calyx* semisuperior, quinquefid. *Petals* 5. *Filaments* in 5 fasciculi. *Style* 1. *Capsule* trilocular. *From L. and Smith.*

## 1. Leaves alternate. L. a Gmel.

1. MELALEUCA *Leucadendron*. Leaves quinque-nervose, lanceolate, falcate, oblique. Smaller branches and petioles glabrous. *From Smith in lin. tr.* iii. 274, & *Woodv. iv.* 44. *t.* 229, who figured it from a specimen in Sir Jos. Banks's herbarium.

M. *Leucadendron latifolia*. *L. fil. suppl.* 342. *L. a Murr.* 698.

M. *Leucadendra*. *L. mant.* 105. *Lour.* ii. 573.

*Myrtus Leucadendron*. *L. sp.* 676.

*Arbor alba*. *Rumph.* ii. 72. *t.* 16.

*Arbor alba minor*. *Rumph.* ii. 76 *t.* 17. *f.* 1. 2.

*OLEUM CAJEPŪT*. *Berg.* 639. *Linn.* 211. *Murr.* iii. 319. *Ploucq. bibl.* i. 265. 308. [699. *Thunb. trav.* ii. 304.]

*Oleum Cajuputi*. *Pharm. lond. noviss.*

*Oleum Cajaput*. *Crantz.* 138.

*Oleum Kajeput*. *Vog.* 248.

*Oleum Cajepoet*. *Ploucq. bibl.* i. 131. 179. 220. 370. 425. *Spielm.* 245.

M. *Leucadendron*. Volatile oil. *Pharm. edin.*—  
*Lew. disp. by Dunc.* 251. *Murr. J. i.* 150.  
*Pears. R. ii.* 187.

Oil of Cajeput. *Thunb. account from in phys. journ.* i. 285.

## POLYANDRIA.

## 756. DURIO.

*Calyx* inferior, double; outer bisid; inner urceolate,

semiquinquesfid. Petals 5, inserted into the inner calyx. Style 1. Stamina in 5 fasciculi. Pomum quinquelocular. From Konig. L.

1. DURIO Zibethinus. L. a Murr. 698. Konig in lin. tr. vii. 267. t. 14. 15. 16. Thunb. trav. ii. 275.

DURIO. Rumph. i. 99. t. 29.  
Durion. Cook in Hawkesw. iv. 347.

### 757. HOPEA.

Calyx superior, quinquefid. Petals 5. Stamina in 5 fasciculi. Style 1. Drupe. Nut trilocular. L. from Garden.

1. HOPEA tinctoria. L. mant. 105. Michaux ii. 42. Walt. 189. Donn 187.

Symplocos tinctoria. L'Her. in lin. tr. i. 176.—In Symplocos martinicensis the stamina are described by Jacquin and Swartz as disposed in 4 rows, one row above another.

Arbor lauri folio, floribus ex foliorum alis pentapetalis pluribus staminibus donatis. Cat. i. t. 54.  
HOPEA. Schœpf 115.

### 758. HYPERICUM.

Calyx pentaphyllous and quinquepartite. Petals 5. Capsule. Obs. 3008. H. K. L.

1. Styles 5. L.

1. HYPERICUM bacciferum. Stem shrubby. Leaves

ovate. Corolla bearded. Calyces smooth. *L.*  
*fil. suppl.* 344. *L. mant.* 277.  
*H. guianense.* *Aubl.* ii. 784. *t.* 311.  
*Caopia.* *Pis. bras.* 60, *repr. in*  
*Caa-opia.* *Marcgr.* 96, & *Pis. ind.* 124. *Raii hist.*  
1631.  
*GUMMI GUTTAE americanum.* *Linn.* 211.  
*Murr. account from in med. comment.* xiv. 185.  
*Gummi americanum.* *Carth.* ii. 467.

2. Styles 3. Margin of the calyces entire. See *L.*  
*a Reich.* iii. 592.
2. HYPERICUM *enneandrum.* Stem terete. Leaves  
ovate, amplexicaul. Stamina 9, in 3 fasciculi.  
From  
*Gardenia.* *Garden & Miss Colden in phys. ess.* ii.  
2, &  
*HYPERICUM virginicum.* *L. sp.* 1104; &  
*Murr.* 701; *mant.* 455.—*Schoepf* 115.
3. HYPERICUM *Androsaemum.* Stem two-edged,  
frutescent. Leaves ovate, with microscopic dots.  
Fruit berrylike. *Obs.* 1739. Specimen gathered  
in Worcestershire on the side of Malvern hills on  
transition rock, and in Witchery hole near Clifton  
upon Teme, on gritstone.—*L. sp.* 1102. *Gou.*  
*hort.* 402. Near Montpelier.—*Curt. lond.* iii. 48.  
*t.* 206. *Bot. arr.* 812. Found by Mr. Watt near  
Pengwarry in Cornwall, and by Mr. Woodward  
in Hertfordshire near Berkhamstead and in the  
Duke of Bridgewater's woods at Askeridge.—*Smith*  
*brit.* 800. Found by Mr. Hepworth near North  
Walsham in Norfolk, and by Mr. Woodward at

Field Dalling; *engl. t.* 1225. *Turn. in lin. tr. v.* 238. Near Saltash in Cornwall.—*Sibth. ox. n.* 650.—*Northumb. guide i.* 71. Near Darlington in Durham.

*H.* floribus trigynis, fructu baccato, foliis ovatis pendunculo longioribus. *Guett. ii.* 450, who was informed that it was common in the neighbourhood of Moleon in Poitou.

*H. maximum*, *Androsaemum vulgare dictum*. *Raii syn.* 343. In the Lady holme in Winander mere in Westmorland.

*Androsaemum maximum frutescens*. *Tourn. paris.* 387. *Vaill. paris.* 12. *Boerh. i.* 242. *All. nic.* 179.

*Androsaemum*. *Blackw. t.* 94. *Dod. 79, repr. in Clymenon italicorum*. *Lob. obs.* 357; *ic. i.* 632, & *Ger. by Johns.* 543, & cop. in

*Androsaemum vulgare*. *Park. theatr.* 576, & *Androsaemum Dodonaei*. *Dalech.* 1156.

*Androsaemum aliud*. *Dalech.* 1157.

*Siciliana*, aliis *Ciciliana*, vel *Androsaemon*. *Bauh. J.* iii. 384.

*Androsaemon*. *Fuchs. 78. c. 25, cop. in*

*H. Androsaemum dictum*. *Bauh. J.* iii. 382.

*Androsaemon majus*. *Cam. hort.* 15. In the isle of Elba.

*Leaves*, lower obtuse, upper acute; dots transparent, numerous. *Obs.* 1739.

*Native* of the isle of Elba, county of Nice, France, Cornwall, Worcestershire, Oxfordshire, Hertfordshire, Norfolk, Durham and Westmorland.

*ANDROSAEMUM*. *Dale 234. Mill. Jos. 38. Rutty 26.*

*Siciliana*. *Geoffr. suite iii. 39.*

4. HYPERICUM *perforatum*. Stem two-edged, herbaceous. Leaves oblong and ovali-elliptic, with transparent dots. *Obs.* 4028. Near Chesterfield.—*L. succ. n.* 680; *sp.* 1105. *Curt. lond.* i. 57. *t.* *Bot. arr.* 814. *Smith engl. t.* 295; *brit.* 801. *Woodv.* i. 29. *t.* 10. *Huds.* 333. *Lightf.* 416. *Krock. n.* 1320. *Fl. dan. t.* 1043.

*H. vulgare.* *Tourn. paris.* 101. *Vaill. paris.* 106. *Boerh.* i. 241. In Holland.—*Park. theatr.* 572, cop. from

*Hypericon.* *Dod.* 76, which repr. in

*Hypericum.* *Ger. by Johns.* 539, *Lob. obs.* 216, & *ic. i.* 398. *Blackw. t.* 15. *Raii hist.* 1018; *syn.* 342. *Fuchs.* 789. *c.* 322, cop. in

*Herba perforata.* *Trag.* 72, &

*Melanthium sylvestre*, sive *arvense*. *Bauh. J.* iii. *a.* 209, (the name and descr. belonging to *Nigella arvensis*.)

*H. vulgare*, sive *Perforata caule rotundo, foliis glabris.* *Bauh. J.* iii. *b.* 381. No fig.

*Stigmata* blackish purple, convex, rough with convex points. *Obs.* 4028.

*HYPERICUM.* St. John's-wort. Flower. *Pharm. lond.*—*Alst.* ii. 150. *Dale* 233. *Geoffr.* iii. 606. *Herm.* 430. 518. *Hill* 445. *Lew.* i. 501; *by Dunc.* 238. *Linn.* 211. *Mill. Jos.* 238. *Monro* iii. 137. *Murr.* iii. 518. *Neum.* ii. 141. *Quar. febr.* 368. *Rutty* 243. *Schrod.* 604. *Spielm.* 382. *Vog.* 105.

*H. vulgare.* *Chom.* 684.

5. HYPERICUM *quadratum*. Stem square. Leaves with transparent dots. *Obs.* 4057. On the side of

a ditch on the south side of Chesterfield. July to Sept.

*H. quadrangulum.* *L. suec.* *n.* 679; *sp.* 1104.  
*Huds.* 334. *Curt. lond.* iv. 52. *t.* 331. *Smith engl.* *t.* 370; *brit.* 801. *Fl. dan.* *t.* 640. *Scop. carn.* ii. *n.* 943.

*H. quadrangulare.* *L. a Murr.* 701. *Host. austr.* 418. *Bot. arr.* 813. *Willd. ber.* 245. *n.* 755. *Retz. scand.* *n.* 929.

*H. perforatum,* caule quadrangulo, flore minore.  
*Vaill. paris.* 106. In marshy places.

*H. Ascyon dictum,* caule quadrangulo. *Raii syn.* 344.

*Ascyon.* *Raii hist.* 1019. *Dod.* 78, *repr. in Lob. obs.* 216; *ic. i.* 399, & *Ger. by Johns.* 542, *cop. in*

*Ascyrum vulgare.* *Park. theatr.* 575, & *cop. from Ascyrum.* *Matth.* 937. *Dalech.* 1155. *Cam. epit.* 676, inner fig. and separate leaf.

*Hyperici tertia species.* *Trag.* 75. *descr.*

*Hyperici duo genera in dumetis nascentia.* *Trag.* 73, inner fig.

*H. vulgare quod in humentibus provenit.* *Bauh. Casp. pin.* 279.

*Antherae* with a black gland at the point. *Obs.* 4057.

**HYPERICUM.** *Berg.* 640. *Lew. disp. by Dunc.* 342.

*Ascyrum.* *Dale* 233.

3. Styles 3. Calyces with glandular serratures.

*L. a Reich.* iii. 597.

6. **HYPERICUM montanum.** Stem terete, erect, gla-

brous. Leaves oblong and ovate, glabrous. *Obs.* 4129. Specimen gathered in the south of England. —*L.*, *a Murr.* 701; *suec.* n. 683; *sp.* 1105; *mant.* 456. *Bot. arr.* 815, *Smith engl. t.* 371. *Poll.* ii. n. 719. *Roth germ.* ii. *pars* ii. 232. *Asso n.* 741. *Fl. dan.* *t.* 173.

*Androsaemum campoclarens*e. *Col. ecphr.* i. 73. *t.* 74.

Hyperici duo genera in dumetis nascentia. *Trag.* 73, outer fig.

*Hypericum elegantissimum* non ramosum, folio lato. *Bauh. J.* iii. b. 383. *Rupp. ab Hall.* 124. *Ran* syn. 343.

*Androsaemum glabrum* non ramosum. *Magn. monsp.* 20.

(*Ascyrum*, *Fuchs.* 76. c. 24, *cop. in*

*Ocimoides* non speciosum. *Bauh. J.* iii. b. 344, is *H. dubium.*)

*Calyx*, segments serrate; teeth glandular. *Obs.* 4129.

Native of Europe from Spain to Sweden.

*HYPERICUM montanum*. *Krock. ii. n.* 1233.

## Class 19.

## SYNGENESIA.

I. *Corollae ligulatae.*

768. LAPSANA. *Receptacle* naked. *Pappus* none. *Obs.* 1412.
766. HIERACIUM. *Receptacle* naked. *Pappus* pilose, sessile. Seeds terete. *Obs.* 4026.
762. SONCHUS. *Receptacle* naked. *Pappus* pilose, sessile. Seeds compressed. *Obs.* 4101. *L.*
764. CHONDRILLA. *Receptacle* naked. *Pappus* pilose, stipitate. Seeds muriate at the end. *Obs.* 32.
763. LACTUCA. *Receptacle* naked. *Pappus* pilose, stipitate. Seeds compressed, striate. *Obs.* 8282.
765. PRENANTHES. *Receptacle* naked. *Pappus* pilose. *Involucra* with bracteae at the base, and mostly 5 flowers. *L.*
769. ZACINTHA. *Receptacle* naked. *Pappus* subplumose, sessile. Seeds of the radius incurvate.

760. SCORZONERA. *Receptacle* naked. *Pappus* plumose, sessile; secondary hairs lanuginose. *Obs.* 5458.
759. TRAGOPOGON. *Receptacle* naked. *Pappus* plumose, stipitate. *Seeds* striate. *Obs.* 4937.
761. PICRIS. *Receptacle* naked. *Pappus* plumose, stipitate. *Seeds* transversely rugose, *Obs.* 744.
771. SCOLYMUS. *Receptacle* paleaceous. *Pappus* none. *Obs.* 8284.
767. HYPOCHAERIS. *Receptacle* paleaceous. *Pappus* plumose, stipitate. *Obs.* 555.
770. CICHORIUM. *Pappus* multifid. *Obs.* 1007.

2. *Corollae tubular. Anthodia uniflorous.*

779. ECHINOPS. *Pappus* paleaceous, multifid. *Anthodia* uniflorous, multi-bracteate. *Obs.* 3339.

3. *Corollae tubular. Anthodia quadrisporous.*

780. ELEPHANTOPUS. *Pappus* aristate. *Anthodia* quadrisporous. *Obs.* 8824.

4. *Corollae tubular. Anthodia multiflorous, capitata.*

774. ONOPORDUM. *Receptacle* naked. *Pappus* pilose. *Obs.* 1589.

782. LIATRIS. *Receptacle naked. Pappus plumose. Obs. 7552.*
781. VERNONIA. *Receptacle naked. Pappus, outer paleaceous, inner pilose. From Willd.*
772. ARCTIUM. *Receptacle pilose. Pappus pilose, shorter than the seed. Obs. 1384.*
773. CARDUUS. *Receptacle pilose. Pappus pilose, longer than the seed. Obs. 6035.*
775. CINARA. *Receptacle pilose. Pappus plumose. Obs. 4857.*
778. CARTHAMUS. *Receptacle pilose. Pappus paleaceous and none. Obs. 6575.*
777. ATRACTYLIS. *Receptacle paleaceous. Pappus pluinose. Anthodia flosculose and radiate. Obs. 8812.*
776. CARLINA. *Receptacle paleaceous. Pappus plumose, branched. Obs. 4027.*
5. *Corollae tubular. Anthodia multiflorous, discoid.*
784. CACALIA. *Receptacle naked. Pappus pilose. Involucra cylindric, simple and with bracteae at the base. Obs. 7599.*
785. EUPATORIUM. *Receptacle naked. Pappus pilose. Involucra imbricate. Obs. 304.*
783. LAVENIA. *Receptacle naked. Pappus*

aristate; aristae clavate. *From Swartz.*

787. SANTOLINA. *Receptacle* paleaceous. *Pappus* none. *Corolla* with an appendage at the base. *Obs. 1532.*

786. CALEA. *Receptacle* paleaceous. *Pappus* pilose. *Involucra* imbricate. *From L.*

## 759. TRAGOPOGON.

*Receptacle* naked. *Pappus* plumose, stipitate. *Seeds* striate. *Obs. 4937. L.*

### 1. *Leaves entire.*

1. TRAGOPOGON *pratensis*. Bracteae of the involucra 8, as long as and longer than the outer flowers. Hairs of the pappus nearly of a length. *Obs. 4937. In meadows near Chesterfield.—L. suec. n. 684; sp. 1109. Bot. arr. 827. Fl. dan. t. 906. Smith brit. 812; engl. t. 434. Gaertn. ii. 368. t. 159.*

- T. *pratense luteum majus. Tourn. paris. 157. Vaill. paris. 194. Boerh. i. 90.*  
T. *luteum. Raii hist. 252; syn. 171. Lob. obs. 297, repr. in ic. i. 550, &*

*T. cum pappo.* *Dod.* 256, & *cop. in*  
*Narrow Goatsbeard.* *Pet. herb. t.* 15. *f. 6.*  
*T. sive Barba hirci.* *Malth.* 537; *a C. B.* 410.  
*Barbula hirci.* *Cam. epit.* 312.  
*Tragopogon.* *Park. par. t.* 511. *f. 8.* *Fuchs.* 780.  
*c. 317, cop. in*

*Barbula hirci.* *Trag.* 280, *which repr. in*  
*Hirci barba.* *Cord. sol.* 156. *p. 1,* & *cop. in*

*T. flore luteo.* *Bauh. J.* ii. 1058. *f. 1. f. 2.* *Besl.*  
*hort. aest. ord. 1: sol.* 13.

*Barba hirci.* *Dalech.* 1078.

*Involucra* 1 inch long when in flower, when in fruit  
 $1\frac{1}{2}$  long. *Obs.* 4938. Specimen gathered in Wor-  
cestershire.

**TRAGOPOGON** *pratense.* *Bry.* 48. 75. *Geoffr.*  
*suite iii.* 222. *Krock.* ii. *n.* 1238.

*Tragopogon.* *Dale* 84. *Murr.* i. 104. *Rutty* 521.  
*Vog.* 213.

*Barba hirci.* *Berg.* 643. *Linn.* 212.

*T. pratense luteum majus.* *Chom.* 275.

**2. TRAGOPOGON porrifolius.** Bracteae of the in-  
 volucra 12, as long as and longer than the outer  
 flowers. Peduncles dilated. Two and 3 of the  
 hairs of the pappus half as long again as the rest.  
*Obs.* 928. In a garden.—*L.* sp. 1110. *Bot. arr.*  
 828. *Roth germ.* i. 332. In shady meadows and  
 cultivated grounds in Bremen, Saxony, and near  
 Frankfort.—*Gou. hort.* 404. In meadows near  
 Montpelier.—*Fl. dan.* t. 797. *Smith engl.* t. 638;  
*brit.* 813. *Turn. and Sow. in lin. tr.* v. 238. In  
 marshes below Cooke's folly near Bristol.—*Jacq.*  
*coll.* i. 99; *ic.* i. *t.* 159. *Huds.* 336. Found by

Blackstone in marshes near Long Reach below Woolwich, and in meadows near Edmonton.

*T. purpuro-caeruleum*, *porrifolium*, *quod Artifi vulgo.*  
*Boerh.* i. 90.

*Tragopogon.* *Park. par.* t. 297. f. 7. *Dad.* 257,  
*repr. in Lob. obs.* 297, & *ic. i.* 550, *cop. in*

*Purple Goatsbeard.* *Pet. herb.* t. 15. f. 8, &

*Common Goatsbeard.* *Pet. herb.* t. 15. f. 7, (the  
name belonging to *T. pratense*,) *repr. in*

*T. purpureum.* *Ger. by Johns.* 735, and *cop. in*  
*Park. theatr.* 412; *par.* 302. No fig.—*Besl. hort. aest. ord.* 1. *fol.* 13. *Raii hist.* 252; *syn.*  
171. Found by Fitzroberts and by James Sherard in England; by Gunthorp in Cornwall according to Merret, and about Carlisle and Rose castle in Cumberland according to Nicholson in *Camd.* by Gibbs.

*Barbula hirci altera.* *Cam. epit.* 313.

*T. alterum.* *Matth.* 538; *a C. B.* 410. *Dalech.* 1079.

*Gerontopogon*, *sive Sassifica italorum.* *Dalech.* 1079.

*T. flore purpureo.* *Bauh. J.* ii, 1058. No fig.

*Involucra*, bracteae  $2\frac{1}{4}$  tenths of an inch broad.  
*Petal*  $1\frac{1}{4}$  tenth of an inch broad. *Obs.* 928.

*Native* of the south of France, and possibly of the north of Germany and of England, but probably in these latter countries only naturalised, and I am inclined to suspect that the plants observed were the immediate offspring of seeds blown out of gardens.

*TRAGOPOGON porrifolium.* *Bry.* 49. *Pears.*  
*R. i.* 58.

*T. hortense.* *Geoffr. suite* iii. 221.

*Tragopogon.* *Spielm.* 70.

## 760. SCORZONERA.

*Receptacle* naked. *Pappus* plumose, sessile; primary hairs glabrous; secondary hairs lanuginose. *Obs.* 5458. *L.*

1. *Leaves entire.*

1. SCORZONERA *humilis*. Leaves lanceolate, and linear-lanceolate, nervose, flat. Stem with 1 anthodium, nearly naked. *Obs.* 5455. Specimen from Prof. Jos. F. Jacquin.—*Obs.* 5456. Specimen gathered in Fothergill's garden.—*L. sp.* 1112; *suec. n.* 685. *Fl. dan. t.* 816. *Retz. scand. n.* 937. *Jacq. aust. i.* 24. *t.* 36. *Roth germ. i.* 334; *ii. pars ii.* 248. *Scop. carn. n.* 948. *Host* 420. *Krock. ii. n.* 1243. *Willd. ber. n.* 762.

SCORZONERA *humilis*. *Poll.* ii. *n.* 723.

Scorzonera. *Linn.* 212. *Murr.* i. 103. *Vog.* 211.

• *lancifolia*. Leaves lanceolate. *Obs.* 5455.

*S. humilis latifolia I.* *Clus. pann.* 635, *repr. in*

*S. humilis latifolia pannonica II.* *Clus. hist. ii.* 138, &

*Viperaria pannonica.* *Ger. by Johns.* 737, *cop. in* *Tragopogonis species, sive S. humilis latifolia,* *Bauk.* *J. ii.* 1061, *and abr. in*

*S. humilis latifolia.* *Park. theatr.* 409.

*Leaves* 6 tenths of an inch broad; margin microscopically crenate. *Petioles* lanuginose at the base on the inner side. *Obs.* 5455.

• *linearifolia*. Leaves linear-lanceolate. *Obs.* 5456.

*S. angustifolia.* *L. sp.* 1113.

*S. angustifolia prima.* *Tourn. paris.* 143. *Vaill. paris.* 180.

*Scorsonera pannonica* III. *Clus. pann.* 637, repr. in

*Scorsonera humilis angustifolia pannonica* III. *Clus. hist.* ii. 188, &

*Viperaria pannonica angustifolia.* *Ger. by Johns.* 737, & cop. in

*Tragopogonis species, sive S. humilis angustifolia.* *Bauh. J.* ii. 1061. Peduncles cylindrical.

Stem 6 and 7 inches long, shorter than the radical leaves, glabrous. Radical leaves 8 inches long,  $2\frac{1}{4}$  tenths of an inch broad, tapering each way. Petioles at the base on the inner side lanuginose. Peduncle cylindric. Involucra 8 tenths of an inch long. Obs. 5456.—Stem 5 inches long, lanuginose. Radical leaves  $1\frac{1}{4}$  tenth of an inch broad. Involucra 9 tenths of an inch long. Obs. 5457. Specimen from Prof. Jos. F. Jacquin.

2. *SCORZONERA hispanica.* Stem branched. Leaves semiamplexicaul, undulate; margin crenate. Obs. 5458. Specimen gathered in Fothergill's garden.—*L. sp.* 1112. *Hort. kew.* iii. 112. *Scop. carn.* n. 951. *Gaertn.* ii. 367. t. 159. *Host* 421. *Matth.* 539; *a C. B.* 410. *Dalech.* 1207. *Cam. epit.* 314. *Park. par.* t. 297. f. 6, abr. from *Scorzonera.* *Dod.* 256, which repr. in *Scorsonera major hispanica* I. *Clus. hist.* ii. 187, *S. viperaria.* *Lob. obs* 298, *S. sive Viperaria.* *Lob. ic.* i. 551, & *Viperaria, sive S. hispanica.* *Ger. by Johns.* 736, & cop. in
3. *major pannonica latifolia.* *Park. theatr.* 409.

S. caule ramoso, foliis amplexicaulibus integris undulatis. *L. ups.* 242. Seems to differ from *S. humilis* only in size and the divisions of the stem.

*S. latifolia sinuata.* *Boerh.* i. 89.

*S. et Viperaria.* *Blackw.* t. 406.

*Tragopogon hispanicus*, sive *Escorzonera* aut *Scorzonera*. *Bauh. J.* ii. 1060.

*S. hispanica major.* *Park. par.* 301. *Raii hist.* 248.

**SCORZONERA.** *Pharm. austriaco-prov.* 65. *suec.*—*Alst.* i. 515. *Berg.* 644. *Carth.* iv. 124. *Geoffr. suite* ii. 431. *Herm.* 80. *Hull phlegm.* 268. *Krock.* ii. n. 1244. *Lew.* ii. 356; *disp. by Dunc.* 347. *Mill. Jos.* 403. *Mon. ap. Clus. exot.* 15. *Quar. febr.* 368. 383. *Rutty* 474. *Schoepf* 116. *Sehreb. ap. Linn.* 212. *Sehrod.* 678. *Spielm.* 68.

*S. hispanica.* *Bry.* 41. *Pears. R.* i. 57.

*S. nostra.* *Dale* 83.

*S. latifolia sinuata.* *Chom.* 274; *suppl.* 88.

*S. italicica.* *Juch,* account from in *phys. journ.* v. 371.

3. **SCORZONERA purpurea.** Leaves linearis-subulate, canaliculato-triquetrous. Peduncles cylindric. *L. a Marr.* 7111; *sp.* 1113; *mant.* 456. *Scop. carn.* n. 949. t. 46. *Roth germ.* ii. *pars* ii. 250. *Jaeq. austr.* i. 23. t. 35.

*S. caule ramoso tereti, foliis linearibus acuminatis, calycibus obtusiusculis.* *Gmel. sib.* ii. 7. t. 2.

*S. foliis gramineis.* *Boerh.* i. 89.

*S. angustifolia subcaerulea.* *Raii hist.* 249.

*S. pannonica* V. *Clus. pann.* 639, *repr. in*

- S. angustifolia elatior pannonica* IIII. *Clus. hist.* ii.  
139, &  
*Viperaria angustifolia elatior.* *Ger. by Johns.* 737,  
& cop. in  
*S. minor angustifolia pannonica.* *Park. theatr.*  
409, the name and descr. belonging to another  
species,) &  
Tragopogonis species, sive *Scorsonera major angus-*  
*tifolia, subcaeruleo flore.* *Bauh. J.* ii. 1062.  
Inner fig. Outer fig. in fruit.  
Stem with 2 and 3 anthodia, 8 inches long, erect,  
broader than the leaves. *Obs.* 8280. Specimen from  
Prof. Jos. F. Jacqnnin.  
*SCORZONEERA subcaerulea.* *Dale* 83.  
*S. angustifolia subcaerulea.* *Chom.* 275.

## 761. PICRIS.

*Receptacle naked. Pappus plumose, stipitate. Seeds*  
transversely rugose. *Obs.* 744. *L.* *Vaill. paris.*  
101.

1. *PICRIS echiooides.* Five cordate bracteae surrounding the involucra. *Obs.* 744. Near Worcester.  
—*L. sp.* 1114. *Curt. lond.* iii. 51. *t.* 150. *Bot. arr.* 829. *Smith brit.* 814; *engl. t.* 972. *Gou. hort.* 406. Near Montpelier.  
*Helminitia echiooides.* *Gaertn.* ii. 368. *t.* 159.  
*Hieracium echiooides, capitulis cardui benedicti.* *Raii*  
*syn.* 166. *Tourn. paris.* 467. *Vaill. paris.* 103.  
*Boerh.* i. 86.  
*Buglossum echiooides luteum, hieracio cognatum.*  
*Lob. ic.* i. 577, *repr. in*

*Buglossum luteum.* *Ger. by Johns.* 798.

*Hieracium capitulis cardui benedicti, maximum*

*Buglossum echioïdes quibusdam.* *Bauh. J.* ii.  
1029.

*PICRIS echioïdes.* *Bry.* 141.

2. *PICRIS repens.* Outer involucra imbricate, short; inner cylindric, of 8 bracteae, glabrous. Stem creeping. *Lour.* ii. 583.

## 762. SONCHUS.

*Receptacle naked, Pappus pilose, sessile. Seeds compressed.* *Obs.* 4101. *L.*

1. *SONCHUS picroides.* Peduncles squamose. Upper leaves entire, amplexicaul; lower entire and runcinate. *Obs.* 4092. Specimen gathered in the Vienna garden, and examined 16 Sep. 1796.—  
*L. a Willd.* iii. 1517. *Gaertn.* ii. t. 158.

*Scorzonera picroides.* *L. sp.* 1114. *Hort. kew.* iii. 113. *Gou. monsp.* 344; *hort.* 406. Near Montpelier.

*Crepis foliis radicalibus ovato-oblongis denticulatis, caulinis lanceolatis amplexicaulibus, pedunculis unifloris squamosis.* *Roy.* 127.

*Chondrillis affinis quacdam laciniata.* *Magn. monsp.* 64.

*Crepis.* *Dalech.* 562.

*S. subrotundo folio, nostras, levissimis spinulis circa foliorum oras exasperatus.* *Pluk. alm.* 354; *phyt.* t. 61. f. 5, *cop. in*

Roundleaved Sowthistle. *Pet. herb.* t. 14. f. 1.

- S. laevis* Matthioli. *Lob. ic.* i. 236, *repr. in*  
*S. laevis* *augustifolius*. *Ger. by Johns.* 293, & *cop.*  
*in Park. theatr.* 806. Leaves pinnatisid and entire.  
 —*Boerh.* i. 85. *Magn. hort.* 188. *All. nic.* 84.  
*Chondrillis affinis* *quaedam laciniata*, *an Trinciatella?*  
*Bauh. J.* ii. 1021. At Montpelier.  
*Sonchis affinis*, *Terracrepola*. *Raii hist.* 225; *eur.*  
 239. *Bauh. J.* ii. 1018, from Dalech. (The fig.  
 a plant with a radiate anthodium.)  
*Leaves obovato-spatulate*; margin sparingly den-  
 tate. *Obs.* 4092.
- TERRACREPOLA*. *Geoffr. suite* iii. 101.

2. *SONCHUS oleraceus*. Peduncles when young to-  
 mentose, when fully grown glabrous. Involucra  
 glabrous, smooth. *Obs.* 4101. *L. sp.* 1116; *suec.*  
*n.* 688. *Bot. arr.* 832.
- ꝝ *laevis*. Leaves runcinate; prickles flexible. *Bot.*  
*arr. ꝝ β.* *L. sp. suec.* ꝝ β
- S. oleraceus*. *Curt. lond.* ii. 58. *t.* 123. *Smith*  
*engl.* *t.* 843. *Fl. dan.* *t.* 682.
- S. ramosus annuus*, *foliis laciniatis*. *L.* *lapp.* *n.*  
 289. In cornfields.
- S. laevis laciniatus latifolius*. *Boerh.* i. 85. In  
 Holland.
- Sonchus*. *Blackw. t.* 130.
- S. laevis latifolius*. *Tab. ic.* 190, *cop. in Ger. by*  
*Johns.* 292,
- S. laciniatus non spinosus*. *Bauh. J.* ii. 1016, &  
 Smooth broad Sowthistle. *Pet. herb.* *t.* 14. *f.* 8.
- S. laevis*. *Malp. 497.* *Blackw. t.* 130. *Raii syn.*  
 162. *Cam. epit.* 279. *Dod.* 632, *repr. in Ger. by*  
*Johns.* 292;

*S. laevis vulgaris*, soliis laciniosis dentis leonis.

*Lob. obs.* 119, & *ic. i.* 235, & *cop. in*

*S. laevis*, laciiniatis soliis. *Dalech.* 572.

*S. laevis tertius*, flore niveo. *Tab. ic.* 191, *cop. in*

Buddles jagged Sowthistle. *Pet. herb. t.* 14. *f.* 10.

*S. laevis minor*, paucioribus laciiniis. *Raii syn.* 163.

*S. asper*. *Dalech.* 572.

*S. laevis alter*, flore luteo. *Tab. ic.* 190, *cop. in*

Smooth jagged Sowthistle. *Pet. herb. t.* 14. *f.* 9.

Seeds elliptic, slightly compressed, striate; ridges scabrous; aculei deflex. *Pappus* pilose, sessile; hairs microscopically scabrous, of 2 sizes, the finer hairs 4 times finer than the thicker. *Obs.* 4101.

*SONCHUS laevis*. *Dale* 81. *Geoffr. suite iii.* 98.

*Mill. Jos.* 417.

*Sonchus*. *Bagl.* 54. *Murr. i.* 110. *Vog.* 120.

*S. laevis laciniatus latifolius*. *Chom.* 802.

*S. olraceus*. *Bry.* 144. *Krock. ii. n.* 1253. *Quar. anim.* 188.

$\beta$  *asper*. Leaves runcinate; aculei rigid.—*Bot. arr.*

$\gamma$ . *L. sp.*  $\gamma$ . *Fl. dan. t.* 843.

*S. asper laciniatus et non laciniatus*. *Boerh. i.* 85.

In Holland.

*S. asper laciniatus latifolius*. *Loes.* 257. *t.* 77.

*S. asper laciniatus angustifolius*. *Loes.* 258. *t.* 78.

*S. aspera*. *Matth.* 496.

*S. asper laciniatus*. *Park. theatr.* 804. No fig.—

*Raii hist.* 225; *syn.* 163.

*S. laevis vulgaris*. *Park theatr.* 805, (the name and descr. belonging to  $\alpha$ )

*S. non aspera*. *Fuchs.* 641. *c.* 262, *cop. in*

*S. laciniatus spinosus*. *Bauh. J.* ii. 1016, &

*Andryala minor*. *Dalech.* 563.

Prickle jagged Sowthistle. *Pet. herb. t.* 14. *f.* 5.

*SONCHUS asper.* *Gaertn.* ii. t. 158.—*Dale* 81.  
*Mill.* *Jos.* 417.

γ *integrifolia.* Leaves entire; margin aculeate. *Obs.* 745. In a wood where the underwood had been cut down. 20 Nov. 20 July.—*L. sp.* δ. *Bot. arr.* δ *S. asper non laciniatus.* *Raii hist.* 225; *syn.* 163. *Boerh.* i. 85. In Holland.

*S. aspera.* *Fuchs.* 640. c. 262, *cop. in* *Andryala major.* *Dalech.* 563.

*S. tertius asperior.* *Dod.* 632, *repr. in* *S. tenerior, aculeis asperior, aut horridiuscula.* *Lob.* *obs.* 118,

*S. laevis tenerior.* *Lob. ic. i.* 235, &

*S. asperior.* *Ger. by Johns.* 291, & *cop. in Dalech.* 571,

*S. asper major non laciniatus.* *Park. theatr.* 803,

*S. minus laciniosus asperior sive spinosior.* *Bauh.*

*J. ii.* 1014, &

Pickle dented Sowthistle. *Pet. herb. t.* 14. f. 4.

*SONCHUS asper.* *Blackw.* t. 30.—*Geoffr. suite* iii. 100.

*S. asper non laciniatus.* *Chom.* 802.

3. *SONCHUS alpinus.* Pedicles squamose. Anthodia racemose. Leaves pinnatifid. *From L. succ.* n. 689; *sp.* 1117, & *Smith ic. t.* 21. (*Fl. dan. t.* 182, & *Bot. arr.* 833, are *S. canadensis.*)

*S. lapponicus.* *Retz. scand.* n. 947; *L. a Willd.* iii. 1520. *Donn* 190.

*S. lapponum altissimus, floribus caeruleis.* *L. lapp.* n. 290.

(*S. caule erecto, foliis pinnato-hastatis apice cordato-*

triangulis, floribus racemosis. *L. cliff.* 385, is *S. canadensis.*)

*SONCHUS alpinus.* *Bry.* 73. *Krock.* ii. n. 1254.  
*S. laevis laciniatus caeruleus*, sive *S. alpinus caeruleus.* *Vog.* 120.

4. *SONCHUS pallidus.* Racemus compound, terminal. Leaves lanceolato-ensiform, amplexicaul, dentate. *L. a Willd.* 1521, from *Lactuca canadensis.* *L. a Murr.* 713; sp. 1119, where at l. 10, read *L. sativa, caule altiore.* — *Hort. kew.* iii. 118.

*LACTUCA.* *Cutl.* 475.

### 763. LACTUCA.

Receptacle naked. Pappus pilose, stipitate. Seeds compressed, striate. *Obs.* 8282. 351. *L.*

#### 1. *Anthodia quinqueflorous.*

1. *LACTUCA muralis.* Leaves lyrate. *Obs.* 4344.

On banks.—*Gaertn.* ii. t. 158.

*Chondrilla muralis.* *Gaertn.* ii. 363.

*Prenanthes muralis.* *L. sp.* 1121. *Bot. arr.* 837.

*Curt. lond.* v. 58. t. 306. *Smith brit.* 821; *engl.* t. 457. *Fl. dan.* t. 509.

*Sonchus laevior vulgaris II.* *Clus. hist.* ii. 146, repr. in

*Sonchus alter, folio profundis laciniis sinuato hederaceo.* *Lob. obs.* 119, & *ic.* i. 236, *cop. in*

Ivy Lettuce. *Pet. herb.* t. 15, f. 5, *repr. in*

*Sonchus laevis muralis.* *Ger. by Johns.* 293, & *imit. in*

L. silvestris murorum, flore luteo. *Bauh. J.* ii.  
1004. *Raii syn.* 162.

*Seeds* striate, blackish rufous, scabrous above; aculei microscopic, patulous. *Pappus* pilose, stipitate; stipes shorter than the breadth of the seed, tawny; hairs microscopically scabrous. *Obs.* 4344.  
*CHONDRILLA.* *Willd. ber.* 251.

2. *Anthodia multiflorous.*

2. LACTUCA *Scariola*. Leaves aculeate along the costa underneath, vertical. *From L. sp.* 1119. *Bot. arr.* 834. *Smith engl. t.* 268; *brit.* 820. *Relh. ed. ii.* 305. At Hazenfield, between Histon and Rampton, between Long Stanton and Swavesey, and Burwell Pit, in Cambridgeshire.—*Host* 425. *Roth germ. i.* 338; *ii. b.* 258. *Krock. ii. n.* 1256. *Poll. n.* 728. Seeds striate, glabrous.

L. virosa. *Collin obs. vi. praef. p. ix. t.*

L. virosa laciniata. *Gou. hort.* 408.

L. caule foliisque aculeatis. *Ger. L.* 162. *var.*

L. foliis semipinnatis nervo spinoso. *Hall. hist. i.* n. 14.

Endivia. *Brunsf.* iii. 38.

L. sylvestris, costa spinosa. *Raii cant.* 82. By the wayside from Ely to Cambridge within a mile or two of Ely; *hist.* 222; *syn.* 161. *Tourn. paris.* 106. *Vaill. paris.* 112. *Boerh.* i. 81. In Holland.

L. sylvestris, folio laciniato dorso spinoso. *Magn. monsp.* 148.

Endivia major lactucina spinosa. *Barrel. t.* 135.

L. silvestris Matthioli. *Dalech.* 547, *repr. in* *Lauctue sauvage de Matthiol.* *Dalech. plantes i.* 460.

*L. sylvestris laciniata*. *Park. theatr.* 814, *cop.*  
*from*

*L. sylvestris*. *Cam. epit.* 300, which imit. with  
additions from *Matth.* 522. *Fuchs.* 298. c. 114,  
imit. in *Trag.* 259, *cop.* in *Dod.* 635, which repr.  
*in*

*L. sylvestris, foliis dissectis*. *Ger. by Johns.* 309,  
*cop. in*

*L. sylvestris, sive Endivia multis dicta, folio lacini-  
ato dorso spinoso*. *Bauh J.* ii. 1001, &

*L. sylvestris spinosa*. *Hist. ox. s. 7. t. 2. row 2. f.*  
17.

*L. sylvestris italicica, costa spinosa, sanguineis maculis  
aspersa*. *Herm. par.* 191. t.

*Endivia vulgatior officinarum*. *Lob. obs.* 118, *repr.*  
*in*

*Seris domestica*. *Lob. ic.* i. 234.

*Native of France, Germany, Holland, and Cam-  
bridgeshire*.

*LACTUCA sylvestris*. *Collin obs.* vi. 1. *Dale*  
80. n. 3. *Lew.* ii. 38.

*L. sylvestris, costa spinosa*. *Geoffr.* iii. 655.

3. *LACTUCA virosa*. Leaves aculeate along the costa  
underneath, horizontal. *Obs.* 8282. On the north  
side of the road from Chartley castle to Weston in  
Staffordshire. 30 July.—*L. sp.* 1119. *Gou. hort.*  
408  $\alpha$  Near Montpelier.—*Host* 426. In Litorali  
and Friuli.—*Scop. carn.* n. 960, but the seeds  
described as having striae tuberculated above the  
middle.—*Woodv.* iv. 99. t. 250. *Relh.* n. 562.  
Burwell Pit; *ed.* ii. n. 632. *Sibth. ox.* n. 660.  
*Smith brit.* 819. *Lightf.* 429. At the foot of  
Arthur's seat near Edinburgh.

- L. silvestris vera.* *Dalech.* 547, *repr. in*  
*Laictue sauvage vraye.* *Dalech. plantes i.* 461, &  
*cop. in*
- L. sylvestris*, *odore viroso.* *Hist. ox. s. 7. t. 2.*  
*row 3. f. 16. Boerh. i.* 81. *Magn. monsp.* 148.
- L. sylvestris lato folio, succo viroso.* *Bauh. J. ii.*  
*1002.*
- Endivia.* *Trag.* 268, *cop. in*  
*Thesion.* *Dalech.* 564, & *repr. in*
- L. agrestis.* *Cord. fol.* 157. *p. 2. Lob. adv.* 89,  
*cop. in*
- L. sylvestris endiyiae foliis, odore viroso.* *Park.*  
*theatr.* 813, & *repr. in*
- L. sylvestris major, odore opii.* *Ger. by Johns.* 309.  
*Raii hist.* 219 ; *syn.* 161.

Of a purplish hue. *Stem* erect and oblique, 6 feet long, paniculate above, aculeato-hispid below, smooth above. *Branches* shorter than the stem, nearly erect; upper ascending. *Leaves* amplexicaul, dentate; lower obovato-oblong; upper mostly sinuate and runcinate; *floral leaves* cordate, acute, adpressed, those of the primary branches as long as the flowers, those of the smaller branches shorter than the flowers. *Seeds* lanceolate, striate, roughish, purplish brown, when thoroughly dry brownish black. *Pappus* pilose, stipitate; stipes as long as the seed, white; hairs microscopically scabrous. *Obs.* 8282.

*Natire* of France, Germany, and Britain, on grayel, but observed by Dr. Smith only on calcareous soil.

*LACTUCA virosa.* *Leaves.* *Pharm. edin.—Lew.*  
*disp by Dunc.* 243. *Linn.* 213. *Murr. J. i.* 134.  
*303; ii. 22. Quar. anim.* 188. *Stoll med.* iii. 300.  
*L. sylvestris, costa spinosa.* *Chom.* 800.

*L. sylvestris*. *Dale* 80. *n. 2*. *Monro* iii. 153. *Murr.* vi. 13. *Rutty* 270.

*L. graveolens*. *Lew.* ii. 39.

4. **LACTUCA sativa.** Radical leaves oblong and lanceolate, denticulate at the margin; caudine leaves cordate. Stem corymbose. *Obs.* 351. In a garden.—*L. a Murr.* 713; *sp.* 1118. *Hort. kew.* iii. 117. *Boerh.* i. 82. *Lour.* ii. 583.

ꝝ *patula*. Lower leaves patulous, oblong, rugose. Seeds white. *From Geoffr.* *L.*, *sp. a*

*L. sativa vulgaris non capitata*. *Bauh. J.* ii. 997, f. 1, &

*L. lata*. *Trag.* 258, *cop. from*

*L. sativa*. *Fuchs.* 297. c. 114, & *cop. in*

*L. crispa*. *Dalech.* 546, the whole of the figures excepting the 2 lower leaves.—*Matth.* 520. No fructifications.—*Dod.* 633, *repr. in Ger. by Johns.* 306,

*L. sativa, folio scariolae*. *Lob. obs.* 121, & *ic.* i. 241.

*L. florescens*. *Matth.* 521.

Seeds compressed, lanceolate, striate. *Pappus* pilose, stipitate; stipes shorter than the seed; hairs microscopically scabrous. *Obs.* 351.

**LACTUCA**. *Pharm. austriaco-prov.* 44.—*Alst.* ii. 153. *Carth.* i. 334. *Dale* 80. *Herm.* 410. *Linn.* 213. *Mead mon.* ii. 121. *Mill. Jos.* 253. *Murr.* i. 108. *Ploucq. bibl.* i. 477. *Quar. febr.* 321; *anim.* 65. *Schoepf* 116. *Schrod.* 611. *Spielm.* 56. *Vog.* 106.

*L. sativa*. *Bry.* 102. *Chom.* 800. *Coxe*, account from *in phys. journ.* vi. 396, *chir. rev.* viii. 99,

- & med. rev. vi. 20. Lew. ii. 38; disp. by Rother.  
184. Pears. R. i. 51, Rutty 268.
- L. sativa, non capitata. Geogr. iii. 642.
- Lettuce. Und. i. 113.
- Lettice. Darw. ii. 40.
- § planifolia. Lower leaves flat, lanceolate-oblong;  
upper ovato-sagittate. Obs. 351. L. sp. α
- L. romana longa dulcis. Bauh. J. ii. 998. Seeds  
black.
- L. intybacea. Ger. by Johns. 307, cop. in
- L. sativa. Park. theatr. 812.
- L. oblongo folio acuto. Park. theatr. 812. Root  
and leaves.
- L. patula. Park. par. t. 497. f. 6.
- LACTUCA romana. Geogr. iii. 648.
- L. romana longa dulcis. Chom. 800. Dale 81.
- γ capitata. Lower leaves curled, rugose, slightly sinu-  
ate; upper oblongo-sagittate. Obs. 351. In a  
garden.—L. sp. β
- Lactuca. Blackw. t. 88.
- L. capitata romana. Park. par. t. 497. f. 7, cop.  
from
- L. capitata, crispis brassicac foliis. Lob. obs. 121,  
which repr. in
- L. sativa sessilis, sive capitata. Lob. ic. i. 242,
- L. capitata. Dod. 634, & Ger. by Johns. 307, &  
cop. in Hist. ox. s. 7. t. 2. row 2. f. 2. Boerh.  
i. 82. Fuchs. 297. c. 114, cop. in
- L. sativa vulgaris capitata. Bauh. J. ii. 997. f. 2,  
&
- L. sativa. Dalech. 546.
- LACTUCA capitata. Dale 81.
- L. sativa capitata. Geogr. iii. 643.
- L. sessilis. Ware ophth. 64. 92.

δ *crispa*. Lower leaves rotundo-ovate, rugose, sinuato-dentate; upper oblongo-sagittate, sinuato-dentate.

*Obs.* 351. *L. sp. γ*

*L. crispa laciniata*. *Bauh. J.* ii. 999. *Boerh.* i. 82.

*L. crispa*. *Raii hist.* 219. *Dod.* 633, *repr. in Ger.* by *Johns.* 306. *Park. par. t.* 497. *f. 5.* *Fuchs.* 297. *c. 114, cop. in Trag.* 258,

*L. crispa Dodonaei et Fuchsii*. *Dalech.* 546, &

*L. sativa vulgaris*. *Bauh. J.* ii. 997. *f. 1*, the 2 lower leaves.

*L. capitata romana*. *Park. par. t.* 497. *f. 8?*

5. *LACTUCA indica*. Leaves lanceolato-ensiform, sessile, unequally dentate. *L. mant.* 278.—*Lour.* ii. 585.

## 764. CHONDRILLA.

*Receptacle naked. Pappus pilose, stipitate. Seeds muricate at the end. Obs. 32. Gaertn. ii. 363. L.*

1. **CHONDRILLA Taraxacum.** Scapus with 1 antherodium. Lowermost bracteae of the involucrum reflex. *Obs. 32.* In meadows.

*Leontodon Taraxacum*. *L. suec.* n. 693; *sp.* 1122; *a Murr.* 715. *Curt. lond.* i. 58. *t. Mill. J. ill. t.* 66. *Walc. t. Gaertn. t.* 158. *Fl. dan. t.* 574. Scapus represented as pubescent.—*Woodv.* i. 7. *t.* 3. *Huds.* 339. *Lightf.* 432. *Bot. arr.* 838. *Assa* n. 760. *Poll.* ii. *n.* 734. *Smith brit.* 822; *engl.* *t.* 510. *Gou. hort.* 410. Near Montpelier.

*Hedypnois Taraxacum*. *Scop. carn.* ii. *n.* 957.

*Taraxacum officinale.* *Willd. ber. n.* 772. *Roth germ.* i. 334; ii. *pars ii.* 247.

*Leontodon.* *L. lapp.* *n.* 280.

*Hedypnois*, sive *Dens leonis.* *Fuchs.* 644. *c.* 263, *cop. in Bauh. J.* ii. 1035, & *imit. in*

*Hieracium majus.* *Trag.* 262.

*Dens leonis latiore folio.* *Boerh.* i. 88. In Holland.

*Dens leonis.* *Brunsf.* iii. 70. *Blackw. t. 1. Raii hist.* 244; *syn.* 170. *Dod.* 625, *repr. in Ger. by Johns.* 290,

*Dens leonis vulgi.* *Lob. obs.* 117, &

*Dens leonis vulgi*, sive *Urinaria.* *Lob. ic.* i. 232, & *cop. in*

*Dens leonis vulgaris.* *Park. theatr.* 780,

*Hedypnois.* *Dalech.* 564.

*Leaves*, segments triangular, dentate at the upper margin. *Seeds* slightly compressed, tetragonal, striate, muricate at the end; points patent. *Pappus* pilose, stipitate; hairs microscopically scabrous; *stipes* thrice as long as the seed. *Obs.* 32.

*Native* of Europe from Italy and Spain to Lapland.

**TARAXACUM.** Dandelion. Root. Herb. *Pharm. lond.* & *noviss.*—*Bang in act. haun.* i. 7. *Berg.* 647. *Carth.* iv. 105. *Cull.* i. 265. *Delius quoted in med. comment.* viii. 35. *Fuller pharm.* 250. *Linn.* 213. *Murr.* i. 105. *Pemberton, account from in chir. rev.* xii. 419. *Ploucq. bibl.* i. 483. 486. *Quar. febr.* 144. 162. 163. 315. 350; *anim.* 22. 36. 40. 49. 123. 138. 171. 199. 200. 240 to 244. 252. 254. 261. 274. *Ranoe in act. haun.* i. 459. *Schoepf* 117. *Schrod.* 691. *Stoll*

*med.* ii. 44. 163. 204. 347. 357. 403; iii. 7. 18. 22. 27. 36. 109. 115. 129. 130. 135. 158. 168. 192. 188. 185. 287. 299. 376. 377; *aph.* n. 467. *Wintr. in Mead. mon.* i. 109. *Vog.* 83. 212.

*Dens leonis.* *Alst.* i. 432. *Dale* 83. *Geogr.* iii. 398. *Lew.* i. 396. *Mill. Jos.* 175. *Monro* iii. 89. *Rutty* 166.

*Leontodon Taraxacum.* *Pharm. edin.—Bry.* 102. *Krock.* ii. n. 1. 66. *Lew. disp. by Dunc.* 248. *Pears. R.* i. 202.

*Dens leonis latiore folio.* *Chom.* 204. 196; *suppl.* 65.

*Dandelion.* *Lind seam.* 20. *Rush* ii. 128.

2. *CHONDRILLA sinensis.* Scapus with 1 anthodium. Uppermost bracteae of the involucrum reflex. *From Lour.* ii. 584. Pappus whether stipitate not described.

## 765. PRENANTHES.

*Receptacle naked. Involucra* with bracteae at the base. *Pappus* pilose, subsessile. *Flowers* in a single row. *L.*

1. *PRENANTHES rubicunda.* Anthodia multiflorous, nodding. Leaves ciliate; lower obovate, attenuate at the base, subangular; uppermost lanceolate, entire at the margin. Racemus simple. *From L. a Wild.* iii. 1537.

*P. autumnalis*, flore dilute purpureo deorsum nutante spicatim ad caulem disposito, foliis scabris

iucisis, caule singulari. *Gron.* *virg.* 113; *ed. i.* 89.

*PRENANTHES* alba. *L.* *sp.* 1122.  $\beta$ —*Schoeps* 116.

## 766. HIERACIUM.

*Receptacle* naked. *Pappus* pilose, sessile. *Seeds* terete. *Obs.* 4026. *L.*

### 1. *Scapus with 1 anthodium.* L.

1. **HIERACIUM Pilosella.** Leaves lanceolato-oblong, tomentose underneath. Shoots creeping. *Obs.* 412. On dry banks.—*L. suec.* *n.* 697; *sp.* 1125. *Curt. lond.* iv. 54. *t.* 279. *Walc. t. Bot. arr.* 845. *Fl. dan.* *t.* 1110. *Asso n.* 764. *Smith brit.* 828; *engl. t.* 1093. *Gou. hort.* 412. Near Montpelier, Dens leonis, qui *Pilosella officinarum*. *Vaill. paris.* 47. *Boerh.* i. 89.  
*Pilosella major* repens hirsuta. *Tourn. paris.* 516.  
*Pilosella.* *Blackw. t.* 365.  
*Pilosella minor.* *Cam. epit.* 708.  
*Auricula muris minor.* *Trag.* 278, &  
*Pilosella majori flore, sive vulgaris repens.* *Bauh. J.* ii. 1039, *cop. from*  
*Pilosella major.* *Fuchs.* 579. *c. 231.* *Cam. epit.* 709.  
*Dalech.* 1098. *Dod.* 67, *cop. in*  
*Pilosella minor vulgaris repens.* *Park. theatr.* 690,  
& *repr. in*  
*Pilosella repens.* *Ger. by Johns.* 638. *Raii hist.* 242; *syn.* 170.  
*Pilosella media vulgaris erecta.* *Park. theatr.* 690;  
*Natit of Europe from Spain to Sweden.*

*PILOSELLA*. Alst. ii. 197. *Geoffr. suite* i. 406. *Herm.* 563. *Lew.* ii. 217. *Murr.* i. 111. *Vog.* 135.

*Auricula muris*. *Dale* 83. *Linn.* 214. *Mill:* *Jos.* 68. *Schrod.* 542.

*Piloselle*. *Chom.* 571; *suppl.* 161:

2. *HIERACIUM bulbosum*. Scapus hirtose and thickening above. Leaves lanceolato-oblong, subdennate, glabrous. Involucrum glabrous. *L. a Willd.* iii. 1562, from authors.

*Leontodon bulbosum*. *L. sp.* 1122. *Gou. hort.* 410. Near Montpelier.

*Chondrilla altera* *Dioscoridis*. *Col. phytob.* 11. t. 4. *Chondrilla pusilla maritima lutea bulbosa*. *Magn. monsp.* 64.

*Candrilla pusilla marina lutea bulbosa*. *Lob. adv.* 83, *cop. in ic.* i. 230, *which repr. in*

*Chondrilla marina Lobelii*. *Ger. by Johns.* 288, & *cop. in*

*Cichorium bulbosum*. *Bauh. J.* ii. 1038, &

*Chondrilla bulbosa*. *Park. theatr.* 783. *Raii eur.* 94.

*HAEMORRHOIDALIS*. *Dale* 83.

2. *Scapus with many anthodia*. *L. a Willd.*

3. *HIERACIUM venosum*. Scapus nearly leafless, paniculate. Leaves lanceolato-obovate, hirtose. Peduncles and involucra with glandular hairs. *Obs.* 8808. Specimen gathered by Dr. Cutler in New England.—*L. sp.* 1125. *Donn* 191.

*H. foliis cuneiformibus hirtis, caule nudo crassissimo erecto*. *Gron. virg.* ed. i. 89; ed. ii. 114;

• *integerrimum*. (Variation.) Leaves entire at the margin. *From*

*H. Gronovii nudicaule*. *Michaux* ii. 87, &

*HIERACIUM venosum*. *L. a Willd.* iii. 1570.—  
*Schoepf* 117.

✗ *dentatum*. (Variation.) Leaves dentate. *Obs.* 8808.

Leaves from 1 to  $3\frac{1}{2}$  inches long, radical and inserted into the base of the scapus, more or less hirsute, some pubescent underneath, others nearly glabrous above, attenuate below into petioles; veins purplish black. Scapus finely attenuate, 20 inches long, glabrous below, paniculate at the end. Panicle 6 inches long, with 15 anthodia; branches slender, pubescent. *Involucra* obconic, 3 tenths of an inch long; bracteae ensiform, nearly glabrous towards the end; lowermost much shorter. *Corollae* yellow,  $1\frac{1}{2}$  as long as the involucrum. Seeds striate, microscopically and obsoletely aculeate, black. *Pappus* simple, microscopically aculeate, somewhat longer than the seed, tawny! *Obs.* 8808.

*HIERACIUM caule erecto multifloro, foliis lanceolatis dentatis, pedunculis tomentosis*. *Cutl.* 476.

### 3. Stem mostly leafy.

4. *HIERACIUM Gronovii*. Stem paniculate, nearly leafless. Radical leaves obovate, entire at the margin, pilose. *L. sp.* 1127; *mant.* 458. *Michaux* ii. 87 β

*H. caule paniculato subnudo, foliis radicalibus obovatis integerrimis pilosis*. *Gron. virg.* 114;

*H. Marianum, pulmonariae gallicae subrotundo folio*. *Pluk. mant.* 102; *phyt. t.* 420. f. 2.

*HIERACIUM* Gronovii. Schoepf 117.

5. *HIERACIUM murorum*. Leaves dentate; radical leaves elliptic and ovate; caudine leaves sessile.  
*Obs.* 4026. On the side of the road between Glapwell and Pleasley in Derbyshire.—*L. suec.* n. 701; sp. 1128. *Lightf.* 437. *Krock.* ii. n. 1288. *Bot. arr.* 847. *Smith brit.* 830.

$\alpha$  *ovatifolium*. (Variation.) Radical leaves ovate, acute. *Obs.* 4026. *L. sp.* 1128  $\alpha$ . *Bot. arr.* 847  $\alpha$

II. *murorum*, folio pilosissimo. *Raii syn.* 168. *Tourn. paris.* 97. *Vaill. paris.* 101. *Boerh.* i. 87.

*Pulmonaria maculosa hispida*. *Munt. phyt. t.* 233.

*Auricula muris major*. *Trag.* 276, cop. in

*Cochchorus*. *Dalech.* 565, which repr. in

*Pulmonaria gallorum*. *Dalech.* 1328.

*Pulmonaria gallica*, sive *aurea latifolia*. *Ger. by Johns.* 304.

*Hieracii quoddam genus*. *Clus. hist.* ii. 170. No fig.

*HIERACIUM*. *Boerh.* 130.

*Pulmonaria gallica*. *Dale 82.*

*Pulmonaria gallorum*. *Geoffr. suite* ii. 110.

*Pulmonaria gallorum*, flore hieracii. *Lob. adv.* 253. No fig.

## 767. HYPOCHAERIS.

*Receptacle paleaceous*. *Pappus* plumose, stipitate.  
*Obs.* 555. *L.*

1. *HYPOCHAERIS maculata*. Scapus simple, with

a single branch, and stem with from 1 to 5 anthodia. Leaves hirsute, lanceolato-oblong and oblong, dentate. *Obs.* 4941. Specimen from Prof. Jos. F. Jacquin. The account of the stem from *Scop. and Relh.* ed. ii. n. 649; ed. i. n. 579. *L. suec.* n. 708; sp. 1140, *Poll.* n. 754. *Host austr.* 437. *Roth germ.* i. 331; ii. pars ii. 236. *Reich. franc.* n. 544. *Willd. ber.* n. 789. *Bot. arr.* S58; ed. iv. 675. Found by Mr. Hall on Omphrethead near Cartmell wells in Lancashire, and by Mr. Caley near Ottermine cove near Settle in Yorkshire.—*Smith engl. t.* 225; *brit.* 840. *Fl. dan. t.* 149. *Gou. hort.* 416. Near Montpelier.

*Achyrophorus maculatus.* *Scop. carn.* ii. n. 986.

*Hypochoeris.* *L. lapp.* n. 288.

*Hieracium caule unifloro,* foliis dentatis hirsutis.

*Hall. hist.* i. 2. n. 2.

*Hieracium alpinum,* foliis dentatis, flore magno.

*Hall. hist.* i. t. 1. at p. 24.

*Hieracium alpinum latifolium hirsutum incanum,* flore magno. *Vaill. paris.* 104.

*Hieracium alpinum latifolium hirsutum incanum,* flore magno, maculatum. *Vaill. paris.* 104.

*Hieracium alpinum latifolium non maculatum,* hirsutie incanum, flore magno. *Tourn. paris.* 470.

*Hieracium alpinum latifolium maculatum hirsutie incanum,* flore magno. *Tourn. paris.* 469. *Boerh.* i. 86.

*Hieracium primum latifolium.* *Raii hist.* 239; *syn.* 167. On the banks of the Devil's ditch near Reche in Cambridgeshire not far from Newmarket, and on Barnack Heath in Northamptonshire near Stam-

ford.—*Clus. hist.* il. 139, *repr. in Ger.* by *Johns.* 301, & *repr. from*

*Hieracium I.* *Clus. pann.* 641, & *cop. in*

*Hieracium latifolium pannonicum.* *Park. theatr.* 799, &

*Hieracium pannonicum latifolium.* *Bauh. J.* ii. 1026.

Dens leonis foliis integris, caule raris foliis vestito, monanthes fere. *Raii hist.* 244. 1920. Found by Dale near Bartlow in Essex on the borders of Cambridgeshire.

*Hieracium montanum non ramosum,* caule aphylo, flore pallidiore. *Raii cat. ed.* i. 167; *ed.* ii. 162.

On the banks of the Devil's ditch.

*Costa.* *Cam. hort.* 49.

*Scapus* with a single branch, with 1 leaf 2 inches above the base. *Branch* as long as the *scapus*, thinner, with 1 anthodium. *Germen* attenuate, striate, scabrous at the end. *Stipes* scabrous; points very short. *Pappus* plumose; hairs pilose and scabrous; secondary hairs glabrous. *Obs.* 4941.

Native of Hungary, Germany, France, Scandinavia, Northamptonshire, Cambridgeshire, Yorkshire, and Lancashire, found in England on calcareous soil.

*HYPOCHAERIS maculata.* *Bry.* 101. *Krock.* ii. n. 1315.

*Herba Costa.* *Dale* 82.

2. *HYPOCHAERIS radicalis.* *Scapus* branched and simple, glabrous. *Peduncles* bracteate. *Leaves* runcinate sinuate and dentate. *Obs.* 555. In a meadow.—*L.* sp. 1440; *suēc.* n. 709. *Bot. art.*

860. *Cart. lond.* iii: 52, *t.* 152. *Fl. dan.* *t.* 150.  
*Smith brit.* 842; *engl. t.* 831.

*Hieracium dentis leonis folio obtuso, majus.* *Tourn. paris.* 98. 468. *Vaill. paris.* 101. *Boerh.* i. 87.  
*Hieracium macrocaulon juncenum, sive minus primum Dodonaeo.* *Bauh. J.* ii. 1031.

*Hieracium tertium.* *Dod.* 628, *repr. in Hieracium longius radicatum.* *Lob. obs.* 120; *ic. i.* 238, & *Ger. by Johns.* 298, *and cop. in Park. theatr.* 790. *Raii hist.* 230; *syn.* 165.

Rough branched Dandelion. *Pet. herb. t.* 11. *f. 11.*

Seeds terete, attenuate each way, striate, rufous; ridges microscopically muricate. *Pappus* plumose, stipitate; stipes longer than the seed, microscopically setaceous, attenuate at the end, muricate to near the end; hairs pilose, scabrous; lateral hairs glabrous, patent. *Obs.* 555.

*HIERACIUM.* *Dale* 82. *Mill. Jos.* 231.

## 768. LAPSANA.

Receptacle naked. *Pappus* none. *Obs.* 1412. *L.*

1. *LAPSANA communis.* Seeds erect. Stem branched. Leaves ovate, angulato-dentate. *Obs.* 1412. In gardens, and on rubbish.—*L. succ.* *n.* 710; *sp. 1141.* *Guerln.* ii. 353. *t.* 157. *Curt. lond.* i. 59. *t.* *Krock.* ii. *n.* 1318. *Asso n.* 777. *Fl. dan.* *t.* 500. *Bot. arr.* 861. *Smith brit.* 842; *engl. t.* 841. *Gou. hort.* 417. Near Montpelier.

*Lampsana.* *Boerh.* i. 93. In Holland.—*Raii syn.*

173. *Dod.* 664. *Lob. obs.* 104, *repr. in ic.* i.  
207, & *Ger. by Johns.* 255, *cop. in*  
*Lampsana vulgaris.* *Park. theatr.* 810, &  
*Lampsana Dodonaei.* *Dalech.* 541, & *imit. in Bauh.*  
*J. ii.* 1028. *Raii hist.* 256.  
*Native of Europe from Spain to Sweden.*  
**LAMPSANA.** *Chom.* 662. *Dale* 85. *Lew.* ii.  
41.  
*L. vulgaris.* *Geoffr. suite iii.* 661.

2. **LAPSANA** *Rhagadiolus.* Seeds patent, smooth.  
Leaves lyrate. *From Willd.* *L. sp.* 1141. *Hort.*  
*kew.* iii. 134. *Gou. hort.* 418. *Scop. carn. n.* 990.  
Found by Mygind in Istria.  
*Rhagadiolus edulis.* *Gaertn.* ii. 354. *L. a Willd.*  
iii. 1625.  
*Lapsana calycibus fractus undique radiis subulatis*  
*patentibus, foliis lyratis.* *L. ups.* 245.  
*Rhagadiolus lampsanae foliis.* *Boerh.* i. 92.  
*Hieracium falcatum alterum.* *Raii hist.* 256, is  
described as containing a bitter milk.  
**HIERACIIS** *affinis,* *Ragadiolus edulis.* *Bauh.*  
*J. ii.* 1014. No fig.

### 769. ZACINTHA.

*Receptacle naked.* *Pappus* subplumose, sessile.  
*Seeds of the outer flowers incurvate.* *From L. a*  
*Willd. & a Schreb. n.* 1249. *Boerh.*

1. **ZACINTHA verrucosa.** *Gaertn.* ii. 358. *t.* 157;  
*L. a Willd.* iii. 1624.

*Lapsana Zacintha.* *L.* sp. 1141. *Hort. kew.* iii. 133. *Gou. hort.* 417. Near Montpelier.—*Host* 436. In Litorali and Istria.

*Z.* sive *Cichorum verrucarium.* *Boerh.* i. 90.

*Cichorium verrucarium*, sive *Zacintha.* *Raii hist.* 255; *syn.* 97. At the mouth of the Tiber, and about Leghorn and Florence.—*Clus. hist.* ii. 144, *repr. in*

*Cichorium verrucarium*, *Ger.* by *Johns.* 289, & *cop. in*

*Zacyntha*, sive *Cichorium verrucarium.* *Park. theatr* 778, &

*Cichorium verrucosum*, sive *Zacintha*, *hieraciis adnumerandum.* *Bauh. J.* ii. 1013.

*ZACINTHA.* *Tourn. inst. t.* 269.—*Dale* 84.

## 770. CICHORIUM.

*Pappus a multifid border.* *Obs.* 1007. *L.*

1. *CICHORIUM perenne.* Leaves lanceolate, Root perennial. *Obs.* 1007. Specimen gathered in Worcestershire, on marle.

*C. Intybus.* *L.* suec. n. 711; sp. 1142. *Fl. dan.* t. 907. *Bot. arr.* 862. *Curt. lond.* iv. 56. t. 241. *Walc. t.* *Krock.* ii. n. 1320. *Smith brit.* 843; engl. t. 539. *Poll.* n. 758. *Asso* n. 780. *Thunb.* *jap.* 304. *Woodv.* iv. 94, t. 248. *Host* 436. *Gou. hort.* 419. Near Montpelier.

*C. sylvestre*, sive *officinarum.* *Tourn. paris.* 327, *Vaill. paris.* 37. *Boerh.* i. 91. In Holland,  
α *sylvestre.* Branches pilose. *Obs.* 1007.

*Intubus sylvestris.* *Cam. epit.*, 285.

*Intubum sylvestre*, sive *Cichorium*. *Fuchs.* 644. c. 263, *cop. in Cord. sol.* 141. p. 2, which repr. from

*Cichorea*. *Trag.* 272, & *cop. in*

*Hypochaeris*. *Dalech.* 563, &

*C. silvestre*, et *sativum*. *Bauh. J.* ii, 1007. *Raii hist.* i, 255.

*C. sylvestre*, *Picris*, *Dod.* 624, *repr. in*

*Seris sylvestris*. *Lob. obs.* 114,

*Seris Picris*. *Lob. ic. i.* 228, &

*C. sylvestre*. *Ger.* by *Johns.* 284, & *cop. in Park. theatr.* 776. *Raii syn.* 172. *Blackw. t.* 183.

*Intubum silvestre angustifolium*. *Dalech.* 557.

*C. Intybus erratica*. *Tab. ic.* 170.

Leaves entire. *Anthodia* in threes and twos. *Peduncles* very short, lactescent, the second peduncle inserted at the base of the first, and the third anthodium sessile at the base of the second peduncle. *Receptacle* naked and with obsolete paleae. *Obs.* 1007.—*Root* perennial. *Plants* cultivated in a garden several years.

*Native of Europe from Spain to Sweden.*

**CICHORIUM.** *Pharm. austriaco-prov.* 30.—  
*Alst.* i. 412. *Berg.* 650. *Herm.* 86. *Lew. disp.* by *Dunc.* 340. *Linn.* 214. *Schoepf* 118. *Spielm.* 51. *Vog.* 152.

*Cichoreum*. *Pharm. suec.*—*Carth.* i. 334. *Lew.* i. 332; *disp. by Rother.* 188. *Murr.* i. 100. *Quar. anim.* 40, 200; *febr.* 162; 344. 350. *Rutty* 123. *Stoll. aph. n.* 467; *med.* ii. 206. 403; iii. 7. 18. 22. 27. 36. 115. 129. 130, 135. 185. 299. 376. 377. *Vog.* 191.

- C. Intybus. *Juch*, account from in phys. journ. v. 371. *Pears. R.* i. 54; ed. ii. 369.
- C. sylvestre. *Geoffr.* iii. 319. *Monro* iii. 60. *Schrod.* 565.
- C. agreste sylvestre. *Mill. Jos.* 138.
- Cichoreum agreste sylvestre.* *Dale* 84.
- C. sylvestre, siye officinarum. *Chom.* 201. 196; *suppl.* 64.
- Succory. *Clegl.* 24. *Monro.* *Don. sold.* ii. 185.
- β sativum. Branches glabrous. *Obs.* 8183. On rubbish.
- Cichorium. *Cam. epit.* 284. *Park. par. t.* 497. f. 3.
- C. latioris folii. *Dod.* 623, repr. in *Seris sativa.* *Lob. obs.* 114, &
- C. sativum caeruleum. *Lob. ic.* i. 229, cop. in
- C. sativum, flore rubello. *Park. theatr.* 775, and
- C. sativum vulgare. *Park. theatr.* 775, and repr. in
- CICHORIUM** sativum, Ger. by Johns. 282.—  
*Mill. Jos.* 137. *Schrod.* 565.
- Cichoreum sativum.* *Dale* 84.
- Cichoreum.* *Quar. febr.* 368.

2. **CICHORIUM Endivia.** Lower leaves obovate and lyrate. Root biennial.—*Obs.* 5926. In a garden. *L. sp.* 1142. *Hort.* iii. 135. *Thunb. jap.* 304.
- ENDIVIA.** *Alst.* i. 413. *Berg.* 651. *Boecl. ap.* *Herm.* 413. *Carth.* i. 334. *Dale* 84. *Geoffr.* iii. 422. *Lew.* i. 412; disp. by *Rother.* 156. *Linn.* 215. *Mead mon.* ii. 121. *Mill. Jos.* 185. *Monro* iii. 106. *Murr.* i. 102. *Quar. anim.* 65. 101; *febr.* 321, 371, 383. *Rutty* 178, *Schoepf* 118,

*Schrod.* 584. *Spielm.* 54. *Wintr. in Mead man.* ii. 109.

**C.** Endivia. *Bry.* 96. *Krock.* ii. n. 1321. *Lour.* ii. 583. *Pears. R.* i. 50.

Endive. *Chom.* 804. *Monro, Don. sold.* ii. 185. *Portal, account from in ann. med.* iii. 174.

α dentatum. Margin of the leaves dentate. *Obs.* 5926. *H. K. α. L. α*

**C.** Endivia. *Mill. Ph. dict.* n. 3, who says the stems die as soon as the seeds have ripened.

Cichorium. *L. ups.* 247 α

**C.**, latifolium, sive Endivia vulgaris. *Boerh.* i. 92.

Intubus major. *Cam. epit.* 282.

Intybum sativum latifolium, sive Endivia. *Fuchs.* 643. c. 263, cop. in

Intybum sativum latifolium. *Bauh. J.* ii. 1011. *Dalech.* 556. *Lob. obs.* 117, repr. in

Seris. *Lob. ic.* i. 233, &

Intybum sativum. *Dod.* 623, which cop. in

Endivia sativa. *Park. theatr.* 774, & repr. in

Intybus sativa. *Ger. by Johns.* 283. *Raii hist.* 254.

Endivia. *Park. par. t.* 497. f. 2.

Intubum sativum angustifolium, sive Scariola. *Fuchs.* 643. c. 263, cop. in

Intubum sativum angustifolium Dodonaei. *Dalech.* 556, &

Cichorea sativa. *Trag.* 273, which repr. in

**C.** sativum. *Cord. fol.* 142. p. 1, & cop. in

Intybum sativum angustifolium. *Bauh. J.* ii. 1011, who observes that it dies after seeding.

Intubum sativum angustifolium Matthioli. *Dalech.* 556.

Intybus major sativa. *Tab. ic.* 173, but the branches hirsute.

*C. sativum.* *Tab. ic.* 171, but the branches hirsute.

*Cichorii sativa altera icon.* *Tab. ic.* 171.

*Serium.* *Tab. ic.* 174, *cop. in*

*Intybum sylvestre.* *Ger. by Johns.* 285, &

*Intubus, sive Endivia minor angustifolia.* *Park. theatr.* 774.

*S. crispum.* Leaves curled at the margin. *Obs.* 5908.

*L. β.* *Hort. kew. β.* *L. ups.* 247  $\beta$

*C. crispum.* *Boerh.* i. 92. *Mill. Ph. dict.* n. 4.

*Intubus crispa.* *Cam. epit.* 283, *cop. in*

*Intybum sativum crispum.* *Bauh. J.* ii. 1011.

*Intubum crispum.* *Dalech.* 557.

*Intybus crispa.* *Tab. ic.* 173. *Raii hist.* 254.

*Anthodia* axillary, sessile, crowded, 3 and 4 together. *Involucra*, outer bracteae broader, patentous. *Receptacle* with a few obsolete paleae in the center. *Pappus* a short erect multifid border. *Obs.* 5908.

## 771. SCOLYmus.

*Receptacle* paleaceous. *Pappus* none. *Obs.* 8284.

*L.*

1. *SCOLYmus hispanicus.* Margin of the leaves rounded. *Obs.* 8284. Specimen gathered by Broussonett in the south of France or north of Spain.—*L. sp.* 1143. *Hort. kew.* iii. 136, marked as a perennial.—*Asso n.* 782. *Mill. Ph. dict.* n. 2. Root perennial.

2. *S. maculatus.* *L. a Murr.* 722. Leaves described as cartilaginous at the margin, but the root as annual.

- S. foliis margine incrassatis.* Mill. *Ph. ic.* 153. *t.* 229. *All. nic.* 89.
- S. chrysanthemus.* Boerh. *i.* 92. Marked as an annual.
- S. Theophrasti.* *Magn. monsp.* 233; *hort.* 180, *Dalech.* 1498, *cop.* from *Scolimus Theophrasti.* *Clus. hisp.* 447, which repr. in
- S. Theophrasti hispanicus.* *Clus. hist.* *ii.* 153, *Carduus chrysanthemus hispanicus.* *Ger. by Johns.* 1155, &
- Carduns chrysanthemus.* *Dod.* 713. *Raii hist.* 257; *eur.* 84. About Montpelier.
- (*Spina lutea.* *Bauh. J.* *iii. pars i.* 81, is *S. maculatus.*)
- Native of Spain and the south of France,
- SCOLYMUS.** *Dale* 85.
- Golden Thistle. *Clegh.* 34.

## 772. ARCTIUM.

Receptacle pilose. Pappus pilose, shorter than the seed. *Obs.* 1384. *L. Vent. tabl. t.* 12. *f.* 4.

1. **ARCTIUM Lappa.** *L. suec. n.* 712; *sp.* 1143. *Bot. arr.* 863. *Curt. lond.* *iv.* 55. *t.* 238. *Smith brit.* 844. *Woodv.* *i.* 41. *t.* 15. *Huds.* 348. *Lightf.* 445.
- Lappa major*, A. *Dioscoridis.* *Tourn. paris.* 207.
- Personata.* *Cam. epit.* 887.
- Lappa.* *Brunsf.* *ii.* 61.
- ♂ *glabrum.* *Anthodia glabrous.* *Obs.* 1384. Near Worcester.

A. *Lappa*. *L.* sp.  $\alpha$ ; *a* *Willd.* iii. 1631. *Smith engl. t.* 1228. *Roth germ. ii*, *pars ii*. 297  $\alpha$ .  
*Lappa major*, *A. Dioscoridis*. *Raii syn.* 197. *Vaill. paris.* 113. *Boerh.* i. 146. In Holland.  
*Bardana*, sive *Lappa major*. *Dod.* 38, *repr. in Arction montanum*. *Lob. obs.* 318; *ie.* i. 587, (name and deser. probably belonging to  $\gamma$ ) &  
*Bardana major*. *Ger. by Johns.* 809. *Raii hist.* 332. *Blackw. t.* 117.  
*Personata*, sive *Lappa major*. *Math.* 1154. *Dalech.* 1055.  
*Personatia*, sive *Lappa major*. *Fuchs.* 74. *c.* 23, *cop. in*  
*Personata*, sive *Lappa major*, aut *Bardana*. *Bauh. J.* iii. b. 570, & *imit. in*  
*Lappa major*. *Trag.* 837.  
*Burdock*. *Pet. herb. t.* 23. *f. 1.*

Seeds turbinate, compressed, somewhat curved, fuscous variegated with pale black; outer side flat, inner side with a ridge. Pappus pilose, shorter than the seed; hairs needle-shaped, scabrous. *Obs.* 1384.

*BARDANA*. Root. *Pharm. lond.*—*Alst.* i. 397. *Bang in act. haun.* i. 7. *Berg.* 652. *Crine bardana* L. *Geoffr.* iii. 156. *Herm.* 84. 314. *Hill* 657. *Krock.* ii. n. 1322. *Lew.* i. 200. *Linn.* 215. *Monro* iii. 20. *Murr.* i. 83. *Neum.* ii. 160. *Quar. sebr.* 334: *anim.* 277. *Rutty* 57. *Schoenf* 118. *Spielm.* 554. *Stoll med.* iii. 158. 167. 297. *Vsg.* 188.

A. *Lappa*. *Pharm. edin.*—*Bry.* 55. *Lew. disp.* by *Dunc.* 153. *Pears. R.* i. 221.  
*Bardana major*. *Carth.* iv. 103. *Dale* 109. *Mill.* *Jos.* 76. *Schrod.* 543.

- Lappa major, A. Dioscoridis. *Chom.* 240; *suppl.* 81. L. V. 11. 1.
- Burdock. *Und.* ii. 26. V. 1. 1. 1.
- β lanuginosum.* Calyces lanuginose. *Obs.* 545. Near Worcester.
- A. Lappa. *L. sp. β.* *Fl. dan.* t. 612. *Roth germ.* ii. *pars* ii. 298  $\beta$ . L. V. 11. 1.
- A. Bardana. *L. a.* *Willd.* iii. 1632. L. V. 11. 1.
- Lappa major montana, capitulis tomentosis, sive A. Dioscoridis. *Mill. Ph. ic.* ii. 106. t. 159. *Raii syn.* 197. *Vaill. paris.* 114. *Boerh.* i. 146. In Holland. L. V. 11. 1.
- Personata, seu Lappa major altera. *Mattl.* 1155. *Dalech.* 1055. L. V. 11. 1.
- Bardana major altera. *Raii hist.* 332. L. V. 11. 1.
- Bardana major, lanuginosis capitalis. *Park. theatr.* 1222. No fig. L. V. 11. 1.
- Personata altera cum capitulis villosis. *Bauh. J.* iii. b. 571. L. V. 11. 1.
- Personata. *Lob. obs.* 318, *repr. in ic.* i. 588, & cop. in *ibid.* *suppl.* 11. L. V. 11. 1.
- Bardana major vulgaris. *Park. theatr.* 1223, (names and descriptions probably belonging to  $\alpha$ ) L. V. 11. 1.
- Clot Burre with lesser and softer heads. *Johns. in Ger. by Johns.* 810. No fig. L. V. 11. 1.
- Cobweb-headed Burdock. *Pet. herb.* t. 23. f. 6. L. V. 11. 1.
- Leaves, margin dentate. *Obs.* 8810. Specimen from an old herbal, gathered in England. L. V. 11. 1.
- ARCTIUM.* *Dale* 109. L. V. 11. 1.

## 773. CARDUUS.

Receptacle pilose. *Pappus* pilose, longer than the seed. *Obs.* 6035. *L.*

1. *Leaves not decurrent.*

1. **CARDUUS lactifolius.** Leaves amplexicaul, dentate, spinose. Bracteae of the involucra channelled at the end, spinose at the margin and end. *Obs.* 6035. In a garden, where naturalised.

**C. marianus.** *L.* sp. 1153. *Bot. arr.* 874. *Curt. lond.* iii. 54. t. 148. *Smith brit.* 851; *engl.* t. 976. *Sibth. ox.* n. 685. *Gou. hort.* 422. About gardens near Montpelier.—*Asso n.* 791. On rubbish. *Roth germ.* i. 348. *Lightf.* 454. *Host austr.* 441. On the sides of roads in Littorali.—*Abb. n.* 578. *Ger. J.* 989, *abr. in*

Milk Thistle. *Pet. herb.* t. 21. f. 9.

*Silybum marianum.* *Gaertn.* ii. 378. t. 162.

*Cirsium maculatum.* *Scop. carn.* ii. n. 1099.

**C. albis maculis notatus;** *vulgaris.* *Tourn. paris.* 323. *Vaill. paris.* 28. *Boerh.* i. 126.

**C. albus:** *Brunsf.* iii. 41, *repr. in*

*Fechdystel.* *Brunsf.* ii. 71, & 67.

**C. leucographus.** *Dod.* 710, *cop. in*

**C. Mariae vulgaris.** *Park. theatr.* 976, & *repr. in*

**C. Mariae.** *Ger. by Johns.* 1150. *Blackw.* t. 79. *Trag.* 850, *imit. from*

**Spina alba hortensis.** *Fuchs. sol. ed.* 56, *which cop. in* 55. c. 10,

**Leucographis.** *Dalech.* 1475, &

**C. marianus, sive lacteis maculis notatus:** *Bauh. J.* iii. a. 52, who justly observes that it is biennial.

**C. lacteus.** *Matth.* 676. *Dalech.* 1465. *Cam. epit.* 445. *Raii cant.* 28; *cat. ed.* i. 56.

Leaves ovato-oblong and lanceolato-ovate, undose. Seeds oblong, slightly bowed, gibbous on the outer side, angular on the inner, smooth. *Pappus pilose;*

hairs scabrous with microscopic aculei. *Receptacle* pilose; hairs flat, glabrous. *Obs.* 6035.

*Native of Spain, Italy, France, Germany, Middlesex, Oxfordshire, Bedfordshire, Cambridgeshire, and the neighbourhood of Edinburgh, or perhaps only naturalised.*

**CARDUUS Mariae.** *Pharm. austriaco-prov.* 26.  
*suec.*—*Alst.* ii. 339. *Berg.* 654. *Carth.* ii. 351.  
*Chom.* 273; *suppl.* 88. *Dale* 105. *Geoffr.* iii.  
 261. *Herm.* 313. *Krock.* ii. n. 1342. *Lew. disp.*  
*by Dunc.* 340. *Linn.* 215. *Mill. Jos.* 115. *Murr.*  
 i. 86. *Schrod.* 556. *Spielm.* 556. *Vog.* 96. 167.  
**C. Marianus.** *Bry.* 61.

2. **CARDUUS Scordium.** Leaves semiamplexicaul, lanceolate, serrate. Anthodia fastigiate. Root creeping. *From*

**SERRATULA Scordium.** *Lour.* ii. 590.

3. **CARDUUS tinctorius.** Calyx unarmed. Leaves lyrate and entire. *Obs.* 3201. In a wood.—*Scop. carn.* n. 1012.

*Serratula tinctoria.* *L. suec.* n. 713; sp. 1153. *Bot. arr.* 865. *Smith brit.* 845. *Krock.* ii. n. 1325.

**SERRATULA.** *Dale* 108. *Geoffr. suite* iii. 36.

ꝝ *lyrifolius.* (Variation.) Leaves lyrate. *Obs.* 3201. *S. tinctoria.* *Smith engl. t.* 38. *Fl. dan. t.* 281.

*Jacea nemorensis*, quae *Serratula vulgo.* *Tourn. paris.* 105. *Vaill. paris.* 108.

*Serratula tinctoris.* *Besl. hort. aest. ord.* 11. *fol.* 4.

*Serratula.* *Matth.* 945, *imit. in Cam. epit.* 887, outer fig.—*Raii hist.* 331; *syn.* 196. *Boerh.* i. 144. *Bauh. J.* iii. a. 23. *Dod.* 42, *repr. in*

*Serratula purpurea*, sive alba. *Ger.* by Johns. 713,  
outer fig.

*Serratula vulgafis*, flōre purpūreō albo vel rubro.  
*Park. theatr.* 475, inner fig.

§ *lancifolius*. (Variation.) Leaves lanceolate. *Obs.*  
4592. Specimen from Prof. Jos. F. Jacquin.—*Bot.*  
*arr. var. 3.*

*Jacea rubra major laciniosa*. *Dalech.* 1068.

*Serratula*. *Matth.* 945, *imit.* in *Cam. epit.* 887,  
outer fig.—*Dod.* 42, *repr. in*

*Serratula purpurea*, sive alba. *Ger.* by Johns. 713,  
inner fig.

*Serratula vulgatis*, flōre purpūreō albo vel rubro.  
*Park. theatr.* 475, outer fig.

## 774. ONOPORDUM.

Receptacle naked. *Pappus* pilose. *Obs.* 1589. *L.*

1. **ONOPORDUM Atanthium:** Bracteae of the involucra patent. Leaves decurrent; sinuate, dentate; lanuginose. *Obs.* 1589. Near Worcester; on the sides of roads and commons, on marle.—*L. a Willd.* iii. 1686; *a Murr.* 728; *suec.* n. 724. In waste places near villages and cornfields; *sp.* 1158. *Curt.* v. 57. t. 334. *Fl. dān.* t. 909. *Bot. arr.* 879; *Smith* brit. 856; *engl.* t. 977, who justly remarks that in most parts of Yorkshire, Derbyshire and other mountainous tracts it is unknown.—*Gou. hort.* 424. Near Montpelier.—*Lightf.* 459. In waste places near towns and villages.—*Northumb. guide* i. 75. *Hort. austr.* 444. *Huds.* 354: In waste places;

*Acanos Spina.* *Scop. carn.* ii. n. 1013 is described as pale green.

*Carduus tomentosus,* *Acanthium dictus,* *vulgaris.*  
*Raii. syn.* 196.

*Carduus tomentosus, acanthi folio, vulgaris.* *Tourn. paris.* 14. *Vaill. paris.* 28. *Boerh.* i. 136. In Holland.

*Spina alba tomentosa latifolia sylvestris.* *Loes.* 261. t. 82.

*Spina alba sylvestris.* *Fuchs.* 55. c. 16, cop. in *Bauh. J.* iii. a. 54,

*Acanthium, Spina alba sylvestris.* *Dalech.* 1446, and

*Acanthium alterum.* *Dod.* 709, which repr. in ed. ii. 721, &

*Carduus muscatus.* *Ger. by Johns.* 1174.

*Acanthium vulgare.* *Park. theatr.* 979. *Raii hist.* 313.

*Spina alba.* *Trag.* 858.

*Silybum.* *Dalech.* 1466

*Unser frawen dystel.* *Brunsf.* iii. 104.

*Acanthium Matthioli.* *Dalech.* 1446, cop. from *Acanthium.* *Matth.* 671. *Cam. epit.* 441. *Dod.*

709, repr. in *Lob. obs.* 476; ic. ii. 1, &

*Acanthium album.* *Ger. by Johns.* 1149.

Seeds obovate, compressed, with a ridge on each side, transversely corrugate, bitter. *Obs.* 1589.

*ACANTHUM.* *Dale* 105. *Geoffr. suite* i. 246.

O. *Acanthium.* *Bry.* 66. 153. *Krock.* ii. n. 1351. *Ploucq. bibl.* i. 216.

*Carduus tomentosus.* *Lew. disp.* by *Dunc.* 344. *Murr.* i. 87. *Vog.* 97.

## 775. CINARA.

*Receptacle pilose. Pappus plumose. Obs. 4857.*

*L.*

*Kirazza: Diosc. l. 3. c. 10.*

1. *Leaves not decurrent.*

1. CINARA *eriocephala.* Leaves semiamplexicaul, pinnatifid; segments pointing 4 ways. Involucra globular, lanuginose. *Obs. 5893.* Between Matlock bath and Matlock in Derbyshire.

Cnicus *eriophorus.* *Roth germ. i. 345; ii. pars ii. 286. L: a Willd. iii. 1669.*

Carduus *eriophorus:* *L. sp. 1153. Jacq. austr. ii. t. 171. Bot. arr. 875. Smith engl. t. 386; brit. 852. Asso n. 792. Gou. hort. 423.* Near Montpelier.—*Northumb. guide i. 75.* On Fulwel hills near Sunderland, and observed by Mr. Robson near Pittington hall garth in Durham.

Carduus foliis sinuatis decurrentibus denticulis et superficie spinosis, calycibus lanigeris. *Roy. 133.*

Carduus foliis sessilibus bifariam pinnatifidis, laciniis alternis erectis, calycibus globosis villosis. *Mill. Ph. ic. ii. 195. t. 293.*

Carduus *eriocephalus.* *Dod. purg. 445, repr. in pempt. 711, Clus. pann. 666; hist. ii. 154, and Ger. by Johns. 1152, abr. in Park. par. t. 331. f. 7, repr. in*

Carduus *tomentosus.* *Lob. ic. ii. 9, imit. in*

Carduus *capite tomentoso.* *Bauh. J. iii. a. 57, & cop. in*

*Jacea lutea.* *Dalech.* 1474, (the name belonging to a different plant,) &

*Carduus tomentosus, Corona fratum dictus.* *Park. theatr.* 978. *Raii hist.* 311; *syn.* 195.

*Onopordon.* *Dalech.* 1472.

*Acanthium montanum.* *Dalech.* 1446. Leaves ill done if intended for it.

*Carduus tomentosus anglicus.* *Lob. adv.* 370, *cop.* in *Park. theatr.* 980, & *repr.* in

*Carduus tomentosus.* *Lob. ic. ii.* 10, &

*Carduus globosuss, capitulo latiore.* *Ger. by Johns.* 1151. Bracteae of the involucra represented as equal.

Stem hispid. *Pappus* plumose. *Obs.* 5893.

Native of Europe from Spain as far north as Nuremberg in Franconia, and Sunderland in Durham, and Lightfoot inserts it on the authority of Sibbald; but with a mark of doubt.

*CARDUUS eriocephalus.* *Dale* 105. *Geoffr. suite i.* 248.

*Carduus capite rotundo tomentoso.* *Chom.* 763.

2. *CINARA diversifolia.* Cauline leaves semiamplexicaul, cordato-lanceolate, serrato-dentate, tomentose underneath; margin spiny; lower leaves pinnatifid. Bracteae of the involucra ovato-lanceolate; glabrous, recurvate at the end. *Obs.* 6688. In Mr. S. Shore's garden.—*Obs.* 8752. A leaf gathered by Mr. Jewitt in newly inclosed fields between Taddington and Presley in Derbyshire.

*Cnicus heterophyllus.* *L. a Willd.* iii. 1673.

*Carduus heterophyllus.* *L. sp.* 1154; *mant.* 461. *Smith brit:* 853; *engl:* t. 675. *Fl. dan:* t. 109.

- Carduus helenioides.* *Huds.* 352. *Lightf.* 457.  
*Bot. arr.* 876. (The plants found near Norwich  
 probably *Carduus pratensis*.)
- Carduus calyce inermi, foliis lanceolatis margine  
 ciliatis.* *L. lapp.* n. 292.
- Cirsium foliis ciliatis subtus tomentosis, radicalibus  
 petiolatis ovato-lanceolatis, caulinis lanceolatis et  
 semipinnatis.* *Hall. hist.* i. 77. n. 180. t. 7.
- Cirsium caule fere unifloro, calice inermi acuto,  
 foliis lanceolatis ciliatis integerrimis et laciniatis.*  
*Gmel. sib.* ii. 51. (t. 21, in L. a Willd. iii. 1673,  
 is merely a reference of Gmelin's to Hall. enum.  
 683. t. 21.)
- Cirsium.* *Mill. Ph. ic.* 63. t. 94. In the park  
 adjoining to Burrough hall in Yorkshire.
- Cirsium anglicum* II. *Clus. hist.* ii. 148, *repr.*  
*in*
- Cirsii anglici alia icon Pennei.* *Ger. by Johns.*  
 1183, & *cop. in*
- Northern Thistle. *Pet. herb.* t. 22. f. 2, &
- Cirsium britannicum Clusii repens.* *Bauh. J.* iii. a.  
 46. *Raii hist.* i. 306; *syn.* 193. Mountainous  
 parts of Yorkshire and Westmorland, and on  
 Snowdon. (The plants found near Croydon, and  
 on Hounslow heath probably *Carduus pratensis*.)
- Cnicus canus.* *Jacq. austr.* i. 27. t. 42. 43, has  
 leaves slightly lanuginose on both sides, and the  
 lower decurrent.)
- Root* perennial, creeping. *Stem* erect, sulcate,  
 woolly, to 6 feet long, with sometimes 6 anthodia.  
*Leaves* green above, greyish white underneath; those  
 of the shoots lanceolate, entire; spines simple, very  
 short, flexible. *Peduncles* woolly, striate, erect.

*Involucra* ovate, imbricate; inner bracteae purplish at the end. *Corollae* tubular, as long again as the involucra, pinkish purple; limb quinquesid; lowermost and 2 lower segments twice as deeply divided from the rest as the 3 upper. *Pappus* plumose.  
*Obs.* 6688.

Used by the inhabitants of Taddington and Presley in Derbyshire for smoking instead of tobacco. *Mr. Jewitt.*

3. CINARA *cernua*.—Leaves cordate. Petioles amplexicaul, curled, spinose. Anthodia cernuons. Involucra scariose. *From L.*

*Cnicus* foliis cordatis, petiolis crispis spinosis amplexicaulibus, floribus nutantibus. *L. ups.* 251.

*Carduus* foliis ex cordato-lanceolatis margine serratis et spinosis, squamis calycum membranaceis laceris spinosis, capitulis nutantibus. *Gmel. sib.* ii. 47. t. 19.

*CNICUS* cernuus. *L. a Murr.* 727; *sp.* 1157. *Hort. kew.* iii. 146.—*Bry.* 61.

4. CINARA *colorata*. Leaves amplexicaul, glabrous; radical leaves mostly pinnatifid; upper entire. *Obs.* 4857. Specimen gathered in a pasture, near a town in Austria.

*Cirsium oleraceum.* *Scop. carn. n.* 998.

*Cirsium latifolium*, flore flavescente in capitulo folioso. *Boerh.* i. 139.

*Carduus pratensis.* *Trag.* 861, *cop. in*  
*Acanthus sylvestris.* *Dalech.* 1445.

*Carduus pratensis* Tragi. *Bauh. J.* iii. a. 42. On Mount Thuiiri and many other places.—*Lab. adv.* 371, *repr. in ic.* ii. 11, & *cop. in*

*Carduus pratensis latifolius.* Park. theatr. 958.

Raii hist. 305. Near Strasburgh and Basle.

*Cirsium Dodonaei.* Da'ech. 583.

*Peduncles* to  $\frac{1}{2}$  inch long. *Anthodia* sessile and pendunculate. *Involucra*, bracteae ovate and linear-lanceolate. Obs. 4857.

Native of Switzerland, Germany, and Sweden.

*CNICUS oleraceus.* L. suec. n. 723; sp. 1156.

Hort. kew. iii. 145. Host austr. 443. Fl. dan. t. 860. In wet shady orchards.—*Bry.* 122. Krock. ii. n. 1350.

## 2. Leaves decurrent.

5. CINARA *Scolymus.* Leaves semidecurrent, pubescenti-lanuginose, pinnatifid and entire, spinose and unarmed. Bracteae of the involucra lanceolate. Obs. 8287. In a garden.—*L.* sp. 1159. Hort. kew. iii. 147.

*Cynara.* Roy. 135. L. ups. 251  $\alpha$

$\alpha$  *spinosa.* Leaves spinose. From

*Cynara Scolymus.* Gou. monsp. 330; hort. 425  $\beta$   
Near Montpelier, ou the sea coast.

*C. sylvestris latifolia.* Magn. monsp. 65; hort. 56.

*Carduus Scolymos sylvestris.* Bauh. J. iii. a. 51.  
About Montpelier.

*Scolymos sylvestris.* Lob. adv. 366, repr. in ic. ii. 6, cop. in

*Scolymus Dioscoridis.* Dalech. 1437, and Park. theatr. 973, & repr. in

*C. sylvestris.* Ger. by Johns. 1153. Raii hist. 300; eur. 97. In Sicily, and Italy, and near Montpelier.

*SCOLYMFUS sylvestris.* Dale 104.

- $\beta$  mitior. Leaves less spinose than those of  $\alpha$ . From J. Bauh. & Boerh. L. sp.  $\beta$ . Hort. kew.  $\alpha$  Cynara Scolymus. Mill. Ph. dict. n. 1.
- C. hortensis aculeata. Boerh. i. 139. Magn. hort. 56.
- C. cum flore. Besl. hort. aest. ord. 11. fol. 6.
- Carduus, sive Scolymus sativus spinosus. Bauh. J. iii. a. 48. f. 1. Raii hist. 299.
- C. silvestris. Park. par. t. 519. f. 4.
- CINARA.* Dale 104.
- $\gamma$  inermis. Leaves unarmed. Obs. 8287. In a garden.—L. sp.  $\gamma$ . Hort. kew.  $\beta$
- Cynara Scolymus. Woodv. iii. 544. t. 199. No leaf.
- C. hortensis. Mill. Ph. dict. n. 2.
- C. hortensis, foliis non aculeatis. Boerh. i. 139.
- Carduus, sive C. non aculeata. Matth. 668, cop. in
- Cynara non aculeata Matthioli. Dalech. 1439.
- Cynara non aculeata Dodonaei. Dalech. 1439.
- C. maxima, ex anglia delata. Lob. ic. ii. 3, repr. in
- C. maxima anglica. Ger. by Johns. 1153.
- C. sativa alba. Park. par. t. 519. f. 2.
- C. sativa rubra. Park. par. t. 519. f. 1.
- C. patula. Park. par. t. 519. f. 3.
- Cinara. Blackw. t. 458. Dod. 712, repr. in Scolymos. Lob. obs. 478; ic. ii. 3,
- Scolynius Dioscoridis. Clus. hist. ii. 153, &
- C. maxima alba. Ger. by Johns. 1153, cop. in Carduus, sive Scolymus maximus non spinosus. Bauh. J. iii. a. 51, & abr. in

*Carduus esculentus.* *Park. par. t. 519. f. 5.* (The name and descr. belong to *C. Cardunculus*.)

*Scolymus.* *Trag. 866, repr. in Cord. fol. 146,* having a stem with anthodia like those of *Carduus nutans*, added to leaves and root *cop.* from *Fuchs. 751. c. 305*, which *cop.* in

*Carduus altilis.* *Dalech. 1440, &*

*Carduus, sive Scolymus sativus non spinosus.* *Bauh. J. iii. a. 48.* No fructifications.—*Raii hist. 299.*

*Carduus non aculeatus.* *Cam. epit. 437.*

Leaves pinnatifid; segments incise, the lowermost connected by very narrow portions. *Obs. 8287.*

*CINARA.* Artichoke. Leaves. *Pharm. lond.—Dale 104. Heb. 191. Lew. i. 342. Mill. Jos. 139. Monro iii. 67.*

*Cynara.* *Auskow in act. haun. i. 201. 205. Berg. 656. Cull. i. 266. Murr. vi. 11.*

*Cynara Scolymus.* *Pharm. edin.—Bry. 151. Lew. disp. by Dunc. 215. Pears. R. i. 50. 223. Spielm. 52.*

*C. hortensis.* *Geoffr. iii. 328.*

*C. hortensis, foliis non aculeatis.* *Chom. 250.*

6. *CINARA Cardunculus.* Leaves spinose, doubly pinnatifid, glabrous above. Bracteae of the involucra ovato-oblong. From *Berg. mat. med. n. 409, & L. sp. 425. Gou. hort. 425; monsp. 330. Hort. kew. iii. 148. Mill. Ph. dict. n. 3.*

*Cynara* *β L. ups. 251,*

*Carduus, sive C. aculeata.* *Matth. 667, cop. in*

*Cactus.* *Dalech. 1438.*

*Carduus aculeatus.* *Cam. epit. 438,*

*Scolymus aculeatus.* *Tab. ic. 696.*

**Carduus hortensis**, capitulis spinosissimis. *Cam. hort.*  
33. Native of Calabria.

**Chardou.** *Park. par.* 520. (The fig.

**Carduus esculentus.** *Park. par. t.* 519. *f.* 5, is *C. Scolymus.*)

**CARDUNCULUS.** *Berg.* 657.

**Cardones.** *Geoffr.* iii. 328.

**Cactos.** *Dale* 104.

**Cynara Cardunculus.** *Bry.* 60. 150. *Spielm.* 52.

**C. spinosa**, cuius pediculi esitantur. *Chom.* 251.

**Des Cardes.** *Bauh. J.* iii. *a.* 50, who makes no difference between the spinose Artichoke and the Cardoon. No fig.

7. **CINARA repens.** Leaves semidecurrent, sinuatipinnatifid; margin spinose. Involucra ovate, closely imbricate; bracteae recurvate at the end. Root creeping. *Obs.* 4024. On the sides of roads.

**Carduus arvensis.** *Curt. lond.* vi. *t.* 57. *Sibth. ox.* 245. *Smith brit.* 850; *engl.* *t.* 975.

**Serratula arvensis.** *I.. suec. n.* 715; *sp.* 1149. *Fl. dan.* *t.* 644. *Bot. arr.* 867.

**Cirsium arvense**, souchi folio, radice repente, flore purpurascente. *Tourn. paris.* 189. *Vaill. paris.* 38.

**Ceanothos Theophrasti.** *Col. ecphr.* i. 45. *t.* 46.

**Carduus vulgarissimus viarium.** *Raii hist.* 310; *syn.* 194. *Ger. by Johns.* 1173, *cop. in*

**Carduus ceanothos**, sive viarum et vinearum repens.

*Park. theatr.* 959, &

**Common Thistle.** *Pet. herb.* *t.* 21. *f.* 5.

**Carduus serpens laevicaulis.** *Bauh. J.* iii. *pars i.* 59.

*Leaves undulate, nearly glabrous. Involucra* slightly lanuginose; lowermost bracteae patent, spinose, those above recurvate at the end, slightly spinose; uppermost unarmed, brownish purple at the end. *Corollae* pale purplish pink; limb more deeply divided outwards. *Seeds* oblong, slightly bowed, smooth, nitid. *Pappus* pluinose; hairs primary and secondary glabrous. *Receptacle* pilose; hairs attenuate at the end, flattish, glabrous, shining. *Obs.* 4024.

*CARDUUS haemorrhoidalis.* Dale 105.

*Carduus vinearum repens, sonchi folio.* Chom. 762.

8. *CINARA tuberosa*.—Leaves subdecurrent, petiolate, subpinnatifid, spinose. Stem unarmed. *Involucra* roundish. *From*  
*Cnicus tuberosus.* Roth germ. i. 345, & ii. pars  
ii. 284?  
*Cirsium pratense, asphodeli radice, latifolium.* Rupp.  
ab Hall. 187?  
*Carduus bulbosus monspelliensis.* Lob. adv. 371,  
repr. in ic. ii. 10, & cop. in  
*Cirsio V* congener. Clus. hist. ii. 149, &  
*Carduus pratensis, asphodeli radice, latitolius.* Hist.  
ox. s. 7. t. 29. row 3. f. 27? Magn. monsp. 48?  
*Raii hist.* i. 305; eur. 86?  
*Acanthus silvestris alter.* Dalech. 1444?  
*Jacea aculeata, sive tuberosa.* Tab. ic. 154, cop. in  
*Carduus pratensis, asphodeli radice, foliis profunde*  
*laciiniatis.* Hist. ox. s. 7. t. 29. row 3. f. 28?  
*Carduus bulbosus monspeliensis*, sive *Acanthus*  
*silvestris quibusdam, foliis laciiniatis.* Bauh. J.  
iii. s. 48?  
*CARDUUS tuberosus.* L. a Murr. 725; sp. 1154;

*mant.* 461? *Hort. kew.* iii. 141? *Gou. monsp.* 328; *hort.* 423? Near Montpelier. (*Jacq. vind.* 146. 280 is *C. canus*. *Poll.* ii. n. 768, has a pappus described as simple.—*Lour.* ii. 589. Pappus not described.

9. **CINARA palustris.** Leaves pinnatifid; margin spinose. Anthodia aggregate. Involucra ovate, closely imbricate; bracteae with a short spine at the end. *Obs.* 6697. On the side of a road. 23 July.

*Cnicus palustris.* *Willd. ber.* 260. *Roth germ.* ii. pars ii. 283.

*Cirsium palustre.* *Scop. carn.* ii. n. 1004.

*Carduus foliis linearibus dentatis spinosissimis, caule criso spinoso racemoso, floribus erectis.* *Roy.* 134.

*Cirsium foliis pinnatifidis, laciinis linearibus, caule criso, capitulis mitibus in vertice congestis.* *Gmel. sib.* ii. 57. t. 23. f. 2.

*Cirsium pratense, polycephalon vulgare.* *Vaill. paris.* 88. *Rupp. ab Hall.* 188.

*Cirsium palustre, polycephalon vulgare.* *Tourn. paris.* 259.

*Carduus spinosissimus erectus angustifolius palustris.* *Hist. ox. s.* 7. t. 32. f. 13, cop. in

Marsh Thistle. *Pet. herb. t.* 21. f. 4.

**CARDUUS palustris..** *L. suec.* n. 720; sp. 1151.

Anthodia described as racemose.—*Bot. arr.* 873.

*Lightf.* 453. *Smith brit.* 850; *engl. t.* 974. *Curt. lond.* vi. t. 56. *Krock.* ii. n. 1334. *Raii syn.* 194.

*Boerh.* i. 138. In Holland.

• *purpureus.* Corolla pinkish purple.

• *purpurascens.* Corolla purplish white. *Obs.* 6697.

*Stem* prickly, erect, branched. *Leaves* decurrent; terminal lobe cuneiform, as long as the rest of the leaf; floral leaves subulate, spinose, as long as the involura, semidecurrent. *Peduncles* tomentose, shorter than the involucra when the fruit ripe. *Anthodia* numerous, conglobate, sessile and on very short peduncles. *Involucra*, bracteae lanceolate, slightly lanuginose. *Corolla*, lowermost segment more deeply separated from the rest by  $\frac{1}{4}$ . *Pappus* plumose. *Obs.* 6697.

10. **CINARA lanceata.** Leaves pinnatifid, hispid; segments divaricate. Involucra ovate, spinose, lanuginose. Stem hairy. *Obs.* 3223. On the sides of roads.

*Cnicus lanceolatus.* *Willd. ber.* 259. *Roth germ.* ii. pars ii. 282. *Retz. scand.* n. 983.

*Cirsium lanceolatum.* *Scop. carn.* ii. n. 1007.

*Carduus lanceatus latifolius.* *Tourn. paris.* 64. *Boerh.* i. 136. In Holland.

*Carduus lanceolatus latifolius.* *Vaill. paris.* 29.

*Carduus lanceatus.* *Ger. by Johns.* 1174. *Raii syn.* 195.

*Carduus lanceolatus, sive silvestris Dodonaei.* *Bauh. J. hist.* iii. a. 58.

Spear Thistle. *Pet. herb.* t. 21. f. 7.

Seeds oblong, tetragonous, smooth. *Pappus* plomose, sessile; hairs primary and secondary glabrous. *Obs.* 3223.

**CARDUUS lanceolatus.** *L. suec.* n. 716; sp. 1149.

*Bot. arr.* 868. *Smith engl.* t. 107; *brit.* 847.

*Fl. dan.* t. 1173. *Tab. ic.* 699, repr. in *Ger. J.*

1011. (*Lour.* ii. 588, is a species of *Carduus*.—

*Krock.* ii. n. 1330.

## 776. CARLINA.

*Receptacle paleaceous. Pappus plumose, branched.*  
*Obs. 4027. L.*

1. **CARLINA acaulis.** Stem with 1 anthodium, mostly shorter than the anthodium. *Obs. 7943.* Specimen gathered in the Vienna garden.—*L. sp. 1160. Hort. kew. iii. 148.*
- C. herbariorum.** *Raii eur. 86.* In Italy, Germany, about Geneva, and in the south of France.
- C. sessiliflora.** (Variation.) Anthodium longer than the stem. *From L.*
  - C. acaulos, magno flore.** *Rupp. ab Hall. 212.*
  - C. acaulos, magno flore albo.** *Boerh. i. 101.*
  - C. altera.** *Dod. 715, repr. in*
  - C. herbariorum.** *Lob. obs. 479,*  
*Chamaeleon albus Dioscoridis.* *Lob. ic. ii. 4, Clus. hist. ii. 155, &*
  - C. seu Chamaeleon albus Dioscoridis.** *Ger. by Johns. 1157, & cop. in*
  - C. humilis.** *Park. theatr. 968.*
  - Chamaeleon albus.** *Dalech. 1453. Cam. epit. 428:*
  - CARLINA.** *L. ups. 252,* who observes that several kept in one flower pot rise to the height of a foot.  
*—Alst. i. 403. Berg. 659. Boerh. 153. Carth. iii. 85. Geoffr. ii. 25. Herm. 53. Lew. i. 285; disp. by Rother. 129. Linn. 216. Mill. Jos. 116. Murr. i. 88. Schrod. 556. Vog. 189.*
  - C. acaulis.** *Bry. 150. Krock. ii. n. 1352.*
  - Chamaeleon albus.** *Dale 93.*
  - Carline.** *Chom. 309. Neum. ii. 193.*

*s. elongata.* (Variation.) Anthodium shorter than the stem. *Cbs.* 7943.

*Chamaeleon niger alter.* *Dalech.* 1454, repr. in

*Crocodilium, C. caulem habens.* *Dalech.* 1476.

*Chamaeleon vulgaris.* *Trag.* 851, *imit. from and*  
*C. caulifera, vel acaulos.* *Bauh. J.* iii. a. 64, *cop.*  
*from*

*Chamaeleon albus.* *Fuchs.* 835. c. 338. *Lob. ic.* ii.

4, *repr. from*

*Chamaeleon albus, caule donatus.* *Lob. obs.* 480,  
*which repr. in.*

*C. sive Leucacantha.* *Dod.* 715, *cop. in*

*C. caulescens.* *Park, theatr.* 968, & *repr. in*

*C. caulescens, magno flore.* *Ger. by Johns.* 1157.  
*Rupp. ab Hall.* 212.

*CARLINA caulescens, flore magno albicante.*

*Boerh. i.* 101.—*Cod. med. p.* xxviii. *Dale* 93.

2. *CARLINA vulgaris.* Leaves lanceolate, sinuate and dentate, semiamplexicaul, slightly lanuginose. Stem lanuginose, with from 1 to many anthodia. Inner bracteae of the involucra subulate. *Obs.* 4027. On a common between Plaisley and Mansfield in Nottinghamshire, on limestone.—*L. succ.* n. 725; *sp.* 1161. *Bet. arr.* 880. *Smith engl. t.* 1144. *Krock. ii.* n. 1353.

*Atractylis mitior.* *Fuchs.* 121. *fol. ed. cop. in*

*Atractylis vulgaris.* *Fuchs.* 128, c. 42,

*Atractylis, seu Carthamus sylvestris.* *Trag.* 859,

*C. sylvestris quibusdam, aliis Atractylis.* *Bauh. J.* iii. a. 81, &

*C. sylvestris.* *Dod.* 716. *Raii hist.* 288. *Cam. epit.* 429, *cop. from*

**Carduus vulgaris.** *Malth.* 669, which cop. in *Dalech.* 1439.

**Carduus sylvestris alter.** *Dod.* 727, repr. in

**C. sylvestris vulgaris.** *Clus. hist.* ii. 156.

**C. sylvestris major.** *Ger. by Johns.* 1159, & cop. in

**Onopyxus alter angustifolius.** *Park. theatr.* 981.

(**Carduus.** *Brunsf.* ii. 65, is an *Eryngium.*)

*Receptacle* paleaceous; paleae ensiform subulate and setaceous; ensiform paleae multifid; subulate and setaceous paleae attenuate acute. *Obs.* 4027.

**CARLINA sylvestris.** *Dale* 93.

**Heracantha.** *Rupp. ab. Hall.* 212.

## 777. ATRACTYLIS.

*Receptacle* paleaceous. **Pappus** plumose. **Involuta** imbricate. **Anthodia** flosculose and radiate. *Obs.* 8812. A. cancellata with a radiate corolla.  
—*L.*

1. **ATRACTYLIS gummifera.** *Anthodia* flosculose. Stemless. Leaves pinnatifid. Outer bracteae of the involucra tricuspidate. *From L. sp.* 1161, &

**Acarna gummifera.** *L. a Willd.* iii. 1699.

**Cnicus carlineae folio,** acaulos gummifer aculeatus, flore purpureo. *Tourn. cor.* 33.

**Chamaeleo albus apulus,** purpureo flore, guminifer.

*Raii hist.* 301; *eur.* 93. The place of growth a transcript from *Col. ecphr.* i. t. 12, cop. in

**Carduus violaceus humilis gummifer.** *Hist. ox.* s. 7. t. 33. row 2. f. 11.

*Chamaeleo albus verus acaulis.* Park. theatr. 967.

No fig.

*Carduus pinea* Theophrasti. Alp. exot. 126. t.

124, segments of the leaves decayed, the costae only remaining; t. 125. A flower.

*CARLINA gummifera.* Lew. i. 287.

*Carduus pinea.* Dale 106.

*Ixia Theophrasti.* Tourn. roy. i. 28.

*Χρυσιλεων λευκος.* Diosc. l. 3. c. 10.

## 778. CARTHAMUS.

Receptacle pilose. *Pappus* paleaceous and none.  
Obs. 6575. 4260. Specimen of *C. creticus*.—*L.*

### 1. *Pappus paleaceous.*

1. CARTHAMUS *lanatus*. Stem pilose, woolly above. Lower leaves pinnatifid; uppermost amplexicaul, dentate. *L.* sp. 1163; *mant.* 462. *Hort. kew.* iii. 150. *Gou. hort.* 427. Near Montpelier.

Atractylis *lanata*. Scop. carn. n. 1016.

Cnicus, Atractylis *lutea dictus*. Boerh. i. 140.

Atractylis Theophrasti et Dioscoridis, succo sanguineo. Col. ecphr. i. 19. t. 23. The 2 inner figures.

Atractylis *vera*, flore luteo. Bauh. J. iii. a. 83.

Cnicus *sylvestris prior*. Dalech. 1450, repr. in

Atractylis. Dalech. 1468. Raii hist. 304; eur. 74. In Italy and the south of France.—*Dod.* 724, repr. in *Ger.* by Johns. 1171, & cop. in

Atractylis flore luteo. Park. theatr. 963.

Atractylis *quorundam*. Dalech. 1469.

**ATRACTYLIS.** Blackw. t. 468.—Dale 106.  
Mill. Jos. 64.

**Atractylis lutea.** Chom. 272. Geogr. iii. 260.

2. **CARTHAMUS corymbosus.** Anthodia corymbose,  
numerous. L. sp. 1164; mant. 462. Hort. kew.  
iii. 151.

Brotera corymbosa. L. a Willd. iii. 2399.

Chamaeleon niger Matthioli et Fuchsii. Dalech.  
1454, cop. in

Chamaeleon niger Cortusi. Dod. 717, which repr.  
in ed. ii. 729,

Chamaeleo niger Dioscoridis. Lob. obs. 480,

Chamaeleon niger. Ger. by Johns. 1160, &

Chamaleo niger Dioscoridis Maranthae. Lob. ic.  
ii. 5, & cop. in Bauh. J. iii. a. 63. Raii eur. 93,  
the place of growth cop. from J: Bauh. being  
marked in hist. 314, as a plant he had not seen.

Chamaeleon niger verus. Dalech. 1455. Park.  
theatr. 970.

**Carduus capitulis plurimis violaceis corymbatim dis-**  
**positis.** Hist. ox. s. 7. t. 33. row 2. f. 17.

Seeds oblong, pilose; hairs adpressed. **Pappus**  
paleaceous; paleae subulate, erect, slightly unequal,  
about 8 or 10. Obs. 4856. Specimen gathered in  
the Paris garden.

**CHAMELEON niger.** Dale 106.

## 2. **Pappus nonē.**

3. **CARTHAMUS tinctorius.** Leaves elliptic, gla-

brous. Stem glabrous, with many anthodia. Obs.  
6575. In Mr. Shore's garden.—L. sp. 1162.  
Hort. kew. iii. 150.

*C.* officinarum, flore croceo. *Boerh.* i. 139.

*Cnicus indicus.* *Rumph.* v. 215. t. 79. f. 2.

*Cnicus sativus.* *Besl. hort. aest. ord.* 11. *fol.* 3.

*Cord. fol.* 167. *p. 2,* repr. from

*Cartamus*, sive *Cnecus*. *Trag.* 845, which imit.  
from

*Cartamus.* *Fuchs.* 402. c. 157, which cop. in

*C.* sive *Cnicus.* *Bauh. J.* iii. a. 79. *Raii hist.* 302;  
*syn.* 196. Cultivated in fields.—*Ger.* by *Johns.*  
1169, repr. from

*Cnicus vulgaris.* *Clus. hist.* ii. 152, & cop. in

*Cnicus*, sive *C. sativus.* *Park. theatr.* 260.

*Leaves*, margin dentate; teeth spinose. *Involucra*,  
bracteae dentate at the margin; teeth spinose. *Obs.*  
6575.—*Leaves*, margin mostly entire; those of the  
branches with a few teeth. *Involucra*, bracteae  
acute and rounded. *Obs.* 6576. Specimen gath-  
ered in the Paris garden.

*CARTHAMUS.* *Pharm. austriaco-prov.* 27.—

*Alst.* ii. 340. *Berg.* 660. *Dale* 106. *Geoffr.* ii.  
462. *Lew.* i. 288; disp. by *Rother.* 129. *Linn.*  
216. *Mill.* *Jos.* 116. *Murr.* i. 90. *Rutty* 97.  
*Schoepf* 120. *Schrod.* 758. *Spielm.* 631. *Vog.*  
152. 167.

*Cnicus.* *Herm.* 345.

*C. tinctorius.* *Bry.* 148. *Lour.* ii. 587.

*Cartame.* *Chom.* 6.

## 779. ECHINOPS.

*Receptacle* naked. *Pappus* paleaceous. *Anthodia*  
uniflorous. *Obs.* 3329. *L.*

1. *ECHINOPS sphaerocephalus.* Heads globose.

Leaves sinuate, pubescent on the upper side, tomentose underneath. *Obs.* 3339. In a garden.—*L. a Murr.* 797; *sp.* 1314. *Roth germ.* i. 374; ii. *pars* ii. 375. *Gou. hort.* 420. Near Montpelier; *monsp.* 325. *Host austr.* 479. *Hort. kew.* iii. 281. *Echinopus sphaerocephalus.* *Scop. carn. n.* 993. *Carduus sphaerocephalus latifolius vulgaris.* *Raii hist.* 383; *eur.* 84. Between Viterbo and Rome. *Chamaeleon niger.* *Fuchs.* 838, c. 339, *cop. in Chalceios.* *Dalech.* 1481, & *Echinopus major.* *Bauh. J.* iii. *pars* i. 69. *Vaill. paris.* 48. *Boerh.* i. 135. *Magn. hort.* 71. *Chamaeleon verus.* *Trag.* 853, *cop. in Tetralix spinosa.* *Dalech.* 1483. *Carduus sphaerocephalus.* *Besl. hort. aest. ord.* 11. *fol.* 7. *Cord. fol.* 87. *Dod.* 710, *repr. in Crocodilion.* *Lob. obs.* 481, *Carduus globosus.* *Ger. by Johns.* 1151, & *Ritro, seu Rutro Theophrasti.* *Lob. ic.* ii. 8. *Carduus sphaerocephalus major.* *Park. par. t.* 331. *f. 5.* *Carduus sphaerocephalus acutus major.* *Park. theatr.* 977.

*General involucrum* shorter than the anthodia, multibracteate, with bristles at the base. *Anthodia* numerous. *Involucra* multibracteate, setose at the base. *Bracteae* lanceolate. *Corollae* tubular, hermaphrodite. Seed terete, villose. *Pappus* paleaceous, very short; paleae erect, turbinate, semimultifid, shorter than the breadth of the seed. *Receptacle* nearly naked. *Obs.* 3339.

*CROCODILION.* *Dale* 102. (*Diosc. l. 3. c.* 12, is described as having an orbicular didymous seed.)

## 780. ELEPHANTOPUS.

Receptacle naked. *Pappus aristate. Obs. 8824.*  
*L.*

1. ELEPHANTOPUS *scaber.* Anthodia fasciculate, terminal, with a general involucrum. Stem branched, strigose. Leaves scabrous. *From L. a Willd. iii. 2389; & sp. 1313. Mill. Ph. dict. n. 1. Hort. kew. iii. 281.*

*Elephantopus. L. upps. 247. Roy. 131.*

*Bidens frutescens, foliis oblongis utrinque acuminatis venosis et lanuginosis. Breyn. ic. 32. t. 24, from a specimen in Marcgraave's herbarium.*

*Echinophorae indicae affinis, semine et floribus in capitulis laevibus in caulum cymis. Pluk. alm. 132; phyt. t. 388. f. 6; in Chelsea garden.*

*Scabiosae affinis anomala sylvatica, enulae folio, singularis flosculis albis in eodem capitulo perianthia habentibus, semine papposo, Sloane hist. i. t. 156. f. 1.*

*Scabiosa indica. Boerh. i. 130.*

*ANASCHOVADI. Rheedea x. 13. t. 7.*

2. ELEPHANTOPUS *carolinianus.* Anthodia fasciculate, terminal, with a general involucrum. Stem simple, pilose. Leaves pilose. *Obs. 8824. Specimen gathered by Mr. Knowlton in the Lonsborough garden.—L. a Willd. iii. 2390.*

*E. scaber. Swartz. obs. 316. Michaux ii. 148.*

*E. conyzae folio. Dill. hort. 126. t. 106. f. 126.*

*Stem with a few short flowering branches at the*

end. Leaves elliptic, veined, with microscopic olearia underneath; veins transverse, numerous, prominent underneath; olearia globular, numerous, yellow. General involucrum of 3 floral leaves; floral leaves deltoido-cordate, acuminate. Anthodia terminal and lateral, from 4 to 9 together, equal, erect, fastigiate, about as long as the floral leaves, terete, linear. Involucra quadriflorous, loosely imbricate, shining; bracteae lanceolate, acute, trinervose, olive-brown above, whitish below and at the margin, about 10, 4 inner longer, entire at the margin, the outer unequal, acuminate, here and there with a serrature. Flowers erect, one 6th longer than the involucrum. Corollae infundibuliform; tube as long as and thrice as narrow as the germen; limb quinquepartite,  $1\frac{1}{2}$  as long as the tube; segments linear, as broad as the tube, tender, more resembling the corolla of Jasione than the tubular corollae of syngenesious flowers. Germen terete, attenuate downwards, striate, slightly pubescent; kernel half as long as the germen. Pappus aristate; aristae from 7 to 9, erect, whitish, unequal, the longest  $1\frac{1}{2}$  as long as the germen, subulato-triangular and pubescent at the base, above setaceous and microscopically scabrous; the shortest shorter than the breadth of the germen, setaceous. Obs. 8824.

*ELEPHANTOPUS* erectus, foliis oblongo-ovatis rugosis atque serratis, floralibus cordiformibus ternatis, capitulis remotis terminalibus. Browne 312.

### 781. VERNONIA.

Receptacle naked. Pappus double; outer paleaceous; inner pilose. From L. a Willd.

1. VERNONIA *amara*. Leaves lanceolate, scabrous at the margin; lower dentate at the base; upper entire at the margin, decurrent. Anthodia corymbose. *From*

*Serratula amara.* L. a Willd. iii. 1644; sp. 1148,  
and

*CIRSIUM* inerme, foliis scabris lanceolatis inferioribus ex sinuato-dentatis, squamis superioribus calicem subrotundis membranaceis. Gmel. sib. ii. 72.  
t. 29; account from in ph. tr. abr. by Hult. x.  
353.

2. VERNONIA *praealta*. Leaves ovato-lanceolate, serrate, pubescent underneath. Corymbus fastigiate. Bracteae of the involucra ovate, acuminate. L. a Willd. iii. 1633.

*Serratula.* Mill. Ph. ic. 15. t. 234.

*Serratula virginiana*, persicae folio subtus incano.  
Dill. hort. 356. t. 264. f. 343.

*Serratula praealta*, angusto plantaginis aut persicae folio. Bocc. piante 45. t. 32.

*Eupatoria virginiana*, serratulæ noveboracensis latioribus foliis. Pluk. alm. 141. t. 280. f. 6.

*SERRATULA praealta*. L. sp. 1146. Hort. kew.  
iii. 137.—Schoepf 119.

3. VERNONIA *anthelmintica*. Leaves elliptic, slightly scabrous, pubescent underneath. Anthodia terminal, mostly 3 together. *From L. a Willd.* iii. 1634,

*Conyza antihelminica*. L. sp. 1207, &

*Scabiosa conyzoides*, foliis latis dentatis, semine

amaro lumbricos enecante. *Burm. J. zeyl.* 210. t. 95.

**CATTU-SCHIRIGAM.** *Rheede* ii. 39. t. 24.  
*Raii hist.* 1443.

## 782. LIATRIS.

*Receptacle naked. Pappus plumose. Obs. 7552.*  
*L. a Schreb.*

1. **LIATRIS spicata.** Leaves ensiform-linear, ciliate at the base. Anthodia spicato-racemose. Stem simple. Bracteae of the involucra lanceolato-oblong. *Obs. 7552.* In Mr. S. Shore's garden.—  
*L. a Willd.* iii. 1636.

*Serratula foliis linearibus, floribus sessilibus lateralibus spicatis, caule simplici.* *Gron. virg.* 116.

*S. foliis linearibus, floribus solitariis sessilibus.* *Gron. virg. ed. i.* 92.

*Cirsium tuberosum, lactucae capitulis spicatis.* *Dill. hort.* 85. t. 72. f. 83.

*Jacea angustifolia, tuberosa radice, virginiana.* *Pluk. alm.* 190; *phyt.* t. 424. f. 6.

(*Stoebe virginiana tuberosa angustifolia, capitulis sessilibus, squamis foliaceis acutis donatis.* *Hist. o.x. s. 7. t. 27. row 2. f. 10,* is *S. squarrosa.*)

Stems erect, rigid, angular, 4 feet long, leafy. Leaves sparse, rigid, sparingly ciliate towards the base, rather obtuse at the end, with a costa and from 1 to 2 ribs on each side of the costa, dotted, upper and lower surfaces scarcely distinguishable. Racemus 40 inches long, flowering downwards. Anthodia ob-

pyramidal, adpressed; lowermost on short peduncles; middlemost and upper on very short peduncles; uppermost sessile. *Bracteae* subulate, erect, gradually shorter upwards. *Involuera* imbricate, with about 13 flowers; bracteae below triangular, gradually longer upwards; upper oblongo-lanceolate. *Corollae* as long as the involuera, pinkish purple. *Germen* oblong, attenuate at the base, terminated at the end by a honey-coloured glandular ring, enveloping the base of the style. *Style* nearly half as long as the corolla, whitish. *Stigmata* 2, linear, pinkish purple,  $1\frac{1}{2}$  as long as the style. *Seeds* terete, striate. *Pappus* plumose, pinkish white; lateral hairs very short, patulous. *Receptacle* hemispheric, dotted, glabrous. *Obs.* 7552.

*SERRATULA* spicata. *L. sp.* 1147. *Hort. kew.*

iii. 138. *Andr. rep.* vi. t. 401.—*Bart.* 37. *Schoepf* 119.

2. *LIATRIS scariosa*. Leaves lanceolate, dotted; margin scabrous. Racemus terminal, leafy. Involuera squarrose at the base; bracteae obovate. *Obs.* 8813. Specimen gathered by Dr. Cutler in New England.—*L. a Willd.* iii. 1633.

*L.-squarrulosa*. *Michaux* ii. 92.

*Cirsium tuberosum*, *capitulis squarrosis*, alia species.

*Dill. hort.* 83.

*Eupatorio affinis americana* bulbosa, floribus scariosis, capitulis contextis. *Pluk. alm.* 142; *phyl. t.* 177. f. 4. *The root and lowermost leaf cop. in*

*Stoebe virginiana* tuberosa latifolia, capitulis sessilibus squamis foliaceis acutis donatis. *Hist. ox.* ii. 137. s. 7. t. 27. row 2. f. 10. (The entire plant is *S. squarrosa*.)

*Seeds terete, striate, hirsutulous. Obs. 8813.*

*SERRATULA* scariosa. *L. sp.* 1147. *Hort. kew.* iii. 138.—*Schoepf* 119.

*Serratula. Cutl.* 477.

*Devils-bit. Mather in ph. tr. abr. by Jones v. part ii. 160, & by Hutt. vi. 86.*

### 783. LAVENIA.

*Receptacle naked. Pappus aristate; aristae clavate. From Swartz. prodr. 112; occid. iii. 1329, &*

*Adenostemma. Forst. J. & G. 89. t. 45.*

1. *LAVENIA erecta.* Stem branched, erect. Leaves elliptic. *From Swartz. prodr. 112, & occid. iii. 1333.*

*Adenostemma viscosa. Forst. J. & G. 90; G. austral. n. 284.*

*Verbesina Lavenia. L. sp. 1271; mant. 475; a Murr. 779.*

*Eupatoriophalacron scrophulariae aquaticaefoliis oppositis. Burm. J. zeyl. 95. t. 42.*

*PU TUMBA. Rheedea x. 125. t. 63.*

### 784. CACALIA.

*Receptacle naked. Pappus pilose. Involucra cylindric, with a single row of bracteae and with bracteae at the base. Obs. 7599. L.*

1. *Frutescent.* L.

1. **CACALIA ficoides.** Stem fruticose. Leaves compressed, fleshy. *L. sp.* 1168. *Hort. kew.* iii. 156.

*Kleinia foliis carnosis lanceolatis compressis, caule tereti.* *L. cliff.* 395.

*Senecio africanus arborescens, ficoidis folio et facie.*

*Commel. Casp. rar.* 40. t. 40. *Bradl. v.* 11. t. 49.

*CACALIA ficoides.* *Bry.* 95.

2. **CACALIA procumbens.** Stem suffruticose, procumbent. Leaves ovato-lanceolate, subserrate, fleshy: Racemi elongate, interrupted. *Lour. ii.* 592.

*SONCHUS volubilis.* *Rumph. v.* 299. t. 103. f. 2.

2. *Herbaceous.* L.

3. **CACALIA sonchifolia.** Leaves amplexicaul; lower lyrate. Involuera with 1 row of bracteae. *Obs.* 7599. In Saville's garden.—*L. sp.* 1169; *mant.* 463. *Hort. kew.* iii. 157. *Lour. ii.* 593.

*Senecio maderaspatanus, sinapis folio, floribus parvis luteis.* *Pluk. amalh.* 192; *phyt.* t. 444. f. 1.

*Tagolina luzonum, flore purpureo.* *Pet. gaz.* t. 80. f. 13.

*Muel-Schevy.* *Rheede x.* 135. t. 68.

Stem branched from the base, hirsute below, glabrous above,  $1\frac{1}{2}$  foot long. Branches ascending. Leaves dentate towards the base, denticulate above, smooth, slightly hirsute in places. Corollae orange-scarlet,  $1\frac{1}{2}$  as long as the involucrum. *Pappus*

pilose, white; hairs very fine, microscopically aculeate. *Receptacle* naked. *Obs.* 7599.

**SONCHUS** amboinensis. *Rumph.* v. 297. t. 103.  
f. 1.

## 785. EUPATORIUM.

*Receptacle* naked. *Pappus* pilose. *Involucra* imbricate. *Obs.* 304. L.

### 1. *Involucra with 5 flowers.*

1. **EUPATORIUM cannabifolium.** Leaves digitate pinnate and simple. *Obs.* 304. Near Stafford.—  
*Sal. R. hort.* 187.

**E. cannabinum.** *L. suec.* n. 728; sp. 1173. *Smith engl.* t. 428; *brit.* 860. *Bot. arr.* 885. *Raii syn.* 179. *Fl. dan.* t. 745.

**E. Avicenae.** *Blackw.* t. 110.

**Hepatorium vulgare.** *Dod.* 28, repr. in

**E. cannabinum mas.** *Ger. by Johns.* 711.

**E. adulterinum.** *Fuchs.* 266. c. 101, cop. in *Bauh. J.* ii. 1065, & abr. in

**Herba S. Kunegundis.** *Trag.* 491.

*Pappus* pilose; hairs scabrous with patulous microscopic aculei. *Obs.* 304.

**EUPATORIUM.** *Alst.* ii. 136. *Chom.* 75. *Geoffr.* iii. 452. *Herm.* 473. *Lew.* i. 419; disp. by *Rother.* 157. *Linn.* 217. *Murr.* i. 133. *Rutty* 186. *Schrod.* 587. *Spielm.* 213. *Vog.* 129.

**E. cannabinum.** *Chom.* 483; *suppl.* 144. *Krock.* ii. n. 1359.

**E. Avicennae.** *Dale* 91. *Mill.* *Jos.* 192.

2. *Involucra with 8 flowers.* L.

2. EUPATORIUM *purpureum*. Leaves petiolate, in fours and fives, ovato lanceolate, serrate, rugose, venose, roughish. Stem fistular. *L. a Willd.* iii. 1759; *sp* 1173. *Hort. kew.* iii. 160.

E. foliis subverticillatis lanceolato-ovatis serratis petiolatis rugosis. *Gron. virg.* 119.

E. foliis ovato-lanceolatis obtuse serratis in petiolos desidentibus. *Gron. virg. ed.* i. 93.

E. enulae folio. *Corn.* 190. *t.* 191, *abr. in*

E. canadense elatius, longioribus foliis rugosis integratis, et caulis ferrugineis. *Hist. ox. s.* 7. *t.* 13. row 2. *f.* 4.

EUPATORIUM *purpureum*. *Schoepf* 120.

3. *Involucra with 13 and more flowers.*

3. EUPATORIUM *perfoliatum*. Leaves connato-perfoliate, tomentose underneath. *Obs.* 5442. Specimen gathered by Dr. Cutler in New England.—*L. sp.* 1174. *Hort. kew.* iii. 160.

E. foliis connatis tomentosis. *Cutl.* 478.

E. virginianum, salviae foliis longissimis acuminatis perfoliatum. *Pluk. alm.* 143; *phyt. t.* 87. *f.* 6.

Stem hirsutulous; hairs jointed, flexuose. *Involucra* slightly imbricate, with 13 flowers; bracteae lanceolate, hirsutulous. Seeds prismatic, attenuate at the base, fuscous black, sprinkled with yellow olearia. *Pappus* pilose; hairs scabrous with microscopic aculei; aculei patulous, the lower twice as long as the breadth of the hairs, the upper shorter than the breadth of the hairs. *Obs.* 5442.

EUPATORIUM *perfoliatum*. *Bart.* 28. *Guthrie in ann. med.* iii. 403. *Schoepf* 121.

## 786. CALEA.

*Receptacle* paleaceous. *Pappus* pilose. *Involucra* imbricate. *L.*

1. *CALEA sessiliflora*. Anthodia sessile. *From PACOURINA edulis. Aubl.* ii. 800. *t. 316.*

2. *CALEA lobata*. Corymbi crowded. Leaves alternate, lanceolato-ovate, acuminate, serrate, the lower incise subhastate. *Swartz. occid.* iii. 1321; *prodr.* 113. *Hort. kew.* iii. 164.

*Conyza lobata. L. sp.* 1207.

*Conyza arborescens lutea, folio trifido. Plum. &c. i. 84. t. 96.*

*Virga aurea major, sive Herba Doria folio sinuato hirsuto. Sloane cat.* 125; *hist.* i. 260. *t. 152. f. 4.*

*SANTOLINA erecta subhirsuta, foliis serratis hastatis vel simplicibus et utrinque porrectis, floribus comosis. Browne* 315.

Halbert-weed. *Graing.* 32. 66.

## 787. SANTOLINA.

*Receptacle* paleaceous. *Pappus* none. *Corolla* with an appendage at the base. *Obs.* 1532. 4621. *L. Gnaphalium. Gaertn.* ii. 391.

1. *SANTOLINA brevidentata*. Peduncles with 1 anthodium. Leaves dentate; teeth pointing 4 ways, obtuse. *Obs.* 1532. In a garden.

S. Chamaecyparissus. *L.* a *Willd.* iii. 1797; *sp.*  
1179. *Hort. kew.* iii. 164  $\alpha$

S. foliis teretibus. *Boerh.* i. 123.

Seriphium Dioscoridis, abrotani foeminae facie. *Lob.*  
*adv.* 336, *cop.* in *ic.* i. 754, &

Seriphium verum. *Dalech.* 944, & *repr.* in  
Santolina. *Dod.* 269. *Park. par. t.* 451. *f. 1.*

Abrotanum foemina *vulgare*. *Raii hist.* 359; *eur.*  
46. About San Quiricho in Tuscany.

Chamaecyparissus. *Fuchs.* 829. *c.* 335, *cop.* in  
*Bauh. J.* iii. *pars i.* 133. *f. 1,* and *abr.* in *Trag.*  
77, which *repr.* in

Santonicum minus. *Cord. fol.* 149. *p. 2.*

Abrotonum foemina Matthioli. *Dalech.* 937.  
*Corolla* tubular, with an appendage at the base on  
the inner side; appendage extending below the end  
of the germen, semibifid; segments angular. *Style*  
after flowering contained in the withered corolla, ovate  
at the base, appearing like a minute bulb. *Obs.*  
1532.

SANTOLINA. *Berg.* 661. *Linn.* 217. *Murr.* i.  
134. *Vog.* 118.

S. Chamaecypariſſus. *Coste* and *Willem.* in *med.*  
*comment.* v. 298.

Abrotanum femina. *Alst.* ii. 65. *Dale* 97. *Geoffr.*  
iii. 6. *Lew.* i. 6. *Mill.* *Jos.* 4. *Rutty* 2.

Abrotanum foemina, foliis teretibus. *Chom.* 435.

Abrotanum montanum. *Spielm.* 236.

Cupressus herba. *Schrod.* 577.

2. SANTOLINA maritima. Anthodia corymbose.  
Leaves tomentose, oblong. *Obs.* 4621. Specimens  
gathered by Broussonett in the south of France or  
north of Spain, and by Mr. Boraston at Gibraltar.

- Huds.* 356. In the isle of Shepey, and near Pool in Dorsetshire.—*Bot. arr.* 886. *Smith engl. t.* 141; *brit.* 860, near Landguard fort in Suffolk.  
*Athanasia maritima.* *L. sp.* 1182; *mant.* 464.  
*Gnaphalium legitimum.* *Gaertn. ii.* 391. *t.* 165.  
*Filago.* *Mill. Ph. ic.* 90. *t.* 135.  
*Chrysanthemum perenne gnaphalooides maritimum.*  
*Hist. ox. s. 6. t. 4. row 3. f. 7.*  
*Gnaphalium maritimum.* *Raii hist.* 294; in the isle of Anglesey, in Cornwall, and on the shores of the Mediterranean; *syn.* 180.  
*Gnaphalium maritimum multis.* *Bauh. J. iii. a.*  
157. On the coasts of the south of France, *cop. in* Sea Cottonweed. *Pet. herb. t.* 20. *f.* 8.  
*Gnaphalium marinum.* *Lob. adv.* 200, *repr. in ic. i.* 480. *Ger. by Johns.* 640.  
*Gnaphalium Matthioli.* *Dalech.* 1115.  
*Gnaphalium marinum tomentosum.* *Dalech.* 1387.  
*Corolla tubular,* with an appendage at the base; appendage bifid, descending below the end of the germin. *Obs.* 4621.  
*Native* of the shores of the Mediterranean, and the coasts of Spain, Kent, Suffolk, Dorsetshire, Cornwall, and Anglesey.  
**GNAPHALIUM.** *Cod. med. p. Iv.—Dale 101.*

*Class 19. Part 2.*

## SYNGENESIA.

*Order 1.*

### MONOGAMIA.

For the synopsis of the genera contained in this order see p. 102, and for the account of the plants see from p. 105 to p. 174.

*Order 2.*

### POLYGAMIA

#### SUPERFLUA.

1. *Anthodium discoid.*

789. ARTEMISIA. *Receptacle* naked and pilose.  
*Pappus* none. *Obs.* 6111.  
 6114.

788. **TANACETUM.** *Receptacle* naked. *Pappus* an obsolete border.

791. **BACCHARIS.** *Receptacle* naked. *Pappus* pilose. *Female flowers* intermixed with the hermaphrodite ones. *From L.*

792. **CONYZA.** *Receptacle* naked. *Pappus* pilose. *Corollae* of the female flowers trifid and quadrifid. *Obs. 308.*

790. **GNAPHALIUM.** *Receptacle* naked. *Pappus* pilose. *Involucra* scariose. *Obs. 4259.*

2. *Anthodia radiate.*

794. **UNXIA.** *Receptacle* naked. *Pappus* none. *Involucra* with 5 bracteae.

802. **BELLIS.** *Receptacle* naked. *Pappus* none. *Involucra*, bracteae equal. *Obs. 1558.*

804. **CHRYSANTHEMUM.** *Receptacle* naked. *Pappus* none. *Involucra*, bracteae with membranaceous borders. *Obs. 6017.*

805. **MATRICARIA.** *Receptacle* naked. *Pappus* an obsolete border. *Obs. 6764.*

800. **DORONICUM.** *Receptacle* naked. *Pappus* of the radius none, of the disc pilose. *Obs. 5671.*

799. **ARNICA.** *Receptacle* naked. *Pappus* pi-

- lose. Ligulate flowers with the rudiments of stamens. *Obs.* 8309.
798. INULA. Receptacle naked. *Pappus* pilose. Anthers terminated at the base by 2 bristles. *Obs.* 8296.
793. ERIGERON. Receptacle naked. *Pappus* pilose. Ligulate corollae very narrow. *Obs.* 418.
797. SOLIDAGO. Receptacle naked. *Pappus* pilose. *Involucra* imbricate. Ligulate corollae mostly 5. *Obs.* 3358.
796. ASTER. Receptacle naked. *Pappus* pilose. *Involucra* imbricate. Ligulate corollae more than 8. *Obs.* 1480.
795. SENEPIO. Receptacle naked. *Pappus* pilose. *Involucra* with bracteae at the base. *Obs.* 4183.
803. PECTIS. Receptacle naked. *Pappus* aristate. Ligulate corollae 5. From L.
801. HELENIUM. Receptacle naked in the center, in the circumference paleaceous. *Obs.* 7615.
806. ANTHEMIS. Receptacle paleaceous. *Pappus* none. Ligulate corollae lanceolate. *Obs.* 1626.

807. ACHILLEA. *Receptacle paleaceous. Pappus*  
*none. Ligulate corollae ob-*  
*cordate. Obs. 6634.*
808. ECLIPTA. *Receptacle paleaceous; Pappus*  
*none. Tubular corollae qua-*  
*drid. L.*
810. SIGESBECKIA. *Receptacle paleaceous. Pappus*  
*none. Ligulate corollae on*  
*one side of the anthodium.*
811. BUPHTHALMUM. *Receptacle paleaceous. Pap-*  
*pus an obsolete border.*
809. VERBESINA. *Receptacle paleaceous. Pappus*  
*aristate; aristae 2. Obs. 8820.*

*Order 3.*

POLYGAMIA  
FRUSTRANEA.

814. CENTAUREA. *Receptacle pilose. Pappus pi-*  
*lose. Corollae tubular. Obs.*  
*4594.*
812. HELIANTHUS. *Receptacle paleaceous. Pappus*  
*diphyllous. Corollae of the*  
*radius ligulate. Obs. 2605.*
813. BIDENS. *Receptacle paleaceous. Pappus*  
*aristate, aristae 2 to 4, scabrous*

*Anthodia* with deflex aculei. *Anthodia* discoid and radiate. *Obs.* 567.

*Calendula officinalis* Linn. *Calendula officinalis* Linn.

*Calendula officinalis* Linn. *Calendula officinalis* Linn.  
Order. A.

## POLYGAMIA NECESSARIA.

1. *Anthodia* without a general involucrum.

816. CALENDULA. *Receptacle* naked. *Pappus* none. Seeds, outer of a different shape from the inner. *Anthodia* radiate. *Obs.* 47.

817. PARTHENIUM. *Receptacle* naked. *Pappus* paleaceous and none. *Anthodia* radiate. Laminae of the ligulate corollae shorter than the germen. *Obs.* 8405. L.

818. TUSSILAGO. *Receptacle* naked. *Pappus* pili-  
lose. Ligulate corollae linear. *Anthodia* radiate and discoid. *Obs.* 4637. 5444.

819. POLYNNIA. *Receptacle* paleaceous. *Pappus* none. *Involucra* double; outer with 4 and 5 bracteae; inner

with 10 bracteae. *Anthodia*  
radiate. From L.

2. *Anthodia* with a general involucrum.

819. SPHAERANTHUS, Receptacle naked. *Pappus*  
none. *Corollae* tubular, those  
of the radius trifid. From  
L.

A T T E N D I G O T

L I S T — C O D E

POLYGAMIA

SUPERFLUA.

788. TANACETUM.

Receptacle naked. *Pappus* an obsolete border. *Ca-*  
*rollae* of the female flowers trifid. From L.

1. Leaves entire.

1. TANACETUM *ovatifolium*. Leaves ovate. Obs.  
7617. In Mr. Knowlton's garden.

T. Balsamita. L. sp. 1184. Hort. kew. iii, 168.  
Asson. 806. Gou. hort. 432.

Costus hortensis. Dalech. 678.

Alisma. Trag. 163, repr. in

Mentha corymbifera. Cord. fol. 152. p. 2.

Balsamita major. *Boerh.* i. 125. *Dod.* *cor.* 299,  
*repr. in pempt.* 293,

Costus hortorum. *Lob. obs.* 174; *ic. i.* 322, &

Balsamita mas. *Ger. by Johns.* 648. *Blackw. t.*  
98.

Mentha corymbifera, sive Costus hortorum. *Bauh.*  
*J. iii. pars i.* 144. *Raii hist.* i. 363;

Balsamita mas, seu Costus hortorum. *Park. par. t.*  
481. *f. 5.*

Native of Spain.

**BALSAMITA.** *Pharm. austriaco-prov.* 22.—

*Berg.* 664. *Lew. disp. by Rother.* 107. *Linn.*  
218. *Vog.* 94.

T. Balsamita. *Bry.* 115. *Krock. ii.* 1363.

Balsamita mas. *Dale* 98. *Lew. i.* 191. *Mill. Jos.*  
71. *Murr. i.* 132.

Costus hortorum. *Geoffr. suite iii.* 155.

Mentha hortensis corymbifera. *Carth. iii.* 99. *Chom.*  
436.

Mentha saracenica. *Schrod.* 625.

2. **TANACETUM annuum.** Leaves bipinnatifid; segments linear, acute. Corymbi tomentose. *L. sp.* 1184. *Hort. kew.* iii. 168.

Santolina corymbis simplicibus fastigiatis, foliis linearibus confertis. *Mill. Ph. ic.* 151. *t.* 227. *f. 1.*

Eliachrysum foliis abrotani. *Pluk. phyt. t.* 160. *f. 1.*

Eliachryson. *Clus. hisp.* 366. No fig.—*hist. i.* 326,  
*repr. from Dod.* 267, which *repr. in Lob. obs.*  
430,

Eliachryson. *Lob. ic. i.* 746, &

Eliachryson, sive Coma aurea. *Ger. by Johns.* 615.

**HELIOPHYLLUM.** *Dale* 100.

Ελιοχρυσον. *Lob.* *adv.* 331. No fig.

3. TANACETUM *vulgare*. Leaves pinnate below bipinnatifid above; pinnae pinnatifid, incise, serrate. *Obs.* 7091. Specimen gathered on the banks of the Severn near Worcester.—*L.* *suec.* *n.* 720; *sp.* 1181; *marit.* 465. *Fl. dan.* *t.* 871. *Huds.* 357. *Lightf.* 465. *Bot. arr.* 887. *Scop. carn.* *ii.* *n.* 1031. *Smith brit.* *ii.* 862; *engl.* *t.* 1229. *Thornt.* *t.* 684. *Woodv.* *ii.* 314. *t.* 115. *Gou. hort.* 432. *Jacq. vñd.* 149. *Poll.* *n.* 779; *Roth germ.* *i.* 353. *Host austr.* 448. *Park. theatr.* 81, cop. from *T. millefolii* foliis. *Lob. ic.* *i.* 749, which repr. from *T. vulgare luteum*.

*Tanacetum.* *Lob.* *obs.* 432, which repr. in Ger. by *Johns.* 650. *Raii hist.* 365; *syn.* 188. *Park. par.* *t.* 485. *f. 1.* *L. lapp.* *n.* 295. *Guett.* *ii.* 337.

*T. vulgare luteum.* *Tourn. paris.* 366. *Vaill. paris.* 191. *Boerh.* *i.* 124. In Holland.

*Artemisia monoclona*, *Fuchs.* 46. *fol. ed. cop.* in *47. c. 13,* &

*T. vulgare*, flore luteo. *Bauh. J.* *iii. a.* 181. Between Vicenza and Villa nova, and in Switzerland, Dauphine, and Alsace.

*Athanasia*, seu *Tanacetum*. *Dalech.* 955.

*Reynsfarn.* *Brunsf.* *i.* 250.

*Involucra* closely imbricate; bracteas linear, membranaceous at the end. *Corollae* tubular, equal; limb of those of the radius oblique, semitrifid. *Pappus* a very short, quadrifid border. *Obs.* 7091.

*Native* of Europe from Lombardy to Lapland, but not noticed in the floras of Montpelier, nor in that of Arragon.

*TANACETUM.* Flowers. Herb. *Pharm. lond.*

—*Alst.* ii. 232. *Berg.* 662. *Carth.* iii. 151. *Cull.* ii. 79. *Dale* 98. *Fordyce, G.* fev. ii. 83. *Geoffr. suite* iii. 148. *Herm.* 296. 490. *Hill* 349. *Krock.* ii. n. 1362. *Lew.* ii. 409. *Linn.* 218. *Mill. Jos.* 432. *Monro* iii. 279. *Murr.* i. 130. *Rutty* 508. *Sauv. nos.* i. 683. *Schoepf* 121. *Schrod.* 690. *Spielm.* 231. *Vog.* 85.

*T. vulgare.* Leaves. Flowers. *Pharm. edin.*—  
*Coste* and *Willem.* in *med. comment.* v. 298. *Lew.*  
disp. by *Dunc.* 317. *Murr. J.* i. 379. *Pears. R.*  
ii. 259; ed. ii. 393.

*Tansy.* *Graing.* 27. *Panton in Daws.* *rheum.*  
59.

*Tanaisie.* *Chom.* 197. 440; *suppl.* 137.

*T. crispum.* Leaves curled at the margin. *Obs.* 7092.  
In a croft which had been a garden at Walton hall  
near Chesterfield.—*Bot. arr.* 888.

*T. foliis crispis.* *Boerh.* i. 124. *Dill. ap. Raii syn.*  
188, who inserts it as a native on the supposition of  
its having originated in England.

*T. crispum anglicum.* *Ger. by Johns.* 650, repr.  
from

*T. crispum.* *Dod.* 36, the lower leaf cop. in *Park.*  
*theatr.* 650.

*T. crispum, flore luteo.* *Bauh. J.* iii. a. 132.

Leaves microscopically villosulose, especially underneath; segments canaliculate; margin erect, undulate, curled; scent rather more grateful than that of  $\alpha$ .  
*Obs.* 7092.

## 789. ARTEMISIA.

*Receptacle* naked and pilose. *Pappus* none. *Corolla* tubular. *Obs.* 6111. 6114. *L.*

## 1. Leaves undivided.

1. ARTEMISIA *Dracunculus*. Leaves lanceolate, entire at the margin, glabrous. *L.* sp. 1189. *Hort. Kew.* iii. 173. " *A. foliis lanceolatis glabris integerrimis.* *Gmel. sib.* ii. 126. *t.* 59. 60. *f.* 1. " *Draco herba.* *Boerh.* i. 127. *Cord. fol.* 221. *p.* 2. " *No fig.* *Dod.* 697, *repr. in Ger. by Johns.* 249, & *Draco.* *Lob. ic.* i. 455, *and abr. in* " *Dracho herba, seu Tarchon.* *Park. par.* *t.* 501. *f.* 2. *Draco hortensis.* *Dalech.* 685. On stony mountains near Bourg en Bresse. " *Dracunculus hortensis; sive Tarchon.* *Bauh. J.* iii. *par* i. 148. *DRACUNCULUS.* *Pharm. suec.*—*Berg.* 674. *Dale.* 101. *Spielm.* 54. *A. Dracunculus.* *Bry.* 93. *Krock.* ii. *n.* 1371. *Dracunculus esculentus.* *Geoffr.* iii. 411. *Dracunculus hortensis.* *Chom.* 443. *Mill. Jos.* 182.

## 2. Leaves divided. Stem fruticose.

2. ARTEMISIA *judaica*. Leaves obovate, obtuse, lobate, small. Anthodia paniculate, pedicellate. *L. mant.* 281. 111, probably from Gron.—*Lour.* ii. 597. *A. tota cinerea.* *Gron. orient.* *n.* 259. *Absinthium halpense tenuifolium, grati odoris, coma delicior.* *Pluk. alm.* 2; *phyt.* *t.* 73. *f.* 2. From W. Shérard. Leaves laciniate. *Absinthium santonicum judaicum & alexandrinum.*

*Shaw trav.* 459. In Arabia petraea and the deserts of Numidia.

Scheha arabum. *Dalech. app.* 36, repr. in

Scheha des arabes. *Dalech. plantes i.* 823, and cop. in

Lumbricorum semen Rauwolfii. *Bauh. J. iii. pars i.* 180, &

Assenzo Seriphio vero di Dioscoride. *Zan. 37. t. 14,* which repr. in

Absinthium santonicum judaiacum. *Zan. a Mont. l. t. 1. Raii hist. i.* 369.

*Involucra* not yet expanded, tomentose; tomentum brownish yellow. Specimen of a branch in Sir Jos. Banks's herbarium, a duplicate from the Linnaean herbarium.

**SANTONICI SEMEN.** *Murr. i.* 413.

Semina Cinae. *Pharm. austriaco-prov.* 30.—*Berg. 666.*

Semen Cinae. *Spielm.* 209.

Absinthium santonicum judaicum. *Chom. ii.* 445. *Dale 100.*

3. ARTEMISIA *Abrotanum.* Leaves bipinnatifid; segments linear-setaceous. *Obs. 7989.* Specimen gathered in a garden.—*L. sp.* 1185. *Gou. hort. 432.* On the borders of fields and in hedges near Montpelier.—*Hort. kew. iii.* 169. *Woodv. ii.* 326. *t. 119.* *Krock. ii. n.* 1364. *Lour. ii.* 598. *Thornt. t. 686.* *Scop. carn. n.* 1034. About Trieste.

\* *erecta.* Stem erect. *Hort. kew. iii.* 169.

*Abrotanum mas.* *Fuchs. 7. c. 2, cop. in*

*Absinthium ponticum vulgare, folio inferius albo.* *Bauh. J. iii. pars i.* 175. *f. 1,* (name and descr. belonging to *A. pontica,*) and abr. in

*Abrotonium*. *Trag.* 341, which repr. in

*Abrotanum nigrum masculum*. *Cord. sol.* 107. p. 1,

& cop. without the fructifications in

*Abrotanum mas*. *Dalech.* 938. *Math.* 691. *Cam.*

*epit.* 459. *Lob. ic.* i. 768, repr. in *Dod.* 21, & *Ger.*

by *Johns.* 1105, abr. in

*Abrotanum mas vulgare*. *Park. theatr.* 92, & cop.

in *Trag.* 341, which repr. in

*Seriphium Absinthium*. *Dalech.* 944.

*Abrotanum vulgare*. *Bauh. J.* iii. pars i. 192.

**ABROTANUM.** Southernwood. Leaves. *Pharm.*

*lond.*—*Alst.* ii. 65. *Berg.* 665. *Cull.* ii. 82. *For-*

*dyce,* G. fev. ii. 83. *Hill* 400. *Lew.* disp. by

*Dunc.* 160. *Linn.* 219. *Monro* iii. 3. *Schrod.*

521. *Spielm.* 235. *Vog.* 46.

**A.** *Abrotanum*. *Pears. R. ed.* ii. 328. 368.

*Abrotanum mas*, *Carth.* iii. 130. *Dalec.* 100. *Geoffr.*

iii. 2. *Herm.* 483. *Lew.* i. 5. *Mill. Jos.* 3. *Murr.*

i. 116. *Rutty* 1.

*Abrotanum mas angustifolium majus*. *Chom.* 435;

*suppl.* 135.

**3.** *Leaves divided. Stem herbaceous, procumbent before flowering.* From L.

**4.** *ARTEMISIA santonica.* Cauline leaves linear, pinnato-multifid; those of the branches undivided. Racemi secundose, reflex. Anthodia cylindrical, with 5 flowers. From L. a *Murr.* 743; a *Gmel.* ii. 1211, who justly reads rameis in place of ramis.—*Thornt.* t. 708, a branch cop. from.

**A.** *fruticosa incana ramosissima, corymbis sessilibus spicatis subrotundis, foliis superioribus linearibus*

brevissimis obtusiusculis. . . Gmel. sib. ii. 115. t.  
51, from a dried specimen gathered in Astrachan.  
Very sweet scented.

A. Santonicum. L. sp. 1185. Zinn. goett. 397.  
Woodv. ii. 335. (t. 123 is A. santonica. Hort.  
kew. iii. 170.)

Semen sanctum, sive Semenzina. Matth. 689; cop.  
in

Abrotano maschio vero di Dioscoride. Zan. 1: t. 1,  
with the addition of leaves of another plant, which  
repr. in Zan. a Mont. t. 2.

Semen sanctum. Cam. epit. 457. A, the drug.—Da-  
lech. 945, imit. in Lob. ic. i. 756, which repr. in  
Sementina. Dod. 27, & Ger. by Johns. 1100, &  
which cop. in

Absinthium santonicum alexandrinum, sive Sementina  
&c. Park. theatr. 103, &

Lumbricorum semen vulgare, & Matthioli. Bauh. J.  
iii. pars i. 180.

Branches tomentose, whitish; the lesser secundose,  
short, with 6 anthodia. Floral leaves linear, shorter  
than the anthodia, tomentose, whitish. Involucra,  
margin of the bracteae membranaceous, palish yellow.  
Specimen in Sir Jos. Banks's herbarium, a duplicate  
from the Linnaean herbarium.

SANTONICUM. Alst. ii. 169. 371. Cull. ii. 62.  
Dale 100. Darw. ii. 102. Fordyce, G. fev. ii. 83.  
Hill 528. Lew. ii. 331; disp. by Rother. 235.  
Mill. Jos. 392. Monro iii. 247. Murr. i. 113.  
Rutty 461. Schrod. 673.

A. santonica. Tops. Pharm. edin.—Lew. disp. by  
Dunc. 161. Murr. J. i. 378. Pears. R. ii. 256.

Semina Cinae. Berg. 666. Linn. 219.

Semen Cinæ. *Carth.* iii. 453. *Herm.* 311. *Vog.*  
159.

Semen contra. *Geoffr.* ii. 466.

Worinseed. *Neum.* ii. 132.

5. ARTEMISIA glabrescens. Leaves pinnatifid, glabrous and slightly villose; segments linear. Anthodia roundish, racemose. *Obs.* 4251. Specimens gathered in the Paris garden, and that of Sole.

A. foliis multifidis linearibus, caule procumbente.  
*Guett.* ii. 335.

Abrotanum campestre, caulinis albicantibus. *Tourn.*  
*paris.* 46. *Vaill. paris.* 1. *Boerh.* i. 127. In Holland.

Abrotanum campestre, caulinis rubentibus. *Tourn.*  
*paris.* 46. *Vaill. paris.* 1. *Boerh.* i. 127. In Holland.

A. tertia Dioscoridis. *Lob. adv.* 340, *repr. in ic.* i.  
765, & *cop. in*

A. tertia leptophyllum. *Dalech.* 950, &

Abrotanum campestre. *Park. theatr.* 94. *Raii hist.*  
371; *syn.* 190. At Elveden, and a mile from Barton mills in Suffolk, both places between Newmarket and Thetford, where discovered by Willis. — *Ger. by Johns.* 1106; *repr. from*

A. tenuifolia. *Dod.* 33, *which cop. in*

Abrotanum campestre incanum. *Park. theatr.* 94.  
& *abr. from*

Ambrosia altera. *Dalech.* 1148.

A. tenuifolia, sive leptophyllum, alias Abrotanum silvestre. *Bauh. J.* iii. pars i. 194, *cop. in*  
Wild Southernwood. *Pet. herb. t.* 20. *f.* 4.

(Abrotanum inodorum Löbelii. Dilech. 939; is A.  
caeruleus.)

*ARTEMISIA campestris.* L. sivec. n. 732; sp.

1185. Bot. arr. 889. Smith. engl. t. 338; brit.

863.—Linn. 219. Schoepf 122.

A. tenuifolia. Dale 100.

—*Artemisia tenuifolia* (L.) Schrad. ex Willd. 1800.

6. *ARTEMISIA maritima.* Leaves decomound and

pinnate; tomentose; segments linear, obtuse; floral

Leaves ternate. Stems ascending. Spikes annual

rhodia cernuous. Obs. 7988. Specimen gathered

in the Paris garden.—L. & Willd. fil. 1833; sivec.

n. 734; sp. 1180; Lightf. 466; Krockilii. n.

1366; Smith. engl. t. 1700; brit. 864 & Bot. arr.

890 & y. Woodv. ii. 334. t. 122. Thornt. t. 707;

seems to be a branch of *A. Absinthium*.

*A. foliis compositis multifidis, floribus subrotundis*

*nutantibus, receptaculo nudo.* Guelt. ii. 462.

French sea Wormwood. Pet. herb. t. 20. f. 3.

*Absinthium marinum album.* Raii hist. 370; syn.

188. Boerh. i. 126. In Holland.—Ger. by Johns.

1099, repr. from

*Seriphium vulgare, perperam Dioscoridis.* Lob. ic.

i. 755, which cop. in

*Absinthium Seriphium belgium.* Hist. ox. s. 6. t.

2. row 2. f. 20. Bauh. J. iii. a. 178. No fig.

Specimen received from London from Gargillus.

*Absinthium Seriphium vulgo dictum.* Cam. epit.

458.

*ABSINTHIUM maritimum.* Tops. Pharm. lond.

—Alst. ii. 68. Fordyce, G. sev. ii. 83. Lew. i. 11;

disp. by Dunc. 161. Mead mon. i. 142. Murr. i. 128.

*Absinthium Seriphium.* Dale 99.

*Absinthium marinum*. Rutt. 4.

*Absinthium tenuifolium* *Scripium*. Mill. J. 7.

*A. maritima*. Pears. R. ed. ii. 329. 368.

7. *ARTEMISIA gallica*. Leaves decomound and pinnate, tomentose; segments linear, obtuse; floral leaves ternate. Stems ascending. Spikes and an-
- anthodia* erect, *Obs.* 6111. In Miss Wood's gar-  
den.—*L. a. Willd.* iii. 1834. *Smith engl.* 1706.
- A. maritima*. *Smith engl.* t. 1001. *Brit.* ii. 864  
*Gou. hort.* 438. Near Montpelier *monsp.* 335.  
*Bot. arr.* 890  $\delta$ . *Huds.* 358  $\gamma$   $\delta$ .
- A. soliis compositis multifidis, racemis simplicibus*  
*alternis, floribus erectis sessilibus.* *Roy.* 153.  
*Guett.* ii. 462.
- Absinthium Scripium gallicum*. *Magn. monsp.* 1;  
*hort.* 2.
- Absinthium Scripium narbonense*. *Raii hist.* 370;  
*eur.* 47. At Leghorn and on the shores of the  
Mediterranean. Leaves described as less hoary and  
segments broader than those of England.
- Santonici species. *Cam. epit.* 457, the 3 outer and  
the lowermost of the 3 inner figures, *imit. in*
- Absinthium Scripium tenuifolium marinum narbo-*  
*nense*. *Bauh. J.* iii. a. 177, found on the sea coast  
near Montpelier, is a good representation of it but  
he describes the segments of the leaves as broader  
and less white than what is found on hills in the  
Vallais, and he also adds that the first leaves are  
green.—*Dill. ap. Raii syn.* 189. Found by Dale  
at Harwich, on the marsh banks on the west of the  
town, and in Mersey island; and by James Sherard  
near Sheerness in Sheppey island.
- Absinthium minus tenuifolium, alte incisis foliis, cine-*

reum hispanicum. Baret. 90. n. 1008. l. 460.

No fructifications. Basal and upper leaves white, English sea Wormwood. Pet. herb. t. 20. f. 3. Leaves white; floral leaves tripartite. Spikes terminal, erect, leafy. Involucra yellowish green, lanuginose at the base. Flowers mostly 5, hermaphrodite, with sometimes 3, 2, and 1 male flowers as short again as the hermaphrodite ones. Corolla tubular, pale green below, purplish red above, with sessile globular glands on the outside. Anthers of the male flowers without pollen. Germination obovate, glabrous. Receptacle naked. Obs. 6111.

*ABSINTHIUM Seriphium gallicum*, Chonq. 431. 01

Dale. 99. *absinthium-alpinum candidum*

ARTEMISIA *glacialis*. Leaves palmate, multifid, sericeous. Stems ascending. Anthodia glomerate, fastigiate. L. a. Murr. 743; sp. 1187. Host austr. 449. Hort. kew. iii. 171. Jacq. austr. v. app. 46. t. 35.

Absinthium alpinum candidum humile. All. specim. 5. t. 1, at p. 1.

*ABSINTHIUM alpinum*. Cod. med. p. ii.—Dale, 99. Lew. i. 12.

9. ARTEMISIA *vallesiaca*. Leaves pinnate and multifid, tomentose; segments filiform. Anthodia sessile, erect, subcylindric, with few flowers. Hort. kew. iii. 170. All. W.

A. foliis tomentosis multifidis, floribus erectis longe spicatis pene sessilibus. Hall. hist. n. 128.

Absinthii genus quod in vallesia nascitur. Gesn. ap. Cord. fol. 244. p. 1, with whom some plants flowered in the autumn of the year in which they were sown.

*Absinthium album e valesia.* Gesn. ap. Cord. fol.

289. p. 2, whose plants lived scarcely more than 2 years.

*Absinthium vallesianum tenuifolium candidum*, sive *Herba alba*. Bauh. iii. a. 179. No fructifications.

*Herba alba*. Dod. 26. No fig.

*Absinthium album vallesiacum*. Park. theatr. 99. No fig.

*Absinthium album vallesianum*. Raii hist. i. 369.

*ABSINTHIUM vallesiacum*. Lew. i. 12.

10. *ARTEMISIA mutellina*. Stems herbaceous, simple.

Leaves palmato-multifid, whitish, sericeous. Anthodia axillary, oblong; lower pedunculate; uppermost sessile. L. a Willd. iii. 1821. Vill.

*Absinthium ex alis floridum, foliis angustis sericeis pinnatis, pinnis trifidis et quinquefidis*. Hall. hist. i. n. 126.

*GENIPUM album*. Krock. ii. n. 1367. Murr. i. 129.

*Absinthium alpinum*. Vog. 91.

4. Leaves divided. Stem herbaceous, erect.

11. *ARTEMISIA vulgaris*. Leaves pinnatifid, flat, incise, tomentose underneath. Racemi simple, recurvate. Female flowers 5.

L. suec. n. 731; sp. 1189. Bot. arr. 891. Woodv. ii. 331; t. 121.

Thunb. jap. 310. Krock. ii. n. 1370. Thörnt. t.

690. Smith brit. 865; engt. t. 978. Raii hist. i. 372; syn. 190. Bauh. J. iii. pars i. 184, cop. from

A. latifolia. Fuchs. 46, which imit. in

A. major. Cord. fol. 146. p. 1, which repr. from

Artemisia. *Trag.* 344. *Brunsf.* ii. 87. *Blackw.* t. 431.

A. vulgaris major. *L. lapp.* n. 297.

A. latioris folii. *Dod.* 33, repr. in

A. Mater herbarum. *Lob. ic.* i. 764, & *Ger. by Johns.* 1103, cop. in

A. vulgaris. *Park. theatr.* 90, & *abr.* in

A. minor. *Park. theatr.* 91.

A. prima vulgaris. *Dalech.* 950.

A. leptophyllos montana. *Dalech.* 950, cop. in

A. tenuifolia montana. *Park. theatr.* 91.

*ARTEMISIA.* *Pharm. austriaco-prov.* 20. *suec.*

—*Alst.* ii. 85. *Cull.* ii. 363. *Dale* 101. *Geoffr.*

iii. 119. *Hill* 342. *Home clin.* 196. *Lew.* i. 171;

*disp. by Rother.* 103. *Mill. Jos.* 51. *Monro* iii.

25. *Murr.* i. 124. *Rutty* 38. *Schrod.* 538. *Spielm.*

241. *Vog.* 52.

Armoise. *Chom.* 152; *suppl.* 51.

<sup>2</sup> *albida.* (Variation.) Stem whitish. *From*

A. officinarum vulgaris major, caule ex viridi albicans. *Vaill. paris.* 15. *Boerh.* i. 127. In Holland.

*ARTEMISIA alba.* *Tab. ic.* 8.—*Carth.* iv. 193. *Linn.* 221.

<sup>3</sup> *rubra.* (Variation.) Stem and anthodia purplish. *From*

A. vulgaris major, caule et flore purpurascens. *Tourn. paris.* 176. *Vaill. paris.* 15. *Boerh.* i. 127. In Holland.

*ARTEMISIA rubra.* *Tab. ic.* 7.—*Berg.* 671. *Carth.* iv. 193. *Linn.* 221.

12. *ARTEMISIA indica.* Leaves tomentose under-

neath; caulin leaves pinnatifid; segments oblong-lanceolate, somewhat dentate, acute; floral leaves undivided, linear. Anthodia sessile, oblong, erect. Involucra glabrous. *L. a Willd.* iii. 1846.

*A. latifolia.* *Rumph.* v. 261. t. 91. f. 2.

*A. chinensis,* cuius mollugo Moxa dicitur. *Pluk. alm.* 50; *phyt.* t. 15. f. 1.

Katu tsjetti pu. *Rheede* x. 89. t. 45.

Gai. *Kaempf.* 897.

*ARTEMISIA chinensis.* *Dale* 101.

*A. vulgaris.* *Lour.* ii. 600. *Osb.* i. 394. *Thunb. jap.* 310.

Iomongi. *Rhyne*, account from in ph. tr. abr. by *Hutt.* ii. 632.

*MOXA.* *Berg.* 672. *Cull. pract. n.* 567. *Dubois*, account from in phys. journ. ix. 389. *Larry*, account from in ann. med. iv. 114. *Lew.* ii. 116. *Oreardon* in ann. med. lustr. II. ii. 452. *Ploucq. bibl.* i. 317. *Portal*, account from in ann. med. iii, 174. *Vog.* 133.

13. *ARTEMISIA pontica.* Leaves bipinnatifid, pubescent above, tomentose underneath; segments linear, acute; floral leaves entire. Anthodia roundish, nodding. *Obs.* 6113. In a garden.—*L. sp.* 1187. *Hort. kew.* iii. 171. *Poll.* ii. n. 781. *Host austr.* 450. *Jacq. austr.* i. t. 99.

*Absinthium tenuifolium.* *Dod.* 24, repr. in

*Absinthium galatum sardoum* *Dioscoridis.* *Lob. obs.* 436; *ic. i.* 755, &

*Absinthium tenuifolium ponticum Galeni.* *Ger. by Johns.* 1096, & cop. in

*Absinthium ponticum, sive romanum vulgare.* *Park. theatr.* 98.

*Absinthium ponticum.* *Cam. epit.* 454. *Fuchs. fol.* ed. 1, which cop. in 2. c. 1, &

*Absinthium ponticum vulgare*, folio inferius albo. *Bauh. J.* iii. pars i. 175. f. 2. (f. 1 is *A. Abrotanum.*)

*Abrotonum foemina.* *Dalech.* 945.

*Abrotanum candidum.* *Cord. hist. fol.* 107. p. 2.

*Absinthium ponticum Matthioli.* *Dalech.* 943.

Stem herbaceous, erect. Flowers of the radius female; of the disc hermaphrodite. Corollae tubular. Receptacle naked. *Obs.* 6113.

**ABSINTHIUM** *ponticum.* *Pharm. austriaco-prov.* 14.—*Berg.* 668. *Carth.* ii. 337. *Herm.* 495. *Krock.* ii. n. 1368. *Lew. disp. by Dunc.* 329. *Linn.* 220. *Murr.* i. 124. *Quar. anim.* 170. 172. 191. *Schrod.* 523. *Spielm.* 195.

*Absinthium romanum.* *Alst.* ii. 68. *Cull.* ii. 81.

*Dale* 99. *Mead mon.* ii. 13. *Vog.* 46.

*Absinthium tenuifolium*, seu minus, seu *ponticum.* *Geoffr.* iii. 18.

*Absinthium minus.* *Lew.* i. 12.

*Absinthium tenuifolium romanum.* *Mill. Jos.* 6.

*Absinthium ponticum tenuifolium incanum.* *Chom.* 430.

14. **ARTEMISIA austriaca.** Leaves bipinnatifid, silky; segments setaceo-linear. Anthodia roundish. Involucra villose. *Obs.* 7990. Specimen from Prof. Jos. F. Jacquin.—*Jacq. austr.* i. 61. t. 100; ap. *L. a Murr.* 744.

*Absinthium tenuifolium austriacum.* *Raii eur.* 48; On the side of the road, not far from Vienna on the way to Neustadt.—*Park. theatr.* 99, cop. from Ger. by Johns. 1098, which repr. from

*Absinthium Scriplium.* *Dod.* 25, (the descr. belonging to *A. maritima*,) which repr. in *ed. ii.* 25, & *Absinthium ponticum tridentinum herbariorum.* *Lob. ic.* i. 752, cop. in *Dalech.* 913, repr. in *Absinthium montanum umbelliferum.* *Clus. pann.* 556, (the name belonging to another species) but described under its proper name of *ABSINTHIUM austriacum tenuifolium.* *Clus. pann.* 555, repr. in *hist. i.* 339, & cop. in *Bauh. J. iii. a.* 179. *Raii hist.* 368.

15. *ARTEMISIA annua.* Leaves tripinnatifid, those of the branches bipinnatifid and pinnatifid; segments lanceolate. Stem erect, paniculate. Anthodia pedunculate nodding. *L. a Willd.* iii. 1842; sp. 1187. *Hort. kew.* iii. 172. *Mill. Ph. dict.* n. 14.

*A. radice annua, viridis, foliis pinnatis, pinnis pinna-tifidis, calycibus subrotundis fere erectis ex alis copiosissimis.* *Gmel. sib.* ii. 125.

*Absinthium tanaceti folio, odoratissimum.* *Amm.* 142. *t.* 193. *f.* 23.

*A. foliis triplicato-pinnatis utrinque glabris, floribus subrotundis nutantibus, receptaculo glabro conico.* *L. ups.* 257.

*ARTEMISIA annua.* *Lour.* ii. 599.

16. *ARTEMISIA Absinthium.* Leaves tripinnatifid and bipinnatifid, hoary above, sericeous underneath; segments lanceolato-linear. Primary branches of the panicle longer than the leaf at their base. Anthodia paniculate, nodding, orbicular. Receptacle pilose. *Obs.* 8814. In a garden.—*L. a Willd.* iii. 1844; *suet.* n. 735; sp. 1188. *Lightf.* 467.

*Bot. arr.* 890. *Gou. hort.* 433, near Montpelier; *mousp.* 335. *Smith brit.* 864; *engl. t.* 1230. *Scop. caru. n.* 1035. *Woodv. ii.* 328. *t. 120.* *Thornt. t.* 688. *Goult. ii.* 461. *n. 119.* On the coast of Poitou.

*Absinthium ponticum*, seu *romannm officinarum*, seu *Dioscoridis.* *Boerh. i.* 126. In Holland.

*Absinthium vulgare.* *Raii syn.* 188. *Dalech.* 943. *Park. theatr.* 98, *cop. from Lob. obs.* 433, which *repr. in ic. i.* 752,

*Absinthium latifolium.* *Dod.* 23, &

*Absinthium latifolium*, sive *ponticum.* *Ger. by Johns.* 1096.

*Absinthium vulgare.* *Fuchs. fol. ed.* 1, *cop. in 2. c. 1,* &

*Absinthium vulgare majus.* *Bauh. J. iii. pars i.* 168, *and abr. in*

*Absinthium.* *Trag.* 335, which *cop. in Cord. fol. 145. p. 2. Blackw. t. 17. Cam. epit.* 452.

Native of France, Britain, Holland, Germany, and Sweden, but not noticed in the floras of Paris and Orleans. Mostly found in waste places in villages, but I have observed it growing plentifully in fields on hills of gravel at a distance from houses, at Tumlditch in Derbyshire, and near Kidderminster in Worcestershire.

**ABSINTHIUM.** *Pharm. lond. noviss.*—*Bang in act. haun.* i. 12. *Fordyce, G. pract.* 207. *Heb. 51.* *Herm.* 492. *Ploucq. bibl.* i. 480. 524. 653. *Quar. anim.* 27; *febr.* 82. *Ranoe in act. haun.* i. 388. *Stoll med.* ii. 320; iii. 83.

**A.** *Absinthium.* Leaves. Flowering tops. *Pharm. edin.*—*Lew. disp. by Dunc.* 162. *Murr. J. i.* 190. *Pears. R. ed.* ii. 329. 368.

- Absinthium vulgare*. Common Wormwood. Herb.  
*Pharm. lond.*—*Alst.* ii. 67. *Berg.* 669. *Carth.* ii.  
 337. *Cull.* ii. 80. *Dale* 99. *Fordyce, G. fev.* ii.  
 83. *Hill* 350. *Krock.* ii. n. 1369. *Lew.* i. 8. *Linn.*  
 220. *Monro* iii. 4. *Murr.* i. 117. *Neum.* ii. 196.  
*Pringle* 216. *Rutty* 2. *Spielm.* 195.  
*Absinthium latifolium*. *Geoffr.* iii. 8.  
*Absinthium latifolium vulgare*. *Mill. Jos.* 5.  
*Absinthium vulgare majus*. *Chom.* 430. 196; *suppl.*  
 133. *Schrod.* 522.  
 Wormwood. *Fordyce, G. fev.* ii. 125. *Homa,*  
*Everard, account from in ann. med.* iii. 55. *Joffri-*  
*on, account from ib.* iv. 113. *Monro, Don. sold.*  
 ii. 186.  
 Sal *Absinthii*. *Mead mon.* i. 47. *Quar. febr.* 183.  
 Salt of Wormwood. *Chalm.* i. 180. *Dumonceau,*  
*account from in med. comment.* vi. 416. *Lind hot*  
*clim.* 104. *Monro, Don. sold.* ii. 126. *Und.* i.  
 306.  
 $\beta$  *humilior*. Stem shorter than that of  $\alpha$ . From  
*Absinthium vulgare montanum*. *Bauh. J.* iii. *pars*  
 i. 173.  
*Absinthium ponticum montanum*. *Raii hist.* i. 367.  
*ABSINTHIUM humilius montanum*. *Schrod.* 522.

## 790. GNAPHALIUM.

*Receptacle naked. Pappus pilose. Involucra im-*  
*bicate, radiate. Obs. 4259. L.*

1. GNAPHALIUM *Stoechas*. Fruticose. Leaves li-  
 near. Corymbus compound. Branches virgate.

POLYGAM. SUPERFL. 790. Gnaphalium. 199

*L.* sp. 1193. *Hort. kew.* iii. 174. *Krock.* ii. n. 1372.

*Elichrysum*, seu *Stoechas citrina angustifolia*. *Boerk.* i. 120.

*Stoechas citrina*. *Blackw. t.* 438. *Malth.* 1046. *Dalech.* 779. *Dod.* 267, *repr. in*

*Chrysocome I vulgaris*. *Clus. hist.* i. 326,

*Coma aurea*. *Lob. ic.* i. 485, &

*Stoechas citrina*, sive *Amaranthus luteus*. *Ger. by Johns.* 646, *cop. in*

*Stoechas citrina*, sive *Coma aurea*. *Park. theatr.* 68, &

*Helichrysum*, sive *Chrysocome angustifolia vulgaris*.

*Hist. ox. s.* 7. *t.* 11. *f.* 7, & *repr. in*

*Chrysocome*. *Lob. obs.* 256. *Park. par.* *t.* 373. *f.* 6.

*Stoechas citrina tenuifolia narbonensis*. *Bauh. J.* iii. 154. *Raii hist.* 281; *eur.* 241. In the south of France.

*Chrysocome media*, seu *Stoechas citrina vulgaris*. *Barrel. ic. t.* 409.

*Pappus pilose*; hairs microscopically scabrous, just sensibly thicker towards the end; aculei erecto-patulous. *Obs.* 8210. Specimen gathered in Fothergill's garden.

*STOECHAS citrina*. *Dale* 90. *Mill. Jos.* 426. *Schrod.* 688.

*Elichrysum*. *Lew. i.* 411. *Neum. ii.* 141.

2. GNAPHALIUM *arenarium*. Stem herbaceous, simple. Leaves lanceolate, lower spatulate. Corymbus compound. From *L. suec.* n. 738; sp. 1195. *Poll.* ii. n. 783. *Fl. dan.* *t.* 641. *Thunb. jap.* 312.

*Stoechas citrina germanica*, latiore folio. *Bauh. J.* iii. pars i. 153. *Raii hist.* i. 281; *eur.* 241. Near the Rhine above Cologne.

*Pappus pilose*, yellow; hairs scabrous; aculei obsolete, distant. *Obs.* 8209. Specimen gathered in Germany.

**STOECHAS** citrina. *Berg.* 676. *Krock.* ii. n. 1373. *Linn.* 221. *Murr.* i. 112. *Veg.* 155.

*Stoechas citrina germanica*. *Dale* 90.

**3. GNAPHALIUM Leontopodium.** Stem herbaceous, simple. Head terminal. Bractae tomentose. *Obs.* 3063. Specimen from Prof. Jos. F. Jacquin.—  
*Scop. carn.* n. 1045. *Jacq. austr.* i. t. 86.

*Antennaria Leontopodium*. *Gaertn.* ii. 410.

*Antennaria dioica*. *Gaertn.* ii. t. 167. *D.* A seed.  
Pappus represented inaccurately.

*Filago Leontopodium*. *L.* sp. 1312; *mant.* 481.  
*Hort. kew.* iii. 280. *Host austr.* 479.

**G. alpinum pulchrum**. *Bauh. J.* iii. pars i. 161.  
*Raii hist.* i. 297; *eur.* 134. On the summit of Mount Jura called la Dolaz.

*Leontopodium verum*. *Matth.* 1193, *cop. in*

*Leontopodium Matthioli*. *Dalech.* 1343, *Tab. ic.* 393, & *Dod. ed.* ii. 68. which repr. in

**G. alpinum**. *Ger. by Johns*, 641. *Clus. pann.* 495,  
repr. in *hist.* i. 328.

*Leontopodium parvum*. *Lob. obs.* 256, repr. in *ic.* i. 484, *Ger. by Johns*, 643, *cop. in Dalech.* 1343,  
& *Tab. ic.* 394, repr. in

*Pilosella minor altera*. *Dod.* 68, & *cop. in*

*Leontopodium minus*. *Park. theatr.* 684, &

*Gnaphalio alpino affine*. *Bauh. J.* iii. pars i. 161.

*Leontopodium*, sive *Pes leoninus*. *Lob. obs.* 255,

*repr. in ic. i. 484, & Ger. by Johns. 642, & cop.  
in*

*Leontopodium majus.* *Park, theatr.* 684,

*Leontopodium, species gnaphalii.* *Tub. ic.* 393, &

*Gnaphalii alpini pulchri aliud genus.* *Bauh. J.* iii.  
*pars i.* 161.

*Pappus pilose; hairs microscopically scabrous, of  
equal thickness throughout; aculei patulous.* *Obs.*  
3063.

### LEONTOPODIUM. Dale 91.

4. *GNAPHALIUM dioicum.* Stem herbaceous, sim-  
ple. Shoots procumbent. Corymbus simple. Some plants bearing female others hermaphrodite flowers. *Obs. 3073.* Specimen gathered in a gar-  
den.—*L. suec. n.* 736; *sp.* 1199. *Lightf.* 470. *t.*  
20. *Bot. arr.* 894. *Smith engl. t.* 267; *brit.* 869.  
*Antennaria dioica.* *Guertn.* ii. 410. *t.* 167. *A to C.*  
*G. caule simplicissimo floribus coloratis terminato.*  
*L. lapp. n.* 302.

*G. montanum.* *Park. par. t.* 373. *f.* 9. *Dalech.*  
1116, has lanceolate leaves.

*G. montanum album.* *Raii hist.* 283; *syn.* 181.

*Pes cati.* *Llwyd in ph. tr. abr. by Hutt.* vi. 22.  
In the isle of Mul.

*GNAPHALIUM Pes cati.* *Geoffr.* iii. 524.

*Pes cati.* *Dale* 90.

*Gnaphalium.* *Berg.* 676. *Krock.* ii. *n.* 1376. *Linn.*  
222. *Murr.* i. 112.

*Auricula muris.* *Spielm.* 376.

*Hispidula.* *Schrod.* 602.

*✉ rubens.* (Variation.) Involucra tinged with pink.  
*Obs. 8213.* Specimens gathered on Arthur's seat  
near Edinburgh.

*Elichrysum montanum*, flore rotundiori variegato.  
Boerh. i. 120.

*Lagopus*. Trag. 332, cop. with 2 additional stems  
from

*Pilosella minor*. Fuchs. 579, c. 231, which cop. in  
*Bauh. J.* iii. pars i. 162. Dod. 68, two outer  
figures, repr. in

*G. montanum* purpureum & album. Ger. by Johns.  
640, &

*G. montanum* purpureum. Lob. ic. i. 483. Male  
plants.—Tab. ic. 392.

*Pilosella minor*. Dod. 68, two inner figures, cop. in

*G. montanum*, sive *Pes cati*. Park. theatr. 690, &  
repr. in

*G. montanum* suave rubens. Lob. ic. i. 483, & Ger.  
by Johns. 641. Tab. ic. 392.

*Pilosella major*. Bauh. J. iii. pars i. 162. A fe-  
male plant.

4. *album*. (Variation.) Involucra white. Obs. 8817.  
Specimen gathered on Barr-beacon near Birming-  
ham. 10 July.

*Elichrysum montanum*, flore rotundiori candido.  
Boerh. i. 120.

*G. montanum*, flore albo. Lob. adv. 203, repr. in

*G. montanum* album. Lob. ic. i. 482. Tab. ic. 391.  
Stem erect, 6 inches long. Pappus pilose; hairs  
of equal thickness throughout, microscopically and  
obsoletely scabrous; aculei patulous. Obs. 8817.

5. *GNAPHALIUM margaritaceum*. Stem herbaceous.  
Leaves linear-lanceolate, acuminate, alter-  
nate. Stem corymbose at the end. Corymbi fasti-  
giate. Obs. 1394. In a garden.—L. sp. 1198.  
Smith Brit. 868.

*G. americanum.* *Bot. arr.* 894. *Bauh. J. ili, pars i.* 162. *Clus. hist.* i. 327, *repr. in Ger. by Johns.* 641. *Raii hist.* 284; *syn.* 182. Found by Dale near Bocking in Essex.

*G. majus americanum.* *Llwyd in ph. tr. abr. by Jones v.* 122; & *by Hutt. vi.* 20. On the banks of Rymmy river in Glamorganshire.

*G. americanum angustifolium.* *Munt. phyt.* 34. t. 170.

*Argyroceme, sive G. americanum.* *Park. par.* 374. t. 373. f. 8.

*Rudbeckia.* *Cutl.* 483.

*Pappus pilose, fawncoloured; hairs equally thick throughout, microscopically and obsoletely scabrous; aculei patulous.* *Obs. 8215.* Specimen gathered by Dr. Cutler in New England.

*Native of North America, and possibly naturalised in Essex and Wales.*

*GNAPHALIUM margaritaceum.* *Scheepf* 122.

6. *GNAPHALIUM dichotomum.* Stem erect, dichotomous above. Heads globose, lateral and terminal. *Obs. 1120.* On sandy soil.—*Sal. R. hort.* 193.

*Filago germanica.* *L. sp.* 1311. *Krock. ii. n.* 1472. *Fl. dan. t.* 997. *Asso n.* 876.

*Filago pyramidata.* *L. suec.* n. 302.

*G. germanicum.* *L. sp. ed. i.* 857. *Scop. carn.* n. 1050. *Huds.* 362. *Bot. arr.* 898. *Smith brit.* 874; *engl. t.* 946. *Bauh. J. iii. pars i.* 158, *cop. from G. sive Centunculum.* *Fuchs.* 221. c. 81, which *abr. in*

*Rhrnkraut.* *Trag.* 331, inner fig, & *cop. in*

**G. vulgare.** *Dalech.* 1115. *Tab. ic.* 389. *Cam.*  
*epit.* 606, *cop. in*

**G. minus,** seu *Herba impia.* *Park. theatr.* 685. *Raii*  
*syn.* 180.

*Filago*, sive *Impia.* *Tourn. paris.* 80. *Boerh.* i. 119.  
In Holland.—*Dod.* 66, *repr. in*

**G. vulgare.** *Lob. obs.* 255; *ic. i.* 480, &  
*Filago*, sive *Herba impia.* *Ger. by Johns.* 642,  
*G. vulgare majus.* *Raii hist.* 295.

*Pappus* pilose; hairs of equal thickness throughout, microscopically and obsoletely scabrous; aculei scarcely projecting. *Obs.* 1120.

Native of Europe, from Spain to Lapland.

**GNAPIHALIUM.** *Dale* 91. *Mill. Jos.* 216. *Vog.*  
130.

**G. vulgare.** *Geoffr.* iii. 526.

## 791. BACCHARIS.

*Receptacle* naked. *Pappus* pilose. *Involucra* imbricate, cylindric. *Female flowers* intermixed with the hermaphrodite. *L.*

**1. BACCHARIS balsamifera.**—Leaves lanceolate, denticulato-serrate, tomentose, appendiculate at the base. Panicles loose, terminal. *Lour.*

**B. Salvia.** *Lour.* ii. 603.

*Conyza balsamifera.* *L.* sp. 1208.

*CONYZA odorata.* *Clus. exot.* 92. No fig.—  
*Rumph.* vi. 55. t. 24. f. 1.

**2. BACCHARIS Dioscoridis.** Leaves oblong, sessile, dentate; teeth at the base longer, resembling stipu-

Iae. *L.* a Willd. iii. 1916; *sp.* 1204; *mant.* 468; *a Murr.* 751; *fil. suppl.* 366.

*Conyza syriæ.* *Dalech. app.* 20, *cop. in*  
*Conyza syriæ quibusdam.* *Bauh. J.* ii. 1054.  
*BACCHARIS* *Dioscoridis.* *Lour.* ii. 603.

3. **BACCHARIS brasiliiana.** Leaves obovate, entire,  
 - seabrous, sessile, veined underneath. *L. sp.* 1205.  
**TREMATE.** *Marcgr.* 81.  
 Tremate brasiliensibus. *Raii hist.* 1783.

## 792. CONYZA.

*Receptacle* naked. *Pappus* pilose. *Involucra* imbricate. *Corollæ* of the female flowers semitrifid and semi quadrifid at the end. *Obs. 308.* *L.*

1. **CONYZA squarrosa.** Leaves entire at the margin, oblongo-lanceolate. Stem corymbose. *Involucra* squarrose. *Obs. 308.* Matlock bath in Derbyshire.—*L. sp.* 1205; *a Murr.* 752. *Bot. arr.* 900. *Fl. dan.* t. 622. *Smith brit.* 875; *engl.* t. 1195. *Gou. hort.* 436. Near Montpelier, where it grows as high as a man.—*Huds.* 363. On calcareous soils.—*Poll.* ii. n. 788. *Lightf.* 473.
- C. major vulgaris.* *Raii hist.* 292. *Tourn. paris.* 73. *Vaill. paris.* 40. *Boerh.* i. 116. In Holland. *Conyza.* *Cam. epit.* 612.
- C. major Matthioli,* *Baccharis quibusdam.* *Bauh.* *J.* ii. 1051.
- C. major altera.* *Dod.* 51, *repr. in* *Baccharis monspeliensis.* *Lob. obs.* 508; *ic.* i. 574, & *Ger.* by *Johns.* 792, & *cop. in Park.*

*theatr.* 114. *Dalech.* 917. *Raii syn.* 179. *Blackw.* t. 102.

C. major. *Math.* 870.

C. Helenitis. *Cord. sol.* 160. p. 2.

Stem erect, 2 feet long. Leaves so similar to those of *Digitalis purpurea* that the leaves of the latter ought never to be gathered for medical uses before the flowers have begun to make their appearance. *Corymbus* leafy, compound. *Anthodia* oblong, truncate. Flowers of the radius female. *Corollae* tubular, yellow; those of the disc rather broader and longer, quinquefid at the end. *Obs.* 308.

Native of Italy, France, Switzerland, Germany, Holland, and Britain, on calcareous soils.

*BACCHARIS.* *Dale* 91.

B. monspeliensium. *Mill. Jos.* 70.

2. **CONYZA cinerea.** Leaves oblong lanceolate and elliptic, repando-serrate. *Anthodia* paniculate. *Corollae* twice as long as the involucrum, forming a cylindric body. *From L. a Murr.* 753, and sp. 1208.

Nari-patsja. *Rheede* x. 123. t. 62.

**OLUS SCROFINUM.** *Rumph.* vi. 34, t. 14. f. 1. Leaves opposite and in fours, serrate.

3. **CONYZA prolifera.** Branches proliferous at the end. Leaves ovate, dentato-angular, narrowing into petioles. *Corymbi* crowded, terminal. *L. a Willd.* iii. 1926.

**SONCHUS volubilis javanus.** *Rumph.* v. 299. t. 104 f. 1.

4. **CONYZA chinensis.** Leaves lanceolato-ovate, re-

flexo-serrate, tomentose underneath. Anthodia terminal, clustered. *L.* sp. 1208. *Lour.* ii. 606.

*SENECIO amboinicus.* *Rumph.* vi. 36. t. 14. f. 2.

5. *CONYZA sericea.* Leaves lineari-filiform, tomentoso-sericeous. Stems tomentoso-sericeous. Anthodia paniculate. *Hort. kew.* iii. 183.

*CHRYSOCOMA sericea.* *L. fil. suppl.* 360.

### 793. ERIGERON.

*Receptacle* naked. *Pappus* pilose. *Ligulate corolla* linear, very narrow. *L.*

1. *ERIGERON bellidifolium.* Stem with mostly 2 anthodia. Radical leaves obovate, serrate; caudine leaves entire at the margin. Ligulate corollae longer than the tubular ones. *From L. a Willd.* iii. 1958?

*ERIGERON.* *Schoepf* 122.

2. *ERIGERON philadelphicum.* Stem with many anthodia. Leaves lanceolate, somewhat serrate; caudine leaves semiamplexicaul. Ligulate corollae capillaceous, as long as the disc. *L. a Murr.* 754; sp. 1211, (the descr. belonging to *E. aegyptiacum.*) *Gou. hort.* 437. *Hort. kew.* iii. 186.—*Coxe* 371, *Lour.* ii. 611.

3. *ERIGERON acre.* Stem paniculate. Involucra hirsute, Pappus more than twice as long as the seed. *Obs.* 309. On the castle hill in Worcester,

on gravel.—*L. suec.* n. 741; *sp.* 1211. *Curt. lond.* i. 60. *t.* *Huds.* 363. *Lightf.* 474. *Bot. arr.* 903. *Smith brit.* 877; *engl. t.* 1158. *Krock.* ii. n. 1382. *Asso* n. 821.

*Erigerum vulgare.* *L. lapp.* n. 308.

*Aster arvensis caeruleus acris.* *Tourn.* 57. *Vaill.* *paris.* 17. *Dill. ap.* *Raii syn.* 175.

*Amellus montanus aequicolorum.* *Col. ecphr.* ii. 25. *t.* 26.

*Conyza caerulea acris.* *Raii hist.* i. 270; *syn. ed.* ii. 80. *Boerh.* i. 116. *Ger. by Johns.* 484, *repr.* *from*

*Erigerum quartum.* *Dod.* 630, *which cop. in*

*Conyza odorata caerulea.* *Park. theatr.* 126.

*Senecio sive E.* *caeruleus,* *aliis Conyza caerulea.* *Bauh. J.* ii. 1043.

*Bracteae subulate.* *Involucra* loosely imbricate; *bracteae subulate,* of about 6 different lengths; lowermost just sensibly more than 1 tenth of an inch long, hirsute on the outer side; inner gradually increasing in length and less hirsute; innermost 2 tenths of an inch long. *Obs.* 309.

*CONYZA caerulea.* *Murr.* i. 173.

*Conyza.* *Dale* 87.

*Aster*  $\alpha$  *Vog.* 93.

4. ERIGERON *graveolens.* Leaves lanceolate; margin entire. Lateral branches with many anthodia. *From L. sp.* 1210; *mant.* 468; *a Murr.* 754, & *Gou. hort.* 437. Near Montpelier.

*Virga aurea minor, foliis glutinosis et graveolentibus.*

*Tourn. paris.* 542. *Vaill. paris.* 204.

*Virga aurea annua, foliis glutinosis et graveolentibus.*

*Magn. hort.* 206.

*Conyza minor vera Lobelii lutea.* *Barrel.* t. 370.  
*Conyza minor vera Penae.* *Dalech.* 1046, & *Park.*  
*theatr.* 127, *cop. from*  
*CONYZA minor vera.* *Lob.* *adv.* 146, *which repr.*  
*in ic.* i. 346, & *Ger.* by *Johns.* 481. *Bauh. J.* ii.  
 1054. (*The fig. Conyza palustris* β) *Magn.*  
*monsp.* 75. *Raii hist.* i. 261; *eur.* 105. *About*  
*Montpelier, and on the coasts of Italy.—Dale 87.*

## 794. UNXIA.

*Receptacle naked.* *Pappus* *nose.* *Involucra* *with*  
 5 *bracteae.* *From L. fil.*

1. *UNXIA camphorata.* Leaves lanceolate. Flowers  
 of the radius 5, of the disc 5. *L. a Willd.* iii.  
 2339; *fil. suppl.* 368.

## 795. SENEPIO.

*Receptacle naked.* *Pappus pilose.* *Involucra* *with*  
 bracteae at the base; bracteae sphaelate at the end.  
*Anthodia* *discoid* and *radiate.* *Obs.* 4183. *L.*

1. *Anthodia discoid.* *From L.*

*S. sylvaticus.*

1. *SENECIO Pseudo-China.* Leaves lyrato-pinnatisid,  
 dentate. Scapus nearly leafless, very long. *L. a*  
*Willd.* iii. 1978; *sp.* 1216. *Hort. kew.* iii. 191.  
*(Andr. rep. v, t. 291, is S. speciosus.)*

- S. scapo subnudo longissimo. *Roy.* 164.  
 S. maderaspatanus, rapi folio, floribus maximis, cuius radix a nonnullis China dicitur. *Dill. hort.* 345. t. 258. f. 335.  
 S. asiaticus, jacobaeae folio, radice lignosa China officinarum dicta nobis. *Boerh.* i. 117.  
**PSEUDO-CHINA.** *Dale* 418.  
 China radix. *Cod. med.* p. xxxv.

- 2. SENECIO semperflorens.** Leaves sinuato-pinnatifid, amplexicaul. Anthodia sparse. *Obs.* 4184. In a kitchen-garden growing as a weed.
- S. vulgaris. *L. suec.* n. 747; sp. 1216. *Curt. lond.* i. 61. t. *Fl. dan.* t. 513. *Walc. t. Bot. arr.* 908. *Smith brit.* 881; *engl.* t. 747. *Gou. hort.* 439. Near Montpelier.—*Raii hist.* i. 290; *syn.* 178. *Park. theatr.* 671, cop. from  
 S. sive Erigeron. *Lob. obs.* 112, which repr. in *ic.* i. 225, &  
 Erigerum. *Ger. by Johns.* 278.  
 S. foliis pinnato-sinuatis amplexicaulibus, floribus nudis sparsis. *Gron. virg.* 125.  
 Senecio. *L. lapp.* n. 296. *Matth.* 1132. *Fuchs.* 86. fol. ed. cop. in 285. c. 110.  
 Senecio minor vulgaris. *Tourn. paris.* 391. *Kaili paris.* 183.  
 Erigerum minus. *Dod.* 630.  
 Verbena foemina. *Brunsf.* i. 120.  
 S. Erigerum. *Tab. ic.* 168.  
 Erigeron Senecio. *Blackw. t.* 132.  
 S. vulgaris, sive Erigeron. *Bauh. J.* n. 1041. No fig.  
 Seeds oblong, terete, striate, scabrous; strigæ adpressed, disposed in lines along the ridges. Pap-

*pus* pilose, sessile; hairs microscopically scabrous.  
*Obs.* 4184.

Native of Europe from the south to Lapland, and of North America.

**SENECIO.** *Geoffr. suite* iii. 25. *Murr.* i. 172.

*Ploucq. bibl.* i. 486. *Vog.* 119.

*Erigerum.* *Dale* 90. *Lew.* i. 415.

*Erigeron.* *Mill. Jos.* 187. *Rutty* 181.

*S. vulgaris.* *Krock. ii. n.* 1390. *Schoepf.* 123.

*S. minor vulgaris.* *Schrod* 681.

*Groundsel.* *Lind hot clim.* 313.

*Senecion.* *Chom.* 713. 74.

2. *Anthodia radiate.* *Ligulate corollae revolute.* L.

3. **SENECIO sylvaticus.** Leaves pinnatifid. Bracteae at the base of the involucra adpressed. Seeds pubescent. *Obs.* 987. On sandy banks.—*L. sp.* 1217. *Bot. arr.* 909. *Smith brit.* 882; *engl. t.* 748. *Fl. dan. t.* 869.

*S. minor;* latiore folio, sive montanus. *Bauh. Casp.* pin. 131. *Dill hort.* 347. *t.* 258. *f.* 337; *ap. Raii syn.* 178.

*Jacobaea senencionis folio.* *Tourn. paris.* 474. *Vaill. paris.* 108.

*Jacobaea senencionis folio incano, perennis.* *Raii hist.* i. 285. *Rupp. ab Hall.* 177. *t.* 3.

*Senecium montanum.* *Tab. ic.* 169.

*Erigerum majus.* *Dod.* 630, repr. in *ed.* ii. 641,

*Erigeron tomentosum alterum.* *Lob. ic.* i. 226, &

*Erigerum tomentosum.* *Ger. by Johns.* 278.

(*S. montanus* mollior, pallido parvo flore. *Barrel.* *t.* 401, is described at p. 97 as glabrous.)

*Stem corymbose. Leaves subvillose; hairs short, attenuate, not glandular. Bracteae subulate, those at the base of the involucra thrice as short as the involucrum. Seeds oblong, terete, striate; strigae adpressed, disposed in lines along the ridges. Pappus pilose, sessile; hairs microscopically scabrous.*

*Obs. 987.*

*SENECIO minor montana. Schrod. 681.*

3. *Anthodia radiata. Ligulate corollae patent.*  
*Leaves undivided. L.*

4. *SENECIO repens.* Leaves elliptico-lanceolate, serrate, nearly glabrous. Seeds glabrous. *Obs. 6745.*  
On the banks of a brook between Whittington moor and Unston in Derbyshire. 23 Aug.

*S. sarracenicus. L. sp. 1221. Bot arr. 913. Jacq. austr. ii. t. 186. Smith brit. 887. Huds. 367.*  
About Shipton Mallet, and elsewhere in Somersetshire, and about Clapham and Ingleton in Yorkshire.—*Host austr. 461. Poll. n. 800. Roth germ. ii. pars ii. 344. Krock. ii n. 1400. Gou. hort. 441.* Near Montpelier.

*Jacobaea alpina, foliis longioribus serratis. Rupp.*  
*ab Hall. 176. 177. note a.*

*Doria, quae Jacobaea alpina, foliis longioribus serratis. Boerh. i. 98.*

*Virga aurea angustifolia serrata, sive Solidago sarracenica. Bauh. J. ii. 1063, &*

*Solidago sarracenica. Dalech. 1270, cop. from Fuchs. 690. c. 279, which cop. in Trag. 487. Raii hist. i. 279; eur. 238. Near Strasburgh, and elsewhere in Germany, and on the highest summits of Mount Jura.—*Dod. 141, repr. in Ger. by Johns. 429;* found by Bowles and Coot in a hedge between*

Dudson in the parish of Cherbury and Guarthlow in Shropshire; *Lob. obs.* 159, & *ic.* i. 299, & *cop.* in

*Solidago sarracenica* Lobellii. *Dalech.* 1270, &  
*Solidago saracenica*, sive *germanica siliquosa*. *Park.*  
*theatr.* 539, with the addition of *siliquae*!

*Virga aurea maxima*, radice repente. *Bobert ap.*  
*Raii syn.* *ed.* i. 237, who found it on the side of a small river between Wells and Glastenbury; inserted with synonyms in *ed.* ii. 81, & in iii. 177, with different synonyms by Dillenius, who adds that it was found by Newton near Halifax.

*Consolida aurea*. *Tab. ic.* 556.

*Virga aurea latifolia serrata*. *Tourn. hort.* 201.  
(*Nicolson in Camd. by Gibs.* §47, growing as plentifully as the [*Virga aurea*] *vulgaris* in the fields at Salkeld in Cumberland, will prove I doubt not *Solidago Virgaurea*  $\alpha$ )

Bobarts Goldenrod. *Pet. herb. t.* 16. *f.* 7, is S. Doria.)

Stem erect, to 5 feet 3 inches long, leafy, rather brittle, glabrous, microscopically and sparingly pubescent above, angular; corymbose above; angles acute. Flowering branches erect, striate, pubescent; the terminating ones umbellate. Leaves elliptico-lanceolate and the uppermost lanceolate, cuneiform towards the base, sessile, unequally serrate to near the end, sparse, near together, apparently glabrous, but at the margin and along the costa and veins underneath microscopically pubescent; margin towards the base entire; serratures rounded; teeth yellowish and glandular at the end. Floral leaves lanceolate, uppermost subu-

late. *Anthodia* corymbose, numerous, not shewy, there being only a few anthodia fully in flower at a time. *Corymbi* terminal. *Peduncles* striate, pubescent. *Bracteae* subulate, scattered, on the peduncles and at the base of the involucra, those inserted at the base of the involucra 5, adpressed; blackish brown at the end, from about half to three fourths as long as the involucra. *Involucra* turbinate, pubescent; *bracteae* 13 to 16, lineari-lanceolate, erect, membranaceous at the margin, blackish brown at the end and the extreme points whitish brown, in 2 rows, those of the outer row somewhat narrower and somewhat incumbent on the inner row. *Corollae* yellow, nearly as long again as the involucrum, those of the radius 7 and 8, 4 of which slightly revolute, the lamina ligulate, lanceolato-oblong, obsoletely tridentate; the rest patent and erect, the limb tubuloso-ligulate, the lower part till even with the end of the style being tubular and dilated, the lamina generally with 1 or 2 laciniae at the margin. *Filaments* white, inserted into the corolla, filiform below, flat above. *Antherae* linear, yellow. *Germen* cylindric, glabrous. *Pappus* capillary, microscopically aculeate. *Obs.* 6745.—Out of flower 28 Sep.

*Native* of Somersetshire, Shropshire, Derbyshire, Yorkshire, and Westmorland, on the side of running waters in elevated situations.

*SOLIDAGO saracenica.* *Herm.* 555.

*Virga aurea angustifolia serrata.* *Rutty* 545.

*Consolida saracenica.* *Dale* 89. *Vog.* 99.

*Virga aurea*, alias *Consolida sarracenia*. *Schrod.* 703.

4. *Anthodia radiate. Ligulate corollae patent. Leaves pinnatifid.* L.
5. SENEPIO *rotundifolius.* Leaves crenate; lowermost cordato-orbicular; upper lyrate. Obs. 8306. Specimen gathered in the Leyden garden.  
*S. foliis crenatis infimis cordatis petiolatis superioribus pinnatifidis, laciniis exterioribus majoribus.* Gron. virg. 126; ed. i. 98.  
*SENECIO aureus.* L. sp. 1220. Hort. iii. 194.— Schoepf 123.
6. SENEPIO *Jacobaea.* Leaves pinnato-pinnatifid. Seeds of the radius glabrous, those of the disc hirsute. Obs. 984. In a pasture.—*L. suec.* n. 751; sp. 1219. Bot. arr. 911. Smith brit. 885; engl. t. 1130. Mart. rust. t. 85. Krock. ii. n. 1396. Fl. dan. t. 944.  
*S. pinnato-lyratis, laciniis lacinulatis.* Gron. virg. 125.  
*Jacobaea vulgaris laciniata.* Tourn. paris. 203. Vaill. paris. 108. Boerh. i. 99. In Holland.  
*Herba Sancti Jacobi.* Fuchs. 701, c. 283. cop. in Jacobaea vulgaris. Bauh. J. ii. 1057. f. 1. Raij hist. i. 284; syn. 177. Park. theatr. 668, cop. from  
*Jacobaea.* Dod. 631, which repr. in Ger. by Johns. 280.  
*Flos Sancti Jacobi.* Trag. 287.  
*Sanct Jacobs blum.* Brunsf. ii. ed. i. 56; ed. ii. 60.  
*S. major, sive Flos Sancti Jacobi.* Matth. 1133.  
*Seeds oblong, striate, pubescent; hairs erecto-adpressed. Pappus pilose, sessile; hairs microscopically scabrous.* Obs. 984.

Native of Europe from the south to Sweden, and of North America.

*JACOBAEA.* Dale 89. *Geogr.* iii. 617. *Lew.* ii.

1. *Mill. Jos.* 240. *Rutty* 246.

*Jacobaea vulgaris laciniata.* *Chem.* 662; *suppl.* 185.

7. *SENECIO ferulifolius.* Leaves pinnate, laciniate; segments linear. *Corymbus* compound; branches with several anthodia. *Obs.* 8308. Specimen from Broussonett probably gathered at Montpelier.

*S. abrotanifolius.* *Gou. hort.* 440; *monsp.* 361.

*S. foliis decompositis.* *Guett.* ii. 360. *Dalib.* 258.

*Jacobaea foliis ferulaceis, flore minore.* *Tourn. inst.* 486; *paris.* 474. *Vaill. paris.* 108.

*Jacobaea foliis ferulaceis.* *Magn. hort.* 104.

*Ageratum ferulaceum.* *Munt. ic.* 19. *t.* 87. *Dalech.* 1184, *ill cop. in Bauh. J.* iii. *pars i.* 152.

On Mount Esperon near Montpelier.—*Raii hist.* i. 286. Gathered when at Montpelier by Zuecker in the neighbouring mountains, but the specimen mislaid.

*Achillea montana artemisiae tenuifoliae facie.* *Lob.* *adv.* 332, *repr. in ic.* i. 746, & *cop. in*

*Achillea montana.* *Dalech.* 772.

*Chrysanthemum alpinum* III. *Clus. pann.* 565; No fig.—*hist.* i. 333. No fig.—*Scop. carn. n.* 1073.

*Chrysanthemum alpinum, foliis longis tenuiter incisis.* *Bath. Casp. pin.* 134.

*Chrysanthemum alpinum, foliis abrotani multifidis.* *Tourn. hort.* 183.

Stem 13 inches and upwards long; segments acute, those of the lower leaves one twentieth of an inch

broad, those of the upper leaves thrice as narrow as those of the lower. *Corollae* not fully expanded; limb of the ligulate corollae with 4 lines. *Involucra* imbricate; bracteae subulate, the longer  $1\frac{1}{4}$  tenth of an inch long. *Obs.* 8308.

*JACOBAEA alpina*, sive *Achillea*. *Cod. med.* p. lxi.—*Dale* 89.

## 796. ASTER.

*Receptacle* naked. *Pappus* pilose. *Ligulate corollae* more than 8. *Involucra* imbricate. *Obs.* 1480. *L.*

In some plants the ligulate corollae wanting.

### 1. *Herbaceous.*

1. ASTER *Tripolium*. Leaves linear-lanceolate, glabrous, trinervose; margin with projecting points and dentate. Bracteae of the involucra ovato-oblong. Anthodia corymbose. *Obs.* 1480. In a salt marsh near Shirley Wich in Staffordshire, in a field between the canal and the Trent.—*Hort. kew.* iii. 199. *L. suec.* n. 753; sp. 1226. *Bot. arr.* 915. *Smith engl.* t. 87; *brit.* 888. *Fl. dan.* t. 615. *Scop. carn.* ii. n. 1076. *Roth germ.* i. 366; ii. pars ii. 350. *Schreb. lips.* 18. At the Ketschau salt-springs.

*A. foliis lanceolatis integerrimis glabris, ramis inacutatis, floribus corymbosis.* *Roy.* 168. *Gmel. sib.* ii. 187. *t. 80. f. 2.*

*A. maritimus palustris caeruleus, salicis folio.* *Rupp. ab Hall.* 179. In meadows bordering the salt lake near Zapfendorf, and near the saltworks at Sulbeck. Varies in the colour of its flowers.

*A. maritimus purpureus*, *Tripolium*. *Raii hist.* i.  
270. *Boerh.* i. 95. In Holland.

*A. maritimus gaeeruleus*, *Tripolium dictus*. *Raii syn.*  
175.

*Tripolium vulgare minus*. *Staffordsh.* 117. At Ingestre 2 miles from Stafford in a marsh where a salt water breaks out. From Plot's staff.

*Tripolium*. *Dod.* 375, *repr. in*

*Tripolium vulgare*. *Lob. ic.* i. 296, & *cop. in Datedch.* 1890, & *Park. theatr.* 674, & *repr. in*

*Tripolium vulgare majus*. *Ger. by Johns.* 412.

*Tripolium majus*. *Bauh. J.* ii. 1064.

*A. atticus* with a pale flower. *Rastell in ph. tr. abr. by Hutt.* ii. 463. On the sides of ditches near the salt springs at Droitwich in Worcestershire.

Seeds pubescent. *Pappus* brownish white. *Obs.* 1480.

### TRIPOLIUM. Dale 87.

**2.** ASTER *indicus*. Leaves ovato-oblong, serrate; floral leaves oval-lanceolate, entire at the margin. Branches with 1 anthodium. *L. sp.* 1230. *Osb.* i. 378. In China.

*A. conyzoides* *indiac orientalis ramosior, caulis sparsis.* *Pluk. phyt. t.* 149. *n. 4. f. 3.*

**ASTER** *indicus*. *Lour.* ii. 615.

### 797. SOLIDAGO.

*Receptacle* naked. *Pappus* pilose. *Ligulate corolla* mostly 5. *Involuta* closely imbricate. *Obs.* 3358. *L.*

1. *Racemi secundose.* Hort. kew.

1. SOLIDAGO *canadensis*. Stem villosc. Leaves lanceolate, serrate and entire at the margin, tripli-nervose, seabrous. Racemi paniculate, recurvate. Laminæ of the ligulate corollæ short. *Obs.* 3113. In Dr. Prattinton's garden.—*Hort. kew.*, iii. 210. *Walt.* 206.

• *nudiuscula*.—Leaves nearly glabrous; serratures very few. Terminal racemi elongate. *Hort. kew.*  
α

S. *paniculato-corymbosa*, racemis reflexis, floribus confertis adscendentibus, foliis trinerviis subserrato-scabris. *L. ups.* 259.

*Virga aurea angustifolia*, panicula speciosa, canadensis. *Pluk. alm.* 389; *phyt. t.* 236. f. 1.

*Virga aurea virginiana*. *Stap.* 365, outer fig.

SOLIDAGO *canadensis*. *L. sp.* 1233. *Mill. Ph. dict.* n. 7.—*Krock.* ii. n. 1406.

2. *Racemi erect.* Hort. kew.

2. SOLIDAGO *Virgaurea*. Ligulate corollæ longer than those of the disc. Stem simple, erect, pubescent, slightly angular. Panicle compact. Lower leaves serrate, hirsutulous, elliptico-lanceolate. *Obs.* 3358. In Barlow woods near Chesterfield.—*Hort. kew.* iii. 218. *L. suec.* n. 754; *sp.* 1235. *Bot. arr.* 917. *Fl. dan.* t. 663. *Poll. n.* 802. *Roth germ.* ii. pars ii. 333. *Gou. hort.* 444; *monsp.* 363. *Smith engl.* t. 301; *brit.* 889 α

S. *caule anguloso hirsuto*, foliis ovato-lanceolatis dentatis, racemis multifloris spicatis. *Hall.* i. n. 69.

VIRGA AUREA. *Raii hist.* i. 278; *syn.* 176.

- Berg.* 680. *Ferriar* ii. 159. *Krök.* ii. n. 1407.  
*Linn.* 223. *Murr.* i. 170. *Quar. sebr.* 290. 368.  
410. *Spielm.* 396. *Ploucq. bibl.* i. 195. *Vog.* 89.  
*Consolida sarracenica.* *Pharm. austriaco-prov.* 32.  
*Goldenrod.* *Ferriar* ii. 167. *Und.* i. 355.  
 $\alpha$  *latifolia.* (Variation.) Leaves serrate. *From Bot.*  
*arr.* 917.  
*Virga aurea.* *Blackw. t.* 169. *Cam. epit.* 748, cop.  
in  
Welsh Goldenrod. *Pet. herb. t.* 16. f. 11.  
*Virga aurea vulgaris latifolia.* *Bauh. J.* ii. 1062.  
*Tourn. paris.* 172; *hort.* 202. *Vaill. paris.* 204.  
*Virga aurea altera, serrato folio.* *Lob. obs.* 159,  
*repr. in ic.* i. 299,  
*Virga aurea margin crenato.* *Dod.* 142, &  
*Virga aurea Arnoldi Villanovani.* *Ger. by Johnse.*  
430, & cop. in  
*Virga aurea serratis foliis.* *Tab. ic.* 873, & *Park.*  
*theatr.* 542, *abr.* in  
Common Goldenrod. *Pet. herb. t.* 16. f. 10, & cop.  
in  
*Virga aurea altera.* *Dalech.* 1273.  
*Virga aurea foliis minus serratis.* *Besl. hort. aest.*  
*ord.* 10. *fol.* 6.  
*VIRGA AUREA* *latifolia serrata.* *Magn. monsp.*  
279; *hort.* 205. *Rupp. ab Hall.* 181. In woods.  
—*Schrod.* 703.  
*Virga aurea major.* *Geoffr. suite* iii. 335.  
*Virga aurea, sive S. sarracenica.* *Chom.* 683.  
 $\epsilon$  *angustifolia.* (Variation.) Serratures of the leaves  
less distinct. *Bot. arr.* 917, from Raii hist.  
*S. caule erecto, racemis alternis erectis.* *Gmel. sib.* ii.  
164. j. &  
*Solidago.* *L. lapp.* n. 306.

- Virga aurea vulgaris latifolia. *Magn. monsp.* 279;  
*hort.* 205.
- Virga aurea Villanovani. *Lob. obs.* 159, *repr. in ic.*  
*i.* 298, *cop. in*
- Narrow Goldenrod. *Pet. herb. t. 16. f. 9,* & *repr.*  
*in*
- Virga aurea. *Dod.* 142, & *Ger. by Johns.* 430.  
*Matth.* 1006, *cop. in*
- Virga aurea Matthioli. *Dalech.* 1272.
- Virga aurea foliis non serratis. *Cam. epit.* 749.
- Symphytum petraeum III, flore albo. *Tab. ic.* 461.
- VIRGA AUREA* angustifolia minus serrata. *Tourn.*  
*hort.* 202. *Boerh. i.* 97.—*Rutty* 545. *Schrod.*  
 703.
- Virga aurea vulgaris latifolia. *Chom.* 683.
- Virga aurea minor. *Geoffr. suite iii.* 333.
- Virga aurea. *Alst. ii.* 247. *Dale* 88. *Herm.* 555.  
*Lew.* ii. 455; *disp. by Rotker.* 262; *by Dunc.*  
 207. *Mill. Jos.* 454.
- humilior. Leaves narrower. Petioles long. Antho-  
 dia larger. *From*
- VIRGA AUREA* vulgari humilior. *Dill. ap.*  
*Raii syn.* 176?—*Rutty* 545.

## 798. INULA.

Receptacle naked. *Pappus* pilose. *Antherae* end-  
 ing at the base in 2 bristles. *L.*

1. INULA tiscosa. Leaves lanceolate, denticulate,  
 sessile, reflex at the base. Peduncles lateral, leafy,  
 with 1 anthodium. *Hort. kew.* iii. 223. *L. a*  
*Willd.* iii. 2095. *Jacq. hort. ii. t. 165.*

- Erigeron viscosum.* *L.* sp. 1209. *Gou. hort.* 437.  
Near Montpelier; *monsp.* 359.
- Erigeron pedunculis unifloris lateralibus, calycibus squarrosis.* *L.* sp. 258.
- Virga aurea major, foliis glutinosis & graveolentibus.*  
*Boerh.* i. 97.
- Conyza mas Theophrasti, major Dioscoridis.* *Boerh.*  
i. 116. *Raii eur.* 105.
- Conyza major capitata, seu globosa.* *Bocc. sic.* 14.  
*t. 7, cop. in*
- Conyza capitata, seu globosa Bocconi.* *Hist. ox. s.*  
7. t. 20. row 1. f. 14.
- Conyza major.* *Clus. hisp.* 377, *repr. in hist.* ii. 20,  
*Dod.* 51, & *Ger. by Johns.* 481. *Raii hist.* i.  
261. In Sicily, Italy, and the south of France.
- Coniza major vera.* *Lob. adv.* 145, *repr. in ic.* i.  
346, & *cop. in*
- Conyza major verior Dioscoridis.* *Park. theatr.* 125,  
&
- Conyza magna Penac.* *Dalech.* 1046.
- Conyza major monspeliensis odorata.* *Magn. monsp.*  
75. *Bauh. J.* ii. 1053, who remarks that the serratures of the leaves are not expressed. Near Montpelier.  
Native of Spain, Sicily, Italy, and the south of France.
- CONYZA major.* *Dale 87.* *Diosc. l. 3. c. 136.*

2. *INULA pulicaris.* Leaves semiamplexicaul, oblongo-lanceolate, undulate, hirsutulous underneath. Ligulate corollae about as long as the tubular corollae. *Obs. 573.* On the sides of roads on the plain of angular gravel of transition rocks at the eastern base of Malvern hills in Worcestershire.

I. Pulicaria. *L.* a *Murr.* 766; *sp.* 1238, where the stem is described as prostrate; a *Willd.* iii. 2903, where characterised as having an erect stem.—*Huds.* 869. *Fl. dan.* t. 613. *Bot. arr.* 924. *Curt. lond.* iii. 57. t. 156. *Smith brit.* 892, who says that the stem is sometimes decumbent;—*engl.* t. 1196. *Gou. hort.* 445. Near Montpellier.—*Poll. n.* 804. *Roth germ.* ii. *pars* ii. 327, who describes the stem as procumbent, ascending, but enumerates a var. with an erect stem, probably alluding to the observations of English botanists.—*Reh. n.* 620; ed. ii. *n.* 696. *Krock. n.* 1414. Stem always erect.

I. uliginosa. *Sibth. ox. n.* 711.

*Aster pulicarius.* *Scop. carn. n.* 1080.

*Aster palustris, parvo flore globoso.* *Tourn. paris.* 178. *Vaill. paris.* 17.

*Conyza minor, flore globoso.* *Boerh.* i. 116.

*Conyza.* *Blackw.* t. 103. *Trag.* 166, repr. in

*Conyza sylvestris hirsuta.* *Cord. fol.* 160. p. 1, & *Psyllium.* *Cord. fol.* 154. p. 1.

*Conyza minima.* *Magn. monsp.* 77. *Dod.* 52, repr. in *Lob. obs.* 187; *ic.* i. 345, & *Ger.* by *Johns.* 482, & cop. in *Dalech.* 1045, &

*Small Fleabane.* *Pet. herb.* t. 16. f. 3.

*Conyzae mediae minor species, flore vix radiato.*

*Bauh. J.* ii. 1050. (The fig. must have been intended for a different plant.)

*Conyza minor hispanica, ex oris gaditanis.* *Pluk. mant.* 56; *phyt.* t. 384. f. 2?

*Conyza minor.* *Raii hist.* i. 262; *syn.* 174, *Matth.* 871, cop. in *Cam. epit.* 613,

Stem erect, from 6 to 12 inches long, branched from the base and a little below the middle; branches pa-

tent and patulous, longer than the stem, nearly glabrous below, pubescent and villose above. *Leaves* oblongo lanceolate, obsoletely dentate at the margin. *Peduncles* terminal and axillary. *Obs.* 573.

*CONYZA* *Pulicaria*. *Dale* 87.

*Conyza*. *Mill. Jos.* 148.

3. *INULA dysenterica*. Leaves amplexicaul, cordatosagittate, tomentose underneath; obsoletely dentate at the margin. Stem paniculate, lanuginose. *Obs.* 8296. Near Worcester.—*L. succ.* *n.* 757; *sp.* 1237. *Curt. lond.* iii. 56. *t.* 164. *Fl. dan.* *t.* 410. *Walc. t.* *Bot. arr.* 923. *Smith engl.* *t.* 1115; *brit.* 891. *Asso n.* 835. *Krock.* ii. *n.* 1413. *Gou. hort.* 445. Near Montpelier.

*Aster dysentericus*. *Scop. carn.* ii. *n.* 1079.

*Aster pratensis autumnalis*, *conyzae folio*. *Tourn. paris.* 179. *Vaill. paris.* 17.

*Calaminthae tertium genus*. *Fuchs.* 427. *c.* 166, *cop. in*

*Conyza media* *Matthioli*, *flore magno luteo, humidis locis proveniens*. *Bauh. J.* ii. 1050.

*Conyza media*. *Dod.* 52, *repr. in Lob. obs.* 187; *ic.* i. 345, *Ger. by Johns.* 482. *Raii hist.* i. 262, in Italy, Germany, France, and England; *syn.* 174. *Matth.* 872. *Dalech.* 1045.

*Conyza tertia*. *Cam. epit.* 614.

*Conyza*. *Tab. ic.* 860.

*Leaves*, *costa lanuginose*. *Obs.* 8296.

*Native* of Europe from Spain and Italy to Sweden.

*CONYZA media*. *Dale* 87. *Murr.* i. 156. *Rutty* 137.

*Arnica schweedensis*. *Neum.* ii. 125.

*Arnica spuria*. *Carth.* iii. 285.

*Conyza*. *Linn.* 223.

*Aster* β *Vog.* 94.

4. *INULA salicina*. Leaves lanceolate, cordate at the base, glabrous above and underneath; margin dentate and scabrous. Stem glabrous, striato-sulcate. Lateral anthodia extending beyond the terminal one. *Obs.* 8298. Specimen gathered in Lady Clifford's garden.—*L. suec. n.* 759; *sp.* 1238; *a Murr.* 767. *Hort. kew.* iii. 224. *Poll.* ii. *n.* 805. *Host austr.* 466. *Fl. dan.* *t.* 786. *Gou. hort.* 445. Near Montpelier; *monsp.* 364.

*Aster salicinus*. *Scop. carn.* *n.* 1081.

*Aster* foliis lanceolatis amplexicaulibus serrato-ciliatis glabris acuminatis recurvis, floribus solitariis, caule striato. *Gmel. sib.* ii. 177. (where at l. 3 from the bottom read LXXVII.) *t.* 77.

*Aster luteus latifolius* glaber, foliis rigidis et minime crenatis. *Pluk. alm.* 57; *phyt.* *t.* 16. *f.* 1.

*Aster* foliis glabris ciliatis venosis. *Hall. hist.* i. *n.* 76.

*Aster montanus luteus* salicis glabro folio. *Tourn. paris.* 177. *Vaill. paris.* 18. *Magn. monsp.* 32. *Rupp. ab Hall.* 180. *Raij hist.* i. 266; *eur.* 71. About Naples, Montpelier, and Manheim.

*Conyza media monspeliensis*, quibusdam *Asteris attici* genus, folio glabro rigido. *Bauh. J.* ii. 1049.

*Bellis lutea*. *Dalech.* 1349.

*Aster atticus* II. *Clus. pann.* 528, *repr. in*

*Aster atticus* IV, *austriacus* II. *Clus. hist.* ii. 14,

*Aster salicis folio*. *Ger. by Johns.* 488.

*Aster montanus*, foliis salicis. *Park. theatr.* 129.

No fig.

*Bubonium luteum*. *Tab. ic.* 337, *repr. in*

*Aster italorum*. *Ger. J.* 392.

*INULA* *salicina*. *Krock. ii. n.* 1415.

5. *INULA germanica*. Leaves amplexicaul, ovato-lanceolate, sericeo-villoso underneath; margin entire and scabrous. Anthodia corymbose, crowded.  
*Obs.* 8297. Specimen from Prof. Jos. F. Jacquin.  
 — *L. a* *Willd.* iii. 2100; *sp.* 1239. *Roth germ.* i. 360; *pars* ii. 329. *Poll.* ii. *n.* 807. *Host austr.* 466. *Jacq. vind.* 153; *austr.* ii. 21. *t.* 134.

*Aster* *foliis lanceolatis amplexicaulibus oris reflexis, ramis multifloris, calycibus oblongis laxis.* *Gmel. sib.* ii. 181. *t.* 78. *f.* 1.

*Aster thuringiacus altissimus latisolius montanus, flor luteo parvo.* *Rupp. ab Hall.* 181.

*Herba vulneraria ad fluvium die Pfrim vocatum nas- cens.* *Trag.* 488, *repr. in*

*Conyza Tragi.* *Cord. fol.* 160. *p.* 1, & *cop. in*

*Consolida sarracenica, tertia Tragi.* *Dalech.* 1271.

(*Conyzis affinis herba vulneraria, sive Solidago sara- cenica tertia Trago hirsuta.* *Bauh. J.* ii. 1051, *repr. in*

*Conyzis affinis herba vulneraria, sive Solidago sara- cenica tertia Trago dicta.* *Chabr.* 328, the outer stem of which *cop. in*

*Conyzis affinis germanica.* *Hist. o.x. s.* 7. *t.* 19. *row 3. f.* 26, is represented as having serrate leaves.

*Conyzae mediae monspeliensi affinis multiflora.* *Bauh. J.* ii. 1049, *repr. in*

*Conyza media monspeliensis quibuslam, asteris attici genus.* Chabr. 326, has serrate leaves.)

*HERBA VULNERARIA*, seu *Virga aurea vulgo germanica.* Dale 91.

6. *INULA Helenium.* Leaves amplexicaul, ovate, rugose, tomentose underneath. Bracteae of the involucra ovate. L. suec. n. 755; sp. 1236. Bot. arr. 922. Fl. dan. t. 728. Woodv. ii. 297. t. 108, cop. in Thornt. t. 712. Smith engl. t. 1516; brit. 891. Asso n. 834. In mountainous situations.— Gaertn. ii. 449. t. 170. Lightf. 484. Near houses.

*Aster Helenium.* Scop. carn. n. 1078.

*Aster omnium maximus, Helenium dictus.* Tourn. paris. 396. Vaill. paris. 18. Boerh. i. 94. In Holland.

*Helenium.* Dalech. 867. Tab. ic. 562. Cam. epit. 35. Raii hist. i. 273. In meadows and pastures but rather rare; syn. 176. Blackw. t. 473. Dod. 342, repr. in Ger. by Johns. 793, Lob. obs. 309; ic. i. 574, & abr. in

*Helenium, sive Enula campana.* Park. theatr. 654. Bauh. J. iii. pars i. 108, cop. from

*Elenium, sive Enula campana.* Fuchs. 242. fol. ed. cop. in 244. c. 89, & ill cop. in

*Elenion.* Trag. 170, which repr. in Cord. fol. 142. p. 1.

*Elenium.* Matth. 71.

*Enula campana.* Raii cant. 48. In the fields about Madingley, Barton, and many other places in Cambridgeshire.

Native of Spain, Croatia, Germany, the north of France, Sweden, Cornwall, Essex, Hertfordshire,

Cambridgeshire, Suffolk, Norfolk, Huntingdonshire, Gloucestershire, Worcestershire, Herefordshire, Shropshire, Denbighshire, Lancashire, the east riding of Yorkshire, and possibly of Scotland.

*HELENIUM*. *Alst.* i. 453. *Cull.* ii. 459. *Geoffr.* iii. 427. *Herm.* 45. *Hill* 617. *Lew.* i. 412. *Murr.* i. 154. *Schrod.* 601. *Spielm.* 534. *Vog.* 195.

I. *Helenium*. *Knackstaedt*, account from in *phys. journ.* i. 298. *Pears. R.* ii. 180; ed. ii. 387.

*Enula*. *Berg.* 681. *Carth.* iii. 64. *Krock.* ii. n. 1410. *Linn.* 223. *Murr.* i. 154. *Schoepf* 124. *Quar. anim.* 11 to 13, 42. 47; *febr.* 335. *Vog.* 195.

*Enula campana*. *Elecampane*. Root. *Pharm. lond.*—*Dule* 88. *Lew. disp. by Dunc.* 238. *Mead mon.* i. 119. *Mill. Jos.* 185. *Monro* iii. 107. *Neum.* ii. 216. *Rutty* 178.

*Helenium Enula*. *Darw.* ii. 31.

## 799. ARNICA.

Receptacle naked. *Pappus* pilose. Ligulate *corollae* with the rudiments of stamens. *Obs.* 8309. *L.*

I. *ARNICA montana*. Leaves oblong and lanceolate, caudine leaves opposite. *Obs.* 8309. In Mr. Hunter's nursery.—*L. succ.* n. 760; sp. 1245. *Hort. kew.* iii. 226. *Scop. earn.* n. 1086. *Fl. dan.* t. 63. *Host. austr.* 467. *Roth germ.* ii. pars ii. 523. *Woodv.* i. 10. t. 4, cop. in *Thornt.* t. 714. *Gaertn.*

ii. 451. t. 173. *Gou. hort.* 446. Near Montpelier.

*ARNICA*. Leopardsbane. Herb. Flower. Root.

*Pharm. lond.*—*Alst.* i. 438. *Berg.* ii. 682. *Collin obs.* iv. 1; v. 1; account from in med. comment.

v. 233. *Crichton in med. journ.* x. 237. *Cull.* ii. 88. *Dale* 88. *Fried diss.* *Hill* 626. *Hoven*, account from in med. rev. ii. 363. *Linn.* 224. *Meza in act. med. hafn.* i. 345; account from in med. comment. dec. II. ii. 380. *Monro* iii. 23. *Murr.* i.

157. *Neum.* ii. 117. *Plies*, account from in phys. journ. iv. 87. *Ploucq. bibl.* i. 33. 202. 232. 345.

368. 408. 467. 481. 500. 505. 514. 518. 572. 604.

*Quar. anim.* 7. 17. 130. 199. 225. 283; *febr.* 277.

*Richter*, account from in phys. journ. i. 27.

*Schrod.* 538. *Schult diss.* *Spielm.* 553. *Stoll med.*

i. 122; ii. 52. 53. 96. 98. 145. 152. 200. 204. 211.

231. 242. 301. 306. 307. 311. 327: 421. 425; iii.

72. 79. 402. 103. 113. 126. 135. 145. 137. 153.

159. 168. 172. 266. 267. 269. 291. 339; *aph. n.*

498—501. *Vog.* 51.

*A. montana*. Flowers. Root. *Pharm. edin.*—

*Coste & Willem. in med. comment.* v. 298. *Krock.*

ii. n. 1420. *Lew. disp. by Dunc.* 154. *Murr. J.*

i. 135. *Pears. R. ed.* ii. 328. 368.

*A. vera*. *Bruckner*, account from in med. ess. vi.

378. *Carth.* ii. 284.

*Doronicum*. *Lew.* i. 405.

*Doronicum germanicum*. *Geoffr.* ii. 56. *Home, F.*

*clin.* 239. *Temple*, account from in *Und.* i. 285.

ꝝ *oblongifolia*. Radical leaves oblong. *Obs.* 8310.

Specimen from Prof. Jos. F. Jacquin.

*A. montana*. *L. succ. a*; sp. *a*

*Doronicum soliis oblongo-ovalibus*. *L. lapp. n.* 304;

on the authority of Rudb.—*Roy.* 160.

- A. officinalis.* *Martini l. t. repr. in Arnica.* *Collin obs. v. 1. t.*  
*Alisma.* *Matth. 934, cop. in Damasonium, sen Alisma Matthioli.* *Dalech. 1057,*  
*which repr. in Damasonion de Matthiol.* *Dalech. plantes i. 924.*  
*Chrysanthemum latifolium.* *Dod. 263, repr. in Ger. by Johns. 742, & cop. in Dalech. 1358.*  
*Alisma Matthioli, sive Plantago montana,* *Bauh. J. iii. pars i. 20.*  
*Nardus celtica altera.* *Lob. ic. i. 313, repr. in Doronicum V germanicum.* *Clus. hist. ii. 18, & Calendula alpina.* *Ger. by Johns. 740, & cop. in Doronicum germanicum, foliis semper ex adverso nascentibus villosis.* *Bauh. J. iii. pars i. 19.*  
*Ptarmica montana.* *Dalech. 1169.*  
 $\beta$  *lanceifolia.* Leaves lanceolate. *Obs. 8311.* Specimen from Prof. Jos. F. Jacquin.—*L. suec.*  $\beta$   
*A. montana alpina.* *L. sp. 1245.*  
*Doronicum foliis lanceolatis.* *L. lapp. n. 305.*  
*Doronicum foliis lanceolatis, caulinis oppositis.* *Roy. 160.*  
*Doronicum plantaginis folio, alterum.* *Boerh. i. 100.*  
*Διορνήτην.* *Ren. 118. t. 119.*  
*Doronicum IIII.* *Clus. pann. 522, repr. in Chrysanthemum latifolium minus.* *Ger. by Johns. 742, &*  
*Doronicum VI pannonicum.* *Clus. hist. ii. 18. Raii hist. i. 276.*  
*Doronicum germanicum.* *Park. theatr. 321. Raii hist. i. 276.*  
*Nardus celtica altera.* *Lob. adv. 133, cop. in Dalech. 924.*

*Leaves*, margin sometimes obscurely denticulate. *Stem* from 1 to  $1\frac{1}{2}$  foot long, with few leaves, with mostly 3 anthodia sometimes 1, clammy, pubescent; lateral branches equal to and a little shorter than the stem; hairs numerous, most of them with globular glands, some acute and both longer and shorter than the glandular hairs. *Involucra* nearly simple, a few narrower bracteae being placed within the outer circle, pubescent, clammy. *Ligulate corollae* lanceo-lato-oblong, truncate at the end, with 7 lines not very discernible till dried or withered, with 3 and 4 rudiments of stamens. *Obs.* 8309.

2. ARNICA *scorpioides*. Leaves alternate, dentate, soft. *Jacq. austr.* iv. t. 349; *ap. L. a Murr.* 768. *L. sp.* 1246. *Host austr.* 467. *Hort. kew.* iii. 226. *Gou. hort.* 446. Near Montpelier.

*Aster scorpioides*. *Scop. carn. n.* 1075.

*Doronicum III*, *austriacum II*. *Clus. hist.* ii. 17, *repr. in*

*Doronicum radice repente*. *Ger. by Johns.* 760, & *cop. in*

*Doronicum folio subrotundo serrato*. *Bauh. J.* iii. *pars i.* 17.

*Aconitum Pardalianches alterum*. *Dod.* 434, *repr. in*

*Doronicum brachiata radice*. *Lob. obs.* 370; *ic.* i. 649, & *Ger. by Johns.* 760, & *cop. in Park. theatr.* 320, & *cop. from the inner fig. of Dalech.* 1203. *Raii hist.* i. 275.

*Aconitum Pardalianches*. *Cam. epit.* 822. No stem.

*DORONICUM radice dulci*. *Raii hist.* i. 275.—

*Alst.* i. 435. *Chom.* 313. *Dale* 88. *Gcoffr.* ii. 54.  
*Herm.* 151. *Neum.* ii. 139.  
*Doronicum.* *Schrod.* 583.

## 800. DORONICUM.

*Receptacle* naked. *Pappus* of the disc pilose, of the radius none. *Involucrum*, bracteae equal, in 3 rows.  
*Obs.* 5671. *L.*

1. *DORONICUM plantagifolium.* Lower leaves elliptic. *Obs.* 8313. In Mr. Knowlton's garden going out of flower. June 17.
- D. plantagineum.* *L. sp.* 1247. *Hort. kew.* iii. 226. *Roth germ.* i. 358; ii. *pars* ii. 322. *Gou. hort.* 446. Near Montpellier.
- Doronicum.* *Guett.* ii. 353.
- D. plantaginis folio.* *Tourn. paris.* 433. *Vaill. paris.* 47, both justly remarking that there is no good fig. of it.
- D. minus officinarum.* *Lob. obs.* 370, *repr. in ic.* i. 648, & *Ger. by Johns.* 759, *and cop. in*
- D. folio fere plantaginis oblongo.* *Bauh. J.* iii. *pars i.* 18, &
- D. minus.* *Park. theatr.* 319. *Raii hist.* i. 277.  
*Root* tuberous, white. *Stem* 32 inches long, erect, angular, with 3 anthodia, nearly glabrous below, hirsutulous above. *Leaves* microscopically pubescent; radical leaves elliptic and ovato-elliptic; the next above oblongo-ovate; upper ovate, amplexicaul. *Anthodia* pedunculate, terminal and axillary. *Peduncles* twice and thrice as long as the internodia, striate, pubescent. *Ligulate corollae* with 2 rudi-

ments of stamens. *Germina* and seeds of the flowers of the radius oblong, striate, glabrous; those of the disc hirsute. *Obs.* 8313.

*DORONICUM minus.* *Dale* 88.

*D. plantaginis folio.* *Cod. med. p. xlvi.*

2. *DORONICUM cordifolium.* Leaves cordate. *Obs.* 8312. In Mr. Knowlton's garden.

*D. Pardalianches.* *L.* sp. 1247  $\beta$ ; *a Willd.* iii, 1213. *Jacq. austr.* iv. t. 350. *Smith engl.* t. 630; *brit.* 896. *Scop. carn.* ii. n. 1085. *Host austr.* 468. *Gou. hort.* 446. Near Montpelier.—*Krock.* ii. n. 1421. *Asso n.* 839. *Roth germ.* i. 357; ii. pars ii. 321. *Lightf.* 485. About Hoddam castle in Annandale, and in several other places in the Lowlands but always near houses.—*Gaertn.* ii. 458. t. 173. *Bot. arr.* 925. Near Duplin house in Scotland.

*Doronicum.* *Mill. Ph. ic.* 85. t. 128.

*D. romanorum.* *Blackw.* t. 239.

*Aconitum Pardalianches primum.* *Dod.* 434, *repr.* in

*D. latifolium.* *Clus. hist.* ii. 16,

*Doronici tertii varietas.* *Lob. obs.* 370; *ic. i.* 649, &

*D. majus officinarum.* *Ger. by Johns.* 759, & cop. in

*D. vulgare.* *Park. theatr.* 319, &

*Doronicum I.* *Tab. ic.* 336.

*Aconitum Pardalianches Thcophrasti.* *Cam. epit.* 823.

*Root* terete, white, roundish at the end, with transverse rugae, which probably the insertions of leaves.

*Stem* 33 inches long, erect, hirsute, branched at the end. *Leaves*, 2 lower petiolate; the next above petiolate, the petiole with an ovate amplexicaul border; 3 upper sessile. *Ligulate corollae* with 3 rudiments of stamens. *Germina* of the flowers of the radius glabrous, those of the disc hirsute. *Obs. 8312.*

**DORONICUM.** *Pharm. austriaco-prov.* 36.—

*Alst.* i. 435. *Berg.* ii. 685. *Dale* 88. *Linn.* 224.

*Murr.* i. 162. *Spielm.* 266. *Vog.* 237.

*D. romanum.* *Lew.* i. 407. *Mill. Jos.* 180.

*D. radice scorpii.* *Chom. SII.* *Geoffr.* ii. 54. *Herm.* 150.

## 801. HELENIUM.

*Receptacle* of the radius and border of the disc paleaceous, the rest naked. *Pappus* aristate. *Involucrum* multipartite. *Ligulate corollae* trifid at the end. *Obs. 7615.* *L.*

1. *HELENIUM autumnale.* Leaves glabrous. *Hort. kew.* iii. 227. *L. sp.* 1248.

*Aster floridanus aureus*, caule alato. *Pluk. amalthe.* 43; *phyt. t.* 372. *f.* 4.

*Aster luteus alatus.* *Corn.* 52. *t.* 63, *abr. in Chrysanthemum americanum perenne*, caule alato, folio angustato glabro. *Hist. ox.* s. 6. *t.* 6. *row 1. f.* 74.

*Seeds* oblong, hispid; hairs erect. *Pappus* aristate; *aristae* subulate, semitransparent, 6, erect, hispid at the margin, contiguous. *Obs. 7615.* In *Saville's garden.*

*HELENIUM autumnale.* *Schoepf* 124.

## 802. BELLIS.

*Receptacle naked, conical. Pappus none. Involucrum hemispheric; bracteae equal. Seeds obovate.* L.

1. *BELLIS perennis.* Scapus simple. Obs. 1558.  
In meadows.—L. suec. n. 761; sp. 1248. Bot. arr. ii. 926. Curt. lond. i. 62. t; mat. med. t. 8. Smith engl. t. 424; brit. 897. Fl. dan. t. 503. Krock. ii. n. 1423. Gaertn. ii. 419. t. 168.
- B. *sylvestris minor.* Raii hist. i. 349; syn. 184. Boerh. i. 108. In Holland.—Blackw. t. 200. Dalech. 855, cop. from
- B. *minor sylvestris.* Fuchs. 154. c. 53. Ger. by Johns. 636, cop. in
- B. *minor simplex sylvestris.* Park. theatr. 530. Leaves too acute and too deeply serrate.
- B. *minor.* Matth. 912, cop. in  
Bellidis minoris species. Dalech. 854. Upper fig.
- Primula veris. Trag. 161.
- BELLIS minor.* Pharm. austriaco-prov. 23.—  
Berg. 686. Dale 96. Geogr. iii. 169. Lew. i. 205; disp. by Dunc. 329. Linn. 225. Mill. Jos. 82. Murr. i. 153. Vog. 125.
- Bellis. Spielm. 377.
- B. *sylvestris minor.* Chom. 576. Rutty 60. Schrod. 545.

## 803. PECTIS.

*Receptacle naked. Pappus aristate. Involucrum*

cylindric; bracteac 5. Flowers of the radius 5.  
*L.*

1. *PECTIS ciliaris*. Leaves linear, sciniamplexicaul, ciliate at the base. *Swartz. obs.* 307. *L. sp.* 1250.

*Jacobaea foliis salicis ad margines villosis.* *Plum.* *ic. t. 151. f. 2.*

*PECTIS ciliaris.* *Swartz. ib.*

## 804. CHRYSANTHEMUM.

*Receptacle* naked. *Pappus* none. *Involucrum*, bracteae with membranaceous borders. *Obs.* 6017.

*L.*

1. *CHRYSANTHEMUM segetum*. Leaves amplexicaul, serrate, inciso-serrate at the end. Ligulate corollae oval. Involucra imbricate. *Obs.* 215. In ploughed fields among turneps.—*L. suec. n.* 762; *sp.* 1254. *Bot. arr.* 930. *Smith engl. t.* 540; *brit.* 899. *Raii hist. i.* 339; *syn.* 182. *Curt. lond.* vi. *t.* 60. *Fl. dan. t.* 995. *Tourn. paris.* 418. *Vaill. paris.* 37. *Clus. hist. i.* 334, *repr. in Ger.* by *Johns.* 743, &

*Chrysanthemum.* *Dod.* 263, & *cop. in*

*C. segetum nostras.* *Park. theatr.* 1370, & *abr.* *in*

*C. segetum vulgare glaucum.* *Hist. ox. s. 6. t. 4.* *row 2. f. 1.*

*C. segetum, facie bellidis sylvestris, foliis glaucis papaveris hortensis instar profunde incisis, majus.* *Boerh.* i. 106. In Holland.

C. folio minus secto glauco. *Bauh. J.* iii. pars i. 105. descr. (The fig. some other plant.)

Bellis major. *Bauh. J.* iii. pars i. 114. f. 2. (The descr. and f. 1, C. Leucanthemum.)

Bellis major Barbari. *Trag.* 144. f. 2.

*Involucrum*, bracteae, outer ovate, inner obovato-oblong. *Corolla* bright yellow. *Obs.* 215.

**CHRYSANTHEMUM** segetum. *Dale* 94.

C. arvense, folio glauco dentato. *Rupp. ab Hall.* 169.

2. **CHRYSANTHEMUM** *Leucanthemum*. Leaves amplexicaul, incise, dentate, spatulate and linear. Ligulate corollae lanceolate. *Obs.* 8321. Specimen gathered in meadows.—*L. suec.* n. 763; *spi* 1251. *Smith brit.* 898; *engl. t.* 601. *Walc. t.* *Curt. lond.* v. 62. *t.* 348. *Bot. arr.* ii. 928. *Fl. dan.* *t.* 994.

C. foliis oblongis serratis. *L. lapp.* n. 310.

*Leucanthemum vulgare*. *Tourn. paris* 109. *Vaill. paris.* 115. *Dill. ap.* *Raii syn.* 184. *Boerh.* i. 107. In Holland.

Bellis major Barbari. *Trag.* 144. f. 1, cop. from

Bellis major. *Fuchs.* 154. c. 53, which cop. in *Bauh J.* iii. pars i. 114. f. 1. *Blackw.* *t.* 42. *Raii syn. ed.* ii. 92. *Matth.* 910. *Cam. epit.* 653. *Dod.* 265, repr. in *Ger.* by *Johns.* 634, & cop. in

Bellis major vulgaris sive sylvestris. *Park. theatr.* 528.

Gansblumen. *Brunsf.* i. 258.

**BELLIS** major. *Dale* 94. *Geoffr.* iii. 167. *Krock.* ii. n. 1425, *Lew.* i. 204, *Mill. Jos.* 81. *Murr.* i. 149. *Vog.* 125.

B. pratensis. Berg. ii. 687. Linn. 225. Schoepf 125.

*Bellis sylvestris* major. Schrod. 545.

B. sylvestris, caule folioso, major. Chom. 576; suppl. 163.

3. **CHRYSANTHEMUM procumbens.** Leaves sinuate, incise, obtuse. Stem procumbent. *From Lour.*

*Matricaria sinensis*, minore flore, petalis et umbone ochroleucis. Pluk. amalh. 142; phyt. t. 430. f. 3.

Tsjetti-pu. Rheede x. 87. t. 44. Corolla green.

**CHRYSANTHEMUM** procumbens. Lour. ii. 610.

4. **CHRYSANTHEMUM indicum.** Leaves bipinnatifid, pubescent above, hoary underneath; segments serrate. Obs. 6577. In Mr. Shore's garden. —L. sp. 1253. Sal. W. 25. Lour. ii. 610. Donn 205.

♀ plenum. All the florets ligulate. Obs. 6577. Curt. mag. t. 327. L. ♀

*Involucra*, bracteae oblong, membranaceous at the sides and end. *Corollae* brownish crimson above, fleshcoloured underneath; lamina obovato-obsubulate, emarginate at the end. Obs. 6232. In Sir H. Hunloke's garden.

**MATRICARIA** sinensis. Rumph. v. 259. t. 91. f. 1.

5. **CHRYSANTHEMUM Chamomilla.** Leaves pinnate; pinnae multifid. Receptacle conic. Seeds striate. Obs. 6120. On the sides of roads.

*Matricaria Chamomilla.* *L.* *succ.* *n.* 764; *sp.* 1256.

*Bot. arr.* *ii.* 933. *Lightf.* 491. *Curt. lond.* *v.* 68. *t.* 331. *Smith brit.* 902; *engl.* *t.* 1232. *Mart.* *rust.* *t.* 74. *Huds.* 372  $\alpha$   $\beta$

*Matricaria suaveolens.* *Lightf.* 493. *Bot. arr.* *ii.* 933: (*L.* *sp.* 1256, though the specific character accords, is said by Dr. Smith, possibly on the authority of the Linnaean herbarium, to be a distinct species whose anthodia are twice as small.)

*Anthemis vulgaris.* *L.* *lapp.* *n.* 309.

*Chamaemelum vulgare,* *Leucanthemum Dioscoridis.*

*Magn. hort.* 53. *Tourn. paris.* 255, who describes it as aromatic.

*Chamaemelum vulgare.* *Dod.* 257, *cop.* in *Park. theatr.* 85, & *repr.* in

*Anthemis vulgatior.* *Lob. obs.* 445; *ic.* *i.* 770, &

*Chamaemelum.* *Ger. by Johns.* 754, & *abr.* in

Bitter Camomile. *Pet. herb.* *t.* 19. *f.* 9.

*Chamaemelon Leucanthemon.* *Fuchs.* 27. *c.* 8. *abr.* in

*Chamomilla vulgaris.* *Trag.* 148, & *cop.* in

*Chamaemelum vulgare amarum.* *Bauh. J.* *iii.* *pars i.* 116. *Raii hist.* *i.* 355.

Of a scent like that of *Anthemis nobilis*. Stem to 17 inches long. Leaves, segments setaceo-subulate. *Intolucrum*, bracteae oblong, membranaceous at the margin. *Anthodia* 9 tenths of an inch broad. Ligate *corollae* oblong, somewhat cuneiform at the base, obsoletely tridentate at the end,  $3\frac{1}{2}$  tenths of an inch long, white, with 4 lines which proceeding to near the end and returning back form by their union 3 teeth, without any lateral lines branching off from the outer lines in *Matricaria biglandulosa*. Seeds te-

rete, minute,  $\frac{1}{2}$  of the tenth of an inch long, whitish brown with 5 whitish costae, which closer together on the inner side; the end oblique, not bordered, hollow with a short mucro in the middle which is the remaining base of the style. *Obs. 6120.*

**CHAMAEMELUM** *vulgare.* *Carth.* iii. 156.

*Chom.* 525. *Dale* 96. *Geoffr.* iii. 299. *Herm.*

573. *Lew.* i. 324. *Rutty* 117. *Spielm.* 207.

*Chamomilla vulgaris.* *Pharm. austriaco-prov.* 29.

—*Lew. disp. by Dunc.* 344. *Schrod.* 562.

*Chamomilla nostras.* *Pharm. suec.* — *Berg.* 689.

*Krock.* ii. n. 1432. *Linn.* 226. *Murr.* i. 143.

*Matricaria Chamomilla.* *Hahnemann, account from in phys. journ.* vi. 369.

*Chamomilla.* *Collenbusch, account from in ann. med.*

iv. 269. *Ploucq. bibl.* i. 92. 190. 216. 461. *Quar.*

*anim.* 138. 219. 221. 231; *febr.* 80. 112. 292. 377.

*Stoll med.* ii. 287 to 289; iii. 149. *Vog.* 144 β

*Common Camomile.* *Neum.* ii. 196.

## 805. MATRICARIA.

*Receptacle naked.* *Pappus* a border. *Obs. 6764.*  
*6017.* *L.*

1. **MATRICARIA frutescens.** Fruticose. Leaves fleshy, pinnatifid; segments linear, dentate, mostly trifid at the end. *Obs. 8167.* Specimen gathered in Fothergill's garden.

*Pyrethrum frutescens.* *L.* & *Willd.* iii. 2150.

*Chrysanthemum frutescens.* *L.* sp. 1251; & *Murr.* 771.

*Leucanthemum canariense*, sapore pyrethri. *Bocrh.*  
i. 107. *Walth.* 31. t. 24.

*Buphtalmum canariense leucanthemum*, cotulae  
foetidae crassioribus foliis. *Pluk. abn.* 73; *phyt.*  
t. 272. f. 6.

Seeds, border dentate; teeth unequal. *Obs.*  
8167.

*PYRETHRI radix altera*. *Geoffr.* ii. 121.

2. MATRICARIA *Parthenium*. Leaves pinnate; folioles and segments ovali-ovate. *Obs.* 6764. On the side of a road, near a dunghill.—*L. sp.* 1255. *Bot. arr.* ii. 931. *Fl. dan.* i. 674. *Woodw.* iv. 97. t. 249. *Dalech.* 954.

*Pyrethrum Parthenium*. *Smith brit.* 900; *engl.* t. 1231.

*Matricaria*. *Blackw.* t. 196. *Brunsf.* i. 299, *repr. in*  
iii. 62. *Trag.* 156. *Dod.* 35, *repr. in Ger. by*  
*Johns.* 652. *Raii syn.* 187.

*M. vulgaris*. *Vaill. paris.* 124.

*Artemisia tenuifolia*. *Fuchs.* 46. c. 13, *cop. in*

*M. vulgo minus Parthenium*, *Bauh. J.* iii. *pars i.*  
129,

*Parthenium*. *Cam. epit.* 649.

*Involucra imbricate*; bractae lanceolate and cunei-formi-oblong, membranaceous and villose towards the end. Seeds oblongo-cuneiform, brownish white, glabrous, costate, with several whitish costae; border shallow, membranaceous, with about 5 obsolete teeth, *Receptacle* semiovato-hemispheric, brownish black, dotted. *Obs.* 6764.

*MATRICARIA*. *Pharm. austriaco-prov.* 48. *suec.*  
—*Alst.* ii. 175. *Berg.* ii. 688. *Carth.* iii. 132.  
*Dale* 97. *Fordyce, G. pract.* 207. *Geoffr.* iii. 825.

*Herm.* 478. *Hull phleg.* 295. *Krock.* ii. n. 1430. *Lew.* ii. 94; *disp. by Dunc.* 344; *by Rother.* 194. *Linn.* 225. *Mill. Jos.* 287. *Monro* iii. 167. *Murr.* i. 148. *Neum.* ii. 218. *Ploucq. bibl.* i. 699. *Rutty* 312. *Schrod.* 621. *Spielm.* 220. *Vog.* 67. *Matricaire.* *Chom.* 155; *suppl.* 51.

## 806. ANTHEMIS.

*Receptacle* paleaceous. *Pappus* none. *Involucrum* hemispheric. *Lamina* of the ligulate *corollae* longer than the tube. *Obs.* 1626. 6747. *L.*

1. *ANTHEMIS nobilis.* Receptacle conic. Paleæ oblong, serrate. Leaves and stem slightly villose. *Obs.* 6763. In a garden. 9 Sep.—*L. sp.* 1260. *Berg. mat. med.* 435. *Bot. arr.* ii. 936. *Sibth. ox.* n. 718. *Smith brit.* 904; *engl. t.* 980. *Roth germ.* i. 367. Near Tubingen.—*Woodv.* ii. 283. *t.* 103. *Thornt.* *t.* 717. *Teesd. in lin. tr.* ii. 110. On Terrington common near Malton in Yorkshire.  
*Chamaemelum odoratissimum* repens, flore simplici.  
*Bauh. J.* iii. *pars i.* 118. *Raii syn.* 185; *hist.* i. 353.
- Chamaemelum.* *Raii cat.* 67. *Blackw. t.* 298.  
*Chamaemelum nobile*, sive *Leucanthemum odoratius*.  
*Vaill. paris.* 34. *Boerh.* i. 109.
- Chamaemelum odoratum.* *Dod.* 259, *repr. in* A. seu *Leucanthemis odorata*. *Lob. obs.* 445; *ic.* i. 770, &  
*Chamaemelum romanum.* *Ger. by Johns.* 755.  
*Tab. ic.* 19.
- Parthenium nobile.* *Trag.* 147. *descr.*

Sweet Camomile. *Pet. herb. t.* 19. *f.* 10, imit. from J. Bauh. fig. of  $\beta$

(*Parthenium, nobilis Chamomilla.* *Trag.* 149, seems rather to be *A. Cotula.*)

*Stems* ascending and erect. *Involucra* hirsute with scattered hairs on the outside. *Paleae* with a few scattered hairs. *Seeds* ovali-oblong, glabrous, without a border, not quite ripe. *Obs.* 6763.

*Native* of Suabia, the north of France, Cornwall, Surry, Middlesex, Norfolk, Oxfordshire, Worcester-shire, Shropshire, and the east riding of Yorkshire.

*CHAMAEMELUM.* Chamomile. Single flowers.

*Pharm. lond.*—*Alst.* ii. 108. *Brockelsby in med. obs.* iii. 279. *Cull.* ii. 78. *Dale* 96. *Fordyce, G. pract.* 153. 159; *fev.* ii. 83; *W. fragm.* 20. 39. 47. 50. 69. 93. *Heb.* 9. 51. 64. 161. 230. 261. 275. 283. 413. *Hill* 442. *Lew.* i. 321. *Lind hot clim.* 311. *Mead mon.* i. 47. *Mill.* *Jos.* 130. *Monro* iii. 58.

Anthemis. *Pharm. lond. noviss.*

*A. nobilis.* Herb. Flowers. *Pharm. edin.*—*Lew. disp. by Dunc.* 145. *Murr. J.* i. 189. 241. *Pears. R.* i. 173. 289; *ed. ii.* 327. 367.

*Chamaemelum odoratum.* *Geoffr.* iii. 300.

*Chamaemelum romanum.* *Herm.* 573.

*Chamaemelum nobile.* *Krock.* ii. *n.* 1434. *Rutty* 119.

*Chamomilla.* *Ranoe in act. haun.* i. 35. *Vog.* 144.  
α

*Chamomilla romana.* *Berg.* ii. 694. *Carth.* iii. 156. *Linn.* 226. *Murr.* i. 150. *Schrod.* 562.

*Chamomile.* *Blane* 490. *Clark, J. long voy.* i. 182. *Denm.* i. 254; ii. 514. 524. *Fordyce, G. fev.* ii.

125; *W. ser.* 154. *Hull phlegm.* 275. *Hunt. J. jam.* 112. 117. 210. 226. 227. 257. *Lempr. ii.* 179. 225. 226. 232. *Pringle* 204. 214. *Und. i.* 110. 123. 210. 217; *ii.* 65; *iii.* 147.

*Camomile.* *Blane* 411. 453. *Bree* 284. 292. *Chalm. i.* 86. 186. *Darw. ii.* 208. 209. 711. 716. *Home, Everard, account from in ann. med. iii.* 55. *Jackson* *jam.* 333; *fec.* 320. 321. 326. *Monro, Don. sold. i.* 273; *ii.* 126. *Pringle* 215. 266. 272. *Rush* *iii.* 285. 293; *v.* 120. *Wright in med. facts vii.* 15.

Roman Camomile. *Neum. ii.* 198.

*§ ligulata.* Corollae mostly ligulate. *Obs.* 6756. Cultivated in fields in the gritstone district of Derbyshire from Chesterfield to Higham.

*Chamaemelum nobile, flore multiplici.* *Boerh. i.* 109. *Raii hist. i.* 353.

*Chamaemelum repens odoratissimum perenne, flore multiplici.* *Bauh. J. iii. pars i.* 119, *cop. from Chamaemelum romanum, flore multiplici.* *Cam. epit.* 646. *Tab. ic. 19, cop. in*

*Chamaemelum anglicum, flore multiplici.* *Ger. by Johns.* 755.

*Chamaemelum flore pleno.* *Park. par. t. 291. f. 3.*

Stems ascending and erect, branched from the base, slightly villose. Leaves sessile, bipinnato-bipinnatifid, slightly villose, glaucous, with numerous whitish dots; segments linear-lanceolate, acute, flat, thickish. Peduncles leafy below, naked at the end. Involucra imbricate; outer bracteae ensiform, with very narrow membranaceous borders; middlemost oblong, with broader borders; inner larger, cuneiform-oblong; borders and end membranaceous and broader than the green part; margins eroso-serrate.

*Corollae*, ligulate ones oblong, with 3 obsolete teeth at the end, white, becoming green by boiling, with 4 lines some of which often branched, uniting at the end so as to form ovate teeth which parallel to the teeth at the end of the corolla. *Paleae* oblong, membranaceous, with a green band along the middle, serrate at the margin, those of the ligulate corollae nearly as long as the pistil, those of the tubular corollae somewhat shorter than the corollae. *Obs.* 6756.

*CHAMAEMELUM romanum*. *Spielm.* 207.

*Chamomilla romana*. *Berg.* 694.

*Chamaemelum flore pleno*. *Dale* 96. *Lew.* i. 325.

Roman Chamomile. *Joffrion*, account from *in ann. med.* iv. 113.

*Chamaemelum nobile*, flore multiplici. *Chom.* 525.

2. *ANTHEMIS foetida*. Receptacle conic. Paleae lineari-lanceolate. Seeds tuberculate, thrice as broad as the paleae. *Obs.* 1626. On the side of the road between Wolverhampton and Shifnal in Shropshire.—*Sal. R. hort.* 204.

A. *Cotula*. *L. suec.* n. 767; *sp.* 1261. *Bot. arr.* ii. 938. *Lightf.* 495. *Scop. carn.* n. 1092. *Krock.* ii. n. 1436. *Huds.* 373. *Curt. lond.* v. 61. t. 329. *Smith brit.* 906; *engl. t.* 1772.

*Chamaemelum foetidum*. *Raii syn.* 185. *Tourn. paris.* 256. *Vaill. paris.* 34.

*Parthenium*. *Fuchs.* 557. c. 222. *cop. in*

*Chamaemelum foetidum*, sive *Cotula foetida*. *Bauh.* J, iii. pars i. 120.

*Cotula alba*. *Dod.* 258, *repr. in*

*Parthenion*. *Lob. obs.* 447,

*Cotula foetida*. *Lob. ic.* i. 773, & *Ger.* by *Johns.*

757, & abr. in *Park. theatr.* 87. *Brunsf.* i. 255,  
*Blackw.* t. 67.

*Stem* slightly villose. *Leaves* slightly villose. *Ligulate corollae* oblongo-oval, obsoletely tridentate, with mostly 5 lines; lines mostly distinct, sometimes uniting at the end so as to form 3 teeth corresponding with those of the margin. *Paleae* minute, linear-lanceolate, one third shorter than the flowers of the disc, as long again as the seeds. *Seeds* obconic, yellowish brown, microscopically tuberculate, obsoletely striate, terminated by a short obtuse point apparently the permanent base of the style. *Obs.* 1626.

**COTULA foetida.** *Berg.* ii. 696. *Dale* 97. *Lev.* i. 325; *disp. by Rether.* 149. *Linn.* 227. *Mill.* *Jos.* 156. *Murr.* i. 151. *Rutty* 145. *Schoepf* 125. *Vog.* 152.

**Chamaemelum foetidum.** *Chom.* 526. *Geoffr.* iii. 200. *Spielm.* 207.

**Chamomilla foetida.** *Schrod.* 562.

**3. ANTHEMIS Pyrethrum.** Stems decumbent. Leaves pinnato-multifid. *From L. sp.* 1262, & *Curt. mag.* t. 462. *Hort. kew.* iii. 238. *Woodv.* ii. 286. t. 104, *cop. in Thornt.* t. 720.

**Buphthalmum caulis simplicissimis unifloris, foliis pinnato-multifidis.** *L. ups.* 263; *mat. med.* n. 396.

**Anthemis caulis simplicibus unifloris decumbentibus, foliis pinnato-multifidis.** *Mill. Ph. ic.* 25. t. 38.

**Pyrethrum officinarum.** *Park. par.* 292. t. 291. f. 4. *Lob. obs.* 447, *repr. in ic. i.* 274, & *Ger. by Johns.* 758, & *cop. in*

*Pyrethrūm vulgare officinarum.* Park. theatr. 859,

&

*Pyrethre.* Pom: i. 82.

*Pyrēthrum alterum.* Dalech. 1170.

*Pyrēthrum.* Fuchs. 611. c. 247. abr. in Trag. 457.  
Blackw. t. 390.

**PYRETHRUM.** Pellitory of Spain. Root.  
*Pharm. lond.*—*Alst.* i. 498. *Carth.* ii. 254. *Dale*  
96. *Darw.* ii. 701. *Geoffr.* ii. 119. *Herm.* 59.  
*Hill* 604. *Krock.* ii. n. 1437. *Lew.* ii. 253. *Mill.*  
*Jos.* 364. *Monro* iii. 226. *Murr.* i. 152. *Neum.*  
ii. 95. *Quar. anim.* 16. *Ranoe in act.* med. *hafn.*  
ii. 348. *Rutty* 417. *Schrod.* 658. *Spielm.* 485.  
*Vog.* 205. *Ware* gutt. seren. 129.

A. *Pyrethrum.* *Pharm. lond.* edin. noviss.—*Lew.*  
*disp. by Dunc.* 146. *Murr. J.* i. 339. *Oxley in*  
*phys. journ.* v. 329. *Pears. R.* i. 115. 170.

*Pyrethrum verum.* *Berg.* 697. *Linn.* 227.

*Pyrethrum flore bellidis.* *Chom.* 140.

Pellitory of Spain. *Und.* i. 197.

4. **ANTHEMIS tinctoria.** Leaves bipinnato-bipinnatifid, tomentose underneath. Stem corymbose. *Obs.* 6129. In Miss Wood's garden,—*L. suec.* n. 769; sp. 1263. *Bot. arr.* ii. 939. *Fl. dan.* t. 741. *Gort. helg. foed.* n. 705. *Smith engl.* t. 1472; *brit.* 907. Found in Essex.—*Host. austr.* 472. *Roth germ.* i. 368. *Krock.* ii. n. 1438. *Gou. hort.* 452. Near Montpellier.

*Buphtalmum tanaceti minoris foliis.* *Boerh.* i. 106.

*Chrysanthemum foliis tanaceti.* *Loes.* 47. t. 9.

*Chrysanthemum foliis tanaceti, flore aureo.* *Barrel.* t. 465.

*Buphthalmum vulgare.* *Raii hist.* i. 341; *cur.* 78.

On the walls of Bonn, and in many other places in Germany, and about Florence; *syn.* 183. On a bank near the Tees not far from Sogburn in Durham. — *Park. par. t.* 291. *f. 7.* *Ger. by Johns.* 747, *cop. in*

*Buphthalmum Matthioli*, sive *vulgare millefolii facie.*  
*Park.* 1370.

*Chamaemelum aureum.* *Fuchs.* 27. *c. 8,* *cop. in*  
*Chamaemelum chrysanthemum quorundam.* *Bauh.*

*J. iii. pars i.* 122, & *imit. in*

*Buphthalmus.* *Trag.* 152.

*Buphthalnum.* *Blackw. t.* 439. *Cam. epit.* 651.  
*Matth.* 910.

*Buphthalmum Matthioli.* *Dalech.* 862.

*Buphthalmon, Oculus bovis.* *Lob. adv.* 343, *repr.*  
*in ic. i.* 772.

*Yellow Oxeye.* *Pet. herb. t.* 19. *f. 7.*

*Peduncles* with 1 anthodium, very long, naked above. *Corollae* deep yellow; tube of the ligulate corollae compressed, as long again as the germen; margins acute; the inner side with a slight angle.  
*Obs.* 6129.

*Native* of Italy, the south of France, Germany, Sweden, Essex, & Durham.

**BUPHTHALMUM.** *Mill. Jos.* 98. *Vog.* 151.

*Buphthalmum germanicum.* *Dale* 94.

*Buphthalmum tanaceti minoris foliis.* *Chom.* 692.

*Oculus bovis.* *Geoffr. suite i.* 219.

## 807. ACHILLEA.

*Receptacle* palaceous. *Pappus* none. *Lamina* of

of the ligulate *corollae* as long as the tube. *Obs.*  
6634. *L.*

1. *Leaves undivided.* *L. a Willd.*

1. ACHILLEA *cuneifolia*. Leaves cuneiform. *Front*  
*All. Lam.*

A. Herba rota. *L. a Willd.* iii. 2191. *All.*

A. foliis integris odoratis cuneiformibus in apice den-  
tatis. *All. specim.* 12. t. 2.

HERBA DE LA ROTTA. *Bauh. J.* iii. pars  
i. 144.

2. ACHILLEA *Ptarmica*. Leaves linear-lanceiform,  
doubly serrate; smaller serratures microscopic.  
*Obs.* 16. Specimen gathered near Worcester.—  
*L. suec.* n. 771; sp. 1266. *Walc. t. Curt. lond.*  
v. 60. t. 343. *Bot. arr.* ii. 941. *Smith engl.* t.  
757. *Krock.* ii. n. 1439. *Fl. dan.* t. 643. *Gou-*  
*hort.* 453. Near Montpelier.

*Ptarmica.* *Blackw.* t. 276. *Raii hist.* i. 344; *syn.*  
183. *Math.* 585. *Cam. epit.* 354. *Lob. obs.* 243,  
*repr. in ic.* i. 455, *Ger. by Johns.* 606,  
*Draco sylvestris*, sive *Ptarmice.* *Dod.* 698, &  
*Ptarmica vulgaris.* *Clus. hist.* ii. 12, & *cop. in Park.*  
*theatr.* 859.

*Ptarmice.* *Fuchs.* 610. c. 247, *abr. in*  
*Tanacetum álbum*, seu *acutum*. *Trag.* 159, & *cop.*  
*in*

*Ptarmica Fuchsii.* *Dalech.* ii. 1468, &

*Ptarmica vulgaris*, folio longo serrato, flore albo.  
*Bauh. J.* iii. pars i. 147. *Tourn. paris.* 207.  
*Vaill. paris.* 165. *Boerh. L.* 111. In Holland.

*Sneezwort.* *Pet. herb.* t. 19. f. 3.

*Dracunculus pratensis*, serrato folio. *Hist. ox. s. 6.*  
*t. 12. row 3. f. 1.*

Leaves semiamplexicaul; smaller serratures not  
 visible to the naked eye. *Obs. 16.*

**PTARMICA.** *Berg. ii. 691. Dale 95. Lew. ii.*  
*249; disp. by Dunc. 328; by Rother. 221. Linn.*  
*228. Mill. Jos. 361. Murr. i. 169. Rutty 415.*  
*Schrod. 656. Vog. 135.*

*Dracunculus pratensis.* *Geoffr. iii. 410.*

*Dracunculus pratensis*, serrato folio. *Chom. 134.*

3. **ACHILLEA Ageratum.** Leaves lanceolato-oblong,  
 doubly serrate, apparently fasciculate: *Obs. 8322.*  
 Specimen from Prof. Jos. F. Jacquin.—*L. sp. 1264.*  
*Gou. hort. 452. Hort. kew. iii. 239. Host. austr.*  
*472. Near Trieste.*

✉ *lutea.* Corollae yellow. *Obs. 8322.*

*Achillea.* *All. nic. 98. Mill. Ph. ic. 7. t. 10.*  
 Flowers apparently not expanded.

*Ageratum foliis serratis.* *Boerh. i. 125.*

*Eupatorium Mesuae.* *Trag. 515, repr. in*

*Mentha corymbifera minor.* *Cord. fol. 143. p. 2.*

*Ageratum septentrionalium.* *Raii eur. 53. About*  
*Florence, Leghorn, and Montpelier.—Lob. obs.*  
*259, repr. in ic. i. 489,*

*Balsamita minor.* *Dod. 293, &*

*Balsamita foemina*, sive *Ageratum.* *Ger. by Johns.*  
*648, & cop. with the addition of a shoot at the base,*  
*in*

*Balsamita minor, foliis serratis.* *Hist. ox. s. 6. t. 1.*  
*row 1. f. 2.*

*Ageratum.* *Blackw. t. 300. Park. par. t. 481. f. 6.*  
 Leaves too acute.

*Ageratum vulgare*, sive *Costus liortorum minor*.

*Raii hist.* i. 364.

*Ageratum plerisque*, *Herba julia quibusdam*. *Bauh.*  
*J. iii. pars i.* 142.

Leaves appearing fasciculate from smaller leaves  
rising from the alae. *Obs.* 8323. In a cottager's  
garden. Var β

Native of Italy, and the south of France.

*AGERATUM*. *Carth.* iii. 153. *Dale* 98. *Gœffr.*  
iii. 41. *Lew.* i. 192. *Linn.* 227. *Mill.* *Jos.* 18.  
*Murr.* i. 170. *Rutty* 11. *Schrod.* 528.

*Ageratum foliis serratis*. *Choni.* 439.

## 2. Leaves divided. L. a Gmel.

4. *ACHILLEA moschata*. Leaves pinatifid; segments linear, acute, entire, dotted. *Anthodia corymbosæ*.  
*Obs.* 8324. Specimen from Prof. Jos. F. Jacquin.  
—*Jacq. austr. v. app. t.* 33. *L. a Murr.* 778;  
*a Willd.* iii. 2201. *Hort. kew.* iii. 241.

*A. foliis pinnatis, pinnis simplicibus glabris punctatis*. *Hall. hist.* i. n. 112.

*Tanacetum alpinum odoratum*. *Scheuch.* *J. Jac.*  
*itin.* ii. 70. *n.* 93. *t.* 6. *f.* 3.

*Dracunculus alpinus argenteus, alatis foliis*. *Hist.*  
*ox.* iii. 111. *s.* 6. *t.* 10. *row.* 1. *f.* 7.

*Millesolio alpino affinis planta, quibusdam Iva moschata*. *Bauh.* *J. iii. pars i.* 140. No fig.

*Millesolium alpinum*. *Bauh.* *J. iii. pars i.* 139. *f.*  
2. (the name, descr. and *f.* 1; *A. atrata*.)

*Tanacetum parvum alpinum*. *Dalech.* 956.

*GENIPUM verum*. *Murr.* i. 168.

5. *ACHILLEA nana*. Leaves pinnate, dentate, very

hirsute. Anthodia glomerato-umbellate. *L. sp.* 1267; *mant.* 475; *a Willd.* iii. 2201.

**A.** foliis pinnatis lanugine obductis, floribus albis umbellatis. *All. specim.* 9. t. 2. f. 3.

*Millesolium alpinum tomentosum odoratum nanum.*  
*Bocc. piante* 166. t. 120.

*Millesolium alpinum incanum, flore specioso.* *Bauh. J. iii. pars i.* 138. *Raii hist. i.* 347.

**GENIPUM.** *Murr.* i. 169.

6. **ACHILLEA nobilis.** Leaves hirsutulous, flat; folioles of the lower leaves bipinnatifid, acute, folioles of the upper leaves pinnatifid; floral leaves pinnatifid. *Obs.* 7602. In Saville's garden, 16 Oct.—*L. sp.* 1268. *Hort. kew.* iii. 242. *Poll.* ii. n. 821.

*Tanacetum minus.* *Dod. 37, repr. in*

*A. sive Millesolium nobile.* *Ger. by Johns.* 1073.

*A. millefolia odorata.* *Bauh. J. iii. pars i.* 240. In the south of France, Switzerland, and Italy.

*Millesolium nobile.* *Boerh. i.* 112. *Hist. ox. s. 6. t. 11. row 2. f. 4.* *Trag. 476, repr. in*

*Achillea.* *Cord. fol.* 136. *p. 2.*

*A. Sideritis.* *Dalech.* 772.

*A. Millesolium nobile.* *Tab. ic.* 129.

*Tanacetum minus album.* *Ger. by Johns.* 651, *cop. in*

*Tanacetum minus, candidis floribus.* *Dalech.* 956, &

*Tanacetum minus, flore albo.* *Park. theatr.* 82:

Stem 14 inches long, erect, slightly villose, terete, slightly striate. Leaves of the shoots 7 inches long, lanceolate; folioles sessile, approximate; segments

linear, acute, not mucronate; terminating segment subulate; floral leaves, segments linear, entire. *Corymbus* paniculate, fastigiate, crowded; primary branches paniculate, 6 times dichotomous. *Involucra* imbricate, oval; bracteae oval and cuneiformi-oblong, villosso-erose at the end, the sides whitish, membranaceous, with a green stripe along the middle and a whitish costa, sprinkled with many whitish olearia, which when bruised afford a stercoraceous chamomile scent. *Anthodia*, disc conico-oblong, projecting beyond the involucrum. *Corollae* white; lamina of the ligulate corollae cuneiformi-subrotund, obtusely tridentate, somewhat more than 1 tenth of an inch long, when withered by keeping deflex. Obs. 7602.

**MILLEFOLIUM** nobile. Lew. disp. by Dunc. 328.

7. ACHILLEA *Millefolium*. Leaves pubescent; folioles bipinnatifid, oblique; segments subulate, mucronate. Obs. 7600. In a field.—*L. suec.* n. 770; sp. 1267. *Poll.* ii. n. 820. *Bot, arr.* ii. 941. *Curt. lond.* vi. 61. t. 421. *Gaertn.* ii. 426. t. 168. *Krock.* ii. n. 1442. *Woodv.* i. 179. t. 64. *Smith brit.* 908; *engl.* t. 758. *Fl. dan.* t. 737. *Thornt.* t. 722. Folioles represented as incise,

Achillaea. *L. lapp.* n. 311.

*Millefolium vulgare.* Raii syn. 183.

*Millefolium vulgare album.* *Tourn. paris.* 118. *Vaill. paris.* 127.

*Millefolium.* Blackw. t. 18.

*Millefolium purpurei floris.* Dod. 100, repr. in

*Millefolium terrestre, purpureis floribus.* Lob. obs. 431; ic. i. 747, &

*Millefolium flore rubro.* Ger. by Johns. 1072.

- Stratiotes millefolia minor.* *Dalech.* 769.  
*Millefolium purpureum.* *Tab. ic.* 130.  
*Millefolium, sive Achillea.* *Dod.* 100, but the fig.  
*repr. in*  
*Militaris.* *Lob. obs.* 430,  
*Millefolium terrestre vulgare.* *Lob. ic.* i. 747, &  
*Ger.* by *Johns.* 1073, and *cop. in*  
*Millefolium vulgare album vel rubrum.* *Park.*  
*theatr.* 694, more resembles *A. macrophylla*.  
*Stratiotes millefolia.* *Fuchs.* 689. c. 278, but the fig.  
*cop. in*  
*Millefolium Stratiotes, pennatum terrestre.* *Bauh.*  
*J. iii. pars i.* 136, & *abr. in*  
*Millefolium vulgare.* *Trag.* 477, which *repr. in*  
*Millefolium terrestre majus.* *Cord. fol.* 139, p. 1,  
is more like *A. macrophylla*.

*Corymbus* paniculate, fastigiate ; primary branches paniculate, six times dichotomous. *Involucra* oval-oblong, imbricate ; bracteae ovate and oblong, greenish, membranaceous at the sides, fusco-rufous, villososerrate at the end, sparingly sprinkled with globular greenish olearia yielding a scent similar to that of the rest of the plant. *Corollae* white ; lamina of the ligulate corollae subrotund, obtusely tridentate, somewhat longer than the tube,  $1\frac{1}{4}$  tenth of an inch long, after flowering deflex. *Seeds* linear-cuneiform, flat, brownish white, obsoletely tridentate at the end.

*Obs.* 7600.

**MILLEFOLIUM.** *Pharm. austriaco-prov.* 50.  
*suec.* — *Berg.* ii. 693. *Carth.* iii. 165. *Dale* 95.  
*Fordyce, W.* fragm. 39. *Geoffr. suite* i. 67. *Lew.*  
ii. 108 ; *disp. by Rother.* 693 ; *by Dunc.* 328.  
*Linn.* 228. *Mill. Jos.* 298. *Murr.* i. 165. *Neum.*

ii. 198. *Ploucq. bibl.* i. 423, 500, 602. *Quar. anim.* 56. 199. 201. 265—267. *Rutty* 331. *Sauv. nos.* ii. 401. *Schrod.* 627. *Spielm.* 385. *Vog.* 70. *Millefeuille. Chom.* 572; *suppl.* 162.

## 808. ECLIPTA.

*Receptacle* paleaceous. *Pappus* none. *Tubular corollae* quadrifid. *L.*

1. *ECLIPTA erecta*. Stem erect. Leaves deflex at the base, sessile. *L. mant.* 286? *Swartz. obs.* 311? *Hort. kew.* iii. 243? *Gaertn.* ii. 441. *t.* 169?

*Verbesina alba. L. sp.* 1272. Native of Virginia and Surinam, and the peduncles described as woolly; *mant.* 475?

*Eupatoriophalacron balsaminae feminae folio, flore albo discoide.* *Dill. hort.* 138. *t.* 113. *f.* 137?

*Scabiosa conyzoides amara latifolia.* *Hist. ox.* s. 6. *t.* 13. *row* 3. *f.* 16, inner fig. (outer fig. probably

*Scabiosa conyzoides americana, capitulis et floribus albidis parvis.* *Pluk. alm.* 335; *phyt. t.* 109. *f.* 1.)

*ECLIPTICA. Rumph.* vi. 43. *t.* 18. *f.* 1.

## 809. VERBESINA.

2. *Obs.* 8820. Specimen of *V. nodiflora*.—*Obs.* 8821. Specimen of *V. dichotoma*.—*L.*

1. *Leaves alternate.* L.

1. VERBESINA *spicata*. Leaves, lower palmato, incise, upper ovato-lanceolate, serrate. Spikes linear, terminal. *From Lour.* ii. 620.
2. VERBESINA *Bosvallea*. Leaves multifid; segments capillary. Stems prostrate. Hermaphrodite flowers 6. Female flower 1. *From L. fl. suppl.* 379.

2. *Leaves opposite.* L.

3. VERBESINA *calendulacea*. Leaves lanceolate, rather obtuse. Peduncles long, with 1 anthodium. Involucra with 1 row of bracteae. *L. sp.* 1272; *mant.* 476.

*PEE-CAJONI.* *Rheede* x. 83. t. 42.

4. VERBESINA *biflora*. Leaves oblongo-ovate, trinervose, acuminate, serrate. Peduncles in pairs, with 2 anthodia. *L. sp.* 1272; *mant.* 475?

*VALLIA-MANGA-NARI.* *Rheede* x. 79. t. 40.

5. VERBESINA *Acmella*. Leaves oblongo-ovate, trinervose, subdentate, petiolate. Peduncles elongate, axillary. Anthodia conic. *L. sp.* 1271; *mant.* 475.

*Spilanthes Acmella.* *L. a Murr.* 731.

*ABCdaria.* *Kumph.* vi. 145. t. 65.

*Chrysanthemum bidens*, sive *Bidens zeylanica*, *flore luteo, lamii folio, Acmella dicta.* *Breyn, ic.* t. 48. f. 4.

*Bidens zeylanica*, flore luteo, melissae folio, *Acmella* dicta. *Seb.* i. 19. t. 10. 11.

*Senecio indiae orientalis*, ocy mi majoris folio profunde crenato. *Pluk. alm.* 343; *phyt.* t. 315. f. 2.

*ACMELLA*. *Dale* 97. *Hotton in ph. tr. abr. by Hutt.* iv. 548. *Linn.* 217. *Murr.* i. 135. *Ploucq. bibl.* i. 188. *Vog.* 91.

*Acmella*. *Hotton in ph. tr. abr. by Lowth.* ii. 618, by *Hutt.* iv. 442.

## 810. SIGESBECKIA.

*Receptacle* paleaceous. *Pappus* none. *Involucra*, outer bracteae 5; inner patent. *L.*

i. *SIGESBECKIA orientalis*. Leaves petiolate, deltoid. Outer bracteae twice as long as the inner. *Obs.* 8372. Specimen gathered in Fothergill's garden.—*L. sp.* 1269; *a Willd.* iii. 2219. *Hort. kew.* iii. 244. *Gaertn.* ii. 424. t. 168.

*Sigesbeckia*. *L. cliff.* 412. t. 23; *ups.* 267.

(*Cichorio affinis*, *Lapsana sinica*, *menthastrum* foliis, calyce fimbriato hispido. *Pluk. amaln.* 58; *phyt.* t. 380. f. 2, has ovali-ovate leaves, and is probably *S. orientalis* of Loureiro who describes the inner bracteae as spathaceous and opening on one side.

*Bidenti similis*, foliis latissimis serratis. *Buxb.* iii. 29. t. 52, with the outer bracteae of the involucra only a little longer than the outer, is *S. iberica*.

Leaves dentate. *Involucra*, outer bracteae  $2\frac{1}{2}$  as long as the inner. *Obs.* 8372.

*SIGESBECKIA orientalis*. *L. am.* iii. 68.

## 811. BUPHTHALMUM.

*Receptacle* paleaceous. *Pappus* an obsolete margin.  
*Seeds* especially those of the radius bordered at the  
 sides. *L. & Willd.* *L.*

1. BUPHTHALMUM *oleraceum*. Bracteae of the involucra acute, connected laterally. Leaves opposite, lanceolate, recurvate. *Lour.* ii. 618.

## POLYGAMIA.

## FRUSTRANEA.

## 812. HELIANTHUS.

*Receptacle* paleaceous. *Pappus* diphyllous; phylla ovato-triangular. *Obs.* 2605. *L.*

1. HELIANTHUS *annuus*. All the leaves cordate, trinervate. Peduncles thickening. Anthodia crenulous. *L. & Marr.* 781; *sp.* 1276. *Hort. kew.* iii. 248.

*Xpuonis.* *Ren.* 84. *t.* 83.

*Corona solis.* *Boerh.* i. 102.

*Chrysanthemum peruvianum.* *Dalech.* 874. *Dod.* 264, *repr. in*

*Flos solis peruvianus.* *Lob. obs.* 322; *ic. i.* 592,  
&

*Flos solis major.* *Ger. by Johns.* 751.

*Flos solis.* *Park. par. t.* 297. *f. 2.* *Raii hist.* i. 334,  
(mispr. 314.)

*Herba maxima.* *Bauh. J.* iii. *par's i.* 106.

*Ligulate corollae neutral.* *Obs.* 2605.

***HELIANTHUS.*** *Schoepf* 126.

*H. annuus.* *Bry.* 152. *Krock.* ii. *n.* 1449.

*Flos solis.* *Dale* 93.

2. ***HELIANTHUS tuberosus.*** Leaves ovato-cordate,  
triplinervose. *L. sp.* 1277, *H. K.* iii. 249. *Jacq.*  
*hort.* ii. *t.* 161.

*Flos solis pyramidalis.* *Raii hist.* i. 335. *Ger. by*  
*Johns.* 753, *cop. in*

*Battatas de Canada.* *Park. theatr.* 1383, the sepa-  
rate branch *cop.* from *Col. par. t.* 517. *f. 4.*

*Chrysanthemum annuum tuberosum.* *Hist. ox. s.* 6.  
*t. 6. row 2 f. 57.*

*Flos solis farnesianus, sive Aster peruvianus tuberosus.*  
*Col. ecphr.* ii. *t.* 13.

***HELIANTHUS tuberosus.*** *Berg.* 699. *Bry.* 33.  
*Krock.* ii. *n.* 1447. *Pears.* *R.* i. 55. *Schoepf*  
126.

*Helianthemum tuberosum esculentum.* *Geoffr.* iii. 547.

*Battata canadensis.* *Dale* 93.

*Poma terrae.* *Spielm.* 33.

***HELIANTHUS giganteus.*** Leaves alternate, lan-  
ceolate, scabrous, ciliate at the base. Stem scab-  
rous. *Obs.* 6153. Specimen gathered in Mr.

- Ballard's garden.—*L.* sp. 1278. *H. K.* iii. 249.  
*Chrysanthemum virginianum elatius angustifolium,*  
 caule hirsuto viridi. *Pluk. alm.* 99; *phyt. t.* 159.  
*f. 5, cop. in*  
*Chrysanthemum elatius angustifolium viride.* *Hist.*  
*ox. iii. 24. s. 6. t. 7. row 2. f. 66;*  
*Chrysanthemum canadense latifolium elatum.* *Bocc.*  
*sic. 52. t. 27. A.*  
*HELIANTHUS giganteus.* *Schoepf* 127.

4. *HELIANTHUS divaricatus.* Leaves opposite, sessile, ovato-oblong, trinervose. Panicle dichotomous. *L.* sp. 1279. *Hort. kew.* iii. 250.  
*Chrysanthemum virginianum repens,* foliis asperis binatim sessilibus acuminatis. *Hist. ox. iii. 23. n.* 66.  
*Chrysanthemum americanum,* foliis asperis sine pediculis caulis oppositis. *Hist. ox. s. 6. t. 3. row 3. f. 66.*  
*HELIANTHUS divaricatus.* *Cult.* 483.

### 813. BIDENS.

Receptacle paleaceous. *Pappus* aristate; *aristae* 2 to 4, scabrous with reflex aculei. *Anthodia* discoid and radiate. *Obs.* 567. *L.*

1. *BIDENS tripartita.* Anthodia discoid. Leaves tripartite and pinnatifid. Involucra mostly leafy. Seeds erect. *Obs.* 567. Near Worcester.—*L.* succ. n. 726; sp. 1165. *Bot. arr.* ii. 882. *Curt. lond.* iv. 57. t. 237. *Gaertn.* ii. 412. t. 167. *Scop.*

- carn.* ii. n. 1090. *Smith brit.* 858; *engl. t.* 1113.  
*Roth germ.* ii. *pars* ii. 300. *Poll.* ii. n. 774. *Gou. hort.* 428. Near Montpelier.
- B. foliis tripartito divisitis. *L. lapp.* n. 294. *Vaill. paris.* 21. *Boerh.* i. 122, In Holland.
- Verbesina foliis tripartito divisitis. *Rupp, ab Häll.* 168.
- Conyzia palustris tripartito divisitis. *Loes.* 53. t. 10,  
*cop. in*
- Tritid Bur Marygold. *Pet. herb.* t. 20. f. 7.
- Verbesina, sive Cannabinæ aquatica, flore minus pulchro, elatior ac magis frequens. *Bauh. J.* ii. 1073,  
*No fig.—Raii syn.* 187.
- Hepatorium aquatile. *Dod.* 584, *cop. in*
- Eupatorium aquaticum. *Park. theatr.* 595, the entire plant, & repr. in
- Eupatorium cannabinum foemina. *Ger. by Johns.* 711. *Raii hist.* i. 360; *syn. ed.* ii. 93.
- Hydropiper Pseudoeupatorium foemina. *Dalech.* 1039.
- Involucra, bracteæ equal. Seeds with 4 and 3 aristæ.* *Obs.* 567.
- BIDENS tripartita.* *Schoepf* 121.
- Bidens. *Dale* 97.

*BIDENS chinensis.* Anthodia radiate. Outer involucrum as long as the inner. Lower leaves pinnate; upper leaves ternate; folioles subcordato-ovate, unequal at the base. From *L. a Willd.* iii. 1719.

B. pilosa. *L. a Murr.* 732  $\beta$ . *Lour.* ii. 596.

*AGRIMONIA molucca.* *Rumph.* vi. 88. t. 15, f. 2.

## 814. CENTAUREA.

*Receptacle setose. Pappus pilose and none. Corolla of the radius tubular, longer, irregular. Obs. 4596. L.*

1. *Pappus none.*

1. CENTAUREA *Jacea*. Bracteae of the involucra lacerate. Leaves lanceolate; radical leaves sinuato-dentate. Branches angular. *L. suec.* n. 774; sp. 1293; *a Murr.* 786. *Hort. kew.* iii. 261. *Reich. franc.* n. 629. *Fl. dan.* t. 519. *Smith engl. t.* 1678. *Northumb. guide* ii. 21. On Willington ballast hills.

*Rhaponticum Jacea. Scop. carn.* ii. n. 1017.

*Jacea nigra pratensis latifolia. Tourn.* 20. *Vaill. paris.* 107. *Boerh.* i. 142. In Holland.

*Jacea nigra. Tab. ic.* 152. *Dalech.* 1068.

*Jacea nigra vulgaris capitata & squammosa. Bauh. J.* iii. pars i. 27.

*Jacea nigra, quae in germaniae pratis nascitur. Dill. ap. Raii syn.* 199.

*JACEA. Geoffr.* iii. 615. The remark from *Tavernae montanus.*

2. CENTAUREA *Calcitrapa*. Bracteae of the involucra spinose. Anthodia sessile. Leaves pinnatifid; segments linear, dentate. Stem pilose. *Obs. 4596.* Specimen gathered between Cambridge and London, and on a common between Southwark and Clapham.—*L. sp.* 1297. *Relh. n.* 635. *Bot. arr.* ii. 946. *Abb. n.* 618. *Smith engl. t.* 125; *brit.*

912. *Poll.* ii. n. 828. *Gou. hort.* 460; *monsp.* 376. *Host austr.* 477. *Roth germ.* i. 372; ii. *pars* ii. 366.

Rhaponticum Calcitrapa. *Scop. carn.* ii. n. 1019.

Calcitrapa Hippophaestum. *Gaertn.* ii. 377. t. 163.

Calcitrapa officinarum, flore purpurascente. *Vaill. paris.* 30.

Jacea stellata, folio papaveris erratici. *Boerh.* i. 140.

Polyacantha. *Cord. fol.* 91. p. 2, *cop. in*

Myacanthos. *Dalech.* ii. 1474.

Hippophaestum. *Col. phytob.* 105. t. 107.

Spinastella. *Tab. ic.* 701, *repr. in*

*Carduus stellatus.* *Ger. J.* 1003. *Raii hist.* i. 317; *syn.* 196; *cant.* 28. On the sides of roads.—*Dod.* 721, *repr. in ed.* ii. 733, *Ger. by Johns.* 1166, *Lob. obs.* 482; *ic.* ii. 11, &

*Carduus muricatus*, vulgo Calcitrapa dictus. *Clus. hist.* ii. 7, *abr. in*

Star Thistle. *Pet. herb.* t. 21. f. 11, *cop. in*

*Carduus stellaris*, sive Caleitrapa vulgaris. *Park. theatr.* 989, *imit. in*

Spinastella alba. *Tab. ic.* 702, *which repr. in*

*Carduus solstitialis.* *Ger. J.* 1003, & *cop. in*

*Carduus stellaris*, sive Calcitrapa. *Bauh. J.* iii. *pars* i. 189. *Tourn. paris.* 12.

*Involucra* ovate, *Bracteae* spinose at the end; spines 5 and 7; middlemost longer than the body of the bractea, rigid, pungent, patent, attenuate; lateral ones 4 and 5 times shorter, flexible. *Seeds* naked, smooth, glabrous, turbinated, with an indentation on one side a little above the base. *Obs.* 4596.

*Native of Europe from Italy to the north of Germany, and of Surry, Bedfordshire, Cambridgeshire, and Norfolk.*

**CALCITRAPA.** *Geoffr.* iii. 241. *Krock.* ii. n. 1468. *Linn.* 230. *Mill. Jos.* 103. *Murr.* i. 98. *Spielm.* 651. *Vog.* 167, 217.

*Carduus stellatus.* *Dale* 107.

*Carduus stellatus, foliis papaveris erratici.* *Chom.* 225; *suppl.* 72.

2. *Pappus setose.* *Bracteae of the involucra dry, splitting.*

3. **CENTAUREA Rhapontica.** Leaves ovato-oblong, entire, dentate at the margin, petiolate, tomentose underneath. *L. sp.* 1294. *Host. austr.* 477. In Carniola.—*Jacq. coll.* i. 223. *Hort. kew.* iii. 262. *Mill. Ph. dict.* n. 15, who received seeds of it from Verona.

*Centaureum foliis petiolatis lanceolatis ad pediculum emarginatis.* *Hall. hist.* i. n. 160. Bracteae of the involucra at length lacerate.

*Centaurium majus, folio helenii incanq.* *Boerh.* i. 143.

*Rha, sive Rhei ut existimatur icon.* *Dod.* 385; *repr. in*

*Rha capitatum, folio enulae; centaurei majoris facie.* *Lob. obs.* 153; *ic.* i. 288, &

*Rha capitatum Lobelii.* *Ger. by Johns.* 393, & cop. in

*Rhapontici icon alia.* *Tab. ic.* 910.

*Rha ponticum, enulae folio latiore.* *Park. theatr.* 156, &

*Centaureum majus*, *Rha capitatum*, folio emulae subtus hirsuto et iucano. *Bauh. J.* iii. pars i. 41. *Raii hist.* i. 331.

*Rha capitatum*, *helenii* folio. *Dalech.* 1700.

*Centaureum majus*. *Cord. fol.* 201. p. 2.

*RHAPONTICUM vulgare*. *Carth.* ii. 394.

*Rhaponticum*. *Dale* 108. *Spielm.* 638.

*Rhaponticum falsum*. *Dale* 108.

*Rha angustifolia*. Leaves elliptic, acute. *Obs.* 8200.

Specimen gathered in Fothergill's garden.

*Rha ponticum alterum*, *angustiore* folio. *Lob. obs.*

153, *cop. in Dalech.* 1701, *repr. in*

*Rha-ponticum alterum*, *angustifolium*. *Lob. ic.* i.

288, &

*Rha capitatum angustifolium*. *Ger. by Johns.* 893, & *cop. in*

*Rhiponticum angustifolium*. *Park. theatr.* 157,

*Centaureum*, *sive Rhaponticum alterum*, *angustiore* folio. *Bauh. J.* iii. pars i. 41. *Raii hist.* i. 331.

*Peduncle* striate, gradually thickening upwards. *Involucrum* 1½ inch long, tawny; bracteae dry, villosulose, splitting with many fissures to one fourth of the length of the bracteae; outer obovate; middle-most ovate below, above ovato-subrotund, and twice as broad as the base; innermost subulate. *Pappus* setaceous, tawny, thrice as long as the germen; setae of various lengths and thicknesses, scabrous; aculei patulous. *Obs.* 8200.

*CENTAURIUM majus*, folio *helenii* *angustiore*.

*Boerh. ind.* i. 143.

3. *Pappus setose*. *Bractae of the involucra serrate*.

4. *CENTAUREA montana*, *Leaves decurrent, lan-*

ceolate, undivided, entire at the margin. *Obs.* 5746. In a garden.—*L. sp.* 1289. *Hort. kew.* iii. 258. *Curt. mag.* t. 77. *Gou. hort.* 458; *monsp.* 375. *Scop. carn.* ii. n. 1022. *Poll.* ii. n. 823. *Roth germ.* i. 370. *Host austr.* 475. *Jacq. austr.* iv. t. 371.

*Cyanus caule unifloro alato, foliis ellipticis lanceolatis.*  
*Hall. hist.* i. n. 190.

*Cyanus montanus latifolius, vel Verbasculum cyna-*  
noides. *Boerh.* i. 145. *Mill. Ph. ic.* 76. t. 114.  
f. 1.

*Cyanus montanus, caule folioso, seu multifolius.* *Zan.*  
*a. Mont.* 88. t. 60.

*Cyanus major.* *Besl. hort. vern. ord.* 7. *fol.* 6.  
*Blackw.* t. 66. *Cam. epit.* 288. *Dod.* 250, *repr. in*  
*Ger. by Johns.* 732. *Raii hist.* i. 322; *eur.* 109.  
On hills near Spa, and on Mount Jura not far from  
Geneva.—*Dalech.* 487. *Lob. ic.* i. 548, *cop. in*

*Cyanus major vulgaris.* *Park. theatr.* 482.

*Cyanus alpinus, radice perpetua.* *Bauh. J.* iii. *pars*  
i. 23.

*Verbasculum.* *Trag.* 219.

*Root* perennial. *Stems* branched at the base;  
branches several, ascending, mostly with 1 antho-  
dium, nearly 2 feet long. *Leaves* slightly lanugi-  
nose. *Anthodia* glabrous. *Corollae* of the radius  
neutral, blue, half as long again as those of the disc.  
*Pappus* capillary, microscopically aculeate. *Obs.*  
5746.

*Native* of the south of France, Switzerland, and of  
Germany as far north as Leige and Saxony.

*CYANUS major.* *Dale* 107. *Mill. Jos.* 167.

5. CENTAUREA *Cyanus.* Leaves linear, entire at

the margin; lowermost mostly dentate. *Obs.* 176. In cornfields, where always with blue radiate corollae.—*L. suec. n.* 776, in fields of rye and wheat; *sp.* 1289, in fields of biennial corn.—*Lightf. i.* 498. *Bot. arr. ii.* 944. *Asso n.* 862. *Smith engl. t.* 277; *brit.* 911. *Walc. t. Curt. lond. vi. t.* 422. *Scop. carn. ii. n.* 1023. *Fl. dan. t.* 993. *Gou. monsp.* 375; *hort.* 458. *Host austr.* 476. *Retz. scand. n.* 1054. *Poll. ii. n.* 824. *Jacq. vind.* 158. *Roth germ. i.* 370; *ii. pars ii.* 362. *Willd. ber. n.* 844. *Reich. franc. n.* 626.

*Cyanus segetum*, flore caeruleo. *Tourn. paris.* 191.

*Vaill. paris.* 43. *Rupp. ab Hall.* 182. *Boerh. i.* 145. In Holland.

*Cyanus minor*. *Blackw. t.* 270. *Cam. epit.* 289.

*Cyanus*. *Raii syn.* 198; *hist. i.* 321. *Fuchs.* 420; *c.* 163, *cop. in Bauh. J.* iii. *pars i.* 21. *f. 3.* 4. In corn fields about Montbeliard with blue corollae, about Basle with corollae partly blue and partly white, about Montpelier, Lyons, and Geneva with purple corollae.

*Cyanus segetum*. *Magn. monsp.* 82.

*Cyanus vulgaris*. *Lob. obs.* 296, *repr. in ic. i.* 546, & *Ger. by Johns.* 732.

*Papaver Heracleum*. *Col. phytop. t.* 92.

*Involucra*, bracteae, teeth patulous. *Corollae* of the radius neutral. *Seeds* shining, pubescent. *Pappus* setose, scabrous, as short again as the seed, whitish brown. *Setae* of the receptacle, flat, subulate, flexible, as long as the seeds. *Obs.* 176.

*Native* of Europe from Spain to Sweden, but I cannot find from any of the authors above cited that it has ever been observed except amongst corn, with

which it has possibly migrated as many other plants and animals with man.

**CYANUS.** *Pharm. austriaco-prov.* 34.—*Alst.* ii. 127. *Berg.* ii. 700. *Carth.* iv. 245. *Chom.* 421; *suppl.* 130. *Geoffr.* iii. 389. *Herm.* 605. *Lew.* i. 387. *Linn.* 229. *Murr.* i. 93. *Schrod.* 578. *Spielm.* 212. *Vog.* 146.

**C.** *Cyanus.* *Guthrie in med. soc. iv.* 372, *and med. comment. dec. II.* ix. 287. *Krock.* ii. n. 1458.

*Cyanus minor.* *Dale* 107. *Mill. Jos.* 168.

**4.** *Pappus setose. Bracteae of the involucra pinnatifid.*

**5.** *CENTAUREA nigra.* Corollae mostly equal. Leaves lanceolate, pinnatifid dentate denticulate and entire at the margin. *Obs.* 4594. In a meadow.—*L.*, sp., 1288. *Gou. hort.* 458; *monsp.* 374. *Bot. arr.* ii. 943. *Reich. franc.* n. 625. *t.* at. *p.* 79. *Smith brit.* 910.

*Cyanus niger.* *Gaertn.* ii. 382. *t.* 161.

*C. calycibus ciliatis, ciliis setaceis.* *Guett.* ii. 317. *Dalib.* 266.

*dentata.* Cauline leaves dentate. *Obs.* 4594.

*C. nigra.* *Fl. dan.* t. 996. *Smith engl.* t. 278.

*Jacea nigra laciniata.* *Boerh.* i. 142, In Holland.

*Jacea nigra.* *Raii hist.* i. 325; *syn.* 198. *Dod.* 124, *repr. in Ger. by Johns.* 727,

*Jacea austriaca III.* *Clus. pann.* 545,

*Jacea austriaca VI.* *Clus. hist.* ii. 7,

*Jacea nigra vulgatior.* *Lob. obs.* 292, &

*Jacea nigra vulgaris.* *Lob. ic.* i. 541, & *cop.* in *Park. theatr.* 468, &

*Jacea cum squanis ciliis instar pilosis.* *Bauh. J.*

J. iii. pars i. 28. *Tourn. paris.* 473. *Vaill. paris.* 107. *Dill. ap. Raii syn.* 199. *Magn. monsp.* 136.

*Jacea nigra vulgatior practicantium.* *Lob. adv.* 234.  
No fig.

Jagged Knapweed. *Pet. herb. t.* 22. *f. 9.*

*Intolucrea*, laminæ of the bractæ ovate, pinnati-fid. *Corollæ* of the radius  $7\frac{1}{2}$  tenths of an inch long, sometimes having only the rudiments of stamina and of a style. *Seeds* oblong, slightly tetragonous. *Pappus* very short; hairs setaceo-subulate, unequal, microscopically scabrous; aculei erect. *Receptacle* pilose; hairs flat, attenuate at the end, glabrous, shining. *Obs.* 4594.

Native of France, Germany, Britain, and New England.

*JACEA.* *Dale* 107. *Geoffr.* iii. 615.

5. *Pappus setosæ.* Bractæ of the *intolucrea* spinose.  
Spines simple.

7. *CENTAUREA solstitialis.* Leaves unarmed; caudine leaves decurrent; radical leaves lyrate, acute. *Obs.* 8198. Specimen gathered in the Vienna garden. The account of the radical leaves from *L. sp.* 1297. *Gou. hort.* 460; *monsp.* 376. *Scop. carn.* ii. n. 1028. *Bot. arr.* ii. 946. *Roth germ.* i. 372. *Host dustr.* 478. *Smith in lin. tr.* ii. 238, from a cultivated plant compared with a specimen gathered by Mr. Crowe near Norwich; *engl. t.* 243. *Huds.* 377. Near Norfleet in Kent.

*Jacea stellata*, Spina solstitialis dicta, foliis cyani. *Boerh.* i. 141.

*Carduus stellatus luteus, foliis cyani. Tourn. paris.*  
*407. Vaill. paris. 30. Raii syn. 196. Found by*  
*Bobart in hedges near Cirencester in Gloucester-*  
*shire.*

*Leucantha quorundam. Dalech. 1464..*

*Carduus solstitialis Lobelio. Park. theatr. 989, cop.*  
*from*

*Spina solstitialis. Lcb. adv. 372, which repr. in ic.*  
*ii. 12. Bauh. J. iii. pars i. 90. Raii hist. i. 317.*  
*Dod. 722, cop. in*

*Carduus solstitialis Dodonaeo. Park. theatr. 989,*  
*abr. in*

*Yellow Thistle. Pet. herb. t. 21. f. 12, & repr.*  
*in*

*Carduus solstitialis. Ger. by Johns. 1166. Raii*  
*eur. 86. In Italy, and the south of France.*

(*Carduus stellatus mitior apulus, Spina solstitialis*  
*altera. Col. ephr. i. 30, is described as having*  
*the lobes of the leaves rounded, and the spines of*  
*the involucra compound.*

*Spina solstitialis mitior apula. Col. ephr. i. t. 31.*  
*Lobes of the leaves rounded, and spines of the*  
*involucra compound. The descr. cop. in*

*Carduus solstitialis mitior apulus. Raii hist. i. 317;*  
*eur. 86, who justly considers Columnas plant as a*  
*distinct species.)*

*Involucra ovate. Bracteae ovate, spinose at the*  
*end; innermost scarious and lacerate at the end; spines*  
*3; middlemost rigid, pungent, patent, attenuate, as*  
*long as the bractea and the involucrum; lateral spines*  
*horizontally divaricate, 3 and 4 times shorter than the*  
*intermediate one. Seeds oblongo-turbinate, smooth,*  
*glabrous, slightly gibbous on the outer side, nearly*

straight on the inner side, with an indentation just above the base. *Pappus* setose, erect, half as long as the seed, white, tawny at the base; *setae* scabrous; *aculei* very short, patulous. *Obs.* 8198.

*Native* of Italy, France, Germany, Kent, Gloucestershire, and Norfolk.

*CALCITRAPA.* *Dale* 107.

6. *Pappus* setose. *Bracteae of the involucra spinose.*  
*Spines compound.*

8. *CENTAUREA benedicta*. Involucra lanate, surrounded by floral leaves. Leaves semidecurrent, denticulato-spinose. *L.* sp. 1296. *Hort. kew.* iii. 264. *Woodv.* i. 119. t. 42, cop. in *Thornl.* t. 725. *Asso n.* 869.

*Cnicus benedictus.* *Gaertn.* ii. 385. t. 162.

*Cnicus sylvestris hirsutior*, sive *Carduus benedictus*. *Boerh.* i. 140.

*Cnicus*, sive *Carduus benedictus ex Chio*. *Boerh.* i. 140.

*Atractylis hirsutior*. *Fuchs.* 128. c. 42, cop. in *Carduus benedictus*. *Bauh. hist.* iii. pars i. 77, & *Trag.* 862. *Dod.* 725, repr. in *Lob. obs.* 484; ic. ii. 13, & *Ger.* by *Johns.* 1171. *Park. par.* 530; t. 531. f. 4. *Dalech.* 1450. *Cam. epit.* 562. *Tab. ic.* 689. *Blackw.* t. 476.

*Pappus* spinose; spines of 2 lengths, in 2 rows, the outer  $1\frac{1}{2}$  as long as the seed; the inner somewhat longer than the breadth of the seed. *Obs.* 8840: Specimen gathered in the Paris garden.

*CENTAUREA benedicta*. *Herb.* *Pharm. edin.* — *Lew. disp.* by *Dunc.* 183. *Murr. J.* i. 190. *Pears.* i. 174; ed. ii. 369.

**Carduus benedictus.** Blessed Thistle. Herb.  
*Pharm. lond.*—*Berg.* ii. 701. *Carth.* ii. 337. 351.  
*Chalm.* i. 86. 186. *Chom.* 270. *Cull.* ii. 76. *Dale*  
 106. *Darw.* ii. 711. *Fordyce, G. pract.* 159;  
*Feb.* ii. 83; *W. fav.* 154. *Geoffr.* iii. 258. *Heb.*  
 51. 302. *Herm.* 312. 528. *Hill* 353. *Linn.* 229.  
*Mill.* *Jos.* 114. *Mönro* iii. 47. *Murr.* i. 96.  
*Neum.* ii. 131. *Ploucq. bibl.* i. 233. *Quar. anim.*  
 189. *Rutty* 97. *Schoepf* 127. *Schrod.* 555. *Selig.*  
 account from *in ann. med.* iv. 268, & *phys. journ.*  
 vi. 370. *Spielm.* 204. *Stoll med.* ii. 320. *Vog.* 57:  
 159. *Wintr. in Mead mon.* i. 253.

**Carduus.** *Alst.* ii. 99. *Lew.* i. 282.

7. *Pappus not examined. Bracteae of the involucra unarmed; margin entire.*

- i). **CENTAUREA Centaurium:** Bracteae of the involucra ovate. Leaves pinnate; folioles decurrent, serrate. *L. sp.* 1287. *Hort. kew.* iii. 257.  
*Centaurium majus;* folio in lacinias plures divisor. *Boerh.* i. 144.  
*Centaurium magnum;* *Cam. epit.* 425. *Raii hist.* i. 329. *Dod.* 332, repr. in *Ger. by Johns.* 546; and  
*Centaurium majus I vulgare.* *Clus. hist.* ii. 10, cop. in  
*Centaurium majus vulgare;* *Park. theatr.* 466, and repr. in  
*Centaurium majus.* *Lob. obs.* 409, & ic. i. 712. *Dalech.* ii. 1287. *Blackw. t.* 93.  
*Centaurium majus juglandis folio.* *Bauh. J.* iii. pars i. 58.

*Centaurium majus*, vulgo *Rhaponticum*. *Tab. ic.*  
779.

*Native of Apulia, and Monte Baldo in the territory  
of Verona.*

*CENTAURIUM majus*. *Boerh.* i. 202. *Dale*  
10S. *Geoffr.* iii. 273. *Lew.* i. 312; *disp. by Rother.*  
135. *Mill. Jos.* 125.

*Centaurium majus*, folio in plures lacinias diviso.  
*Chom.* 503.

*Rhaponticum vulgare*. *Schrod.* 662.

10. *CENTAUREA ruthenica*. Bracteae of the involucra ovate, obtuse. Leaves pinnate, glabrous; folioles serrate, decurrent, the terminal one oblongo-ovate; teeth cartilaginous, acute. *L. a Willd.* iii. 2281. *Lam.*

*CENTAUREA squamis* ovatis, foliis pinnatis, foliolis decurrentibus linearibus serratis integris. *Gmel. sib.* ii. 89. *t. 41*; *account from in ph. tr. abr. by Hull.* x. 355.

8. *Pappus not examined. Bracteae of the involucra dry, scariose; margin entire.* From *L.* & *L. a Willd.*

11. *CENTAUREA Behen*. Radical leaves lyrate; lobes opposite; caudine leaves amplexicaul. *L. sp.* 1292.

*Jacea. Rauw. by Staph.* 231.

*Behmen abiad arabum. Dalech. app.* 35, *cop. in*

*Behmen abiad. Park. theatr.* 1572, &

*BEHEN album. Bauh. J.* iii. pars i. 36.—*Dale* 84. 418. *Geoffr.* ii. 18. *Linn.* 229. *Murr.* i. 94. *Vog.* 233.

POLYGAMIA  
NECESSARIA.

815. POLYMNIA.

*Receptacle* paleaceous. *Pappus* none. *Involucra* double; outer with 4 and 5 bracteae; inner with 10 concave bracteae. *From L.*

1. **POLYMNIA abyssinica.** Leaves opposite, sessile, oblongo-lanceolate. Involucra quinquepartite. All the flowers fertile. *Hort. kew.* iii. 269. *L. fil. suppl.* 383.

*NUK.* *Murray's life of Bruce* 461. t. 15, marked vol. VII. n. 52.

2. **POLYMNIA Uvedalia.** Leaves opposite, trilobate, acute, decurrent along the petiole; lobes angulososinuate. *From L. a Willd.* iii. 2335, & sp. 1303. *Hort. kew.* iii. 268.

*Osteospermum.* *Gron. virg.* 133.

*Chrysanthemum angulosis platani foliis, virginianum.*

*Pluk. alm.* 99; *phyt. t.* 83. f. 3.

*Chrysanthemum perenne virginianum majus, platani orientalis folio.* *Hist. ox. s.* 6. t. 7. f. 55.

**CHRYSANTHEMUM** *platani foliis.* *Clayt. in ph. tr. abr.* by *Hutt.* viii. 333.

## 816. CALENDULA.

*Receptacle* naked. *Seeds* of the radius and disc of different shapes. *Obs. 47.* *L.*

1. CALENDULA *officinalis*. Seeds muricate, incurvate. Leaves dentate at the margin, oblongo-lanceolate; lower spatulate. *Obs. 6079.* In a garden where it propagates itself.—*L. sp.* 1304. *Gaertn.* ii. 421. *t.* 168. *Willd. ber.* 279. In gardens.—*Hort. kew.* iii. 270. *Mill. Ph. dict. n. 3.* *Roth germ.* i. 373. In kitchen gardens and on rubbish; ii. *pars* ii. 369.

Caltha *vulgaris*, flore rufo. *Boerh.* i. 113.

*C. sativa.* *Magn. hort.* 38. *Tab. ic.* 334. *Raii hist.* i. 337.

Caltha. *Matth.* 1302. *Cam. epit.* 918. *Fuchs.* 378. c. 144, *cop. in*

Caltha flore simplici. *Bauh. J.* iii. *pars* i. 101, virtues inserted under *Caltha minima*,) & in

Calendula. *Trag.* 145. *L. ups.* 274  $\beta$ . *Blackw. t.* 106. *Park. par.* 296. *t.* 297. *f.* 3. Root mostly perishing, but in some places abiding.—*Dod.* 254, *repr. in*

Chrysanthemum. *Lob. obs.* 298; *ic.* i. 552, &

*C. simplici* flore. *Ger. by Johns.* 739.

Caltha poetarum. *Dalech.* 811.

Ringelblum. *Brunsf.* i. 251.

*Root* annual and perennial. *Park.*—sometimes continuing 7 years and perhaps longer. *Dr. Jon.* *R. Stokes.*—*Involuta*, bracteae nearly equal, subulato-lanceolate, in 2 rows; those of the outer row

somewhat broader, incumbent. *Anthodia*  $1\frac{1}{4}$  inch broad. *Corollae* orangecoloured; ligulate corollae female and fertile; tubular corollae hermaphrodite, barren. *Germen* of the ligulate flowers gibbous, containing the embryo of a kernel; that of the tubular florets, terete, not containing the embryo of a kernel, as broad as the tube of the corolla. *Style* of the ligulate florets half as long again as the germen, bifid; that of the tubular florets as long as the corolla. *Stigmata* of the ligulate florets 2, filiform. *Stigma* of the tubular florets oval, half as broad again as the style, with 2 acute points at the end. *Seeds* imbricate, some of the 2 outer rows terete, rostrate and longer than the rest, others oval, as broad again as the others, concave on the inner side, with inflected margins. *Obs.* 6079.

*Native place of growth unknown.*

**CALENDULA.** *Pharm. austriaco-prov.* 25.—  
*Berg.* 704. *Carth.* iii. 174. *Dale* 94. *Herm.* 600.  
*Krock.* ii. n. 1470. *Lew.* i. 253; *disp. by Rother.*  
 122; *by Dunc.* 340. *Linn.* 230. *Mill. Jos* 104.  
*Murr.* i. 174. *Rutty* 80. *Spielm.* 203. *Vog.* 143.

**C. officinalis.** *Bry.* 146.

**C. hortensis.** *Geoffr.* iii. 243.

**Caltha.** *Alst.* ii. 97. *Schrod.* 552.

**Caltha vulgaris, flore pallido.** *Chom.* 164.

2. **CALENDULA arvensis.** Seeds muricate, incurvate. Leaves dentate at the margin, oblongo-lanceolate.  
*Obs.* 6075. Specimen gathered in Fothergill's garden.—*L.* sp. 1303. *Gaertn.* ii. 421. *t.* 168. *Host austr.* 478. In Friuli and Littorali, in corn fields and vineyards.—*Retz. scand.* n. 1057. In cultivated places and on rubbish.—*Mill. Ph. dict.*

*n.* 1. The root perisheth soon after the seeds are ripe.—*Poll.* ii. *n.* 829. In vineyards.—*Willd. ber.* *n.* 853. In corn fields.—*Bot. arr. ed. IV.* iii. 729. Found by Mr. Robson on the hills of ballast at Sunderland, and by Withering in Falmouth harbour.—*Tab. ic.* 335.

*C. officinalis.* *L. suec.* *n.* 777. On the side of a high road in Upland—*Gou. hort.* 462. In corn fields, near Montpelier, evergreen and always in flower; *monsp.* 378  $\alpha$ . *Asso n.* 875. In corn fields.

*Calendula. Dalib.* 268.

*C. minor arvensis.* *Magn. hort.* 38.

*Caltha arvensis.* *Tourn. paris.* 182. In vineyards.—*Vaill. paris.* 26. *Magn. monsp.* 44. In corn fields.—*Boerh. i.* 113. *Raii hist. i.* 338; *eur.* 81. About Leghorn, Montpelier, and other places.

*Caltha officinalis.* *Scop. carn. n.* 1040. Found by Mygind in Istria,

*Caltha minima.* *Bauh. J.* iii. *pars i.* 103.

*Involucra*, outer bracteae somewhat broader, incumbent,  $2\frac{1}{2}$  tenths of a inch long. *Corollae*, the ligulate ones of the same colour with the tubular ones,  $3\frac{1}{2}$  tenths of an inch long. *Seeds*, outer mostly terete, muricate on the outer side, sometimes oval, concave on the inner side; mucrones patent, equal in length to the breadth of the seeds, in transverse lines.

*Obs.* 6075.

*Native* of the continent of Europe from Spain and Italy to Sweden, and imported into England with ballast.

*CALENDULA arvensis.* *Chom.* 165; *suppl.* 55.  
*Murr. i.* 174.

*C. sylvestris.* *Geoffr.* iii. 244.  
*C. sive Caltha.* *Dale* 94.

## 817. PARTHENIUM.

*Receptacle* paleaceous. *Pappus* paleaceous and none. *Lamina* of the ligulate *corolla* shorter than the germen. *Obs. 8405.* *L. a Willd.* *L.*

1. PARTHENIUM *pinnatifidum*.—Leaves bipinnatifid. *Willd.*

P. *Hysterophorus*. *L. a Willd.* iii. 2385; *sp. 1402.*  
*Hort. kew.* iii. 345.

*Matricaria americana*, *ambrosiae folio*, *parvo flore albo*. *Boerh.* i. 111.

*Absinthium erysimi folio*. *Pluk. alm.* 2.

*Matricariae Achoavan dictae similis*, *erysimi foliis*,  
*absinthii sapore*, *jamaicensis*. *Pluk. phyt. t.* 45.  
*f. 3.*

*Involucra*, bracteac oblongo-oval, concave. *Corollae* of the radius infundibuliform, oblique; lamina emarginate, half as long as the germen. *Germen* obovate, crowned with 2 semiovate paleae. *Corollae* of the disc tubular, barren; 2 attached to the inner side of each corolla of the radius, and being separated appearing connected by a thread, which is a marginal costa readily parting from the body of the germen. *Obs. 8405.*

PARTHENIUM. *Browne* 340.

## 818. TUSSILAGO.

*Receptacle* naked. *Pappus* pilose. *Anthodia* radiate and discoid. *Obs. 4637, 5444.* *L.*

1. *Anthodia discoid.*

I. TUSSILAGO *Petasites*. Scapus racemose. Leaves subrotundo-cordate, pubescent underneath; margin dentate. *Obs.* 8054. On the side of a brook in Dronfield in Derbyshire.—*Obs.* 5634. Specimen in flower gathered by Mr. Williams at Ashford in Derbyshire.—*Scop. carn.* ii. n. 1058, regarding this & *T. alba* and *frigida* as variations of one species.—*L. a Willd.* iii. 1971. *Hoppe*.

**PETASITES.** *Pharm. austriaco-prov.* 55.—*Alst.* i. 491. *Berg.* ii. 679. *Carth.* iv. 133. *Dale* 86. *Geoffr. suite* i. 373. *Herm.* 52. *Home, F. clin.* 54. *Krock.* ii. n. 1389. *Lew.* ii. 210; *disp.* 198. *Linn.* 222. *Mill. Jos.* 340. *Murr.* i. 138. *Rutty* 385. *Schrod.* 645. *Spielm.* 224. *Vog.* 203.

*P. major et vulgaris.* *Chom.* 287.

ꝝ *breviscapa*. (Variation.) Female flowers none and few. Involucra as long as the pappus. *Obs.* 8054.

*T. Petasites.* *L. sp.* 1215; *suec. n.* 746. *Curt. lond.* ii. 59. *t.* 134; *mat. med.* *t.* 19. *Fl. dan.* *t.* 842. *Bot. arr.* ii. 906. *Smith engl.* *t.* 431; *brit.* 880. *Host austr.* 457.

*Petasites major et vulgaris.* *Vaill. paris.* 159. *Boerh.* i. 118. In Holland.

*Petasites flore albo.* *Besl. hort. hyem.* fol. 5.]

*T. major.* *Cam. epit.* 592. *Matth.* 845.

*Petasites magnus.* *Dalech.* i. 1053.

*Petasites vulgaris rubens, rotundiori folio.* *Bauh. J.* iii. 566, *cop. from*

*Petasites.* *Fuchs.* 614. c. 249, *which cop. in Trag.* 415, *which repr. in Cord. fol.* 123. p. 1. *Raii hist.*

i. 260; syn. 179. Blackw. t. 222. Dod. 587, repr. in Lob. obs. 321; ic. i. 591, and Ger. by Johns. 814, and the plant without scapus cop. in Petasites vulgaris. Park. theatr. 419.

*Racemus* ovate. *Anthodia* obconic, flat at the top. *Involucra*, bracteae lauceolato-oblong, to  $2\frac{3}{4}$  and 3 tenths of an inch long. *Flowers*, the hermaphrodite about 42, 3 and  $4\frac{1}{2}$  tenths of an inch long; the female 3, at different distances in the circumference. *Corolla* of the female flowers tubular; mouth quinquefid, oblique; segments erect, unequal. *Antherae* united, white with a purple streak along the middle. *Pollen* white, globular, coherent, carried up by the protruding stigmata. *Stigma* of the female flowers bifid and in one instance trifid, microscopically pubescent; segments adpressed; that of the hermaphrodite flowers oval, twice as thick as the style, semibifid, pubescent below; segments ovate, patulous, glabrous. *Obs.* 8054.—*Flowers* hermaphrodite. *Antherae* crimson and purple. *Stigma* semiibifid; segments adpressed. *Obs.* 5635. Gathered by Mr. Williams on limestone at Ashford in Derbyshire, where it grew with  $\beta$

$\beta$  *elongata*. Hermaphrodite flowers 1 to 3. *Involucra* shorter than the pappus. *Obs.* 5634. 5446. Specimen in fruit gathered in the Utrecht garden.

*T. hybrida*. L. sp. 1214. Bot. arr. ii. 906; iii. 489. *Host austr.* 437. Smith engl. t. 430. Leaf not coloured; brit. 879, who conjectured it to be the female of  $\alpha$ .

*Petasites major*, floribus pediculis longis insidentibus.

Dill. ap. Raii syn. 179. Found by Bobart; hort. 309. t. 230. f. 297. Deering nottinghamsh. 90. In the mill yard at Lenton in the road to Wollaton.

Petasites. *Besl. hort. hyem. fol. 5.*

*Seed* oblong, terete, striate, glabrous, rufous, the only one found in several anthodia. I am inclined to believe that this is the same plant with *T. Petasites* differing only in the flowers being female to the almost total exclusion of hermaphrodite flowers, whereas in *T. Petasites* the latter prevail sometimes to the entire exclusion of female flowers. *Obs.* 1269. Specimen in Withering's herbarium. 4 Nov. 1777.—*Racemus* when in flower ovate, compact, when going out of flower oblong. *Peduncles* with 1 anthodium, the lower sometimes with 2 and 3. *Anthodia* ovate. *Involucra*, bracteae oblong, the largest  $1\frac{1}{2}$  tenth of an inch long. *Hermaphrodite flowers* in the center of the anthodia,  $1\frac{3}{4}$  tenth of an inch long. *Antherae* distinct, without pollen. *Female flowers*  $1\frac{1}{2}$  tenth of an inch long. *Corollae* tubular; mouth oblique, quinquedentate. *Style* longer than the corolla, emarginato-semibifid. *Stigma* just thicker than the style, obsoletely semibifid. *Pappus* sessile, extending  $\frac{3}{4}$  tenth of an inch beyond the involucrum. *Obs.* 5634. 5446.—*Stems* after flowering 2 feet long, when they die, without producing perfect seeds. *Obs.* 5675. In different places on the banks of the Eber and Rother near Chesterfield.

*Native* of Germany, Holland, Oxfordshire, Leicestershire, Derbyshire, and Lancashire.

## 2. *Anthodia discoid & radiate.*

2. TUSSILAGO *Anandria*. Scapus with 1 anthodium, bracteate, erect. Leaves lyrato-ovate. *L.* a Murr. 755; sp. 1213; mant. 469.

*TUSSILAGO Anandria.* *Lour.* ii. 614.

- ✉ discoidea.* (Variation.) Anthodia discoid. From  
*T. scapo unifloro, calyce clauso.* *L. ups.* 259. *t. 3.*  
*f. 1.* *Gmel. sib.* ii. 141. *t. 68. f. 1.*  
*T. Anandria.* *L. a Willd.* iii. 1962.  
*Anandria.* *L. am.* i. 161.
- ✉ radiata.* (Variation.) Anthodia radiate. From  
*T. scapo unifloro, calyce clauso.* *L. ups.* 259. *t. 3.*  
*f. 2.*  
*T. lyrata.* *L. a Willd.* iii. 1963, from  
*T. scapo unifloro, calyce subaperto.* *Gmel. sib.* ii.  
*143. t. 67. f. 2.*

- 3. TUSSILAGO nutans.** Scapus with 1 anthodium,  
without bracteae. Anthodium nodding. Leaves  
lyrate, obtuse. *L. sp.* 1213. *Swartz. obs.* 305.  
*Dens leonis folio subtus incano, flore purpureo.*  
*Sloane cat.* 123; *hist.* i. 255. *t. 150. f. 2.*  
*Aster primulae veris folio, flore singulari purpureo.*  
*Plum. spec.* 14; *ic. t. 41. f. 1.*  
*Leaves oblong, crenate above, sinuate below. Li-*  
*gulate corollae very narrow, bidentate at the end.*  
*Pappus sessile.* *Obs.* 5445. Specimen gathered by  
Broughton in Jamaica.
- LEONTODON.** *Browne* 310.

### 3. *Anthodia radiate.*

- 4. TUSSILAGO Farfara.** Leaves subcordate, angu-  
lar, denticulate. Scapus imbricate. *Obs.* 4637.  
On the refuse of limepits.—*L. succ.* n. 743; *sp.*  
1214. *Bot. arr.* ii. 904. *Fl. dan.* *t. 595. Curt.*  
*lond.* ii. 60. *t. Walc.* *t. Gaertn.* ii. 447. *t. 170.*  
*Smith engl.* *t. 429. Woodv.* i. 37. *t. 13. Thornt.*

*t.* 710. Bracteae of the scapus represented as patulous.

Bechium, sive Farfara. *Dod.* 586, *repr. in* :

Tussilago. *Lob. obs.* 320; *ic. i.* 589, *and Ger. by Johns.* 811, & *cop. in Park. theatr.* 1220. *Plin. l.* 16. *c. 6. Math.* 844. *Blackw. t.* 204. *Cam. epit.* 590. 591. *Dalech.* 1051. *Raii hist. i.* 259; *syn.* 173. *Fuchs.* 147, *cop. in Bauh. J. iii.* 563, &

Ungula caballina. *Trag.* 418, *which repr. in Bechion.* *Cord. fol.* 93. *p. 2.*

Tussilago vulgaris. *Tourn. paris.* 235. *Vaill. paris.* 197. *Boeh.* i. 101. In Holland.

Native of Europe from Italy to Sweden.

**TUSSILAGO.** Coltsfoot. Herb. *Pharm. lond.* & *noviss.* — *Alst.* i. 531. *Berg.* ii. 677. *Carth.* iv. 107. *Cull.* ii. 459; *clin.* 293. *Dale* 86. *Fuller,* *F. gymn.* 82. *Geoffr.* iii. 253. *Herm.* 161. 551. *Hufeland,* account from *in med. rev.* ii. 456. *Lew.* ii. 442. *Linn.* 222. *Mill.* *Jos.* 444. *Monro* iv. 24. *Rutty* 529. *Schrod.* 695. *Spielm.* 468. *Vog.* 88.

Farfara, *Berg.* ii. 677. *Krock.* ii. *n.* 1385. *Linn.* 222. *Murr.* i. 139. *Vog.* 196.

T. Farsara. Leaves. Flowers. *Pharm. edin.* — *Lew. disp. by Dunc.* 320. *Lour.* ii. 614. *Pears. R. ed.* ii. 303.

Coltsfoot. *Cull. pract. n.* 1755. *Perciv. T. i.* 421.

## 819. SPHAERANTHUS.

Receptacle naked. Pappus none. Corollae of the radius tubular, trifid. From L.

1. SPHAERANTHUS *indicus*. Leaves lanceolate, decurrent, serrate, glabrous. Wings of the stem and peduncles serrate. *From L. a Willd.* iii. 2394; *a Murr.* 797; *sp.* 1314. *Hort. kew.* i. 281. *Gaertn.* ii. 413. *t.* 164.  
Sphaeranthos purpurea alata serrata. *Burm. J. zeyl.* 220. *t.* 94. *f.* 3.  
Scabiosa indica major, caule et pediculis foliosis. *Pluk. phyt.* *t.* 312. *f.* 6.  
*ADACA-MANJEN.* *Rheede* x. 85. *t.* 43.
2. SPHAERANTHUS *cochinchinensis*. Leaves oblong, decurrent, entire at the margin. Heads cordato-ovate, nearly sessile, terminal. *From Lour.* ii. 623.

## Class 20.

## G Y N A N D R I A.

## Order 1.

## M O N A N D R I A.

1. *Corolla monopetalous.*

820. CERAIA.      *Corolla quinquefid.*    *Nectarium multifid.*    *From Lour.*

2. *Corolla mostly hexapetalous.*

821. ORCHIS.      *Petals 6;* lowermost calcarate.  
                        *Pollen in 2 clubshaped masses.*

822. EPIPACTIS.      *Petals 6.*    *Anthera inserted into the posterior side of the style.*

823. CYMBIDIUM.      *Petals 6 & 5.*    *Anthera deciduous.*

824. ONCIDIUM.      *Petals 5 and 6;* lowermost with 2 tubercles.    *Anthera deciduous.*

825. VANILLA.      *Petals 6.*    *Anthera deciduous.*  
                        *Seeds naked.*

## MONANDRIA.

## 820. CERAIA.

*Corolla quinquefid*; tube subulate, inflected. *Nectarium* multifid, closed within. *Lour.*

1. CERAIA. *simplicissima*. *Lour.* ii. 633.

## 821. ORCHIS.

*Petals* 6, lowermost with a spur from the base. *Filament* none. *Anthera* growing to the anterior side of the style. *Pollen* in 2 clubshaped masses composed of granules connected by elastic threads, the lower ends inserted into the point of the stigma. *Stigma* oblique, glutinous, between the anthera and lowermost petal. *Obs.* 5816. *Swarts in tracts* 124. *t. 2; occid.* iii. 1991. *L.*

I have called the contents of the antherae pollen, but I have not been able to discover what I could call true pollen in this and some other genera of Orchideae or in that of Asclepias, which latter genus though so clearly of the same natural order with the Apocynum, &c. is as distinct in its mode of generation from the greater part of the Contortae as the above mentioned genera are from the rest of the Orchideae.

1. *Bulbs undivided.*

1. ORCHIS *bifolia*. Lowermost petal linear; spur longer than the germen. Obs. 4875. On the Dawbuts a common covered with thickets between Glapwell and Skegby in Nottinghamshire, on limestone. 25 June.—*L. suec.* n. 793; sp. 1331; mant. 484. *Huds.* 382. *Lightf.* 512. *Bot. arr.* 967. *Curt. lond.* vi. 65. t. 425. *Smith. brit.* 918. *Honeck.* n. 114. *Fl. dan.* t. 235, cop. in *Satyrium officinale*, sive *O. bifolia*. *Blackw.* t. 588. *O. radicibus oblongis*, labello linear. *Hall. hist.* n. 1285. t. 35. f. 2 at ii. 148.
- SALEP.* *Cull.* i. 289.
- Satyrium.* *Berg.* 713. *Carth.* i. 276. *Dale* 254. *Linn.* 233. *Murr.* v. 292. *Vog.* 225.
- « *oblonga*. (Variation.) Leaves elliptic and oblong. Obs. 4603. In Clifly wood near Hanley-castle in Worcestershire, on marle. 16 June.—*Bot. arr.* ii. 967. *Walc. t.* *Smith engl.* t. 22. Leaves not coloured though green would have set off the white corollae.
- O. Serapias primus.* *Dod.* 237, cop. in *Dalech.* 1554, & repr. in *Testiculus vulpinus primus.* *Lob. obs.* 88; *ic.* i. 178, &
- Testiculus psycodes.* *Ger. by Johns.* 211, & cop. in *O. major sphegodes*, sive *Testiculus vulpinus primus.* *Park. theatr.* 1351.
- O. Serapias bifolia vel trifolia minor.* *Raii cat.* 227.
- O. alba calcari oblongo.* *Raii syn. ed.* i. 172.

**O.** hermaphroditica bifolia. *Raii syn.* 380, as evident from the descr. but the synonyms belong to  $\beta$

**O.** alba bifolia minor, calcari oblongo. *Tourn. paris.* 121. *Vaill. paris.* 151. n. 19. t. 30. f. 7.

**O.** trifolia major. *Vaill. paris.* 151 seems by the author to be intended only to express the most common var. of n. 19.

*Stem* from 1 to  $1\frac{1}{2}$  foot long. *Petals*, the lowermost 6 tenths of an inch long. *Stamen* 1, united with the stigma. *Anthera* sessile, yellowish green, adhering to the posterior side of the stigma; cells divaricate being extended along the margin of the stigma, thin. *Pollen* in 2 clubshaped masses, granular; granules cylindrical, strawcoloured, connected by fine elastic threads ending anteriorly in a yellow pedicle, terminated by a peltate tubercle, which lies upon the lateral angles of the stigma. *Style* extremely short. *Stigma* crescentshaped, with an angle in the posterior margin, the lateral angles curved anteriorly so as to be widely distant. *Obs.* 4603.

$\beta$  *lanceolata*. (Variation.) Leaves lanceolate and oblongo-lanceolate. *Obs.* 4875.

*Satyrium trifolium*. *Fuchs.* 675. c. 270, cop. in

**O.** alba calcari longo. *Bauh. J.* ii. 771.

**O.** hermaphroditica secunda. *Lob. obs.* 93, repr. in *ic.* i. 178, &

**O.** hermaphroditica. *Ger. by Johns.* 211, & cop. in *Dalech.* 1560,

**O.** *Serapias* bifolia vel trifolia minor. *Park. theatr.* 1350, &

**O.** hermaphroditica bifolia. *Bauh. J.* ii. 772.

Testiculi III species. *Dalech.* 1551, inner fig.

Culices minores triphyllae. *Lob. ic. i.* 179, *cop. in*  
Orchides culices minores, triphyllae. *Bauh. J. ii.*

772, & *repr. in*

O. trifolia minor. *Gor. by Johns.* 217. *Vaill. paris.*  
151.

Testiculus vulpis. *Dalech.* 1556.

O. alba bifolia minor, calcari oblongo. *Raii syn.*  
380, as evident from the descr. but the synonyms  
belong to a

Stem 6 inches to a foot long. Petals, 3 outer  
whitish; uppermost ovate, obtuse; 3 inner pale green;  
lowermost as long as the german, from  $3\frac{1}{2}$  to 4 tenths  
of an inch long; spur twice as long as the german.  
*Obs. 4875.*—Stem to 21 inches long. Petals, lower-  
most to 6 tenths of an inch long. *Obs. 6660.* In  
Langwith woods near Houghton in Derbyshire. 2  
July.

2. ORCHIS Morio. Lowermost petal cuneiform, se-  
mitrifid; middlemost segment retuse; lateral seg-  
ments crenate; spur ascending. Upper petals ob-  
tuse, connivent. *Obs. 2508.* In a meadow.—*L.*  
*succ. n. 794; sp. 1333; mant. 485. Bot. arr. 970.*  
*Curt. lond. iii. 59. t. 174. Fl. dan. t. 253. Walc.*  
*t. Huds. 383. Lightf. 514. Honck. n. 119.*

O. radicibus subrotundis, galeae petalis lineatis, la-  
bello trifido crenato, medio segmento emarginato.  
*Hall. hist. n. 1282. t. 33. f. 2, at ii. 144.*

Triorchis Serapias mas. *Fuchs.* 559, *fol. cop. in*  
541, *Dalech.* 1554, &

O. minor purpurea et aliorum colorum cum aliis  
virentibus, *Bauh. J. ii.* 761.

- Testiculus morionis semina. *Dod.* 286. *cop. in Dalech.* 1552, *repr. in Cynosorchis Morio semina.* *Lob. obs.* 88; *ic. i.* 176, & *Ger. by Johns.* 208, & *cop. in O. morio foemina.* *Park. theatr.* 1347. *Raii syn.* 377. *Tourn. paris.* 291. *Vaill.* 151. *t. 31. f. 13.* 14.
- (*O. palmata montana, calcaribus surrectis.* *Buxb.* iii. 4. *t. 5,* has sparse flowers.)
- O. n.* 1281. *Hall. hist.* ii. *t. 30. f. 1,* has the segments of the lower petal entire at the margin.)
- SALEP.** *Pharm. austriaco-prov.* 62.—*Berg.* 711. *Cull.* i. 288; *clin.* 395; *Lew. disp. by Dunc.* 345. *Linn.* 233. *Pringle* 284. *Quar. febr.* 42. 134; *anim.* 268.
- Salab.* *Vog.* 223. *Stoll. aph.* n. 579. 582. 809. 830.
- O. Morio.* *Coste & Willem. in med. comment.* v. 298. *Quar. febr.* 42. 286.
- Orchis.* *Herm.* 77.
- Satyrium foemina.* *Dale* 254. *Mill. Jos.* 397.
- Satyrium, seu Orchis.* *Schrod.* 675.
- Satyrium foemina.* *Rutty* 467.
- procero*. Stem taller. Flowers larger. From *O. morio foemina procero*, majori flore. *Tourn. paris.* 508. In the marshes of Bonnelles & St. Clair.—*Vaill. paris.* 150. *t. 31. f. 33. 34.*
- O. bulbis indivisis, nectarii labio quadrifido aequali crenulato, cornu obtuso.* *Dalib.* 272. a.
- (*O. minor angustifolius in suprema parte longis foliis.* *Bauh. J.* ii. 765, *cop. in O. angustifolia.* *Ger. by Johns.* 217, has the lower petal represented as trifid, the middle segment projecting beyond the lateral segments.)

## SERAPIAS. Dale 254.

3. ORCHIS *appendiculata*. Lowermost petal trifid, with 2 appendages at the base on the upper side.  
*Obs. 4605.* Specimens gathered near Worcester, in marl.

O. *pyramidalis*. *L. suec.* n. 798; sp. 1332. *Bot. arr.* ii. 969. *Smith engl.* t. 110, root and leaves not coloured; *brit.* 919. *Jacq. austr.* iii. t. 266. *Huds.* 383. In calcareous soil.

O. *radicibus subrotundis, spica densa, calcare longissimo, labello bicorni aequaliter tripartito.* *Hall. hist.* ii. 146. n. 1286. t. 35.

O. *purpurea spica congesta pyramidalis.* *Raii hist.* ii. 1215; *syn.* 377. t. 18. *Seg.* i. 129. t. 15. f. 11.

O. *militaris montana, spica rubente conglomerata.* *Vaill. paris.* 151. t. 31. f. 38. 39.

O. *parvo flore rubro sive phoeniceo.* *Bauh. J.* ii. 764. At Montbeliard.

*Tragorchis minor batavica.* *Ger. by Johns.* 210, cop. in

O. *batavica.* *Bauh. J.* ii. 764, &

*Tragorchis batavica Clusii.* *Park. theatr.* 1349, but is described in *J. Bauhine* as having a disagreeable scent.

Stem to 19 inches long, with many joints, leafy. Leaves, the lower conduplicate, and recurvate, the upper adpressed. Spike to  $2\frac{1}{2}$  inches long, oval, rather acute, imbricate. Corolla purplish pink; lower lip deflex; middle segment narrower. *Obs. 8121.*

*SALEP.* *Lew. by Dunc.* 345.

*O. pyramidalis.* *Coste & Willem. in med. comment.*  
v. 298.

4. ORCHIS *compressiflora*. Lowermost petal trifid; middlemost segment mostly semibifid with a tooth in the sinus; spur somewhat shorter than the germen. Lateral petals acute, bent back to back behind the uppermost petal. *Obs. 395.* In meadows.

*O. mascula.* *L. suec. n.* 795; *sp.* 1833. *Lightf.* 515. *Bot. arr.* ii. 971. *Smith brit.* 920; *engl. t.* 631. *Hornk.* n. 120. *Retz. obs.* i. n. 103. *Curt. lond.* iii. 62. *t.* 121. *Walc. t.* *Huds.* 383. *Swartz. in tracts* 211. *t.* 2. *Woodv.* ii. 246. *t.* 90, root and leaves uncoloured. (*Jacq. ic.* 17. *t.* 180; *misc.* ii. 375, is described as having leaves rough below.)

*O. radicibus subrotundis, petalis lateralibus reflexis,* labello trifido, segmento medio longiori bisido. *Hall. hist.* n. 1283. *t* 33, at *ii.* 144.

*SALEP.* *Blane* 303. *Cull.* i. 288. *Fritze, account from in phys. journ.* ix. 22. *Lew. disp. by Dunc.* 345. *Linn.* 233. *Mill. Jos.* 385. *Murr. v.* 278. *Perciv. T.* i. 285; ii. 176. 276.

*Saleb.* *Pharm. suec.*—*Bang in act. haun.* ii. 51.

*Salab.* *Carth.* i. 272. *Vog.* 223.

*Salop.* *Fordyce, W. fev.* 143.

*O. mascula.* *Bry.* 38. *Coste & Willem. account from in med. comment.* v. 298. *Murr. J.* i. 388. *Pears. R.* i. 56; *ed.* ii. 301.

*Satyrium mas.* *Dale* 254. *Mill. Jos.* 396.

*Satyrion mas.* *Rutty* 467.

*Orchis.* *Geoffr. suite* i. 261. *Herm.* 79. *Hill* 633.

Satyrium. *Spielm.* 464.

Satyrion. *Lew.* ii. 345.

maculata. Leaves spotted. Flowers purple. *Obs.* 395.

Satyrium mas. *Blackw.* t. 53.

Palmata major. *Seg.* ii. 25. t. 15. f. 6.

Testiculus moriorius mas. *Dod.* 236, repr. in

Cynosorchis Morio. *Lob. obs.* 87; *ic.* i. 176,

Cynosorchis Morio mas. *Ger. by Johns.* 208, & cop.  
in

O. Morio mas, foliis maculatis. *Park. theatr.* 1346.

*Raii hist.* ii. 1214; *syn.* 376. *Vaill. paris.* 150.  
t. 31. f. 11. 12.

Cynosorchis delphinia. *Lob. ic.* i. 174, repr. in

Cynosorchis maculata. *Ger. by Johns.* 206, & cop.  
in

O. Morio altera maculata. *Park. theatr.* 1346.

Cynosorchis delphinia, maculosis foliis, flore purpuro-  
violaceo. *Bauh. J.* ii. 760.

C. mas angustifolia. *Fuchs.* 555, *fol. ed. cop.* in  
538, & *init. in*

O. major tota purpurea, maculoso folio. *Bauh. J.*  
ii. 763.

Testiculus IV. *Cam. epit.* 624.

*Flowers* slightly compressed, the lateral petals being reflected back to back, and the sides of the lower petal reflex. *Petals*, the lowermost sometimes crenate sometimes entire at the margin; middle segment semibifid with a tooth in the sinus. *Anthera* bilocular; each cell containing a mass of pollen. *Pollen* before the flower is expanded slightly connected to the back of the cells of the anthera. *Obs.* 4739. *Petals* the lowermost semitrifid; segments obsoletely crenate; middlemost truncate. *Obs.* 5813. Specimen gathered in Worcestershire.

*Leaves* with purple spots. *Bracteae* purple. *Capsule* unilocular, trivalve, shining, purplish here and there, in some plants purple, shining, from shining convex points; receptacles of the seeds 3, inserted into the sides of the valves. *Obs.* 4883. On a common between Glapwell and Skegby in Nottinghamshire. 30 June.

*ORCHIS Morio mas foliis maculatis. Chom.* 323.

*β bicolor.* (Variation.) Lowermost petal and its spur white with a tinge of purple; the others pale purple. *Obs.* 7017. In a hedge near South Wingfield.

*O. mascula. Fl. dan. t. 457. Poll.* ii. 844.

*O. morio mas, foliis non maculatis. Vaill. paris.* 151, so far as the leaves concerned, but the flowers described as purple.

*O. foemina minor. Fuchs.* 539, *cop. in*

*O. major tota purpurea, non maculata. Bauh. J.* ii. 760.

*Ornithophora candida. Lob. ic. i. 183, repr. in*

*O. ornithophora candida. Ger. -by Johns.* 215, & *cop. in Bauh. J.* ii. 761, should seem to represent a variation with a corolla wholly white.

*Leaves without spots. Obs.* 7017.

5. *ORCHIS fusca.* Lowermost petal trifid; middlemost segment cuneiform, trifid; middlemost segment minute. *Obs.* 4608. Specimen from Prof. Jos. F. Jacquin.—*Jacq. austr.* iv. 4. *t.* 307. *Curt. lond.* vi. 64. *t.* 414.

*O. militaris. L. sp.* 1334 *β.* *Smith engl.* *t.* 16.

Root and radical leaves not coloured; *brit.* 923 *β*

*Q. militaris purpurea. Huds.* 384 *β* *Bot. arr.* 974 *β*

- O. radicibus subrotundis, spica longa, labello quadrifido, brachiolis angustis, crusculis latis serratis.  
*Hall.* n. 1276. t. 31.
- Orchis. *Tourn. inst.* t. 247. B.
- O. magna latis foliis, galea fusca vel nigricante.  
*Bauh. J.* ii. 759. *Dill ap. Raii. syn.* 378. t. 19.  
f. 2, at p. 379. Found by James Sherard at Northfleet near Gravesend in June.
- O. militaris major. *Vaill. paris.* 148. t. 31. f. 27.  
28.
- O. strateumatica, vel *Stratiotes major sive militaris.*  
*Lob. obs.* 92, *repr. in ic.* i. 184,
- O. strateumatica. *Ger. by Johns.* 215, & *cop. in Cynosorchis militaris, sive strateumatica major. Park. theatr.* 1344,
- O. stratenmatica major. *Bauh. J.* ii. 758, & *Dalech.* 1559.
- Cynosorchis prior. *Dod.* 234. (The sig. and its copies is O. conopsea.)
- Cynosorchis mas nostra. *Trag.* 779,
- Testiculus quartus roseo-candidus. *Trag.* 781. The deser. belonging to the preceding sig.
- Cynosorchis major latifolia. *Park. theatr.* 1343.
- (O. moravica. *Jacq. ic.* t. 182 appears to be a different species.)
- SALEP.* *Lew. disp. by Dunc.* 345. *Schreb. ap. Linn.* 233.
- O. militaris. *Coste and Willem. in med. comment.* v. 298.
- Satyrium, vel Orchis. *Cod. med. p. cv.—Dale* 254.
- Cynosorchis militaris major. *Chom.* 323.
- O. latisolia, seu major. *Geoffr. suite i.* 263.

6. ORCHIS *hircina*. Lowermost petal trisid; middle-most segment thrice as long as the lateral ones; spur oblong. *Obs.* 4602. Specimen gathered by Broussonett in France.—*Scop. carn.* n. 1113.  
*Satyrium hircinum.* *L.* sp. 1337. *Gou. hort.* 471.  
 Near Montpelier.—*Poll.* ii. n. 851. *Roth. germ.* i. 379. In Saxony.—*Jacq. austr.* iv. t. 367. *Bot. arr.* ii. 979. *Smith engl.* t. 34. Found by Lewin near Dartford in Kent.—*Hornck.* n. 137.  
*O. radicibus subrotundis, labello longissimo tripartito plicato.* *Hall. hist.* ii. 135. n. 1268. t. 25.  
*O. barbata, odore hirci, breviore latioreque folio.*  
*Seg.* ii. 121. t. 15. f. 1.  
*Tragorchis.* *Dod.* 237, repr. in  
*Testiculus hircinus.* *Lob. obs.* 88, &  
*Tragorchis maxima.* *Ger. by Johns.* 210, & cop.  
*in Park. theatr.* 1348.  
*Testiculus hircinus vulgaris, seu Tragorchis.* *Lob.*  
*obs.* 90, repr. in *ic.* i. 177,  
*Tragorchis mas.* *Ger. by Johns.* 210, & cop, in  
*Tragorchis vulgaris.* *Park. theatr.* 1348,  
*Orchis saurodes.* *Dalech.* 1553, &  
*Orchis barbata foetida.* *Bauh. J.* ii. 756. About  
 Montbeliard.—*Tourn. paris.* 122. *Vaill. paris.*  
 149. t. 30. f. 6. *Raii hist.* ii. 1212, found by  
 Bowles between Crayford and Dartford in Kent;  
*syn.* 376. Found by Rouse near Dartford.  
 Native of France, of Germany as far to the north as  
 Saxony, and of Kent.  
**TRAGORCHIS.** *Dale* 255.

2. *Bulbs divided.*

7. ORCHIS *fistulata*. Lowermost petal obsoletely tri-

lobate, the sides reflex; outer lateral petals patent backwards; inner lateral petals and uppermost petal connivent. Lower bractæ longer than the flowers. Stem fistular. *Obs.* 5816. In a moist meadow at Houghton near Mansfield.

*O. latifolia.* *L.* sp. 1334. *Bot. arr.* ii. 875. *Curt. lond.* v. 65. t. 250. *Fl. dan.* t. 266. *Honck. n.* 130. *Smith brit.* 924.

*O. radicibus palmatis, caule fistuloso, bracteis maximis, labello trifido serrato, medio segmento obtuso.* *Hall. hist. n.* 1279. *t. 32. at ii. 142.*

*O. palmata pratensis latifolia, longis calcaribus.* *Raii syn.* 380.

*Serapias palustris latifolia.* *Lobs: obs.* 91\*, *repr. in ic. i.* 190, *Ger. by Johns.* 222, *cop. in*

*O. palmata palustris latifolia.* *Park. theatr.* 1358,

*Cynosorchis palustris platyphylla.* *Dalech.* 1562,  
&

*Palmata, sive Serapias palustris latifolia, flore albo subpurpurascente.* *Bauh. J.* ii. 775. In the separate flower the artist has endeavoured to express the reflexion of the sides of the lowermost petal.

*O. palmata pratensis latifolia, longis calcaribus.* *Vaill. paris.* 152. *t. 31. f. 1. 2.* (I have not observed any flowers in which the lateral lobes of the lowermost petal were so large and which projected so far in proportion to the middle lobe as in f. 3, 4, and 5.)

*Serapias Dracontias palustris.* *Ger. by Johns.* 226, *cop. in*

*O. palmata palustris Dracontias.* *Park. theatr.* 1360,

*Cynosorchis Dracontias.* *Dalech.* 1563, &

*Palmata floribus impense rubris.* *Bauh. J.* ii. 777,

*O. palmata palustris, tota rubra.* *Dill. ap. Raii*  
*syn. 582.*

*Satyrium foemina.* *Blackw. t. 405.*

*Bulbs* bifid, segments bifid. *Stem* 9 to 17 inches long, fistular throughout. *Leaves* to 1 inch 2 tenths broad, yellowish green, with minute whitish dots on the upper surface along the lines of the leaves, none spotted, sheathing at the base. *Bracteae*, the upper as long as the flowers, with minute whitish dots on the upper surface. *Corolla* superior slightly compressed; lowermost petal rhomboid-ovate,  $2\frac{1}{2}$  tenths of an inch broad and long, marked with coloured lines inclosed in a coloured outline correspondent to the shape of the petal; obsoletely lobed; lobes rounded, obsoletely crenate; spur  $2\frac{3}{4}$  to 3 tenths of an inch long, scarcely sensibly emarginate at the end; outer lateral petals as long as the lowermost petal, oblongo-ovate, falcate; uppermost petal oblong; inner lateral petals similar in shape to the outer lateral petals but smaller and paler. *Stamen* 1, forming one substance with the style. *Anthera* terminal, oblique, purple; cells 2, parallel. *Pollen* in 2 clubshaped masses; granules angular, connected by elastic filaments ending in yellow peduncles terminated by peltate tubercles which are covered by the reflected point of the stigma. *Stigma* vertical, on the anterior side of the style, glutinous, orbicular below, above truncate with a projecting tubercle. *Obs.* 5816. 5820.

*SALEP.* *Lew. disp. by Dunc.* 345. *Perciv. T.*

i. 285. *Quar. anim.* 58. 85. 86. 92. 159. 167. 215.

219 to 221. 224. 225. 229. 300. 311; *febr.* 78.

*Und.* i. 342; iii. 137.

*O. latifolia.* *Coste & Willem. in med. comment.* v.

298.

O. palmata. *Dale* 255.

S. ORCHIS *maculata*. Lowermost petal semitrifid and trifid, nearly flat; outer lateral petals patent laterally; inner lateral petals and uppermost petal connivent. Stem solid and nearly so. *Obs.* 5824. In a boggy meadow.—*L. sp.* 1335. *Bot. arr.* ii. 976.

*SALEP.* *Lew. by Dunc.* 345.

O. *maculata*. *Coste & Willem. in med. comment.* v. 298.

Bulbs bifid trifid quadrifid and sexfid. *Bracteae*, the lower as long as and longer than the flowers, the upper shorter than the flowers. *Obs.* 4873. Plants gathered on a common covered with thickets, and also in boggy ground.

ꝝ *pulverulenta*. Lowermost petal semitrifid; middle segment scarcely longer than the lateral segments. Leaves with whitish dots. *Obs.* 5797.

*Satyrium basilicum* mas. *Dod.* 240, repr. in *Palma christi* mas. *Ger. by Johns.* 220, & cop. in O. *palmata major* mas, sive *Palma christi* mas. *Park. theatr.* 1356, &

*Palmata non maculata*. *Bauh. J.* ii. 774, the lowermost petal of the separate flower not well copied.

Bulbs bifid; segments bifid. *Bracteae*, the lower longer than the flowers, the upper as long as the flowers. Leaves above glabrous, not shining, underneath shining; dots just visible to the naked eye, disposed along the ribs and lines, when magnified scarose, and rising above the adjoining reticular compartments of the leaf. Corolla purplish rose-coloured; lowermost petal with obcordate purple lines; spur shorter than the germen. *Obs.* 5797.

*B subfistulata.* Lowermost petal semitrifid; middle-most segment as long as the lateral segments. Leaves with minute whitish dots on the upper surface, and blackish purple spots. Stem fistular in the middle. Obs. 5821. In a moist meadow at Houghton near Mansfield, amongst *O. latifolia* and the common varieties of *O. maculata*.

*O. palmata montana maculata.* *Tourn. paris.* 510.  
*Vaill. paris.* 153.

*Satyrium basilicum femina.* *Dod.* 240, *repr. in*  
*Palma christi foemina.* *Ger. by Johns.* 220, & *cop.*  
*in*

*O. palmata foemina*, sive *Palma christi foemina*,  
maculato folio. *Park. theatr.* 1857, &  
*Palmata maculata.* *Bauh. J.* ii. 775.

*Satyrium basilicum foemina.* *Fuchs.* 677. c. 271, *cop.*  
*in*

*O. foemina altera.* *Trag.* 781, which *repr. in*  
*Palma Christi.* *Cord. fol.* 130. p. 2, & *cop. in*  
*Palmata speciosiore thyrso*, folio maculato. *Bauh.*  
*J.* ii. 774. *Raii syn.* 381.

*Leaves*, dots in the upper leaves sprinkled equally,  
in the lower leaves disposed along the lines of the  
leaves. *Petals* fleshcoloured; the lowermost with  
oblong insular purple lines, flat, obreniform, semi-  
trifid, the middle segment narrower and rather longer  
than the lateral ones. Obs. 5821.—*Leaves* as those  
of ♂, except being marked with faint spots of a pur-  
plish black. Obs. 5798. With ♂

*γ acuminata.* Lowermost petal semitrifid; middle  
segment as long again as the lateral segments.  
Obs. 5799. In a moist meadow near Worcester.

*O. latifolia.* *Walc. t. Bot. arr.* ii. 976 β

*O. palmata pratensis*, *latifolia*, *longis calcaribus*, *flore*

suave rubente cum lituris purpureis. *Vaill. paris.*

152.

*O. palmata*, palustris, tertia, flore suave rubente cum lituris purpureis. *Tourn. paris.* 509.

*Serapias palustris leptophylla altera*. *Ger. by Johnn.* 226.

## 822. EPIPACTIS.

*Petals 6. Filament inserted into the posterior part of the style. Anthera inserted into the inner side of the filament below the end. Pollen in one mass.*  
*Obs. 6659. Swartz in tracts 159. t. 5. Hall: hist.*  
*ii. 147.*

### 1. Roots globular.

1. EPIPACTIS *bulbosa*.—Scapus sheathed. Spatha of 2 leaves. *L.*

*Arethusa radice globosa, scapo vaginato, spatha diphylla.* *Gron. virg.* 138.

*Helleborine mariana monanthos, flore longo purpurascente liliaceo.* *Pluk. mant.* 100; *phyt. t.* 348. *pl. 7.*

*ARETHUSA bulbosa.* *L. sp.* 1346. *H. K.* iii. 302. *Swartz. in tracts 159. Michaux* ii. 160.—*L. am.* iv. 518. *Schoepf* 130.

### 2. Roots terete, fasciculate. From Feu.

2. EPIPACTIS *diuretica*.—Lowermost petal oblong, rather obtuse. Scapus vaginate. Bracteae about as long as the flowers. Outer petals reflex. Spike secundose. Leaves linear. *Willd.*

*Neottia diuretica.* *L. a Willd.* iv. 73, from  
**EPIPACTIS** floribus uno versu dispositis, vulgo.  
*Nuil. Feu.* ii. 26. t. 17.

3. Roots branched.

3. **EPIPACTIS ovalifolia.** Lowermost petal bifid.  
 Leaves 2, oval. *Obs.* 6659. In Langwith woods  
 in Derbyshire. 29 June.
- E. ovata.** *Swartz in tract.* 162.
- Ophrys ovata.** *L. suec.* n. 808; sp. 1340. *Fl. dan.*  
 t. 137. *Scop. carn.* ii. n. 1132. *Curt. lond.* iii. 60.  
 t. 177. *Bot. arr.* ii. 986. *Smith brit.* 932; *engl.* t.  
 1548.
- E. foliis binis ovatis, labello bifido.** *Hall. hist.* ii.  
 n. 1291. t. 37.
- Ophris bifolia.** *Tourn. paris.* 29; *Vaill. paris.* 146.  
*Boerh.* ii. 153. In Holland.
- Ophris.** *Matth.* 1225. *Cam. epit.* 943. *Fuchs.*  
 546. c. 216, *imit. in*
- Bifolium.** *Trag.* 486, & *cop. in*
- Bifolium majus, sive Ophrys major quibusdam.**  
*Bauh. J.* iii. 533. *Raii syn.* 385.
- Pseugo-orchis, Bifolium.** *Dod.* 242, *cop. in*
- Bifolium sylvestre vulgare, seu Ophrys.** *Park.*  
*theatr.* 504, & *repr. in*
- Bifolium.** *Lob. obs.* 161, & *ic. i.* 302, the original  
 fig. (That pasted over it. & *repr. in*)
- Ophris bifolia.** *Ger. by Johns.* 403, & *cop. in Park.*  
*theatr.* 504, inner fig. has bracteae as long as the  
 germen.)
- Petals, 3 outer ovate, green; 2 inner linear, acute,  
 purplish brown, thrice as narrow as the outer;  
 lowermost as long again as the rest, yellowish green,*

spatulashaped, bifid, channelled at the base, with 2 obsolete connivent teeth above the channelled part, and an elevated line extending from between the teeth to the fissure; segments linear. *Stamen* 1; greenish, united to the posterior side of the style, forming with it one substance, which is somewhat shorter than the germen. *Filament* ovali-oblong, arched. *Anthera* bilocular, orbiculari-oval, depressed, horizontal, inserted into the inner side of the filament about the middle, withering, permanent; cells opening on the inner side, and before the expansion of the flower discharging the mass of pollen which is sometimes found loose between the anthera and the posterior side of the stigma, and sometimes adhering by its point to the point of the stigma, and apparently agglutinated to it. *Pollen* granular, strawcoloured yellow, in one mass; mass ovate, slightly elastic, bipartite; segments bifid; granules roundish, slightly angular, not apparently connected by any intermediate threads. *Obs.* 6659.—*Capsule* while yet green letting out the seeds at the sutures. *Bot. arr.* iii. p. cxxvii. Should not the seeds of this natural order be sown as soon as the capsules open?

*BITOLIUM*. Dale 255. Mill. Jos. 86;

*Ophrys*. Geoffr. suïte i. 255.

*Ophris bifolia*. Chom. 665.

### 823. CYMBIDIUM.

*Petals* 6 and 5. *Anthera* deciduous. *From Swartz in tracts 167. t. 6, & occid. iii. 1995.*

1. *CYMBIDIUM scriptum*. Leaves growing out of

the bulb, ovato-lanceolate, trinervose. Scapus multiflorous. Petals spotted. Swartz in tracts 172.

*Epidendrum scriptum.* L. sp. 1351.

*ANGRAECUM scriptum.* Rumph. vi. 95. t. 42.

### 824. ONCIDIUM.

*Petals 5 and 6; lowermost tuberclose at the base.*

*Anthera deciduous. From Swartz in tracts 180. t. 5, & occid. iii. 1996.*

1. *ONCIDIUM Cebolleta.* Leaf terete, subulate. Sca-  
pus simple, straight. Racemi pendulous, multi-  
florous. L. a Willd. iv. 113. Swartz in tracts 182.

*EPIDENDRUM Cebolleta.* Jacq. amer. 230.  
t. 131. f. 2, no fructifications; 8vo 295.

### 825. VANILLA.

*Petals 6. Anthera deciduous. Seeds naked, in a  
pulp. From Swartz. occid. iii. 1513. 1997; in  
tracts 187. t. 7, & Gaertn. i. 47. Plum.*

1. *VANILLA aromatica.* Leaves ovato-oblong, ner-  
vose. Capsules cylindric, very long. Swartz.  
occid. iii. 1518. 1997; in tracts 189. 214. t. 7. f.  
b. Capsule.

*Epidendrum Vanilla.* L. sp. 1347. Swartz. obs.  
324.

*Epidendrum solis ovato-oblongis nervosis sessilibus,  
cirrhis spiralibus.* Roy. 13.

*Epidendrum. Browne* 326.

*V. flore viridi et albo, fructu nigrescente. Plum.*  
*gen. 25. t. 28; ic. 183. t. 188.*

*Tlilxochitl. Hern.* 38. In fruit.

*Vanilla. Mer. sur.* 25. *t.*

*Volubilis siliquosa, plantaginis folio. Cat. app. t.*  
*7.*

*Vasillas piperis arbori jamaicensis innascens. Pluk.*  
*alm. 381; phyt. t. 320. f. 4. In fruit.*

*Lobus oblongus aromaticus. Clus. exot.* 72. No  
*fig.—Sloane cat.* 70.

*Volubilis siliquosa mexicana, foliis plantagineis. Raii*  
*hist. ii. 1330.*

*VANILLA. Pharm. austriaco-prov.* 73. *suec.—*  
*Berg.* 714. *Chom.* 449. *Geoffr.* ii. 360. *Lew.* ii.  
 446; *disp. by Dunc.* 341. *Linn.* 234. *Murr.* v.  
 297. *Ploucq. bibl.* i. 501. *Schoepf* 130. *Vog.*  
 268.

*Vanilia. Dale* 340.

*Vaniglia. Spielm.* 302.

*Vainiglia. Herm.* 300.

*Banilia. Mill. Jos.* 75.

*E. Vanilla. Bry.* 313. *Wright in med. journ.* viii.  
 253.

*Aracus aromaticus. Carth.* iii. 528.

22. *VANILLA clavicolata.* Leaves lanceolate, acute,  
 concave, recurvate, rigid. Capsules subelliptic.  
*Swartz. occid.* iii. 1515. 1997; *in tracts* 189. 214.  
*t. 7. f. a.* Flower.

*EPIDENDRUM claviculatum. Swartz. prodr.*  
 120.—*Wright in med. journ.* viii. 254.

*Class 21.***M O N O E C I A.***Order 1.***M O N A N D R I A.**1. *Flowers naked.*

826. **ZOSTERA.**      *Capsule monospermous.*  
 827. **ARUM.**      *Berry polyspermous. Filament and style none. Stigma villose. Obs. 8377.*  
 828. **CALLA.**      *Berry polyspermous. Filament permanent. Style 1. Stigma acute. Obs. 5306.*  
 829. **CALADIUM.**      *Berry polyspermous. Antherae peltate, multilocular.*

2. *Flowers intermixed with bracteae.*

830. **PLATANUS.**      *Seed 1, attenuate below, terminated by a permanent style. Male and female flowers in globular heads.*

3. *Flowers bracteate.*

831. MORELLA. *Drupe.* *Nut bilocular.* *From Lour.*

4. *Female flowers naked.* *Male flowers incomplete.*

832. ARTOCARPUS. *Calyx* of the male flowers di-phylloous.

5. *Male flowers naked.* *Female flowers incomplete.*

833. LIQUIDAMBAR. *Pistils 2.* *Calyx* of the female flowers campanulate, angular. *Capsules 2,* unilocular, polyspermous.

834. SALISBURIA. *Calyx* of the female flowers inferior, quadrifid. *Drupe.*

6. *Male flowers intermixed with bracteae.* *Female flowers incomplete.*

835. SPARGANIUM. *Style 1.* *Calyx triphyllous and tetraphyllous.* *Drupe juiceless.*

7. *Flowers incomplete.*

836. CYNOMORIUM. *Calyx tetraphyllous,* that of the female flowers superior. *Style 1.* *Seed 1.*

*Order 2.*

## D I A N D R I A.

## 837. LEMNA.

*Style 1.* *Calyx* monophyllous diphylloous & none. *Corolla* none. *Capsule* unilocular.

## 838. DORSTENIA.

*Style 1.* *Calyx* of the male flowers bidentate ; of the female flowers quadridentate. *Corolla* none. *Seed 1.*

*Order 3.*

## T R I A N D R I A.

1. *Male flowers bracteate. Female flowers incomplete.*

## 841. CAREX.

*Style 1.* *Calyx* of the female flowers inferior, monophyllous. *Seed 1.* *Obs. 5123.*

## 842. SCLERIA.

*Style 1.* *Calyx* of the female flowers inferior, diphylloous triphyllous and tetraphylloous. *Nut.*

843. COMPTONIA. *Styles* 2. *Calyx* of the female flowers hexaphyllous. *Nut.*  
*Obs.* 5710.

2. *Flowers incomplete.*

845. FICUS. *Style* 1. *Calyx* of the male flowers tripartite; of the female quinquepartite. *Corolla* none. *Seed* 1. *Flowers* on the inside of a fleshy turbinate receptacle nearly closed at the mouth.  
*Obs.* 4754.

839. ZEA. *Style* 1. *Calyx* diphylloous. *Bracteae* 2, biflorous. *Seed* 1. *Obs.* 6056.

844. TRAGIA. *Style* 1. *Calyx* partite. *Capsule* tricoccous. *Obs.* 5562.

847. PHYLLANTHUS. *Styles* 3. *Calyx* sexpartite. *Capsule* trilocular.

3. *Male flowers incomplete. Female flowers complete.*

846. HERNANDRIA. *Style* 1. *Calyx* of the male flowers none; of the female inferior, monophyllous, entire. *Petals* of the male flowers 6; of the female 8, superior. *Drupe.*

4. *Flowers complete.*

840. COIX. *Style* 1. *Calyx* diphylloous. *Petals* 2. *Seed* 1. *Bracteae* 2

together, the outer of those of the female flowers becoming indurated and inclosing the seed. *Obs. 5355.*

*Order 4.*

T E T R A N D R I A.

1. *Female flowers bracteate. Male flowers incomplete.*

851. ALNUS.

*Styles 2. Calyx of the male flowers quadripartite and tri-partite. Seed 1, angular, Obs. 4325.*

850. BETULA.

*Styles 2. Calyx of the male flowers quadripartite and tri-partite, Seed 1, winged. Obs. 2431.*

2. *Flowers incomplete.*

853. URTICA.

*Stigma villose. Calyx of the male flowers quadripartite; of the female flowers tetraphyl-lous. Seed 1. Obs. 503.*

849. TRICARIUM.

*Stigma lacinate. Calyx of the male flowers tetraphyllous; of*

the female quadripartite. *Berry* trilocular. *From Lour.*

854. MORUS. *Styles 2.* *Calyx* of the male flowers quadripartite; of the female flowers tetraphyllous. *Berry* monospermous, formed from the calyx. *Obs.* 3968.

852. BUXUS. *Styles 3.* *Calyx* of the male flowers tetraphyllous; of the female flowers polyphyllous. *Capsule* trilocular, trirostrate. *Obs.* 880.

848. CICCA. *Styles 4.* *Calyx* of the male flowers tetraphyllous; of the female flowers triphyllous. *Capsule* tetracoccus.

### *Order 5.*

## P E N T A N D R I A.

1. *Female flowers naked. Male flowers incomplete.*

857. XANTHIUM. *Styles 2.* *Corolla* of the male flowers quinquefid. *Drupe.* *Nut* bilocular.

## 2. Flowers incomplete.

858. VANIERIA. *Style 1. Calyx quadripartite, fleshy. Seed 1. From Lour.*
859. AMBROSIA. *Style 1. Calyx of the male flowers quinquesfid; of the female flowers inferior, urceolate, bidentate at the end, with 4 teeth on the outside. Seed 1. Obs. 8404.*
860. AMARANTHUS. *Styles 3. Calyx triphyllous and pentaphyllous. Capsule circumscinded. Obs. 4094.*
855. HEVEA. *Stigmata 3. Calyx quinquesfid. Capsule tricoccous.*
856. NEPHELIUM. *Pistils 2. Calyx of the male flowers quinquedentate; of the female flowers quadridentate. Drupes 2.*

## Order 6.

## HEXANDRIA.

862. BACTRIS. *Style 1. Calyx tripartite and tridentate. Corolla trifid and tridentate. Drupe.*
863. EЛАTE. *Style 1. Calyx tridentate. Pe-*

*tals* 3. *Antherae* sessile.  
*Drupe.*

865. CARYOTA. *Style* 1. *Calyx* triphyllous.  
*Corolla* tripartite. *Berry* unilocular, dispermous. *L.*

864. SAGUS. *Style* 1. *Calyx* triphyllous,  
*Corolla* none. *Berry* mono-  
spermous.

861. ZIZANIA. *Styles* 2. *Calyx* diphyllous.  
*Petals* 2. *Seed* 1.

*Order 7.*

O C T A N D R I A.

871. CORYLUS. *Bracteae* trifid. *Styles* 2. *Nut.*  
*Obs.* 6938.

*Order 8.*

D E C A N D R I A.

869. QUERCUS. *Style* 1. *Calyx* of the male  
flowers sexfid septemfid and  
octofid; of the female flowers

polyphyllous. *Corolla* none.  
*Nut.* Obs. 2778.

*Order 9.*

DODECANDRIA.

1. *Flowers incomplete.*

870. FAGUS.

*Capsule* unilocular, dispermous and trispermous. *Pistils* 2, 3, & 4. *Styles* 3 to 6. *Calyx* of the male flowers sexfid, of the female flowers urceolate. Obs. 8348.

2. *Male flowers incomplete. Female flowers complete.*

868. JUGLANS.

*Style* 1. *Calyx* of the male flowers sexpartite; of the female superior, quadrifid. *Drupe.*

*Order 10.*

POLYANDRIA.

1. *Flowers naked.*

872. THOA.

*Style* very short. *Capsule?* unilocular, monospermous.

2. *Flowers incomplete.*

866. BEGONIA. *Styles 3. Calyx none. Petals 2 to 6, those of the female flowers superior. Capsule trilocular and bilocular, polyspermous, winged. Obs. 3067.*

3. *Female flowers incomplete; male flowers complete.*

878. TRIDESMIS. *Styles many, in 3 fasciculi. Capsule trilocular. From Lour.*

4. *Flowers complete.*

867. POTERIUM. *Pistils 2. Calyx inferior, urceolate. Petals 4, inserted into the calyx. Seeds 2. Obs. 4889.*

*Order 11.*

## MONADELPHIA.

1. *Flowers bracteate.*

891. GNETUM. *Style 1. Filament 1, with 2 antherae. Drupe.*

875. CUPRESSUS. *Pistils 2. Nuts 2, angular.  
Antherae 4.*

874. THUIA. *Pistils 2. Nuts 2, with a membranaceous wing. Stamina 4.  
Obs. 2676.*

873. PINUS. *Pistils 2. Nuts 2, with a membranaceous wing. Stamina many.*

2. *Male flowers naked; female flowers incomplete.*

884. PIPALIA. *Style 1. Filaments 8 to 18.  
Calyx of the female flowers polyphyllous. Berry monospermous. From Jones.*

3. *Female flowers naked; male flowers incomplete.*

893. NIPA. *Stigma a lateral furrow. Drupe.*

4. *Flowers incomplete.*

890. TYPHA. *Style 1. Calyx capillary. Filaments 3 and 4, united below.  
Stigma capillary. Seed pedicellate. Obs. 2562.*

887. HIPPOMANE. *Style 1. Filament 1 with 4 antherae. Drupe. Nut multilocular. Calyx of the male flowers bifid; of the female flowers triphyllous.*

884. CYTINUS. *Style 1. Antherae 8. Corolla campanulate, quadrifid. Berry octolocular.*

892. HURA.      *Style 1. Filament 1. Antherae 2 at each tubercle of the filament. Calyx of the male flowers diphylloous, of the female flowers monophylloous. Stigma peltate. Capsule with from 12 to 18 cells.*
876. PLUKENETIA. *Style 1. Filaments 8. Petals 4. Stigma peltate. Capsule tetracoccus.*
883. STILLINGIA. *Style 1. Filaments 2. Corolla infundibuliform. Capsule tricoccus.*
882. OMPHALEA. *Style 1. Filament 1. Antherae 2 and 1. Capsule trilocular. Calyx of the male flowers tetraphylloous; of the female flowers pentaphylloous.*
885. SAPIUM.      *Styles 3. Capsule tricoccus. Calyx of the male flowers semibifid; of the female flowers semitrifid. Filaments 2. Obs. 8528, & from Jacq.*
881. AGYNEIA.      *Styles 3. Capsule tricoccus and multilocular. Calyx of the male flowers pentaphylloous; of the female flowers hexaphylloous.*
880. RICINUS.      *Styles 3. Capsule tricoccus. Calyx of the male flowers quinquepartite, of the female*

flowers tripartite. *Filaments*  
many.

5. *Flowers complete.*

889. ALEURITES. *Stigma* 2. *Corolla* pentape-  
talous. *Calyx* trifid. *Nec-*  
*taria* 5. *Berry* dicoccous.

888. SECHIUM. *Style* 1. *Corolla* quinquefid.  
*Calyx* semiquinquefid. *Berry*  
monospermous.

879. IATROPHIA. *Styles* 3. *Capsule* tricoccous.  
*Corolla* pentapetalous quin-  
quepartite quinquefid and none.  
*Calyx* pentaphyllous quinque-  
partite and quinquefid. *From*  
*Swartz. obs. 366.*

877. CROTON. *Styles* 3. *Capsule* tricoccous.  
*Corolla* pentapetalous and  
none. *Calyx* quinquedentate  
quinquepartite pentaphyllous  
and decaphyllous.  
*Obs. 4492.*

*Order 12.*

S Y N G E N E S I A.

895. MOMORDICA. *Capsule* trilocular, opening elas-  
tically.

898. BRYONIA. *Berry* polyspermous. *Germen* trilocular. *Obs.* 7163.
894. TRICHOSANTHES. *Berry*. *Corolla* ciliate.
897. CUCUMIS. *Berry*. *Corolla* quinquefid.  
*Obs.* 6018.
896. CUCURBITA. *Berry*. *Corolla* quinquepartite.  
*Obs.* 6766.
899. MURICIA. *Berry*. *Corolla* pentapetalous.  
*From Lour.*
- 

## MONANDRIA.

### 826. ZOSTERA.

*Calyx* and *corolla* none. *Anthera* sessile. *Pistil* 1. *Germen* oblong. *Style* short. *Stigmata* 2, linear, acute. *Capsule* monospermous. *Flowers* on one side of a linear spike, in 2 rows, a male and female flower parallel to each other. *From Smith engl. t. 467. L.*

11. ZOSTERA *trinervis*.—Leaves entire at the margin, mostly trinervose. Stem nearly terete. *Vahl.*  
Z. marina. *Vahl. enum. i. 14. L. sp. 1374; suec. n. 823. Huds. 395. Fl. dan. t. 15. Smith engl. t. 467; brit. 7. Gou. hort. 478; monsp. 406. Host*

*austr.* 493. *Scop. carn.* n. 1140. *Bot. arr.* 1001.  
 α

Alga. *Raii syn.* 52. n. 1 to 5. (The synonyms of  
 n. 1, belong to *Kernera oceanica*.)

Alga angustifolia vitraria. *Raii hist.* i. 75.

**PILAE MARINAE.** *Spielm.* 567.

## 827. ARUM.

*Calyx, corolla, filament, and style none. Stigma*  
*villoso. Berry polyspermous. Obs. 8377. Bot.*  
*arr. ii. 1011. L.*

Male flowers above. Female flowers below. *Obs.*  
 8377.

1. *Stemless. Leaves simple. L.*

1. *ARUM peregrinum.* Leaves cordate, obtuse, mucronate; angles rounded. *L. sp.* 1369.—*Bry.* 4.

2. *ARUM macrorrhizum.*—Leaves peltate, cordate, repandose, bipartite at the base. *L.*

A. *acaule majus sylvestre*, radice oblonga fibrata, foliis amplioribus cordatis. *Browne* 333.

A. *maximum macrorrhizum zeylanicum*. *Herm. par.* 73. t. 73.

*ARUM macrorhizon.* *L. sp.* 1369.—*Forst. G. esc.* 58. *Wright in med. journ.* viii. 227.

3. *ARUM virginicum.* Leaves hastato-cordate, acute; angles obtuse. *L. sp.* 1370.

A. *acaule maximum*, foliis cordato-sagittatis, radice leniter mordicante. *Browne* 332.

- A. acaule, foliis hastato-cordatis acutis, angulis obtusis. *Gren. virg.* 142.
- ARUM virginicum.* *Bart.* 22. *Cutl.* 487. *Schoepf* 133.
4. *ARUM trilobatum.* Leaves sagittato-hastate, obsoletely trilobate. Receptacle attenuate. *Obs.* 4118. Specimen gathered in Lady Clifford's garden.—*L. sp.* 1369. *H. K.* iii. 316. *Curt. mag. t.* 339. *Lour. ii.* 652.
- A. ceylanicum humile latifolium, pistillo purpureo. *Mill. Ph. ic.* i. 35. *t.* 52. *f.* 2.
- A. trilobato folio, humilius & minus zeylanicum. *Herm. par.* 78. *t.*
- ARISARUM amboinicum.* *Rumph.* v. 319. *t.* 110. *f.* 2.
- β Lobes of the leaves divaricate. From *L. mant.* 494.
- A. humile zeylanicum latifolium, pistillo coccineo. *Comm. J. hort.* i. 97. *t.* 51.
- ARUM divaricatum.* *L. sp.* 1369; *mant.* 494.—*Wright in med. journ.* viii. 227.
- Nelenschena major. *Rheede xi.* 39. *t.* 20.
5. *ARUM Colocasia.* Leaves peltate, cordato-sagittate, repandose. *Obs.* 8845. Specimen of a leaf gathered in Fothergill's garden, and from figures and Browne.—*L. sp.* 1368; *a Murr.* 827. *Hort. kew.* iii. 316. *Lour. ii.* 653. *Cat. ii. t.* 45.
- A. acaule maximum, foliis cordato-sagittatis. *Browne* 332.
- Aron maximum aegyptiacum, quod vulgo Colocasia. *Sloane cat.* 61; *hist. i.* 14.

A. aegyptium. *Rumph.* v. 313. t. 109. *Dod.* 326, *repr. in Lob. ic.* i. 596,  
Colocassiae sive Fabae aegyptiae species. *Lob. obs.* 325, &

A. aegyptiacum. *Ger. by Johns.* 834, *cop. in*  
*Culcas vulgaris sine flore.* *Stap.* 443, & *repr. from*  
*Colocasia.* *Clus. hisp.* 300, *which repr. in hist.* ii.  
75. *Bauh. J.* ii. 790. *Dalech.* 458. *Boerh.* ii.  
73.

A. aegyptium cum flore. *Dalech.* 1598. *Col.*  
*ecphr.* ii. 1. t.

A. aegyptium, rotunda et longa radice, vulgo Co-  
locassia dicta. *Park. theatr.* 374, *cop. in*  
*Culcas cum flore.* *Stap.* 443.

ARUM Colocasia. *Bry.* 2. *Sonnini* ii. 61. *Wright*  
*in med. journ.* vii. 226.

6. ARUM maculatum. Leaves hastate, entire at the  
margin. Receptacle clavate. *L. sp.* 1370. *Huds.*  
395. *Lightf.* 528. *Bot. arr.* ii. 1011. *Woodv.* i.  
74. t. 25, the base of the stem coloured green.—*Fl.*  
*dan.* t. 505. *Curt. lond.* ii. 63. t. 114. *Smith brit.*  
1024; *engl.* t. 1298. *Mill. J. ill.* t.

Aron. *Trag.* 774.

Aron, & Aris. *Fuchs.* 70. e. 22, *cop. in*  
Arum. *Bauh. J.* ii. 783. *Matth.* 596. *Cam. epit.*  
365. 366. *Raii syn.* 266. *Riv. mon.* t. 124.  
*Blackw.* t. 228. *Dod.* 326, *repr. in Lob. obs.*  
325,

*Dracontium minus.* *Dod.* 327,

A. officinarum. *Lob. ic.* i. 597, &

A. vulgare. *Ger. by Johns.* 834. *Mill. Ph. ic.* 35.  
t. 52. f. 1.

*A.* *vulgare* maculatum et non maculatum. Park.  
theatr. 373.

*ARUM.* Cuckowpint. Fresh root. *Pharm. lond.*  
—*Alst.* i. 387. *Berg.* ii. 721. *Carth.* ii. 247.  
*Chom.* i. 75; ii. 496; *suppl.* 148. *Cull.* ii. 211.  
554. *Dale* 256. *Geoffr.* iii. 124. *Herm.* 63. *Hill*  
595. *Lew.* i. 173; *disp. by Dunc.* 162. *Linn.* 237.  
*Mill.* *Jos.* 52. *Monro* iii. 19. *Murr.* v. 44. *Neum.*  
ii. 225. *Rutty* 39. *Schrod.* 539. *Spielm.* 477.  
*Vog.* 186.

*A.* maculatum. *Murr. J.* i. 340. *Pears. R.* i. 142.  
171. *With. in bot. arr.* ii. 1013.

*Aron.* *Scop.* 132.

7. *ARUM Arisarum.* Leaves hastato-sagittate, mucronate; lobes deflex, oblong, obtuse. Receptacle cylindric, incurvate, shorter than the spatha. Spatha cucullate. *L. a Willd.* iv. 485; *a Murr.* 828; *sp.* 1370. *Hort. kew.* iii. 317. *Mill. Ph. dict.* n. 4. *Gou. hort.* 478; *monsp.* 405.

*A.* acaule, foliis cordato-oblongis, spatha bifida, spadice recurvo. *Roy.* 7.

*Arisarum latifolium majus.* *Boerh.* ii. 73.

*Arisarum serpentinum,* rotundiore folio, radice globosa, italicum. *Barrel. t.* 573.

*Arisarum latifolium.* *Raii hist.* ii. 1211; *eur.* 67.

Between Massa and Lucca, and near Toulon.

*Magn. monsp.* 27. *Clus. hisp.* 303, repr. in *Ger.* by Johns. 835, &

*Arisarum latifolium I.* *Clus. hist.* ii. 73; *cop. in*

*Arisarum latifolium quibusdam.* *Bauh. J.* ii. 786,  
& repr. in

*Arisarum latifolium Clusii.* *Lob. obs.* 326, & *ic.* i.  
598, inner fig. Outer fig. repr. from

*Arisarum veronensium.* *Lob. adv.* 260, which cop.  
in

*Arisarum prius.* *Dalech.* 1599.

**ARISARUM.** *Diosc. l. 2. c.* 198.

*Aris altera.* *Plin. l. 24. c. 16.* 619. *lix.* 1.

8. ARUM *Dracunculus*. Leaves pedate; segments lanceolate, entire at the margin. Lamina of the spatha ovate, longer than the spadix. *Hort. kew.* iii. 314. *L. sp.* 1367. *Gaertn.* ii. t. 84. *Thunb. jap.* 233.

*Dracunculus polyphyllus.* *Boerh.* ii. 75.

*Dracunculus major.* *Fuchs.* 234, c. 86, cop. in

*Dracunculus.* *Dalech.* 1602, &

*Dracunculus major vulgaris.* *Bauh. J.* ii. 789.

*Serpentaria minor.* *Dalech.* 1602.

*Dracontium majus.* *Raii hist.* ii. 1211. *Ger. by Johns.* 831, repr. from

*Anguina dracontia.* *Lob. obs.* 327, which repr. in ic. i. 600, cop. in

*Dracunculus hortensis.* *Park. par. t.* 531. f. 2, & repr. in

**DRACONTIUM.** *Dod.* 327.—*Dale* 256. *Lew.* i. 408. *Rutty* 169.

*Dracontium majus.* *Mill. Jos.* 181.

*Dracunculus major.* *Geoffr.* iii. 406.

*Dracunculus polyphyllus.* *Chom.* ii. 498; i. 75.

## 2. Stemless. Leaves compound. L.

9. ARUM *Dracontium*. Leaves pedate, folioles lanceolate, entire at the margin, extending beyond the spatha. Spatha shorter than the receptacle. *L. sp.* 1368. *Hort. kew.* iii. 315. *Michaux* ii. 188. *A. foliis palmatis, foliolis lanceolatis integerrimis*

spatham spadice clavato brevioren superantibus.  
Roy. 7.

A. sive Arisarum virginianum, draconii folio pene  
viridi longo acuminato. *Pluk. alm.* 52; *phyt. t.*  
*271. f. 2.*

*ARUM* Dracontium. *Lour. ii.* 650. *Thunb. jap.*  
*233.*

10. *ARUM triphyllum*. Leaves ternate; folioles entire  
at the margin. Receptacle clavate. Spatha ovate,  
acuminate, flat, petiolate, longer than the receptacle.  
*From L. a Willd. iv. 480; sp. 1368. Hort. kew.*  
*iii. 315. Lour. ii. 652.*

Dracunculus, siye Serpentaria triphylla brasiliiana.  
*Dodart 81. t.*

A. triphyllum, siye Dracunculus triphyllus virginianus. *Hist. ox. s. 13. t. 5. row 3. f. 43.*

*ARUM.* *Coxe 367. Schoepf 133.*

Indian Turnip. *Rush ii. 301.*

11. *ARUM pentaphyllum*. Leaves quinate. *L. sp.*  
*1368.*

Rumphal. *Zan. 170. t. 78, repr. in*  
Dracunculus indicus, folio quinquefido. *Zan. a*  
*Mont. 99. t. 23. f. 2, & cop. in*

A. pentaphyllum indicum. *Hist. ox. s. 13. t. 5.*  
*row 3. f. 27.*

*ARUM pentaphyllum.* *Lour. ii. 1368.*

### 3. *Caulescent.* L.

12. *ARUM indicum*. Stem nearly erect. Leaves ovate,  
bifid at the base, rounded. Spikes axillary. *Lour.*  
*ii. 655.*

*ARUM* indicum sativum. *Rumph.* v. 308. t. 106.  
Leaves cordate.

## 828. CALLA.

*Calyx*, *corolla* none. *Filament* permanent. *Style* 1.  
*Stigma* acute. *Berry* polyspermous. *Obs.* 5306.  
*L.*

- 1: *CALLA cordifolia*. Leaves cordate. *Obs.* 5307.  
Specimen gathered in Fothergill's garden.
- C. palustris*. *L. suec.* n. 822; sp. 1373. *H. K.* iii.  
319. *Fl. dan.* t. 422. *Poll.* ii. n. 865. *Willd. ber.*  
n. 566. *Roth germ.* i. 384; ii. pars ii. 413.
- Calla*. *L. lapp.* n. 320. *Cutl.* 488. Specimen gathered by Dr. Cutler in New England.
- Arisarum Rivini*. *Rupp.* ab *Hall.* 251. In stagnant waters about Witteburg.
- Dracunculus aquatilis*. *Besl. hort. vern. ord.* 2. fol.  
17. *Dod.* 329, repr. in
- Anguina aquatica*, sive *Dracunculus*. *Lob. obs.* 328,  
& *ic.* i. 600, *cop.* in
- Dracunculus noster aquaticus*. *Park. theatr.* 1244,  
&
- Dracunculus aquaticus*. *Hist. ox. s.* 13. t. 5. row 3.  
f. 23, & repr. in *Ger.* by *Johns.* 832. *Bauh. J.* ii.  
789.
- Dracunculus palustris*. *Dalech.* 1603.
- Gribegne polonorum Corvini*. *Barrel.* t. 1171. No fructifications.
- (*Dracunculus palustris polonicus*. *Barrel.* t. 574,  
has leaves rounded at the end. No fructifications.)

Stamina and pistils intermixed, covering the receptacle. Obs. 5307.

*CALLA palustris.* Berg. ii. 724. Bry. 4.

## 829. CALADIUM.

*Calyx, corolla, and style none. Anthera multilocular, peltate. Berry unilocular, polyspermous.*  
*From L. a Willd. Vent.*

### 1. Stemless.

11. *CALADIUM esculentum.* Leaves peltate, cordate. Spatha ovato-lanceolate, longer than the receptacle.  
*From L. a Willd. iv. 489. Vent.*

*Arum medium, foliis cordato-sagittatis quandoque auritis, radice minori carnosa.* Browne 332.

*C. aquatile.* Rumph. v. 318. t. 110. f. 1.

*Arum minus, nymphaeæ foliis, esculentum.* Sloane cat. 62; hist. i. 167. t. 106. f. 1.

*ARUM esculentum.* L. sp. 1369; a Murr. 827. Hort. kew. iii. 316.—Bartr. W. trav. 467. Bry. 3. 120. Clark, James in med. facts vii. 305. Forst. G. esc. 57. Lour. ii. 654. Schoepf 132. Thunb. jap. 234; trav. iii. 163; iv. 122.

Indian Kale. Edw. Bry. i. 199.

2. *CALADIUM sagittifolium.* Leaves sagittate, acuminate. Sheath ovate, cucullate, longer than the receptacle. L. a Willd. iv. 489.

A. acaule, foliis sagittatis triangulis, angulis extrorsum flexis acutis. Roy. 8.

A. acaule, foliis triangularibus sagittatis, angulis di-  
varicatis acutis. *Browne* 332.

*Arum amplis* foliis, esculentum. *Plum. ic.* 24. t.  
35.

*Arum minus* esculentum, sagittariae foliis viridi-nigri-  
cantibus. *Sloane cat.* 63; *hist. i.* 167. t. 106. f. 2.  
A leaf.

*Arum minus*, sagittariae foliis. *Pluk. phyt. t.* 149.  
f. 2.

*ARUM* sagittaefolium. *L. sp.* 1369; *a Murr.* 828.  
*Hort. kew.* iii. 316.—*Jacq. hort.* ii. 73. t. 157.  
*Lour.* ii. 653. *Schoepf* 132. *Wright in med. journ.*  
viii. 226.

Eddoes, *Edw. Bry.* i. 199.

## 2. Caulescent: L.

3. *CALADIUM seguinum*. Stem nearly erect. Leaves  
oblong, cuspidate. Spatha oblong, longer than the  
receptacle. *L. & Willd. iv.* 490. *Vent.*

*Arum seguinum*. *L. sp.* 1371. *Hort. kew.* iii. 317.

*Arum caulescens*, foliis sagittatis. *Mill. Ph. ic.* ii.  
197. t. 295.

*Arum caule erecto geniculato inferne nudo*, foliis ma-  
joribus oblongo-oyatis. *Browne* 331.

*Arum caulescens*, cannae indicae foliis. *Plum. amer.*  
45. t. 61. 51. f. h.

*Arum caule geniculato*, cannae indicae foliis, summis  
labris degustantes mutos reddens. *Sloane cat.* 63;  
*hist. i.* 168.

*ARUM Seguine*. *Jacq. amer.* 239. t. 151; 8vo  
308.

4. *CALADIUM arborescens*. Stem erect. Leaves sa-

gittate. Spatha cucullate, ovate, longer than the receptacle. *From L. a Willd.* iv. 490. *Vent.*

*Arum arborescens*, sagittariae foliis. *Plum. amer.*  
44. t. 60. 51. g.

*ARUM arborescens*. *L. sp.* 1371.—*Wright in med. journ.* viii. 227.

### 830. PLATANUS.

*Flowers intermixed with bracteae. Calyx and corolla none. Filament thicker upwards. Anthera growing to the filament from the base. Style subulate, permanent. Stigma recurvate. Seed roundish, pappose at the base.* *From L. & Juss.*

*Flowers in heads. From L.*

#### 1. PLATANUS *palmata*. Leaves palmato-lobate.

*Obs.* 6062. Specimen from Prof. Jos. F. Jacquin.  
*P. orientalis.* *L. sp.* 1417. *Hort. kew.* iii. 364.

The oriental Planetree. *Evel. by Hunt.* ii. 53. t.

*Platanus.* *Dalech.* 93. *Bauh. J. i. pars. ii.* 170.

*Lob. adv.* 442, *repr. in ic. ii.* 198, *Clus. hist. i. 9,*  
*& Ger. by Johns.* 1489, *& cop. in*

*P. orientalis verus.* *Park. theatr.* 1427. *Raii hist.*  
ii. 1706.

Leaves, ribs of the under surface nearly glabrous.

*Obs.* 6062.

*PLATANUS.* *Dale 334.* *Diosc. l. 1. c. 108.*

### 831. MORELLA.

*Flowers bracteate. Calyx, corolla, and filament*

none. *Styles* 2. *Drupe*. *Nut* bilocular, lacunose. *From Lour.*

1. MORELLA rubra. *Lour.* ii. 670.

(*Cudrania amboinensis silvestris*: *Rumph.* v. 25. t. 16, has a polyspermous berry.)

## 832. ARTOCARPUS.

*Calyx* of the male flowers diphylloous; of the female flowers none. *Corolla* none. *Filament* shorter than the calyx. *Style* very short. *Stigma* 1 & 2. *Berry* monospermous. *From L. fil. suppl.* 61, & *Forst. J. & G.* 101. n. 51. t. 51. 51. a.

1. ARTOCARPUS pubescens. Leaves oval, pubescent underneath. *From L. a Willd.* iv. 189.

Jaca. *Acost. Christ.* 263.

ANSJELI. *Rheede* iii. 25. t. 32.

Castanea malabarica, Angelina dicta. *Raii hist.* ii. 1384.

2. ARTOCARPUS Champeden. Leaves oblong, pilose, rugose. *From Lour.* ii. 668.

A. integrifolia β *L. a Willd.* iv. 189.

SOCCUS arboreus minor. *Rumph.* i. 109. t. 31.

3. ARTOCARPUS integrifolia. Leaves oblong, undivided and trilobate, attenuate at the base. *From L. a Willd.* iv. 189; *fil. suppl.* 412, & *Rumph.*

Sitodium cauliflorum. *Gaertn.* i. 345. t. 71, 72.

α hirsuta, Leaves hirsute underneath. *From*

*Sitodium macrocarpon.* *Thunb.* in *ph. tr. abr.* by *Hutt.* xiv. 573.

Tsjaka-Maram. *Rheede* iii. 17. t. 26 to 28.

*Fructus Durionis majoris,* Jaaca. *Bont.* 118.

*Jaca indica.* *Bauh. J. i. pars i.* 115. *Raii hist. ii.* 1440. *Zan. a Mont.* 127. t. 90. 91.

*JACA.* *Acosta, Christ. in Clus. exot.* 281, No fig.

Jacka. *Perciv. Rob. ceyl.* 316.

Nanca. *Cook in Hawkesw.* iv. 348.

*CHAMPADA.* *Cook in Hawkesw.* iv. 348.

β *glabra.* Leaves glabrous. From

*POLYPHEMA Jaca.* *Lour.* ii. 667.

*Soccus arboreus major.* *Rumph. i.* 104. t. 30. In fruit. Leaves obovato-oval; f. F. younger leaves trifid.

4. *ARTOCARPUS incisifolia*.—Leaves incise. *L. fil.*  
A. *incisa.* *L. fil. suppl.* 411. *Forst. G. austral.* n. 332.

A. *communis.* *Forst. J. & G.* 102.

*Sitodium incisum.* *Thunb.* in *ph. tr. abr.* by *Hutt.* xiv. 573.

*Fructus Durionis minoris,* Champidaca. *Bont.* 119.

The Bread fruit. *Ellis mang.* 11. t, cop. in *Edw. Bry. i. p.* xxiv. t.

Le Rima. *Sonner, nouv. guin.* 99. t. 57 to 60.

*Soccus lanosus.* *Rumph. i.* 110. t. 32.

*Soccus granosus.* *Rumph. i.* 112. t. 33.

*Soccus sylvestris.* *Rumph. i.* 114. t. 34. Leaves elliptic, irregularly angular, pilose.

α *seminifera*.—(Variation.) Fruit containing seeds.  
From *L. a Murr.* 838 β

*ARTOCARPUS* incisa. *Forst. G. esc.* 23  $\beta$

Breadfruit. *Thunb. trav.* iv. 255.

$\beta$  apyrena—(Variation.) Fruit without seeds. *From L. a Murr.* 838  $\alpha$ , & *Forst. G. esc.* 23  $\alpha$  Leaves glabrous.

Breadfruit. *Bligh. 9. t. at p. 10.* Fruit.—*Hawkesw.* iii. 35.

*ARTOCARPUS* incisa. *Pears. R. i.* 58.

Breadfruit tree. *Bry. 378.* *Noorden, account from in chir. rev. viii.* 91. *Perciv. Rob. ceyl.* 317.

Breadfruit. *Thunb. trav.* ii. 275; iv. 255.

Soccum. *Cook in Hawkesw.* iv. 351.

### 833. LIQUIDAMBAR.

Male flowers naked. Calyx of the female flowers campanulate, angular. Corolla none, Pistils 2. Capsules 2, unilocular, monospermous and dissperous. Seeds winged. *From L. a Schreb. Juss. & Marsh. L.*

Male flowers in a globular head. Female flowers on a spherical receptacle. *L.*

1. LIQUIDAMBAR *barbatum*. Angles between the veins at the base of the leaves barbate. *Obs. 8349.* Specimen gathered in a garden.

*L. styraciflua.* *L. sp.* 1418. *Hort. kew.* iii. 365. *Michaux li.* 202. *Gaertn.* ii. 58. *t.* 90. *Marsh.* 77.

*L. arbor*, sive *Styraciflua aceris folio*. *Pluk. phyt.* t. 42. f. 6. A branch with separate fruit.—*Cat.* ii. t. 65.

*Styrax liquida.* *Raii hist.* ii. 1681. In the garden  
of Compton to whom sent by Bahister.

*Styrax arbor virginiana, aceris folio, potius Platanus  
virginiana styracem fluens.* *Raii hist.* ii. 1799.

**LIQUIDAMBAR.** *L. ups.* 287. *Gron. virg.*  
151. *Blackw. t.* 485.—*Dale* 286. *Geoff.* ii. 490.  
*Mill. Jos.* 273. *Murr. i.* 67. *Spielm.* 316.

*Liquidambra.* *Alst.* ii. 397. *Lew.* ii. 72. *Rutty*  
292. *Schrod.* 724.

*Liquidambarum.* *Carth.* iii. 433. *in* *l.*

*L. styraciflua.* *Bart.* 17. *in* *l.*

*Ambra liquida.* *Herm.* 672. *Monro* ii. 358.

*Styrax liquida.* *Lew.* ii. 393; *disp. by Dunc.* 343.  
*Neum.* ii. 16.

*Storax liquida.* *Berg.* 750. *Linn.* 244. *Schepf*  
141. *Vog.* 309.

*Gumtree.* *Clayt.* in. *ph. tr. abr. by Hutt.* viii. 332.

2. **LIQUIDAMBAR imberbe.** Angles between the veins  
at the base of the leaves glabrous. *From Hort.*  
*kew.* iii. 365. *L. a Willd.* iv. A75.

*Liquidambar orientalis.* *Mill. Ph. dict.* n. 2.

*Platanus orientalis.* *Poc.* ii. 191. *t.* 89, at p. 195.  
In fruit.

*Platanus orientalis, aceris folio.* *Tourn. cor.* 41.

*Aspalathia altera species.* *Lob. adv.* 426. No fig.

*Aspalathus rhodius.* *Lob. ic.* ii. 148, *cop. in*

*Aspalathus rhodius rubens odoratissimus.* *Bauh. J.*  
i. *pars i.* 473, & *repr. in*

*Aspalathus albicans torulo citreo.* *Ger. by Johns.*  
1624. *Wood.* (The name and descr. belong to  
another kind.)

**RHODIUM.** See iii. 513 and the 4 following pa-  
ragraphs.

*Lignum rhodium.* *Cod. med. p. lxvii.*

*Lignum cyprinum.* *Poc. ii. 230.*

*Bois de Rhode.* *Pom. i. 106.*

### 334. SALISBURIA.

*Male flowers* naked. *Anthera* deltoid. *Calyx* of the female flowers inferior, quadrifid. *Drupe.* *Nut* triangular. *From Smith in lin. tr.* the male flowers apparently from plants in Kew garden, but whence the description of the fruit we are not informed.

#### 1. SALISBURIA *adiantifolia.* *Smith in lin. tr. iii.* 330.

*Ginkgo biloba*, foliis adianti. *Thunb. jap.* 358.

*Ginkgo.* *Kaempf.* 811. *t. 813.* In fruit.

Leaves cuneiform & reniform-cuneate, lineate, sometimes semibifid; anterior margin inciso-erose. *Obs.* 5381. Specimen from a plant in Fothergill's garden, trained against a wall.

*GINKGO biloba.* *L. mant.* 313. *H. K.* iii. 478.  
—*Bry.* 377. *Thunb. trav.* iv. 38.

### 335. SPARGANIUM.

*Male flowers* with bracteae interspersed. *Calyx* of the female flowers triphyllous and tetraphyllous. *Corolla* none. *Germen* oblong. *Stigma* 1 and 2. *Drupe* juiceless, with 1 and 2 nuts. *Obs.* 5876. *L.*

Flowers in globular heads. Obs. 5876.

1. SPARGANIUM *Ramosum*. Péduncles and heads axillary. Leaves erect. Obs. 5876. In ditches at Stafford.—*Curt. lond.* v. 66. t. 342. *Raii hist.* ii. 1811; syn. 437. *Huds.* 401. *Smith brit.* 961; engl. t. 744. *Bauh. Casp. theatr.* 228. *Park. theatr.* 1205, cop, from Ger. by Johns. 45, which repr. from

*Platanaria*, sive *Boutomon*. *Dod.* 591, which repr. in

S. *Butomos Theophrasti*. *Lob. obs.* 41, &

S. et *Butomus Theophrasti*. *Lob. ic.* i. 80, & cop. in

*Butomos dissecta pannicula*. *Stap.* 462.

S. *erectum*. *L. suec.* n. 831; sp. 1378. *Bot. arr.* ii. 1023.

*Phleos foemina*. *Dalech.* 1017.

S. *majus ramosum*. *Park. theatr.* 1205, the entire plant.

SPARGANIUM. *Dale* 258. *Diosc. l.* 4. c. 21. fol. 202, p. 1.

### 836. CYNOMORIUM.

*Calyx* tetraphylous. *Corolla* none. *Style* 1. *Seed* 1. From *L. a Schreb.* *L.*

1. CYNOMORIUM *coccineum*. Scapus squamose.

Spike cylindric. Bracteae imbricate, ovate, retuse.

From *Swartz. prodr.* 151; obs. 345. *L. sp.* 1375.

*C. purpureum officinarum*. *Mich. gen.* 17. t. 12.

- Fungus mauritanicus verrucosus ruber. *Pet. gaz.* t. 39. f. 8.
- Fungus typhoides liburnensis. *Tilli* 64. t. 25.
- Fungus typhoides coccineus tuberosus melitensis. *Bocc. sic.* 80. t. 81.
- Fungus typhoides coccineus melitensis. *Raii hist.* ii. 1851.
- FUNGUS** melitensis. *Pharm. suec.* — *Berg.* 726.
- Lew. disp.* by *Dunc.* 341. *Linn.* 238. *Murr.* i. 81. *Vog.* 301.
- Fungus typhoides coccineus. *Dale* 58.

## DIANDRIA.

### 337. LEMNA.

*Calyx* monophyllous diphylloous and none. *Corolla* none. *Style* 1. *Capsule* unilocular. *From Mich.* & *Smith. L.*

Ehrhart Hedwig and Dr. Smith having found hermaphrodite flowers, it must be removed to the class Monandria. Dr. Smith found in *L. gibba* naked hermaphrodite flowers, and in *L. trifulca* naked hermaphrodite and male flowers.

1. **LEMNA minor.** Roots solitary. Leaves flat on both sides. *Obs.* 6723. In a pool. 10 Aug. — *L. sp.* 1376; *mant.* 494. *Bot. arr.* ii. 1020.

- Huds.* 399 *a.* *Smith brit.* 957; *engl. t.* 1095.  
 Flowers hermaphrodite. Calyx diphyllous.  
*Lenticularia minor monorhiza, foliis subrotundis*  
*utrinque viridibus.* *Mich. gen.* 16. *t.* 11. *f.* 3.  
*Lenticula palustris vulgaris.* *Tourn. paris.* 282.  
*Vaill. paris.* 114. *t.* 20. *f.* 3.  
*Lens lacustris.* *Dod.* 576, *cop. in*  
*Lens palustris, sive aquatica vulgaris.* *Park. theatr.*  
*1262, & repr. in*  
*Lens palustris.* *Ger. by Johns.* 829. *Bauh. J.* iii.  
*784.* No fig.—*Raii syn.* 129. *t.* 4. *f.* 1. *Blackw.*  
*t.* 380. *Cam. epit.* 852, lower part of the fig.  
 Leaves horizontal, floating, the young ones proceeding from a fissure parallel to the surface. *Obs.* 6723.  
*LENS palustris.* *Dale* 60. *Geoffr.* iii. 707. *Mill.*  
*Jos.* 263. *Schrod.* 613.  
*Lenticula palustris vulgaris.* *Chom.* 810; *suppl.*  
*212.*

## 838. DORSTENIA.

*Calyx* dentate, prismatic. *Corolla* none. *Stamina* very short. *Germen* superior, pedunculate; peduncle divided into 2 lips, one of the lips terminating in the style. *Style* bifid, projecting beyond the mouth of the calyx. *Seed* 1, naked, in the hollow between the lips of the pedicle of the ger- men. *Obs.* 5345. *Jacq. coll.* iii. 200. *L. Plum.* *gen.* 8, from *D. quadrangularis*.

1. DORSTENIA *brasiliensis*. Scapi with an orbicular receptacle. Leaves cordato-oval; margin crenate. *L. a Willd.* i. 682. *Hort. kew. ed. II.* i. 267. *Lam.*  
*CAA-APIA.* *Pis. bras.* 90, repr. in *ind. 232*, & *Marcgr.* 52.

2. DORSTENIA *ovalis*. Scapi with an oval receptacle. Leaves sinuate. Specimen in Sir Jos. Banks's herbarium of a leaf receptacle and root gathered by Houston at Vera Cruz.

D. Drakena. *L. sp.* 176.

D. dentariae radice, sphondylii folio, placenta ovali. *Houst. in ph. tr. xxxvii.* 197. n. 421. f. 1, cop. in *abr. vi.* by *Reid and Gray part ii.* 217. t. 4. f. 69, at p. 252, and by *Hutt. vii.* 507. t. 12. f. 4.

D. cordifolia. *Lam. dans l' encycl.* ii. 317. *Swartz prodr.* 34; *obs.* 51. t. 7. f. 2, will probably prove a variation of it.

Root blackish rufous within and without. Leaves, margin serrato-dentate. Specimen in Sir Jos. Banks's herbarium.

*CONTRAYERVA.* *Murr.* iv. 573.

Contra-yerva radix. *Dale* 420.

3. DORSTENIA *quadrangularis*. Scapi with a quadrangular receptacle. Obs. 5345. From Dr. Coyte's garden. 2 Nov.

*CONTRAYERVA.* Root. *Pharm. lond.—Alst.* i. 415. *Biss. ess.* 75. *Carth.* iv. 97. *Chom.* i. 338. *Cull.* ii. 580. *Dale* 161. 419. *Fordyce, G. pract.* 155. 314. *Geoffr.* ii. 36. *Herm.* 167. *Hill* 609. *Latts. fev.* 44. *Lew.* i. 363. *Lind seam.* 259. *Mead mon.* i, 32, 33. 109. *Mill, Jos.* 147. *Monro*

iii. 78. *Murr.* iv. 572. *Neum.* ii. 134. *Pringle* 229. 310. 316; app. 107. *Rutty* 136. *Schoepf* 15. *Schrod.* 570. *Smyth* in *jail dist.* 121. *Und.* i. 72. 93. 185. 266. *Vog.* 192. *Wintr.* in *Mead mon.* i. 222. 223. 230.

*Contrajervia.* *Pharm. lond. noviss.*—*Berg.* 73. *Linn.* 57. *Spielm.* 258. *Stoll aph. n.* 678; *med.* i. 18. 45. 54; iii. 109.

*D. Contrajervia.* Root. *Pharm. edin.*—*Lew. disp.* by *Dunc.* 220. *Murr. J.* i. 185. *Pears. R.* i. 249; ii. 178; *ed. II.* 331.

*α integrifolia.* (Variation.) Leaves entire and slightly lobate. *Specimens* in Sir Jos. Banks's herbarium gathered by Houston in Campechy in 1730, and received by Ph. Miller from Tobago.

*D. Houstoni.* *L. sp.* 176. *Hort. kew. ed. II.* i. 267.

*D. dentariae radice, folio minus laciniato, placenta quadranglari & undulata.* *Houst. in ph. tr.* xxxvii. 196. 197. *n. 421. f. 2, cop. in abr. vi. by Reid & Gray part ii.* 217. *t. 4. f. 70;* and by *Hutt.* vii. 507. *t. 12. f. 5,* and the descr. *abr. in Mihles ess.* ii. 249.

Root reddish brown without, whitish within. *Specimen* from Campechy in Sir Jos. Banks's herbarium.

*β sinuata.* (Variation.) Leaves sinuato-pinnatifid. *Obs.* 5345, & *specimens* in Sir Jos. Banks's herbarium from Kew garden and Lee's nursery.

*D. Contrajervia.* *Jacq. ic.* iii. *t. 614. Woodv.* i. 140. *t. 51. Coyte hort.* 18; *ind.* i. 134. *Hort. kew. ed. II.* i. 268.

- Drakēna radix. *Clus. exot.* 83, repr. in *Ger. by Johns.* 1621, & cop. in
- Contrayerva hispanorum, sive Drakēna radix Clusii. *Park. theatr.* 421, &
- Drackena radix. *Bauh. J.* ii. 740. Roots.
- Radix Contrayervae hispanorum ut a Baptista Cor-  
tesio exhibitur. *Park. theatr.* 1680. Root.

*Leaves* cordate, sinuato-pinnatisid, petiolate, semi-decurrent down the petiole for about an inch, slightly hirsute with short scattered hairs; lobes acuminate, acute, obsoletely dentate. *Petioles* nearly as long as the lamina. *Scapus* terete, pubescent, widening at the end. *Receptacle* oblique, slightly concave, dentate, foliaceous,  $\frac{1}{4}$  inch broad, pubescent underneath, above as if covered by a tessellated green membrane, formed by the ends of the calyces. *Flowers* male and female intermixed, adhering to each other. *Calyx* of the female flowers prismatic; teeth mostly 4, inflected horizontally, and the edges of the teeth adhering so as to close the top of the calyx leaving only a passage for the style; that of the male flowers concave, even with the female calyces, as long as the teeth of the female calyces; margin bipartite, very short, erect. *Stamina* 2 and 1, erect, longer than the calyx, when 2 distinct. *Filaments* white, subulate, each surrounded at the base by a white corolla-ceous border. *Antherae* roundish, whitish brown, as short again as the filaments. *Pistil* 1, superior, on a peduncle. *Germen* roundish, slightly compressed, consisting of an embryo seed contained in a cup of a whitish hue, composed of 2 lanceolato-ovate lips, one of which terminates in the style. *Style* bifid. *Stigmata* simple. *Seed* 1, triangular; upper edge acute;

2 lower obtuse; sides rough with rounded tubercles, covered with a thin white membrane, closely embraced by the lips of the pedicle which supports the gerimen. Obs. 5345.

7 *pinnatifida*. (Variation.) Leaves pinnatifid. Specimens in Sir Jos. Banks's herbarium, gathered by Anderson in St. Vincent's, and 2 by Smeathman in the West Indies.

D. *contrajerva*. L. sp. i. 176.

D. *sphondylii* folio, dentariae radice, Plum. gen. 29; ic. i. 109. t. 119.

Tuzpatlis. Hern. 147. No fructifications.

4. DORSTENIA *digitifolia*. Leaves digitate. From DORSTENIA chinensis. Lour. i. 114.

## TRIANDRIA.

### 839. ZEA.

*Bracteae* 2, biflorous; those of the female flowers broader than long. *Calyx* diphyllous, membranaceous; phylla of the flowers broader than long. *Corolla* none. *Nectaria* in the male flowers 2 & 3, cuneiform, dentate. *Style* 1. *Stigma* 1. Obs. 6056. L. a Schreb. L.

1. ZEA Mays. Margin of the leaves entire. L. a

- Gmel.* ii. 148; *a Willd.* iv. 200; *sp.* 1378. *Hort. kew.* iii. 324. *Lour.* ii. 672.  
Mays Zea. *Gaertn.* i. 6. t. 1.  
Frumentum asiaticum. *Ger. by Johns.* 81, *repr. from*  
Frumentum turcicum. *Dod.* 500. *Ger. by Johns.* 81. *Fuchs.* 783. c. 319, *abr. in Trag.* 651, & *cop. in*  
*Milium indicum maximum Maiz dictum, sive Frumentum indicum vel turcicum. Park. theatr.* 1138, with the addition of a male and female spike,  
&  
*Triticum indicum. Bauh. J.* ii. 453. *Raii hist.* ii. 1249.  
*Triticum peruvianum album longum. Bauh. J.* ii. 454.  
*Triticum indicum, Fuchsi turcicum. Dalech.* 382.  
*Triticum indicum Matthioli. Dalech.* 382.  
Frumentum indicum Mays dictum. *Bauh. Casp. theatr.* 490. *Sloane cat.* 26; *hist.* i. 105.  
Frumentum indicum spica. *Ger. by Johns.* 81.  
Frumentum indicum luteum. *Ger. by Johns.* 82.  
Frumentum indicum rubrum. *Ger. by Johns.* 82.  
Frumentum indicum caeruleum. *Ger. by Johns.* 82.  
Frumentum indicum. *Cam. epit.* 186.

*Male flowers* paniculate, terminal, sometimes with female flowers in the lower part of the panicle. *Female flowers* mostly in spikes towards the base of the stem. *Bracteae* of the female flowers obreniform, closely embracing the germen, shorter than the germen; with 2 flowers; the lowermost flower neutral, in one instance containing 3 filaments, the rudiment of a germen and a short style. *Calyx of the barren flower,* outer phyllum embracing the inner phyllum

and the sides of the fertile flower; inner phylum with its sides folded inwards to the side facing the outer phylum. Obs. 6056. In a garden.

**MAYS.** Boerh. ind. ii. 166. Geoffr. 830. Schoepf. 134. Spielm. 21.

**Z.** Mays. Marabelli, account from in ann. med. iii. 208. Hermbstaedt, account of in phys. journ. iv. 247. L. am. v. 66.

**Z.** Maiz. Bart. 42. Bry. 348. Pears. R. i. 84. Wright in med. journ. viii. 290.

**Zea.** Carth. ii. 165.

Triticum indicum. Dale 262.

Indian Wheat. Lew. in Neum. ii. 73.

Maize. Winthorp in ph. tr. abr. by Hatt. ii. 466.

Mais. Fordyce, G. fev. ii. 28.

Ble de Turquie. Chom. 745.

**INDIAN MEAL.** Baylies in med. pap. 46.

## 840. COIX.

**Bracteæ 2;** the outer of those of the female flowers, urceolate, indurated; inner ovate. **Calyx** diphylloous. **Petals** 2, of the hermaphrodite flowers ovate, of the male flowers cuneiform. **Style** 1. Obs. 5355. **L.**

1. **COIX ovata.** Stem above semiterete, obtuse. Indurated bractæ of the female flowers ovate. From C. Lachryma. L. a Willd. iv. 202; a Murr. 842. Lour. ii. 673.

C. Lachryma Jobi. L. sp. 1378. Hort. kew. iii. 325.

- Lithagrostis Lacryma Jobi. *Gaertn.* i. 7. t. 1.  
 Lachryma Jobi. *Boerh.* ii. 166. *Besl. hort. aest.*  
*ord.* 13. *fol.* 6.  
 Milium arundinaceum, multis Lachryma Jobi. *Raii hist.* ii. 1252.  
 Lacryma Jobi. *Clus. hisp.* 501, *repr. in hist.* ii. 216,  
*cop. in Park. theatr.* 430, & *repr. in*  
 Lachrymae Jobi. *Gcr. by Johns.* 88.  
 Lachryma Jobi multis, sive Milium arundinaceum.  
*Bauh. J.* ii. 449. Two figures.  
 Lithospermum arundinaceum. *Dalech.* 1178.  
 Catri-conda. *Rheede* xii. 133. t. 70.  
 Lachryma Jobi indica. *Rumph.* v. 193. t. 75. f.  
 2.  
 Lithospermum amboinicum. *Rumph.* vi. 22. t. 9. f.  
 1, seems to be the plant in its native state.  
 (Ova piscium. *Rumph.* v. 191. t. 75. f. 1, is a  
 different plant.)  
 Bracteae of the female flowers, the outer ovate,  
 white, shining, resembling a bead. *Obs.* 5355,  
**LACHRYMA JOBI.** *Dale* 263.  
 C. Lachryma Jobi. *Bry.* 332.  
 Lithospermum arundinaceum. *Geoffr.* iii. 746.  
 Lithospermum arundinaceum, forte Dioscoridis et  
 Plinii. *Chom.* 246.

## 841. CAREX.

*Male flowers bracteate. Female flowers incomplete.*  
*Calyx of the female flowers monophyllous, ampul-*  
*laceous, permanent. Seed 1. Obs. 5123. L.*

I. *Calyx bifid at the end.*

1. CAREX *disticha*. Stigmata 2. Spike compound; lower and terminal spiculae adrogynous; intermediate spiculae male. Style as long as the stigmata.  
*Obs.* 8332. Specimen gathered near Worcester.—*Huds.* 403. *Schreb.* *lips.* 63. *Bot. arr.* ii. 1028.
- C. intermedia.* *Good. in lin. tr.* ii. 154, but this epithet implies that it is a species forming a connecting link between 2 others.—*Smith brit.* 972.
- C. arenaria.* *Leers* 198. *t.* 14. *f.* 2.  
*Gramen cyperoides* spica subfuscata molli, minor.  
*Hist. ox. s.* 8. *t.* 12. *row* 3. *f.* 32.  
*Gramini cyperoidi ex monte ballon simile, spica totali e pluribus spicis composita.* *Raii hist.* ii. 1297; *syn.* 423. *Pluk. phyt.* *t.* 34. *f.* 7.  
*Gramen cyperoides elegans multifera spica.* *Park. theatr.* 1172, the single spike.
- SARSAPARILLA germanica.* *Murr. v.* 310.
2. CAREX *arenaria*. Stigmata 2. Spike compound; spiculae androgynous. Style very short. Calyx of the fruit compressed, bordered at the margin.  
*Obs.* 8332. Specimen gathered on the sea shore at Ostend.—*L. suec. n.* 835; *sp.* 1381. *Huds.* 404. *Lightf.* 545. *Good. in lin. tr.* ii. 153. *Smith brit.* 971; *engl. t.* 928. *Bot. arr.* ii. 1029; *ed. IV.* ii. 90. *t.* 20. (*Fl. dan.* *t.* 425 is *C. villosa*.—*Leers* 198. *t.* 14. *f.* 2 is *C. disticha*.)
- C. maritima humilis*, radice repente, caule trilatero, spica spadicea nonnihil foliosa, capitulis crassioribus, capsulis marginatis. *Mich. gen.* 67. *t.* 33. *f.* 4.

*C. palustris elatior*, radice repente, caule trilatero, spica spadicea, capitulis crassioribus, capsulis marginatis. *Mich.* 67. *t.* 33. *f.* 3.

*Grauen cyperoides minus*, repens, spica divisa.  
*Loes.* 116. *t.* 31.

*Gramini cyperoidi ex monte ballon simile humilius*, in maritimis et arenosis nascens. *Raii hist.* ii. 1297; *syn.* 423. *Pluk. phyt.* *t.* 34. *f.* 8.

Seed oval, fuscous, somewhat shining, slightly compressed, obsoletely triquetrous, each end terminated by a very short truncate prominence. *Obs.* 8332.

*CAREX arenaria*. *Lew. disp. by Dunc.* 340.

*Schumacher*, account from *in phys. journ.* vii. 81; & *med. rev.* vii. 280.

*Sarsaparilla germanica*. *Murr.* v. 310.

3. *CAREX villosa*. Stigmata 3. Calyx ovate, acuminate, triquetrous, villose. Spikes villose, the upper male; the lower female, remote. Leaves villose. *Obs.* 5123. On the side of the Cromford canal near Aldercar, in Derbyshire.

*C. hirta*. *L. sp.* 1389. *Huds.* 414. *Lightf.* 568. *Bot. arr.* ii. 1061. *Smith brit.* 1008; *engl.* *t.* 685. *Good. in lin. tr.* ii. 208. *Leers* 208. *t.* 16. *f.* 3. (*Fl. dan.* *t.* 379 is *C. filiformis*.)

*C. arenaria*. *Fl. dan.* *t.* 425.

*Grauen cyperoides polystachyon lanuginosum*. *Raii hist.* 1294; *syn.* 418. *Hist. ox. s.* 8. *t.* 12. *row 1.* *f.* 10.

*Cyperoides polystachyon*, *lanuginosum*. *Tourn. paris.* 262. *descr.* *Vaill. paris.* 44.

Root creeping. Stem 7 to 20 inches long. Leaves recurvate, from  $1\frac{1}{4}$  to  $2\frac{1}{2}$  tenths of an inch broad, villose, the keel and margins towards the end scabrous

with patent microscopic aculei. Spikes, male from 1 to 3, mostly distinct, the 2 upper sometimes continuous; female 3, sometimes 2, the lowermost towards the base of the stem. Peduncle of the lowermost spike sometimes a little longer than the petiole of the floral leaf, sometimes one third longer. Bracteae ovate, with a mucro, patent, sometimes 4 times as long as the capsule; mucro subulate microscopically aculeate at the margin. Obs. 6347. Moist meadows. 12 July.

*SARSAPARILLA germanica*. Murr. v. 311.

## 842. SCLERIA.

Male flowers bracteate. Calyx of the female flowers diphyllous triphyllous and tetraphyllous. Nut. From Swartz occid. i. 86. t. 3.

1. *SCLERIA lithosperma*. Stem triquetrous, smooth. Leaves smooth. Panicle terminal, simple, elongate, filiform. Nuts globular, smooth, shining. L. a Willd. iv. 316.  
*Scirpus lithospermus*. L. sp. cd. i. 51.  
*KADEN-PULLU*. Rheedee xii. 89. t. 48.

## 843. COMPTONIA.

Bracteae ovate, uniflorous. Calyx of the male flowers none; of the female flowers hexaphyllous; the 2 larger phylla linear, opposite, as long again as the bractea, the other 4 very small, 1 at the base of the

longer phylla on each side. *Styles 2. Nut. Obs. 5710. H. K. L'herit.*

Differs from *Myrica* in the calyx of the female flowers.

1. *COMPTONIA asplenifolia.* *H. K. iii. 334. Mitchens ii. 203. Lherit.*

*Liquidambar peregrinum.* *L. a Murr. 860; a Reich. iv. 171.*

*Myrica foliis oblongis alternatim sinuatis.* *Gron. virg. 155.*

*Myrti brabanticae affinis americana, foliorum laciniis asplenii modo divisus.* *Pluk. alm. 250; phyt. t. 100. f. 6. 7.*

*Flowers, male and female* in distinct spikes and sometimes in the same spikes, the female at the end of the spike. *Obs. 5710.* Specimen gathered in Fothergill's garden.—*Stamina 3 & 4.* *Filaments united at the base.* *Obs. 5776.* In Mr. Wilkinson's garden.

*LIQUIDAMBAR asplenifolium.* *L. sp. ii. 1418; —Marsh. 77. Schoepf 141.*

## 844. TRAGIA.

*Calyx* of the male flowers tripartite and quadripartite; of the female flowers quinquepartite. *Corolla* none. *Style* trifid. *Capsule* tricoccous. *Seeds* solitary. *Obs. 5562. L.*

1. *Stem scandent.* *L. a Willd.*

1. *TRAGIA volubilis.* Phylla of the female flowers undivided. Leaves cordato-elliptic, and cordato-

ovate. *Obs.* 5562. Specimen gathered by Broughton in Jamaica.—*Obs.* 8841. Specimen gathered by Dr. Wright in Jamaica.—*L. a Willd.* iv. 322; *sp.* 1390.

*T. foliis cordato-oblongis, caule volubili.* *Loefl.* 233.

*T. scandens, foliis hastatis serratis hispidis.* *Browne* 336.

*Urtica racemosa scandens angustifolia, fructu tricocco-*  
*Sloane cat.* 38; *hist.* i. 123. *t.* 82. *f.* 1.

*T. scandens, longo betonicae folio.* *Plum.* *ic.* ii. 250. *t.* 252. *f.* 1.

(*T. alia scandens, urticae folio.* *Plum.* *ic.* ii. *t.* 252.  
*f.* 2, has a hispid stem.

*Funis urens.* *Rumph.* v. 13. *t.* 9, has panicles and elliptic leaves.

Stem hirsutulous. Leaves cordato-elliptic. *Obs.* 5692.—Leaves cordato-ovate and ovate. *Obs.* 8841.

*TRAGIA volubilis.* *Swartz.* *obs.* 353.

## 2. *Stem erect.* L. a Willd.

2. *TRAGIA Chamaelea.* Leaves linear-lanceolate, petiolate, obtuse, mucronate. Stem branched, diffuse. Valves of the capsules denticulate on the back. *L. a Willd.* iv. 326; *sp.* 1391.

*T. foliis lanceolatis obtusis integerrimis.* *L. zeyl.* 158, and in the description he has *folia integrirnia*.

*Chamaelaea foliis linearibus, flosculis spicatis, echinato fructu.* *Burm. J. zeyl.* 59. *t.* 25. Leaves described as finely crenate.

*CODI-AVANACU.* *Raii hist.* ii. 1710. *Rheede* ii. 63. *t.* 34. Margin of the leaves described and figured as finely crenate.

## 844\*. ANDROPOGON.

*Bracteae* none. *Calyx* diphyllous. *Petal* 1, linear, membranaceous. *Arista* twisted, inserted into the receptacle between the inner phyllum and the germen. *Styles* 2. *Obs.* 2232. *A. Ischaemum*.—*Obs.* 3254. *A. contortum*.—*L.*

Flowers in some species as *A. contortum*, male and female, in others hermaphrodite and male, in others hermaphrodite. *Obs.* 3254.

1. ANDROPOGON *caricosum*. Spike solitary, imbricate. Seeds hirsute. Aristae naked, twisted. *L.* sp. 1480.

*GRAMEN caricosum*. *Rumph.* vi. 17. t. 7. f. 2. *A.*

2. ANDROPOGON *Schoenanthus*. Spikes of the panicle imbricate, conjugate, paniculate, bracteate. Flowers in threes, the intermediate one hermaphrodite, with a glabrous arista; the lateral ones pendunculate, male, without aristae. Rachis pilose. *L. a Willd.* iv. 915; *sp.* 1481. *Lour.* ii. 793. *Thunb. trav.* iv. 146. In Java.

*Lagurus panicula spiculis conjugatis ovatis*. *L. zeyl.* n. 465.

*Gramen dactylon zeylanicum*, radice tuberosa aromatica dulci odorata. *Burm. J. zeyl.* 107.

*Gramen dactylon aromaticum*, multiplice panicula, spicis brevibus tomento candidantibus ex eodem pediculo binis. *Ptk. alm.* 175; *phyt. t.* 190. f. 3.

*Schoenanthus amboinicum*. *Rumph.* v. 181. t. 72. f. 2.

- Kalanduru. *Herm. zeyl.* 66.  
*Juncus odoratus aromaticus.* *Bauh. Casp. theatr.*  
 163, cop. in  
*Gramen ad junceum accedens aromaticum majus syri-*  
*acum.* *Hist. ox. s. 8. t. 9. f.* 25.  
*Juncus odoratus tenuior.* *Park. theatr.* 144.  
*Schoenanthos, sive Juncus odoratus.* *Bauh. J.* ii.  
 515.  
*Juncus odoratus.* *Garc. ap. Clus. exot.* 203, no fig.  
 —204. fig. by *Clus.* from seeds received from Italy,  
*repr. in Lob. obs.* 42,  
*Schoenanthus.* *Lob. ic. i.* 82, and *Ger. by Johns.*  
 43. Root and shoots.  
**SCHOENANTHUS.** *Alst.* ii. 223. *Berg.* 823.  
*Carth.* iii. 92. *Dale* 258. *Geoffr.* ii. 261. *Herm.*  
 482. 583. *Linn.* 264. *Murr.* v. 443. *Rutty* 470.  
*Spielm.* 296. *Thunb. trav.* ii. 269. *Vog.* 138.  
*Schoenanthus.* *Schrod.* 677.  
*Juncus odoratus.* *Lew.* ii. 20. *Mill. Jos.* 248.  
*Monro* iii. 150.  
*Schaenante.* *Chom.* 343.

- 3. ANDROPOGON *Nardus.*** Branches of the panicle  
 supradecomposed, proliferous. *L. sp.* 1482; *mant.*  
 500.  
*Arundo fareta, Tubu sala.* *Rumph.* iv. 21. t. 6.  
*Calamus aromaticus.* *Dalech.* ii. 1888. *Bauh. Casp.*  
*theatr.* 263.  
*ARUNDO zeylanica farcta, odore et sapore calami*  
*aromatici.* *Burm. J. zeyl.* 35.

- 4. ANDROPOGON *Jwarancusa.*** *Jones in as. res.*  
 iv. 108.  
**TERANKUS.** *Blane, Mr. in ph. tr. abr. by Hutt.*

xvi. 658. t. 8. f. 1; account from in med. comment.  
dec. II. vi. 114, & med. facts i. 153.

5. ANDROPOGON *littoralc.* Wright in med. journ.  
223.

### 845. FICUS.

*Calyx* of the male flowers tripartite, of the female flowers quinquepartite. *Corolla* none. *Style* and *seed* 1. *Obs. 4754. L.*

Flowers growing on the inside of a concave receptacle. *Obs. 4754.*

1. *Leaves undivided; margin entire.* Vahl.

1. FICUS *excelsa.* Leaves lanceolato-elliptic, narrower at the base on one side, acute. Fruit pedunculate, globular. *Vahl. enum. ii. 195.*

*ALTI-MEER-ALOU.* *Rheede iii. 75. t. 58.*

2. FICUS *glomerata.* Leaves elliptic, glabrous, mostly trinervose, veined. Fruit elliptic, bracteate, pedunculate, aggregate. *From L. a Willd. iv. 1148,* &—*Roxb. ii. 13. t. 123.*

3. FICUS *politoria.* Leaves elliptic, scabrous. Fruit globular, scabrous, pedunculate, axillary, solitary. Peduncles petioles and branches scabrous. *From Lour. ii. 820, &*

*F. Ampelos.* *Smith in cycl. xiv. part ii. n. 28.*  
*Burm. N. ind. 226,*

*Folium politorium.* *Rumph. iv. 128. t. 63.*

TEREGAM. *Rheede* iii. 79. t. 60.

4. *FICUS amplissima*. Leaves elliptic, acuminate, glabrous. Fruit globose, glabrous, aggregate, nearly sessile. *From Vahl. & Willd.—Smith in cycl. xiv. part ii. n. 68.*

*F. indica*. *Vahl. enum. ii. 195. Hort. kew. iii. 451. L. a Willd. iv. 1146; sp. 1514 β* (The synonyms belong to an American species.)

*F. foliis lanceolatis integerrimis*. *L. cliff. 471.*

*Leaf* cordato-elliptic, slightly acuminate, acute, slightly cordate at the base, glabrous, microscopically tuberculate above; tubercles whitish; margin entire, slightly marginate; lamina 9 inches long. *Petiole* glabrous,  $2\frac{1}{2}$  inches long, shorter than the breadth of the lamina. *Obs. 8858.* Specimen from Prof. Jos. F. Jacquin, probably originally from the gardens of Holland.—*Leaf* ovato-lanceolate, glabrous, microscopically tuberculate above. *Petiole* as long as the breadth of the lamina. *Obs. 8859.* Specimen gathered in Fothergill's garden.

*TSJELA*. *Rheede* iii. 85. t. 63. Leaves elliptic, sometimes acuminate.

5. *FICUS nitida*. Leaves ovali-elliptic, glabrous, microscopically tuberculate, marginate; veins parallel. Fruit sessile, umbilicate. *Obs. 8857.* Specimen gathered in Messrs. Brunton and Hunter's nursery, in flower. 5 Sept.—*Obs. 8396.* Specimen gathered in Fothergill's garden.—*Vahl. enum. ii. 191. L. a Willd. iv. 1145. Donn 241.*

*Leaves* ovali-elliptic oval and obovate, sometimes shortly acuminate, from 2 to  $3\frac{1}{2}$  inches long including

the petiole; end rounded. *Petiole*  $2\frac{1}{2}$  times shorter than the breadth of the leaf. *Fruit* roundish,  $3\frac{1}{2}$  tenths of an inch broad, axillary, in pairs. *Obs.* 8857.

*ITTI AREALOU.* *Rheede* iii. 69. t. 55.

6. *FICUS stipulata.* Leaves elliptico-oval and cordate, unequally cordate at the base, glabrous, reticulate. Stem creeping. Branches striate, pubescent. Petioles and stipulae pubescent. *Obs.* 8362. Specimen gathered in Fothergill's garden without fructifications.—*Thunb.* in *lin. tr.* ii. 327. *Hort. kew.* iii. 452. *L. a Willd.* iv. 1139.

*F. scandens.* *Sal. R. hort.* 16. *Smith in cycl. xiv.* part ii. n. 15. *Lam.*

*F. foli.s ovatis acutis integerrimis, caule repente.*  
*L. am.* i. 220. n. 15, probably from

Inu Itabu. *Kaempf. am.* 803. t. 804. Fruit half as long as the leaves.

*Leaves* from  $1\frac{1}{2}$  to  $3\frac{1}{2}$  inches long, obsoletely cordate at the base. *Stipulae triangulari-ensiform*, ferruginous. *Obs.* 8362.—*Leaves* of younger and less luxuriant plants cordate, obtuse,  $\frac{1}{4}$  inch long. *Obs.* 8860. Specimen from Mr. Hunter's nursery.

*FICUS pumila.* *L. sp.* 1515. *Thunb. jap. p.* xxxii. 33;—*trav.* iii. 62.

*Varinga repens.* *Rumph.* iii. 134? Leaves elliptico-oval, 3 to 5 inches long. Fruit of the size of black cherries.

*Varinga rubra.* *Rumph.* t. 85?

7. *FICUS pedunculata.* Leaves ovato-elliptic; acuminate, obsoletely cordate at the base, glabrous, microscopically dotted above. Fruit globose, pe-

dunculate, mostly in pairs, bracteate. *Obs.* 8844. Specimen gathered by Dr. Wright in Jamaica. The account of the fruit from *L. a Willd.* iv. 1138, & *Vahl. enum.* ii. 184. *Hort. kew.* iii. 450.

*F. arbor americana*, arbuti foliis non serratis, fructu pisi magnitudine, funiculis e ramis ad terram demissis prolifera. *Pluk. alm.* 144; *phyt. t.* 178. *f.* 4.

(*F. citri folio*, fructu parvo purpureo. *Cat. app. t.* 18, has leaves attenuate towards the base and peduncles in fours.)

### WILD FIG. Graing. 29.

8. *FICUS cotonifolia*. Leaves elliptico-ovate, acuminate, coriaceous, glabrous above, pubescent underneath. Fruit sessile, mostly in pairs. *From Jones;* *Rheede, Clus. &*

*F. cotoneaefolia*. *Vahl. enum.* ii. 189.

Citronleaved Ficus. *Jones in as. res.* iv. 321.

*F. citrifolia*. *L. a Willd.* iv. 1137; from *Rheede*.

*Arbor ex goa, sive indica*. *Ger. by Johns.* 1514, *repr. from, &*

*F. indica arcuata*. *Park. theatr.* 1499, *cop. from FICUS indica*. *Clus. exot. l*, which *cop. in Tab. ic. 957, Bauh. J. i. pars i.* 145, & *Dalech.* 1853. *L. am. i. 217. n. 6, & sp. ii. 1514* α from authors. *Smith in cycl. xiv. part ii. n. 41.* (*Forst. G. austral.* n. 406; *esc. 38*; is described as bearing fruit on the trunk.)—*Dale 285.*

Katou-alou. *Rheede* iii. 73. *t.* 57. *Raii hist.* ii. 1437.

Varinga latifolia. *Rumph.* iii. 127. *t.* 84. Fruit represented as cylindrico-oval.

9. *FICUS erecta*. Leaves oblong, acute, glabrous, re-

ticulate underneath. Stem decumbent. Branches erect. Fruit pedunculate. Thunb. in lin. tr. ii. 327. Kaempf. ic. 1. t. 4.

F. pumila. Thunb. jap. 33 8. L. mant. 504, & a Murr. 922, on the authority of  
FICUS erecta. Smith in cycl. xiv. part ii. n. 59.  
Thunb. trav. iii. 62.

10. FICUS *pyrifolia*. Leaves oblong, slightly acuminate, ciliate. From Vahl. enum. ii. 187? Burm. N. ind. 226?

*ITTY-ALU*. Rheede i. 49. t. 26. Leaves elliptico-oval, shortly acuminate, shining.

11. FICUS *benghalensis*. Leaves oval, glabrous, quinque-nervose at the base. Fruit globular, sessile, in pairs. Obs. 8842. From the Lonsborough garden. The account of the fruit from Trew & Vahl. enum. ii. 187. Leaves ovato-oblong.—L. sp. 1514. Lour. ii. 817. Hort. kew. iii. 450. Leaves ovate, cordate.

F. *ovatis integerrimis obtusis, caule inferne radicato*.  
L. cliff. 471. Roy. 212.

F. *bengalensis*, folio subrotundo, fructu orbiculato. Boerh. ii. 258. Comm. J. hort. i. 119. t. 62. No fructifications. Leaves cordato-oval.

F. *foliis ovatis integerrimis obtusis, caule inferne radicato*. Trew sel. 19. t. 50.

F. *americana*, latiore folio venoso. Pluk. phyt. t. 178. f. 1. No fructifications.

*PERALU*. Rheede i. 49. (where read f. 27.) t. 27. Leaves ovate.

1. FICUS *Grandatum*. Leaves ova te. Peduncles ter-

rninal, in pairs, horizontally diverging. Fruit globular, bracteate. *Forst. G. austral. n.* 408;—*esc. 37.*

13. FICUS *racemosa*. Leaves ovate, acute, dotted. Stem arboreous. *L. a Murr.* 922; *sp.* 1515. *Hort. kew.* iii. 452.

*F. foliis ovatis acutis integerrimis, caule arboreo, fructu racemoso.* *L. am.* i. 220. *n.* 17.

*ATTY-ALU.* *Rheede* i. 43. *t.* 25. *Raii hist.* ii. 1434.

*Grossularia domestica.* *Rumph.* iii. 136. *t.* 87. 88. Leaves elliptic. Fruit round.

14. FICUS *benjamina*. Leaves ovate, acuminate, transversely striate; margin smooth. *L. mant.* 129. *Vahl enum.* ii. 187. *Hort. kew.* iii. 450. *Lour.* ii. 818.

*F. arbor, densioribus foliis parvis integris, amboinensis.* *Pluk. alm.* 145; *phyt. t.* 243. *t.* 4. Leaves ovato-oval, acuminate.

(Itty alu. *Rheede* i. 45. *t.* 26, is *F. pyrifolia*.)

*VARINGA* *parviflora.* *Rumph.* iii. 139. *t.* 90. Leaves elliptic.

15. FICUS *septica*. Leaves ovate, acuminate. Stem erect. Fruit solitary. *Burm. N. ind.* 226. *Vahl. enum.* ii. 186. Leaves oblong, with a long acumen.—*Lour.* ii. 819. Leaves elliptic.—*Rumph.* iii. 153. *t.* 96. Leaves elliptic, attenuate.

*HANDIR-ALOU.* *Rheede* iii. 77. *t.* 59. Leaves ovali-elliptic, slightly attenuate at the base.

16. FICUS *terebrata*, Leaves obovate, rather acute

veined. Fruit globular, in pairs, sessile. *L. a Willd.* iv. 1145? from Bory.

**TSJEROU-MEER-ALOU.** *Rheede* iii. 71. t. 56. Leaves ovato-elliptic, attenuate at the base.

17. **FICUS venosa.** Leaves ovate, subcordate, acute, entire at the margin, smooth, dotted on the upper surface. *Hort. kew.* iii. 451. *Vahl. enum.* ii. 185; (401, & *L. a Willd.* iv. 1136, is a distinct species.)

**TSJAKELA.** *Rheede* iii. 87. t. 64.

*F. malabarica* semel in anno fructifera, fructu minimo. *Raii hist.* ii. 1435.

18. **FICUS citrifolia.** Leaves cordato-oval, rather acute, nervose, glabrous above, villose underneath. Fruit globose, solitary, pedunculate. From *Vahl. enum.* ii. 183. *Lam.* is said to describe the leaves as glabrous on both sides.

*F. folio citri acutiore, fructu viridi.* *Plum. ic.* 123. t. 131. f. 2. Leaves oval. Fruit in pairs.

**AMACOZTIC.** *Hern.* 81. t. 82.

19. **FICUS caudata.** Leaves cordato-ovate, mucronate. *Obs.* 8388. Specimen gathered in Fothergill's garden.

*F. religiosa.* *Vahl. enum.* ii. 181. *L. sp.* ii. 1514. *Hort. kew.* iii. 450. *Gaertn.* ii. 484. t. 179.

*F. foliis cordatis integerrimis acuminatis.* *L. cliff.* 471; *am. i.* 220. *n. 16.* *Roy.* 212.

*F. malabariensis,* folio cuspidato, fructu rotundo parvo gemino. *Pluk. alm.* 144; *phyt.* t. 178. f. 2.

(*Arbor conciliorum.* *Rumph.* iii. 142. *t.* 91. 92,  
not the plant.)

**AREALU.** *Rheede* i. 47. (where read f. 23.) *t.* 28.  
*Raii hist.* ii. 1484.

20. **FICUS Chanas.** Leaves cordate, scabrous. *Forsk.* 219.

2. Leaves, undivided, serrate. *Vahl.*

21. **FICUS grossularioides.** Leaves ovate, serrate at the end, yellowish white underneath. *Burm. N. Ind.* 227.

22. **FICUS oppositifolia.** Leaves opposite, obovato-oblong, acute, scabrous above, hirtose underneath. Fruit globose, umbilicate, hirtose, pedunculate. *L. a Willd.* iv. 1151.

*F. daemonum.* *Vahl. enum.* ii. 198.

(*Perin-teregam.* *Rheede* iii. 81. *t.* 61, has alternate leaves.)

**FICUS oppositifolia.** *Roxb.* ii. 14. *t.* 124. Leaves elliptic.

23. **FICUS morifolia.** Leaves cordato-ovate, scabrous, longer than the petioles. *Forsk.* 179.

24. **FICUS semicordata.** Leaves unequally cordate, slightly serrate, rough, slightly hairy underneath. Fruit pedunculate, in pairs, downy, on branches from near the root. *From Smith in cycl. xiv. part ii. n. 71. Buch.*

25. **FICUS auriculata.** Leaves cordate, acuminate,

subserrate, tomentose. Fruit auriculate, racemose.  
Racemi terminal. *Lour.* ii. 819.

3. *Leaves undivided; margin angular and sinuate.*  
Vahl.

26. FICUS *Sur.* Leaves lanceolate, subcordate at the base, smooth; margin dentato-repandose. *Forsk.* 180.

27. FICUS *toxicaria.* Leaves cordato-ovate, subdenticulate, tomentose underneath. *L. mant.* 305.  
*FICUS padana.* *Burm. N. ind.* 226.

28. FICUS *aspera.* Leaves obliquely cordate, sinuato-dentate, rough on both sides. Fruit turbinate. Margin of the bractea obsolete, adnate, *Forst. G. austral.* n. 404;—*esc.* 36.

29. FICUS *Sycomorus.* Leaves cordate, oval, obtuse-angular, repandose, glabrous. *Vahl. enum.* ii. 198. *L. a Murr.* 921; Leaves tomentose underneath; *sp.* ii. 1513; *mant.* 504. *Lour.* ii. 816. Leaves tomentose underneath.

*F. foliis cordatis subrotundis integerrimis.* *Roy.* 211.

*F. indica, tiliae folio subtus albo & villoso, polyrhizos, sive filamentis e summis ramis ad terram missis radicosa.* *Pluk. alm.* 144; *phyt. t.* 178. *f. 3,* with fruit separate.

*F. folio mori, fructum in caudice ferens.* *Raii hist.* ii. 1439.

*Sycomorus Giumetz appellata.* *Alp. Aeg. t. 10, cop.* in a *Vestl.* ii. 12. *t. 5, &*

- Sycomorus Alpini. *Bauh. J.* i. pars i. 124.  
 F. cypria. *Dalech. app.* 21, *abr. in Bauh. J.* i.  
 pars i. 124,  
 Sycomorus. *Cam. epit.* 180. f. 2, &  
 Sycomorus altera, seu F. cypria. *Park. theatr.* 1493,  
 outer fig.—*Raii hist.* ii. 1439. The separate leaf  
 in *J. Bauh.* and *Park. cop. from*  
 Sycomorus. *Cam. epit.* 180. f. 3. f. 1, *cop. from*  
*Matth.* 285, *which cop. in*  
 Sycomorus Matthioli. *Bauh. J.* i. pars i. 124,  
 Sycomorus, sive F. aegyptiacā. *Park. theatr.* 1493,  
 &  
**SYCOMORUS.** *Lob. obs.* 611, *which repr. in ic.*  
 ii. 197. *Dalech.* 340. *Tab. ic.* 975. (*Ger. by*  
*Johns.* 1509 has serrate leaves.)—*Dale* 285.  
 F. Sycomorus. *Bry.* 198.  
 F. cypria. *Dale* 285.  
 Dumez. *Poc.* i. 205.

#### 4. Leaves undivided & lobate.

30. **FICUS rufescens.** Leaves ovato-oblong, subdenticulate, scabrous. Branches petioles and fruit hispid. *From Vahl. enum.* ii. 203, from Lam.  
**VALLI-TEREGAM.** *Rheede* iii. 83. t. 62.  
 F. indica sylvestris, indis Isis &c. *Camell. ap.* *Raii hist.* iii. *app.* 50, *n.* 12?

#### 5. Leaves divided. Vahl.

31. **FICUS Carica.** Leaves trilobate, scabrous. Fruit turbinate, umbilicate, smooth. *Vahl. enum.* ii. 204. *L. sp.* ii. 1513; *am.* i. 215. *Lour.* ii. 816. *Hort. kew.* iii. 449. *Woodv.* ii. 354. *t.* 130. *Thornt.* *t.* 876. *Asso n.* 987. In uncultivated ground.

- F. communis.* *Gou. monsp.* 435. *Magn. monsp.* 97.  
*Boerh.* ii. 258. *n.* 1 to 4.
- F. foliis palmatis.* *L. cliff.* 471; *hort.* 305. *Roy.* 211.
- F. foliis lobatis, fructu majori.* *Browne* 109.
- F. sativa.* *Fuchs.* 711, c. 239, *impr. in*  
*Ficus.* *Trag.* 1050, which repr. in *Cord. fol.* 184.  
*p. 2.* *Bauh. J. i. pars i.* 128. *Tab.* 975. *Park.*  
*par. t.* 565. *f. 6.* *Malth.* 288, *cop. in Dalech.*  
*336.* *Blackw. t.* 125. *Raii hist.* ii. 1431. *Dod.*  
*800,* *repr. in Lob. ic. ii.* 197, *Ger. by Johns.*  
*1510, &*
- Fici.* *Lob. obs.* 612, & *cop. in*
- F. vulgaris.* *Park. theatr.* 1494.
- Chamaeficus.* *Ger. by Johns.* 1510.  
*Receptacle* turbinate, fleshy; mouth closed by con-  
 nient scales. *Stamina* 3. *Obs.* 4754.
- FICUS.** *Alst.* ii. 284. *Dale* 285. *Herm.* 393.  
*Mill. Jos.* 196. *Mead. mon. i.* 110. *Schrod.* 589.
- F. Carica:* *Fruit.* *Pharm. edin.—Bry.* 194. *Lew.*  
*disp. by Dunc.* 226. *Pears. R. i.* 63. 196.
- Figtree. *Clegh.* 83.
- GROSSUS.** *Rutty* 197. *Spielm.* 87.
- CARICA.** *Figs.* *Pharm. lond. & noviss.—Spielm.*  
*87.*
- Caricae.* *Carth.* ii. 188. *Hill.* 483. *Lew.* i. 285.  
*Linn.* 270. *Murr.* iv. 578. *Rutty* 198. *Schoepf*  
*155.*
- Caricae pingues.* *Berg.* ii. 837. *n.* 523. *Vog.* 248.
- F. passae.* *Geoffr.* ii. 320.
- Figs.* *Chalm.* i. 92; ii. 120. *Clegh.* 195. *Cull. i.*  
*254.* *Fordyce, G. ser.* ii. 36; iii. 194. *Pringle*  
*139.* *Und.* ii. 26.

*♂ mas.* (Variation.) Flowers male. *From L. sp.*  
*L. a Schreb.* 746.

*F. Carica Caprificus.* *Gou. hort.* 521. On garden  
 walls at Montpellier.

*F. communis* β. *Gou. monsp.* 435.

*F. sylvestris.* *Magn. monsp.* 97.

*CAPRIFICUS.* *L. am. i.* 222. *Bauh. J. i. pars*  
*i.* 134. No fig.—*Dale* 285.

## 846. HERNANDIA.

*Calyx* of the male flowers none, of the female flowers  
 inferior, monophyllous, entire. *Petals* of the male  
 flowers 6, of the female flowers 8, superior. *Drupe*  
 dry, monospermous. *From Jacq. L.*

1. *HERNANDIA sonora.* Leaves peltate. *L. sp.*  
*ii.* 1391; *cliff.* 485. *t.* 23? No fructifications.—  
*Hort. kew.* *iii.* 333? *Forst. G. austral.* *n.* 340?  
*Jacq. amer.* *8vo,* 316?

*H. arborea*, foliis cordato-peltatis, capsula tenui  
 aperta. *Browne* 373?

*Nux vesicaria oleosa*, foliis umbilicatis. *Pluk. alm.*  
 266; *phyt. t.* 208. *f. 1?* In fruit.

Balantine. *Pet. gaz. t.* 43. *f. 1?* A leaf.

*ARBOR REGIS.* *Rumph. ii.* 257. *t.* 85, is de-  
 scribed as having berries containing 2 and 3 seeds.

2. *HERNANDIA ovigera.* Petioles inserted into the  
 base of the lamina. *From L. sp.* *ii.* 1392.

*ARBOR OVIGERA.* *Rumph. iii.* 193. *t.* 123.

## 847. PHYLLANTHUS.

*Calyx* sexpartite. *Corolla* none. *Nectarium* of the female flowers angular, surrounding the germen. *Filament* columnar. *Styles* 3. *Capsule* trilocular. *From L. & Schreb. & Willd. L.*

P. *Emblica* with a berry and a trilocular nut containing 6 seeds seems to be generically distinct. *Juss. 387.*

1. **PHYLLANTHUS squamifolius.** Leaves pinnate; folioles roundish, imbricate. Flowers axillary, solitary. *From NYMPHANTHUS squamifolius. Lour. ii. 663.*

*Anthera quadrilocular.*

2. **PHYLLANTHUS Niruri.** Leaves pinnate, floriferous. Flowers pedunculate. Stem herbaceous, erect. *L. sp. ii. 1592. Hort. kew. iii. 334.*

*Nymphanthus Niruri. Lour. ii. 665.*

*Phyllanthus. L. ups. 282.*

*Urinaria indica erecta vulgaris. Burm. J. zeyl. 230. t. 93.*

*Kirganeli. Rheedex. 29. t. 15.* Flowers represented as sessile.

*Peduncles* opposite to the folioles, one third as long as the folioles. *Obs. 8359.* Specimen from Prof. Jos. F. Jacquin.

**HERBA MOERORIS** alba. *Rumph. vi, 41. t. 17. f. 1,* representing the flowers as sessile, and in the descr. no mention is made of peduncles. Is it not a var. of P. *Urinaria*?

3. **PHYLLANTHUS Urinaria.** Leaves pinnate, flo-

riferous. Flowers sessile. Stem herbaceous, procumbent. *L.* sp. ii. 1393. *Lour.* ii. 677.

Tsjeru-kirganeli. *Rheede* x. 31. t. 16.

*Fruticulus capsularis hexapetalos, brevioribus foliis et angustis.* *Pluk. alm.* 159; *phyt. t.* 183. f. 6, has very short peduncles.

*HERBA MOERORIS* rubra. *Rumph.* vi. 42. t. 17. f. 2, is represented in the fig. as erect.

4. *PHYLLANTHUS Emblica.* Leaves pinnate, floriferous. Stem arboreous. Fruit a berry. *L.* sp. ii. 1393. *Hort. kew.* iii. 334. *Swartz. obs.* 355.

Nellika. *Zan.* 154. t. 61, repr. in

Nellika acaciae foliis, fructu molli globoso. *Zan.* a *Mont.* 174. t. 131. In fruit.

Nilicamaram. *Raii hist.* ii. 1557. *Rhœde* i. 69. t. 38, flowers below the folioles, repr. in

*MYROBALANUS Emblica.* *Blackw.* t. 400.—f. 7 to 10, the drug.—*Rumph.* vii. 1. t. 1.—*Alst.* ii. 300. *Dale* 306. *Mill. Jos.* 303. *Murr.* iv. 127.

Myrobalani Emblicae. *Geoffr.* ii. 330. *Herm.* 348.

*Lew.* ii. 118. *Linn.* 239. *Spielm.* 420. *Vog.* 272.

Myrobalani Emblici. *Rutty* 337.

## T E T R A N D R I A.

### 848. CICCA.

*Calyx* and *corolla* none. *Styles* 4. *Berry* tetraspermous. *Lour.* *L.*

1. *CICCA racemosa*. Flowers racemose. *From Lour.*  
 ii. 680.  
*Averrhoa acida*. *L. sp. i.* 613.  
*Averrhoa frondosa*. *Sal. R. hort.* 318.  
 Terme. *Gaerln.* ii. 487. t. 180. A drupe.  
*Malus indica*, fructu parvo rotundo a<sup>cido</sup> striato.  
*Burm. J. zeyl.* 148.  
*Neli-pouli*. *Rhcede* iii. 57. t. 47. 48. *Raii hist.* ii.  
 1450.  
*Cheramela*. *Rumph.* vii. 37. t. 33. f. 2. A branch  
 with fruit below the leaves, and at the base of the  
 lower leaves racemi in flower.  
*CICCA disticha*. *L. a Willd.* iv. 332; *mant.* 124;  
*a Murr.* 848; *fil. suppl.* 416.—*Edw. Bry.* i. p.  
 xxxiv.  
*Cherimelle*. *Thunb. trav.* iv. 178; ii. 292.  
*Cherrema*. *Cook in Hawkesw.* iv. 350.

## 849. TRICARIUM.

*Calyx* of the male flowers tetraphylloous, of the female  
 flowers quadripartite. *Corolla* none. *Nectaria* of  
 the male flowers 4, glandular. *Stigma* laciniate.  
*Berry* trilocular; cells monospermous. *From*  
*Lour.*

1. *TRICARIUM cochinchinense*. *Lour.* ii. 681.

## 850. BETULA.

*Bracteae* of the male flowers in threes, uniflorous, the

lowermost peltate; those of the female flowers triflorous and bisporous, trilobate. *Calyx* of the male flowers pentaphyllous and hexaphyllous; of the female flowers none. *Corolla* none. *Styles* 2. *Seeds* winged. *Obs.* 2430. 8175. *L.*

1. **BETULA alba.** Lateral lobes of the scales of the strobili rounded. Leaves deltoid, acute, doubly serrate, glabrous. Petioles glabrous, longer than the peduncles. *From H. K.* iii. 336. *L. suec. n.* 859; *sp. ii.* 1393. *Bot. arr. ii.* 1065. *Smith brit.* iii. 1012. *Scop. carn. ii. n.* 1171. *Host austr.* 513.

**B. foliis cordatis serratis.** *L. lapp. n.* 341.

*Betula.* *Blackw. t.* 240. *Math. 142.* *Cam. epit.* 69. *Trag. 1113.* *Dalech. 92.* *Tab. ic.* 982. *Bauh.* *J. i. pars ii.* 148. *Raii hist.* ii. 1410; *syn.* 443. *Tourn. paris.* 58. *Boerh.* ii. 182. In Holland.

*Bracteae* of the male flowers incumbent, the 2 inner smaller; those of the female flowers green, pubescent below; lobes rounded; intermediate lobe oval, minutely cuspidate, patent; lateral lobes twice as small as the intermediate one, roundish. *Calyx* shorter than the inner bracteae, whitish; phylla oval, concave, the outer larger. *Stamina* 4. *Female flowers* 3, incumbent, depressed. *Obs.* 2430.

*Native of Germany, the north of France, Britain, and the north of Europe.*

**BETULA.** *Pharm. austriaco-prov.* 24. *suec.*—  
*Berg.* ii. 728. *Carth.* ii. 165. *Chom.* 254. *Dale* 279. *Geoffr.* iii. 188. *Herbstaedt, account from in phys. journ.* iv. 250. *Lew.* i. 215; *in Neum.* ii. 72; *disp. by Dunc.* 167. *Linn.* 239. *Mill. Jos.*

86. *Murr.* i. 69. *Ploucq. bibl.* i. 189. *Schrod.*  
547. *Vog.* 330.

- *vulgaris*. Branches ascending. *Hort. kew.* iii. 336.  
 B. *alba*. *Roth germ.* i. 404; ii. *pars* ii. 475.  
 B. *virgulis erectis*. *Vaill. paris.* 21.  
 The Birch tree. *Evel. by Hunt. t. at* i. 218. *h, H,*  
*k, K*, are 3 distinct bracteae united at the base.—  
*Le Pluche nat. del.* ii. 312. *t. 21*.
- *pendula*. Branches scabrous with resinous tubercles.  
 Obs. 8194. Near Chesterfield.—*L. suec*  $\beta$ ; *lapp.*  
 $\alpha$ . *Hort. kew.*  $\beta$   
 B. *pendula*. *Roth germ.* i. 405; ii. *pars* ii. 476.  
 B. *virgulis pendulifolia*. *Vaill. paris.* 21.  
*Betula*.. *Dod.* 828, *repr. in Ger. by Johns.* 1478,  
*cop. in Lob. obs.* 607, *which repr. in ic.* ii.  
 190, & *cop. in Park. theatr.* 1408.  
 Branches, tubercles of a bitterish resinous flavour.  
 Leaves slightly scabrous on the upper surface. Obs.  
 8194.

2. **BETULA nigra**. Segments of the scales of the strobili linear, equal, villose. Leaves rhomboid-ovate, doubly serrate, acute, pubescent underneath; margin entire at the base. From *H. K.* iii. 336, where for *integris* read *integerrimis*.—*Hermbstaedt, account from in phys. journ.* iv. 250. *Schoepf* 134.
3. **BETULA lenta**. Leaves cordate, oblong, acuminate, serrate. *L. sp.* ii. 1394. *H. K.* iii. 337.—*Schoepf* 134.

## 851. ALNUS.

*Bracteae* of the male flowers triflorous, trifid quadrid and quinquefid with incumbent segments; those of the female flowers biflorous, double, permanent, the outer subrotundo-ovate, the inner semiquadrifid.

*Calyx* of the male flowers quadripartite and tri-partite, of the female flowers none. *Corolla* none.

*Styles* 2. *Seeds* angular. *Obs.* 4325. 2698. *Tourn. inst.* t. 359. *L. gen. ed.* ii. n. 855.

1. *ALNUS rotundifolia*. Leaves subrotundo-obovate; axillæ of the veins of the under surface villose. *Obs.* 2698. On the side of a brook.

*A. glutinosa*. *Gaertn.* ii. t. 90. *L. a Willd.* iv. 334.

*Betula Alnus*. *Hort. kew.* iii. 338. *L. suec.* n. 861

$\alpha$ ; *sp.* ii. 1394  $\alpha$ . *Asso* n. 923. *Bot. arr.* ii. 1067.

*Smith brit.* iii. 1013; *engl. t.* 1508. *Host austr.* 513. *Gou. hort.* 483; *monsp.* 107. 412.

*Alnus*. *Loes.* 10. t. 1. *Tab. ic.* 980. *Raii hist.* ii. 1409; *syn.* 442. *Trag.* 1084. *Dod.* 827, *repr. in Ger. by Johnis.* 1477. *Matth.* 140. *Cam. epit.* 68, *cop. in*

*A. vulgaris*. *Bauh. J.* i. *paris* ii. 151.

*A. rotundifolia glutinosa vulgaris*. *Tourn. paris.* 242. *Vaill. paris.* 5. *Boerh.* ii. 181.

The Alder tree. *Evel. by Hunt.* i. t. at p. 233. b. *B. h, H, L* are representations not of single bracteæ, but the 2 former figures of 4 together, and the rest of 3.—*Le Pluche nat. delin.* ii. 313. t. 17. at p. 311.

*Bracteæ* of the female flowers imbricate; outer

blackish purple; inner greenish, one third as long as the outer; segments reddish at the end. *Flowers* parallel. *Strobilus* oval, woody, permanent till the next year's flowers are in bloom; scales cuneiform, semiquadrifid, become many times larger than the bractea, which permanent, also appears as a small brown scale on the under side near the end. *Obs.* 2698.

*Native of Europe from Spain and Italy to the middle of Sweden.*

*ALNUS.* *Dale* 279. *Geoffr.* iii. 65. *Lew.* i. 51; *disp.* by *Dunc.* 329. *Murr.* i. 72. *Schoepf* 135. *Vog.* 123.

## 852. BUXUS.

*Calyx* of the male flowers tetraphylloous, of the female flowers polyphyllous. *Corolla* none. *Styles* 3. *Capsule* trilocular, trirostrate; cells dispermous. *Obs.* 880. *L.*

1. *BUXUS sempervirens.* *L.* *sp.* ii. 1394. *Asso* n. 924. *Mill.* *J. ill. t.* *Scop. carn.* ii. n. 1173. On the sea coast.—*Bot. arr.* ii. 1069. Found by Mr. Woodward on hills near Dunstable, but not mentioned in Abbot.—*Smith brit.* iii. 1013; *engl. t.* 1341. *Gou. hort.* 484. Near Montpelier.  
 B. *arborescens.* *Mill. Ph. dict.* n. 1. *Gou. monsp.* 111. 137. *Tourn. paris.* 404. In woods.  
 B. *officinarum* *arborescens.* *Vaill. paris.* 25. In hedges.  
 B. *arbor.* *Park. par. t.* 605. f. 4.

Buxus. *Matth.* i. 190. *Cam. epit.* 101. *Park. par.* 606. The greater the tree the greater the leaves.—*Guett.* i. 202. In woods.—*Blackw. t.* 196. *Bauh. J. i. pars* i. 496. Leaves too acute. On the mountains and hills of Dauphine, Provence, Burgundy, Savoy, and Switzerland.—*Raii hist. ii.* 1693, between Geneva and Lyons; *cât. ed. I.* 50, on Box hill near Dorking in Surry; *syn. 445*, according to Aubry, woods of it at Boxwell in Coteswold in Gloucestershire and Boxley in Kent.—*Dalech.* 165. *Dod.* 770, *repr. in Ger. by Johns.* 1410, on sundry waste and barren hills in England, & cop. in

*B. arbor vulgaris.* *Park. theatr.* 1429.

Leaves mostly emarginate, from 6 tenths of an inch to an inch long. *Obs. 4993.* Specimen gathered on Box hill in Surry in chalk.

Native of Spain, Carniola, Savoy, Switzerland, France, Kent, Surry, Bedfordshire, and Gloucestershire.

*BUXUS.* *Pharm. austriaco-prov.* 24.—*Berg. ii.* 732. *Chom.* 289; *suppl.* 96. *Dale* 281. *Geoffr. iii.* 235. *Heb.* 184. *Lew. i.* 244; *disp. by Rother.* 120. *Linn.* 240. *Mill. Jos.* 99. *Monro* iii. 35. *Murr. iv.* 262. *Rutty* 78. *Schoepf* 135. *Vog.* 126, 280.

### 853. URTICA.

*Calyx* of the male flowers quadripartite, of the female flowers tetraphylloous. *Corolla* noné. *Seed* 1, inclosed by the 2 inner phylla. *Obs. 503.* *L.*

1. *Leaves opposite.* L.

## 1. URTICA ovalifolia.—Leaves oval. L.

U. urens. L. suec. n. 862; sp. 1396. Bot. arr. ii.

1070. Curt. lond. vi. 70. t. 430. Smith brit. iii.

1015; engl. t. 1236. Fl. dan. t. 739. Gou. hort.

484. In corn fields; monsp. 411.

U. foliis ovatis, amentis cylindraceis. L. lapp. n. 375.

U. urens minor. Boerh. ii. 105. In Holland.

U. major. Trag. 3.

U. minor. Raii syn. 140. Fuchs. fol. ed. 108.  
Ger. by Johns. 707, repr. from

U. urens minima. Dod. 152, which repr. with the  
erroneous addition of creeping roots in

U. minor acrior. Lob. obs. 282, & ic. i. 522, & cop.  
in

U. major vulgaris. Park. theatr. 440, &

Small Nettle. Pet. herb. t. 1. f. 10.

U. III. Matth. 1127. Dalech. 1244.

Urtica. Brunsf. ed. I. i. 154.

Native of Europe from the south to Lapland.

URTICA minor. Geoffr. suite iii. 403. Herm. 315.

Quar. anim. 56. Schrod. 704.

U. urens. Murr. iv. 594.

U. urens minor. Chom. 596.

2. URTICA pilulifera. Leaves ovate and cordate, serrate. Female flowers in globular heads. Obs. 4380. Specimen gathered in the Paris garden.—L. sp. 1395. Bot. arr. ii. 1070. Smith brit. iii. 1014; engl. t. 148. Various parts of the Norfolk and Suffolk coast, among rubbish and stones.—Roth. germ. i. 404. In kitchen gardens about Barbi; ii.

- pars* ii. 473. *Turn.* & *Dillw.* 133. *Northumb.*  
*guide* i. 86. *Gou.* monsp. 411; *hort.* 485. In corn  
fields.
- U. balearica.** *L.* sp. 1395: *mant.* 495, whose ob-  
servation is omitted in *a Reich.* iv. 129; & *a Willd.*  
iv. 347. *Murr. gott.* 185. Leaves unequal at the  
base.
- U. foliis oppositis, amentis fructiferis globosis.** *L.*  
*ups.* 282.
- U. amentis fructiferis globosis.** *Guett.* ii. 427. Un-  
der the eaves of houses in Semouset a village near  
Saumur in Poitou.
- U. I Dioscoridis, semine lini.** *Dodart.* t. 130.
- U. pilulifera, folio profundius urtcae majoris in mo-**  
dum serrato, semine magno lini. *Raii syn.* 140.  
Near the quay at Yarmouth, about Aldborough in  
Suffolk and elsewhere on that coast.
- U. urens, pilulas ferens, I Dioscoridis, semine lini.**  
*Tourn. paris.* 374. *Vaill. paris.* 205. *Boerh.* ii.  
105.
- U. romana, sive mas, cum globulis.** *Bauh. J.* iii.  
445. In hedges at Montpelier, and in meadows at  
Basle.
- U. urens prior.** *Dod.* 151, in woods in the Low  
Countries; *repr. in*
- U. romana.** *Lob. obs.* 281; *ic.* i. 522, & *Ger. by*  
*Johns.* 706, & *cop. in Park. theatr.* 440. At Lidde  
near Romney in Kent, in the streets of Romney  
and in the street of Bardney [between Lincoln and  
Horncastle.]—*Mill. Jos.* 461. About Yarmouth  
and in Romney marsh.—*Besl. hort. aest. ord.* 7.  
*fol.* 5. *Blackw.* t. 321. *Fuchs. fol. ed.* 106. *Trag.*  
3, *cop. in*

Roman Nettle. *Pet. herb. t. 1. f. 11.*

U. I. *Matth. 1125.*

*Leaves* ovate, equal at the base; margin entire below the middle and towards the end; teeth straight.

*Obs. 4381.* Specimen gathered in Fothergill's garden.

—*Leaves* cordate and cordato-ovate, equal at the base, serrate almost to the base; teeth bowed towards the end of the leaf. *Obs. 4380.*

Native of Switzerland, France, the Low Countries, the coasts of Cornwall, Kent, Essex, Suffolk, and Norfolk, and found on the ballast hills at the mouths of the rivers Tyne and Wear in Durham and Northumberland.

*URTICA romana.* *Alst. ii. 380.* *Dale 68.* *Geoffr. suite iii. 405.* *Herm. 315.* *Linn. 240.* *Mill. Jos. 461.* *Murr. iv. 595.* *Rutty 555.* *Schrod. 704.* *Vog. 183.*

3. *URTICA dioica.* Leaves cordate. Racemi in pairs.

*L. suec. n. 863;* *sp. 1396.* *Fl. dan. t. 746,* female plant.—*Huds. 417.* *Lightf. 578.* *Bot. arr. ii. 1071.* *Smith brit. iii. 1016;* *engl. t. 1750.* *Woodv. iii. 396.* *t. 146.* *Curt. lond. vi. 69.* *t. 429.*

U. foliis cordatis, amentis cylindraceis, sexu distincta.

*L. lapp. n. 374.*

U. racemifera major perennis. *Raii syn. 139.*

U. urens maxima. *Tourn. paris. 374.* *Vaill. paris. 205.* *Boerh. ii. 105.* In Holland.

U. vulgaris major. *Bauh. J. iii. 445,* imit. from

U. vulgaris urens. *Trag. 2. f. 1. f. 2,* cop. in

U. oligophyllos. *Dalech. 1244.* No fructifications.

Hexter Nesszeln. *Brunsf. ed. I. i. 151,* repr. in

Heyter Nesszeln. *Brunsf. i. 151.*

- Urtica. Blackw. t. 12. Male plant.  
 U. major. Fuchs. fol. ed: 107.  
 U. urens altera. Dod. 151, repr. in  
 U. urens. Ger. by Johns. 706, & cop. in  
 U. media sylvestris. Park. theatr. 441.  
 U. II. Matth. 1126. Dalech. 1245.  
 U. minor. Park. theatr. 441.  
 "Stamina elastically discharging their pollen. Obs. 503.

**URTICA.** Stinging Nettle. Herb. Pharm. lond.  
 —Aashiem in act haun. i. 464. Alst. ii. 380. Bang in act. haun. i. 101. Dale 68. Geoffr. suite iii. 401. Home, F. clin. 245. Hubbard in med. soc. iv. 423. Lew. ii. 478; disp. by Dunc. 320. Mill. Jos. 460. Monro iii. 286. Murr. iv. 587. Ploucq. bibl. i. 434. 597. Quar. anim. 59. 84, 101, Syd. 426. Vog: 89.

- U. dioica. Berg. ii. 733. Bry. 133. Herm. 315. Linn. 240. Pears. R: ii. 200. Schöepf 135. Zannetini; account from in chir. rev. vii. 97.  
 U. urens maxima. Chom. 596; suppl. 169. Rutty 555.  
 U. maxima. Schrod. 704.  
 Nettle. Chalm. ii. 147. Cull. pract. n. 566. 1162. Gros in ac. sci. abr. by Southw. ii. 145. Lind hot clim. 313.

2. *Leaves alternate.* L.

4. URTICA nivea. Leaves oval-elliptic, tomentose underneath. Obs. 8360. Specimen gathered in Lady Clifford's garden. L. sp. 1398. Hort. kew. iii. 342. Thunb. jap. 71; p. xxxiii; Jacq. hort. ii. 78. t. 166. Female plant. in 1821. 300

*U. racemosa canadensis.* — *Dodart* 129. *t.* 128.

Tsjo. *Kaempf. am.* 891.

*RAMIUM majus.* *Rumph.* v. 214. *t.* 79. *f.* 1.

### 854. MORUS.

*Calyx* of the male flowers quadripartite, of the female flowers tetraphyllous. *Corolla* none. *Rudiment* of a pistil, ovate, emarginate, as large as an anthera. *Styles* 2. *Berry* monospermous, formed from the calyx. *Obs.* 3968. *L.*

1. *MORUS tinctoria.* Leaves oblongo-elliptic. Spines axillary, solitary. *Obs.* 8339. Specimen gathered by Dr. Wright in Jamaica.—*L. sp.* 1399; *mant.* 495; *a Murr.* 851. *Hort. kew.* iii. 343. *Jacq. amer.* 247. *t.* a leaf; 8vo, 318, who observes that the flowers are dioecious.
- M. quae Tata-iba, aculeata, fructu villoso. *Plum. ic.* 199. *t.* 204.
- Tatai-iba. *Marcgr.* 119, outer fig.—*Pis. ind.* 163. (*Zanthoxylum aculeatum, carpini foliis, americanum, cortice cinereo.* *Pluk. alm.* 596; *phyt. t.* 239. *f.* 3, has serrate leaves. No fructifications.)
- Lignum nostratisbus Fustick wood dictum.* *Raii hist.* ii. 1810.
- Arbor baccifera brasiliensis, fructu tuberculis inaequali mori aemulo.* *Raii hist.* ii. 1639.
- MORUS lactescens, foliis oblongis acutis paginis exterioribus productioribus, ligno citrino.* *Browne* 339.
- M. fructu viridi, ligno sulphureo tinctorio. *Sloane cat.* 128; *hist.* ii. 3. *t.* 158. *f.* 1.

Lignum flavum. *Dale* 286.

2. *MORUS indica*. Leaves ovato-oblong, equal at the base, unequally serrate. *L. sp.* 1399.

*MORUS indica*. *Lour.* ii. 679. *Rumph.* vii. 8. *t.* 5, has lanceolato-cordate leaves.

Tinda-parna. *Rheede* i. 87, where for fig. 49 read fig. 48,) *t.* 48. *Raii hist.* ii. 1569.

3. *MORUS alba*. Leaves obliquely cordate, glabrous.

*Obs.* 3969. Specimen gathered on the ramparts of Munich in Bavaria.—*L. sp.* 1398. *Hort. kew.* iii. 342. *Lour.* ii. 678. *Bauh. J. i. pars i.* 119. No fig.—*Ger. by Johns.* 1507, *cop. in Park. theatr.* 1491, & *repr. from*

*M. candida*. *Lob. obs.* 610, which *repr. in ic.* ii. 196, & *Dod.* 798, & *cop. in Dalech.* 326.

*MORUS alba*. *Bry.* 201. *Geoffr. suite* i. 80. *Schrod.* 628.

*M. fructu-albo*. *Chom.* 820.

*Morus*. *Pharm. suec.*

4. *MORUS rubra*. Leaves cordate, villose underneath.

Spikes cylindrical. *L. sp.* 1399. *H. K.* iii. 343.

*Lour.* ii. 679.

*M. foliis cordatis subtus villosis, amentis cylindraceis*. *Browne* 389. Imported from Virginia.

*M. virginiana arbor*, loti arboris instar ramosa, foliis amplissimis. *Pluk. alm.* 253; *phyt. t.* 246. *f.* 4. In flower.

*M. virginiana*. *Park. par.* 596. *t.* 597. *f. 4.*

*MORUS rubra*. *Bry.* 201. *Marsh.* 93.

*Morus*. *Schoepf* 136.

5. MORUS *nigra*. Leaves cordate, scabrous above, villose underneath. Spikes oval. *Obs.* 3968. In a garden.—*L.* sp. 1398. *Hort. kew.* iii. 342. *Woodv.* ii. 352. t. 129. *Bauh. J. i. pars i.* 118, *cop. from*

*Morus*. *Fuchs.* 506. c. 199, which cop. in *Trag.* 1048. *Cam. epit.* 179. *Matth.* 284. *Dalech.* 326. *Dod.* 798, repr. in *Ger.* by *Johns.* 1507, *Lob.* *obs.* 610, &

*M. celsa officinarum*. *Lob. ic. ii.* 196, *abr. in*

*M. nigra*. *Park. par. t.* 597, & cop. in

*M. nigra vulgaris*. *Park. théatr.* 1491. *Blackw. t.* 126.

**MORUS:** Mulberrytree. Fruit. *Pharm. lond.* & *noviss.* — *Berg.* 735. *Carth.* i. 435. *Dale* 285. *Hill.* 512. *Lew. disp.* by *Dunc.* 256. *Linn.* 241. *Mill. Jos.* 299. *Murr.* iv. 596. *Rutty* 334. *Vog.* 256.

*Morum*. *Monro.* iii. 179.

*Mora*. *Fordyce, G. pract.* 152. 167. *Lew.* i. 443. *Spielm.* 93.

*M. nigra*. *Bry.* 200. *Geoffr. suite* i. 76. *Pears.*

*R.* i. 64. *Schrod.* 628.

*M. fructu nigro*. *Chom.* 820.

Mulberrytree. *Raymond, account from in méd. journ.* iv. 151.

Mulberries. *Lew. in Neum.* ii. 234.

## P E N T A N D R I A.

## 855. HEVEA.

*Calyx* quinquefid, campanulate. *Corolla* none. *Antherae* growing to a column below its point. *Style* none. *Stigmata* 3. *Capsule* tricoccous, woody. *From L. a Schreb.*

Seems to be nearly allied to *Clytia*, but differs in the want of a corolla.

1. *HEVEA guianensis*. *Aubl.* ii. 871. *t.* 335, in fruit, *cop. in*  
*Iatropha elastica*. *Encycl. brit.* ix. 79. *t.* 249. *L.*  
*fil. suppl.* 422.  
*Siphonia elastica*. *Woodv.* iv. 111. *t.* 255, from a specimen in Sir Jos. Banks's herbarium.  
*Siphonia Cahuchu*. *L. a Willd.* iv. 567, & account from *in phys. journ.* xi. 398. *t.* at p. 385.  
*HEVEA*. *Murr.* iv. 184.

## 856. NEPHELUM.

*Calyx* of the male flowers quinquedentate, of the female flowers quadridfid. *Corolla* none. *Pistils* 2. *Drupes* 2, dry, monospermous, muricate. *L.*

1. *NEPHELUM lappaceum*, *L. mant.* 125. *Thunb.*  
*trap.* ii. 277.

*RAMBUTANG ATI.* Thunb. trav. iv. 277.  
Rambutan. Cook in Hawkesw. iv. 349.

### 857. XANTHIUM.

*Calyx* of the male flowers none, of the female flowers bilocular, birostrate. *Corolla* of the female flowers none, of the male flowers quinquefid. *Stamen* 1, fistular. *Pistils* 2, superior. *Style* 1. *Stigmata* 2. *Capsule* bilocular, birostrate, formed of the indurated calyx; cells monospermous. Obs. 8340. 8341, written before consulting Juss. 191, & Gaertn. L.

1. *XANTHIUM cordifolium.* Stem unarmed. Leaves cordate. Obs. 8340. Specimen gathered in Sole's garden.

*X. strumarium.* L. suec. n. 864; sp. 1400; fil. dec. ii. t. 17. f. e. Gort. belg. n. 790. Lour. ii. 689. Bot. arr. ii. 1073. Smith brit. iii. 1017. Gou. hort. 485; monsp. 50. 412. Fl. dan. t. 579. Host austr. 516. Scop. carn. ii. n. 1177. Gaertn. ii. 418. t. 164.

*X. sive Strumaria.* Lob. ic. i. 588, repr. in Bardana minor. Ger. by Johns. 809, cop. in

*X. sive Bardana minor.* Park. theatr. 1223, & repr. from

Xanthium. Dod. 39, which repr. in Lob. obs. 319. Tourn. paris. 312. Vaill. paris. 205. Boerh. ii. 103. Dalech. 1056. Blackw. t. 444. Fuchs. 579. fol. ed. cop. in

Lappa minor. Trag. 839, &

*X. sive Lappa minor.* Bauh. J. iii. pars ii. 572.

*Math.* 1204. *Magn. hort.* 208. *Raii syn.* 140.  
Near Portsmouth, and found by Willisel and by  
Newton at Dulwich; *hist.* i. 165. Frequent on  
the continent.

Small Burdock. *Pet. herb. t. 1. f. 12.*

Leaves obsoletely trilobate. Male flowers in terminal heads. Bracteae obsubulate, hirsute; hairs jointed. Corolla tubular, as long as the bracteae, lineate; segments triangular. Filament tubular, shorter than the corolla. Antherae 5, oblong, erect, inserted into the mouth of the filament. Germen none. Style filiform,  $1\frac{1}{2}$  as long as the filament. Female flowers. Calyx elliptic, bifid at the end, birostrate, muricate, bilocular, closed excepting 2 apertures on the inner side of the rostra admitting the passage of the styles. Pistils 2, 1 in each cell of the calyx, as long as the calyx. Germen elliptic. Style filiform, shorter than the germen. Stigmata 2 to each style, filiform, longer than the style. Obs. 8340.

*XANTHIUM.* Chom. 243. Geogr. suite iii. 423.

Linn. 241. Murr. i. 141. Schoepf 136. Vog. 142. 183.

Bardana minor. Mill. Jos. 77. Schrōd. 544.

Bardana. Dale 69.

Lappa minor. Quar. febr. 232.

## 858. VANIERIA.

Calyx quadripartite. Corolla none. Style 1. Seed 1, naked. From Lour.

1. *VANIERIA alternifolia.* Leaves alternate. From *VANIERIA cochinchinensis.* Lour. ii. 691.

## 859. AMBROSIA.

*Calyx* of the male flowers none, of the female flowers urceolate, bidentate at the end, with teeth on the outside. *Corolla* of the female flowers none, of the male flowers tubular, quinquefid. *Seed* 1, inclosed by the calyx. *Obs.* 8404. *L.*

Allied to Cannabis and not to the Compositae.

1. **AMBROSIA maritima.** Leaves bipinnatifid, with olearia; villose. Racemi axillary and terminal, villose, leafy below. *Obs.* 8404. Specimen gathered probably in the Vienna garden.—*L. a Murr.* 852; *sp.* 1401. *Hort. kew.* iii. 345. *Boerh.* ii. 102.

Ambrosia. *All. nic.* 75. *Raii hist.* ii. 164; *eur.* 60. On the sea coast of Tuscany.—*Dod.* 35, *repr. in Ger.* by *Johns.* 1108,

*A. sativa hortensis procerior.* *Lob. obs.* 442, &

*A. sativa hortensis.* *Lob. ic.* i. 566, & *cop. in*

*A. hortensis procerior.* *Dalech.* 1148, &

*A. hortensis.* *Park. theatr.* 88.

*A. quibusdam.* *Bauh. J.* iii. *pars i.* 190.

*Artemisia monoclonos alia.* *Dalech.* 951.

*Artemisia monoclonos quorundam.* *Dalech.* 951, has inciso-pinnatifid leaves.

Branches villose. Leaves hoary underneath; olearia globular, shining, yellow. Lateral racemi pedunculate, with female flowers below, with male flowers above. Male flowers in hemispheric heads. Pedicels very short. Involucra calyciform, crenate. Flowers sessile, somewhat longer than the involucrum. Corolla tubular, quinquefid, lineate. Stamina 5,

nearly as long as the corolla. *Germen* none. *Style* filiform, somewhat longer than the corolla. *Stigma* simple. *Fruit*  $2\frac{1}{2}$  tenths of an inch long, with olearia.

*Obs.* 8404.

*AMBROSIA.* Boerh. ii. 569. Dale 69.

2. *AMBROSIA elatior.* Leaves bipinnatifid, pubescent. Racemi axillary and terminal, glabrous. Lowermost internodium of the flowering branches many times longer than the rest. *Obs.* 8342. Specimen gathered by Dr. Cutler in New England.  
—*L. sp.* 1401. *Hort. Kew.* iii. 344. *Swartz. obs.* 359.

*A. foliis duplicato-pinnatifidis, racemis paniculatis glabris.* *L. ups.* 284. *Gron. virg.* 147.

*A. elatior, foliis artemisiae atrovirentibus asperis odoratis non lanuginosis.* *Sloane cat.* 38.

*A. foliis artemisiae inodoris, elatior.* *Raii hist.* ii. 1855.

Leaves pubescent, brownish green above, green underneath; hairs adpressed; short. Petioles pubescent with adpressed hairs, those of the upper leaves pilose and scabrous with here and there short mucrones and longish white hairs. Racemi  $1\frac{1}{2}$  as long as the floral leaves, sessile, with female flowers below and male flowers above. Pedicles very short. Involucra of the male flowers, calyciform, obsoletely crenate, glabrous, just longer than the flowers. Male flowers fasciculate, not fully expanded. Corolla infundibuliform, semiquinquefid, lineate. Stamina 5. Germen none. Style filiform, somewhat shorter than the stamens. Stigma broader than the style. Fruit 2 tenths of an inch long, glabrous. *Obs.* 8342.

*AMBROSIA.* Browne 339. Cull. 489.

## 860. AMARANTHUS.

*Calyx* triphyllous pentaphyllous and quinquepartite.  
*Corolla* none. *Stamina* 2, 3, and 5. *Styles* 3.  
*Capsule* unilocular, monospermous, mostly circumscinded. *Seed* lenticular. *Obs.* 4094. *L. Tourn.* 234. *t.* 118. *h. i. k. l.*

Blitum. *Tourn.* 507. *t.* 288. *Boerh.* ii. 91.

1. *Stamina* 3. *Capsules circumscinded.*

1. AMARANTHUS *polygamus*. Glomeruli subsessile, ovate. Hermaphrodite flowers with 2 stamens and 2 styles; female flowers with 3 styles. Leaves lanceolate. *From L. sp.* 1403. *Hort. Kew.* iii. 347. *Lour.* ii. 685.

*BLITUM indicum album*. *Rumph.* v. 231. *t.* 82. *f.* 1.

2. AMARANTHUS *tristis*. Glomeruli roundish, subsessile. Leaves ovato-cordate, emarginate, shorter than the petiole. *L. sp.* 1404. *Hort. Kew.* iii. 348. *Mill. Ph. dict. n.* 3.

*BLITUM terestre, seu repens*. *Rumph.* v. 232. *t.* 82. *f.* 2.

3. AMARANTHUS *polygonoides*. Glomeruli axillary: Leaves emarginate, rhombo-ovate. Calyx of the female flowers quinquepartite, campanulate. *Obs.* 6406. Specimen gathered by Broughton in Jamaica.—*L. sp.* 1405. *H. K.* iii. 349. *Swartz. obs.* 360.

Blitum *polygonoides* viride seu ex viridi et albo varie-

gato polyanthos. *Sloane cat.* 49; *hist.* i. 144. t. 92. f. 2.

*Blitum minus indiae orientalis*, summis foliis lunulatum. *Pluk. alm.* 68; *phyt. t.* 272. f. 2.

Leaves glabrous, emarginate, with a short seta at the end. *Calyx* of the female flowers in fruit; segments cuneiformi-oblong, patulous at the end, membranaceous, with 3 green ribs. *Styles* 3. *Seed* 1, lenticular, subovate, shining, with a slight notch just below the end. *Obs.* 6406.

*CHENOPODIUM*. Browne 184.

4. **AMARANTHUS Blitum.** *Calyx* triphyllous. Glomeruli lateral. Leaves rhombo-elliptic, marginate. *Obs.* 6411. Specimen from Prof. Jos. F. Jacquin.—*L. suec.* n. 865; sp. 1405. *Reich. franc.* n. 690. *Gort. belg. foed.* n. 791. *Retz. scand.* n. 1190. *Roth germ.* i. 403; ii. pars ii. 471. *Host austr.* 516. *Jacq. vind.* 170.

**A.** floribus glomeratis lateralibus, foliis ovatis retusis, caule diffuso. *Ger. Lud.* 338. *Kram.* 274.

*Blitum majus*. *Scop. carn.* ii, n. 1178. Flowers polygamous.

**A. sylvestris & vulgaris.** *Tourn. paris.* 385; ed. II. ii. 248. On the ramparts and quays, and in courts and gardens. Flowers described as hermaphrodite.

*Blitum rubrum minus*. *Vaill. paris.* 21. *Dill. ap. Raii syn.* 157. In gardens and on dunghills.

*Blitum rubrum supinum*. *Lob. ic.* i. 250; *repr. in*

*Blitum minus rubrum*. *Ger. by Johns.* 321, & cop. in

*Blitum minus sylvestre rubrum*. *Park. theatr.* 753.

*Leaves* glabrous, acute, cuspidate; veins underneath yellowish, prominent; margin yellowish, undulate, appearing as if one of the veins ran along the margin. *Calyx* of male and female flowers triphyllous. *Stamina* 3. *Capsule* circumscinded, membranaceous, with 3 longitudinal lines. *Seed* lenticular, rufous, shining,  $\frac{1}{2}$  tenth of an inch long. *Obs.* 6411. *BLITUM.* *Willd. ber.* n. 358.

2. *Stamina* 3. *Capsules* not circumscinded.

5. AMARANTHUS *prostratus*. *Calyx* triphyllous. *Capsules* smooth. *Glomeruli* lateral and terminal. *Leaves* rhomboidal, retuse. *Stem* diffuse. *Obs.* 6407. Specimen from *Curtis*.—*L. a Willd.* iv. 387.

A. *Blitum.* *Huds.* 418. On rubbish.—*Bot. arr.* ii. 1075. Found by Mr. Woodward at Ripton in Huntingdonshire.—*Smith brit.* iii. 1018. Found by Mr. Dickson in Battersea fields.—*Gou. hort.* 487, in cultivated ground and gardens; *monsp.* 410. *Relh. n.* 706; *ed. II. n.* 785. Near Parker's piece.

A. *floribus axillaribus glomeratis terminalibus spicatis.* *Ger. Lud.* 338. In kitchen gardens. *Blitum sylvestre spicatum.* *Tourn. inst.* 507; *paris.* 399; *ed. II.* ii. 273. *Vaill. paris.* 21.

*Glomeruli* lateral. *Obs.* 6407.—*Glomeruli* lateral and terminal. *Calyx* of male and female flowers triphyllous; phyllallanceolate, membranaceous, whitish, with a green streak along the middle. *Capsule* subrotundo-ovate, smooth, greenish, monospermous, with 3 obsolete longitudinal lines, not circumscinded. *Seed* lenticular, blackish rufous, shining,  $\frac{1}{2}$  tenth of an incl broad. *Obs.* 8850. Specimen in an old herbarium

gathered in England, where named Wild Amaranthus.

*BLITUM.* *Cod. med. p. xxi.*—*Dale* 76. *Spielm.* 453.

*Blitum album minus.* *Boerh.* ii. 549.

ꝝ *viridis.* (Variation.) Stein green. *From authors.*

*A. foliis ovatis emarginatis.* *Guett.* ii. 15.

*Blitum album minus.* *Bauh. J.* ii. 967. No fig.—

*Rupp. ab Hall.* 340. *Magn. monsp.* 38. *Boerh.* ii. 91. In Holland; *mat. med.* ii. 549. *Raii eur.*

77. About Basil, and elsewhere in Germany:

ꝝ *rubens.* (Variation.) Stem reddish. *From J. Bauh.*

*A. foliis ovatis integris.* *Guett.* ii. 16.

*Blitum rubrum minus.* *Raii cant.* 23. In osier holts by the river, and in a ditch behind St. John's college in a close on the north of the back gate; *hist.* i. 200. In vineyards and gardens and on dunghills about Montpelier and elsewhere in France and Germany; *eur.* 77. *Bauh. J.* ii. 967, *abr. in Hist. ox. s. 5. t. 30. row 3. f. 5, & cop. in*

Small garden Blite, *Pet. herb. t. 7. f. 9.* In gardens.

6. AMARANTHUS *viridis.* Calyx triphyllous. Capsules tuberculate. Spikes terminal and axillary. Leaves rhombico-ovate, emarginate retuse and rounded. *Obs.* 6413. Specimen in flower and fruit, gathered in the Paris garden.—*Obs.* 8855. Specimen in fruit gathered by Broughton in Jamaica.—*Obs.* 8856. Specimen in fruit gathered by Dr. Wright probably in Jamaica.—*L. a Willd.* iv. 388; *sp.* 1405. *H. K.* iii. 348. *Mill. Ph. dict.* n. 16. *Poll.* ii. n. 903, &

## 388 MONOECIA. 360. Amaranthus.

*Roth* germ. i. 472; ii. pars ii. 472, described as having quinquefid female calyces.

*s. minor.* (Variation.) Leaves from  $\frac{1}{2}$  to 1 inch long. Obs. 8855.

Stem 10 inches long, ascending. Calyx of the male and female flowers triphyllous. Stamina 3. Obs. 8855.

*BLITUM minus album polyspermum*, folio subrotundo. *Sloane cat.* 49; *hist.* i. 143. t. 92. f. 1.

*Caratn.* *Maregr.* 13.

*s. albus.* (Variation.) Leaves from 1 to  $2\frac{1}{2}$  inches long. Obs. 6413. 8856.

*Blitum sativum album.* *Gesn. hort. fol.* 250. p. 2.

*Blitum majus album.* *Lob. adv.* 94; no fig. *ic.* i. 249, repr. in *Ger. by Johns.* 320, &

*Blitum majus.* *Dod.* 606, & *abr.* in

*Blitum.* *Park. par.* 488. t. 487. f. 3, &

*Blitum album majus.* *Hist. ox. s. 5. t. 30.* row 2. f. 2. *Tourn. hort.* 100; *inst.* 507. *Magn. hort.* 28. *Boerh. hort.* ii. 91; *mat. med.* ii. 549. *Rupp. ab Hall.* 340.

*Blitum pulehrum magnum album.* *Raii hist.* i. 200. *Bauh. J.* ii. 967. No fig.

*Blitum album minus.* *Cam. epit.* 236.

Stem 14 inches and upwards long. Leaves 2 inches long. Obs. 8856.—Stem 17 inches and upwards long. Leaves to  $2\frac{1}{2}$  inches long. Calyx of the female flowers triphyllous. Capsule ovate, whitish brown, not circumscribed, rather coriaceous. Seed lenticular, shining, blackish brown,  $\frac{1}{3}$  tenth of an inch long. Obs. 6413.

*BLITUM album.* *Date* 76.

*Blitum.* *Mill. Jos.* 88.

*s. rubens.* (Variation.) Leaves and racemi red.

From

Red Blite. *Park. par.* 489.

Blitum sativum rubrum. *Gesn. hort. fol.* 250. *p. 2.*

Blitum rubrum majus. *Tourn. hort.* 100. *Boerh. i.*  
91; *mat. med.* 549. *Magn. hort.* 33. *Raii hist.*  
*i.* 200; *eur.* 77. In kitchen gardens about Mont-  
pelier and elsewhere.

Blitum pulchrum rectum magnum rubrum. *Bauh.*  
*J. ii.* 966.

Blitum rubrum minus. *Cam. epit.* 235. *Dalech.* 539,  
*cop. from*

Blitum rubens. *Dod.* 606, which repr. in ed. *II.*  
617, *abr. in*

Blitum polyspermon. *Hist. ox. s. 5. t. 30.* row 3,  
*f. 6,* & repr. in

Blitum majus rubrum. *Ger. by Johns.* 320,

Blitum. *Lob. obs.* 125, &

*BLITUM* rubrum. *Lob. ic. i.* 24.—*Dale* 76.

### 3. *Stamina 3 & 5.* From L.

7. AMARANTHUS *oleraceus.* Glomeruli lateral and terminal. Leaves ovate, very obtuse, emarginate, rugose. *L. sp.* 1403.—*Bry.* 119. *Mill. Ph. dict.* n. 15. *Lour. ii.* 686.

### 4. *Stamina 5.* L.

8. AMARANTHUS *hybridus.* Glabrous. Leaves rhombo-elliptic, acute, glabrous, microscopically tuberculate. Racemi axillary and terminal, cylindric, erect. *Obs.* 8851. Specimen from Dr. Wright who probably gathered it in Jamaica.—*Obs.* 8852. 8853. 8854. Specimens gathered by Dr. Wright

b b 3

in Jamaica.—*L. sp.* 1406. *Hort. kew.* iii. 349.  
(*Mill. Ph. dict. n.* 10, is described as having hairy  
branches.)

- A. *inermis*, racemis cylindraceis erectis. *L. hort.*  
286. *Gron. virg.* 148.
- A. *sylvestris maximus novae angliae*, spicis purpu-  
reis carneis aut viridibus. *Raii hist.* i. 201. Cul-  
tivated in his garden.
- A. *maximus sylvestris novae angliae totus viridis.*  
*Boerh.* ii. 97.
- A. *major virentibus spicarum paniculis, semine nigro.*  
*Barrel.* 45. *n.* 442. *t.* 648.
- A. *minus, simplici panicula, semine nigro.* *Barrel.*  
46. *n.* 463. *t.* 648.
- A. *majus purpuro-violaceum, tenuibus transversis*  
*spicarum flagellis, semine nigro.* *Barrel.* *t.* 650.  
*Used in Jamaica as a green.* *Dr. Wright.*

9. AMARANTHUS *sanguineus*. Racemi supradecom-  
pound, erect. Branches patent, glabrous. Leaves  
oblong, acute. *L. a Willd.* iv. 390; *sp.* 1407.  
*Hort. kew.* iii. 349.

- A. racemis cylindricis, lateralibus cruciatim positis.  
*Mill. Ph. ic.* i. 15. *t.* 22.

AMARANTHUS *sanguineus*. *Mill. Ph. dict. n.*  
13.

10. AMARANTHUS *flavus*. Racemi compound,  
nodding. Leaves ovato-lanceolate. *L. a Willd.*  
iv. 391; *a Murr.* 854; *sp.* 1406. *Hort. kew.* iii.  
349.—*Mill. Ph. dict. n.* 7.

11. AMARANTHUS *hypochondriacus*. Leaves rhom-  
beo-elliptic, mucronate at the end. Racemi erect.

*Obs.* 4094. In a garden where it propagates itself.  
—*L.* sp. 1407. *H. K.* iii. 350. *Gaertn.* ii. 215. *t.* 128.

*A. sylvestris maximus novae angliae, specieis purpureis carneis ant viridibus.* *Raii hist.* i. 201.

*A. maximus sylvestris novae angliae, totus viridis.* *Boerh.* ii. 97.

*A. sylvestris maximus novae angliae, totus viridis.* *Tourn. hort.* 100.

*A. purpureus.* *Bauh. J.* ii. 968? *Ger. by Johns.* 322? repr. from

*A. purpureus minor.* *Park. par. t.* 373. *f. 2?*

Stem dull crimson, becoming light brown when dried. Leaves pale dull crimson, the uppermost greenish more or less tinged with purple above, dull crimson underneath; mostly acute, some retuse. Racemi compound, compact, lateral and terminal, crimson, becoming of a brownish greenish hue when dried.

*Calyx pentaphyllous.* *Stamina 5.* *Obs.* 4094.

*AMARANTHUS racemis pentandris compositis patulo-nutantibus, foliis lanceolato-ovatis.* *Cutl.* 489.

12. *AMARANTHUS cruentus.* Racemi decomound, naked, patulous. Leaves lanceolato-ovate. *L. a Willd.* iv. 392; *sp.* 1406. *Mill. Ph. dict.* n. 17. *Hort. kew.* iii. 350.

*A. sinensis, foliis variis, panicula eleganter plumosa.* *Mart. J. t.* 6.

*AMARANTHUS cruentus.* *Lour.* ii. 687.

13. *AMARANTHUS caudatus.* Leaves ovate. Racemi decomound, cylindric, pendulous, very long.

*Obs.* 6550. In a garden.—*L.* sp. 1406. *H. K.* iii. 350.

*A. maximus.* Stem from 5 to 8 feet long. *From Park.* &

*A. maximus.* *Mill. Ph. dict. n. 5.* Racemi seldom half so long as those of  $\alpha$ , and much thicker.

*Quinua, siye Blitum majus peruanum.* *Clus. hist.* ii. 81, *repr. in*

*Blitum majus peruyianum.* *Clus. hist. ed. II.* ii. 81,

*A. major, floribus obsoleti coloris.* *Dod.* 185. 607; *ed. ii.* 618,

*A. major,* floribus panniculosis spicatis. *Lob. obs.* 126, &

*A. pannicula sparsa.* *Ger. by Johns.* 322. Panicle not well expressed.

*A. purpureus major, panniculis sparsis.* *Park. par.* 371.

*A. purpureus major.* *Park. par. t. 373. f. 1.*

**AMARANTHUS.** *Dale* 78. *Mill. Jos.* 29. *Schrod.* 531.

14. **AMARANTHUS spinosus.** Stipulae spinose. *Obs.* 8847. Specimen gathered by Dr. Wright in Jamaica.—*L.* a *Willd.* iv. 393; *sp.* 1407. *Hort. kew.* iii. 350. *Gou. hort.* 488. *Mill. Ph. dict. n.* 12. *Swartz. obs.* 361.

*A. aculeatus rufescens, floribus conferti sessilibus, capitulis alaribus.* *Browne* 340.

*A. racemis cylindraceis erctis, alis spinosis.* *Gron. virg.* 148. *Roy.* 419.

*A. indicus spinosus, spica herbacea.* *Herm. hort.* 31. *t. 33.* *Boerh.* ii. 97. *Tourn. hort.* 101.

*Blitum americanum spinosum.* Raii hist. i. 199.

Sloane cat. 49; hist. i. 143.

Spikes compound, leafy, terminal; spiculae roundish. *Stipulae* attenuate, rigid, longer than the spiculae. *Calyx* pentaphylous; *phylla* oblong, cuspidate, membranaceous, whitish. *Capsule* unilocular, trirostrate, monospermous. Seed compressed, reniform-oval, shining, blackish rufous; an emarginature on one side. *Obs.* 8847.

*BLITUM spinosum.* Rumph. v. 234. t. 83. f. 1.

Prickly Calalue. Long. 771.

Calalue. Edw. Bry. i. 199.

## HEXANDRIA.

### 861. ZIZANIA.

*Bracteae* none. *Calyx* diphyllous; outer phyllum of the female flowers cucullate, terminated by a straight arista. *Petals* 2. *Styles* 2. *Seed* 1. From L. a Schreb. L.

1. *ZIZANIA palustris.* Panicle effuse below, spicate above. From L. mant. 295, &

*Z. aquatica.* Lamb. in lin. tr. vii. 264. t. 13, from a plant in Sir Jos. Banks's garden, raised from seeds sent from Canada by Dr. Noosh—Sal. W. 97. Walt. 233. L. sp. ii. 1408; ed. I. 991, apparently from

*Zizania.* Gron. virg. 148.

*Z. clavulosa.* *Michaux* i. 75.

*Z. panicula effusa.* *Browne* 340.

(*Arundo alta gracilis*, foliis ex viridi caeruleis, loculis minoribus. *Sloane cat.* 33; *hist.* i. 110. t. 67, is described as having seeds scarcely discernible contained in a downy matter within chaff.)

*ZIZANIA aquatica.* *Bry.* 349:

2. *ZIZANIA terrestris.* Racemus compound. *From* *Rheede*.—*L. sp.* 1408.

*KATOU-TSJOLAM.* *Rheede* xii. 113. t. 60.

## 862. BACTRIS.

*Calyx* tripartite and tridentate. *Corolla* trifid and tridentate. *Stigma* capitate. *Drupe*. *From* *Jacq.*

1. *BACTRIS rotunda.* Drupes roundish. *From* *B. minor.* *Jacq. amer.* 279. t. 171. f. 1; *8vo* 358.  
*Palma pinnis inferne vaginantibus*, caudice tereti aculeatissimo, fructu minori. *Browne* 343.  
*Palma spinosa minor*, caudice gracili, fructu pruniformi minimo rubro. *Sloane cat.* 178.  
*Palma americana spinosa.* *Pluk. phyt.* t. 103. f. 1.  
 No fructifications.

(*Palma foliorum pediculis spinosis*, fructu pruniformi luteo oleoso. *Sloane cat.* 175; *hist.* 113. t. 214, has ovate drupes.)

*COCOS guineensis.* *Swartz. obs.* 409. *L. mant.* 137.—*Wright in med. journ.* viii. 291.

2. *BACTRIS ovala.* Drupes ovate. *From* *Jacq.*

Fructus II. Clus. exot. 49.

BACTRIS major. Jacq. amer. 280. t. 171. f. 2;  
Svo 360.

### 863. ELATE.

Calyx monophyllous. Petals 3. Antherae sessile.

Stigmata 3. Drupe monospermous. From H. K.  
L.

1. ELATE sylvestris. L. sp. 1659. H. K. iii. 477.  
Palma dactylifera minor humilis sylvestris, fructu mi-  
nore. Burm. J. zeyl. 183.

KATOU-INDEL. Rheede iii. 15. t. 22 to 25.  
Raii hist. ii. 1364.

### 864. SAGUS.

Calyx triphyllous. Corolla none. Filaments dilate.  
Style very short. Stigma simple. Berry  
superior, unilocular, monospermous, imbricate  
with scales pointing back. From Gaertn. & L. a.  
Willd.

1. SAGUS Palma-Pinus. Gaertn. i. 27. t. 10.  
S. seu Palma farinaria. Rumph. i. 72. t. 17, without  
fructifications; t. 18, the fructiferous coma.  
Arbor Zagoe amboinensis. Seb. i. 39. t. 25. f. 1.  
Ran. us peregrinus cum suis strobilis. Clus. cur.  
post. 43. t; one of the berries cop. in  
Fructus peregrinus abiegnae nuci persimilis. Bauh.  
J. i. pars i. 498.

*Yecotl.* *Grew. mus.* 200.

*Palmapinus*, sive *Conifera*. *Lob. adv.* 450, *repr. in ic. ii.* 233, & *cop. in Bauh. J. i. pars i.* 398, & *Dalech.* 1832.

*Fructus squamosi.* *Clus. cur. post.* 44. t.

*SAGU.* *Carth.* i. 287. *Linn.* 271. *Murr. v.* 13.

*Sagou.* *Dale* 271. *Vog.* 284.

*Sego.* *Berg.* 875.

*Sago.* *Blane* 303. *Clark J. long voy.* i. 187. *Cull.* i. 288. *Darw.* ii. 218. *Fordyce, G.* fev. ii. 35; iii. 197; *W. fev.* 143. 168. *Lempr.* ii. 223. *Lew.* ii. 178; *disp. by Dunc.* 341; *by Rother.* 230. *Mill. Jos.* 384. *Ploucq. bibl.* i. 354. *Pringle* 276. 284. *Spielm.* 35.

*Sagoe.* *Und.* i. 264.

*Cycas circinalis.* *Murr. J. i.* 387.

## 865. CARYOTA.

*Calyx triphyllous.* *Corolla tripartite.* *Berry unilocular, dispermous.* *From L.*

1. *CARYOTA urens.* *L.* sp. 1660. *Sal. R. hort.* 265. *Donn* 245.

*Saguaster major.* *Rumph.* i. 64. t. 14.

*Schunda-panna.* *Rheede* i. 15. t. 11.

*Palma indica*, folio bicomposito, fructu racemoso.  
*Raii hist.* ii. 1365.

*SAGO.* *Thunb. trav.* iv. 149.

## POLYANDRIA.

## 866. BEGONIA.

*Calyx* of the male flowers none, of the female flowers none and diphylous, inferior. *Petals* of the male flowers 4 and 2; of the female flowers 5, 6 and 4, superior. *Capsule* trilocular and bilocular, polyspermous, winged. *Obs. 3067. L.*

1. *BEGONIA nitida.* Leaves unequally cordate, obsoletely dentate, glabrous, shining. Costa of the stipulae winged. One of the alae of the capsules much larger than the rest, rounded. Stem shrubby, erect. *Obs. 3991.* In Sir H. Hunloke's garden.  
—*Dry. in lin. tr. i. 159. H. K. iii. 352. Sal. R. par. ii. t. 72.*  
*B. obliqua. Lherit. stirp. i. 95. t. 46.*  
*B. minor. Jacq. ic. iii. t. 618; coll. i. 126.*  
*RUMEX.* Browne 203, "when it grows in a more  
"free and open air." (The specific character seems  
to have been formed from *B. scandens.*)
2. *BEGONIA tuberosa.* Creeping. Leaves unequal-  
ly cordate, angular, dentate. Wings of the cap-  
sule parallel. *Dry. in lin. tr. i. 168, from*  
*EMPETRUM acetosum.* *Rumph. v. 457. t. 169.*  
*f. 2.*

## 867. PTERIUM.

*Calyx* inferior, urceolate, tetragonal, quadridentate.

*Petals* 4, oval, inserted into the calyx. *Stamina* many. *Pistils* 2. *Germina* inclosed within the calyx. *Stigmata* pencilshaped. *Capsules* inclosed by the indurated calyx. *Obs.* 4889. *L.*

## 1. Unarmed. L.

1. PTERIUM *Sanguisorba*. Peduncles glabrons.

*Obs.* 4889. On a common between Glapwell and Skegby in Nottinghamshire, on limestone.—*L. sp.* 1411. *Curt. lond.* ii. 64. *t. Smith engl.* t. 860.

*Bot. arr.* ii. 1081. *Mart. rust.* t. 69. *Huds.* 421, in calcareous soil.—*Dod.* 105, *repr. in*

*Pimpinella*. *Lob. ic.* i. 718, &

*Pimpinella hortensis*. *Ger. by Johns.* 1045, & cop. in

*Pimpinella vulgaris*, sive minor. *Park. theatr.* 582.

*Raii hist.* i. 401; *syn. ed.* ii. 100.

*Sideritis secunda* *Dioscoridis*. *Col. ecphr.* i. 123. t. 124.

*Pimpinella*, sive *Sanguisorba minor*, *Matth.* ii. 1034.

*Pimpinella minor*. *Dalech.* 1087.

*Sanguisorba minor*. *Scop. carn.* i. n. 168. *Dill. ap. Raii syn.* 203. *Fuchs.* 749. c. 304, cop. in *Bauh. J.* iii. pars ii. 116.

*Pimpinella*. *Cam. epit.* 777. *Blackw.* t. 413.

Native of Europe from Italy to Germany and Britain.

*PIMPINELLA* rubra. *Pharm. austriaco-prov.*

56.

P. Sanguisorba. *Bry.* 107.

Pimpinella. *Alst.* ii. 198. *Dale* 112. *Geoffr. suite* i. 411. *Herm.* 170. 516. *Mill. Jos.* 344. *Spielm.* 63.

P. italicica. *Berg.* ii. 737. *Linn.* 241. *Murr.* i. 188.

Sanguisorba. *Schrod.* 672.

Pimprenelle. *Chom.* 691; *suppl.* 189.

## 868. JUGLANS.

*Calyx* of the male flowers septempartite; of the female flowers superior, an obsolete margin. *Corolla* of the male flowers none; of the female flowers superior, quadrifid. *Filaments* 4 to 18. *Styles* 2. *Drupe* coriaceous. *Obs.* 8751, & from *L. & L.* & *Willd.*

### 1. *Stamina* 4. From *L. a Willd.*

i. *JUGLANS compressa*. Folioles from 3 to 7, oblongo-lanceolate, acuminate, serrate, pubescent underneath, the odd one sessile. Drupe ovate. Nut oblique, compressed. From *L. a Willd.* iv. 458, & *Muhl. in tracta* 244. *Gaertn.* ii. 51. t. 89.

*J. ovata*. *Mill. Ph. dict.* n. 6.

*J. alba*, fructu ovato compresso, nucleo dulci, cortice squamoso. *Clayt. ap. Gron. virg.* 150.

*Nux Juglans virginiana alba* minor, fructu nucis moschatae simili, cortice glabro summo fastigio velut in aculeum producto. *Pluk. alm.* 254; *phyt. t.* 309. f. 2. A branch with a separate nut.

*JUGLANS* *alba ovata*. *Marsh.* 69.

2. *JUGLANS alba*. Folioles 7, oblongo-lanceolate, acuminate, serrate, pubescent and scabrous underneath; the odd one sessile. Nut hexagonal. *From L. a Willd.* iv. 457, *Michaux* and *Obs.* 8864. Nuts.—*L. sp.* 1415. *Hort. kew.* iii. 360. *Muhl.* in tracts 243.

*J. tomentosa*. *Michaux* ii. 192.

*J. foliolis lanceolatis glabris acute serratis acuminatis peduncularum longitudine fere aequalibus*. *Gron. virg.* 150.

*Nux Juglans alba virginiana*. *Park. theatr.* 1414.

No fig. but a fig. of a nut probably of this species in the preceding page.—*Cat. i. t. 38*. A branch without fructifications, and the larger separate fruit.

*JUGLANS alba*. *Schoopf* 138.

3. *JUGLANS angustifolia*. Folioles 13, linear-lanceolate, serrate, sessile, equal at the base. Drupe oblong, tetragonal. Nut smooth, elliptic. *From Hort. kew.* iii. 361, & *Obs.* 8577.

*J. oliviformis*. *Michaux* ii. 192. *L. a Willd.* iv. 457.

*J. Pecan*. *Marsh.* 69. *Muhl. in tracts 247*.

*J. rubra*. *Gaertn.* ii. 51. *t. 89*. From Madagascar.

*JUGLANS angustifolia*. *Obs.* 8577. A nut. Brought from New Orleans to England as an eatable nut.

2. *Stamina many*. From *L. a Willd.*

4. *JUGLANS regia*. Folioles 5, 7 & 9, mostly entire.

at the margin, oblongo-oval. *Obs.* 1343. In an orchard.—*L. sp.* 1415. *Hort. kew.* iii. 360. *Gou. hort.* 492. In vineyards and public walks; *monsp.* 51. *Host. austr.* 521. On the sides of roads and in villages.—*Scop. carn.* ii. n. 1186. Generally destroyed by the frost in the spring of the year 1763.—*Woodv.* ii. 347. t. 127. *Lour.* ii. 702. *Michaux* ii. 191. In the woods of Media near the Caspian Sea:

*Nux Juglans, sive regia vulgaris.* *Vaill. paris.* 145. *Boerh.* ii. 175. *Magn. monsp.* 187. In vineyards and cultivated ground.

*Nux Juglans.* *Raii hist.* ii. 1376. In Italy, France, Germany, and England, in orchards and on the borders of fields; *syn.* 438. *Bauh. J. i. pars i.* 241. *Trag.* 1092. *Dalech.* 321. *Dod.* 804, *repr. in Lob. obs.* 545; *ic. ii.* 108, & *Ger. by Johns.* 1440, & *cop. in*

*Nux Juglans vulgaris.* *Park. theatr.* 1413. (The fruit belongs to another species.)

*Juglans.* *Fuchs.* 374. c. 143. *Blackw. t.* 247.

Branches of the present year solid, those of last year fistular in the middle, the tube divided into cells by horizontal dissepiments of pith. Spikes of male flowers pendent. Bracteae solitary, rhombic, inserted into the lower surface of the calyx near the end. Calyx septempartite; segments roundish. Filaments very short. Antherae oblong. Female flowers 2 together, sessile, terminal. Germen oval, monospermous. Calyx an obsolete margin crowning the germen; teeth 1 and 2, very short. Corolla quadripartite, below investing the base of the style and separable into 4 ensiform fleshy green petals. Style bipartite.

*Stigmata dilatate, rugoso-lacerate.* Obs. 8751. In an orchard.

**JUGLANS.** Walnut. Unripe fruit. *Pharm. lond.*—*Berg.* 743. *Geoffr.* iii. 619. *Hunczousky in med. journ.* x. 319. *Lew.* ii. 18; *disp. by Dunc.* 240. *Linn.* 243. *Mill. Jos.* 246. *Monro* iii. 149. *Murr.* i. 57. *Perfect in med. mus.* iii. 595, where at 1.6 from the bottom read *Folior. jugland.*—*Ploucq. bibl.* i. 421. *Rutty* 254. *Schrod.* 608.

**J. regia.** *Bry.* 359. *Pears. R.* i. 75; ii. 257; ed. ii. 346.

**Nux juglans.** *Dale* 274. *Vog.* 257.

**Juglandes nuces.** *Spielm.* 120.

**Nux juglans, sive regia vulgaris.** *Chom.* 290; *suppl.* 97.

**Walnut tree.** *Home, Everard, account from in ann. med.* iii. 61. *Reneaume in ph. tr. abr. by Hutt.* iv. 604.

**Green Walnuts.** *Rosenst.* 250.

**OLEUM nucis Juglandis.** *Hufeland, account from in phys. journ.* ix. 94.

**5. JUGLANS cinerea.** Folioles 12 to 15, oblongo-lanceolate, serrate, pubescent underneath. Petioles viscous. Drupes oblongo-ovate. Nut furrowed. From *L. a Willd.* iv. 456, & *Michaux* ii. 191. *L. sp.* 1415. *Jacq. ic. i. t.* 192; *misc. ii. 7.* *Muhl. in tracta* 242.

**J. oblonga.** *Mill. Ph. dict. n. 3.*

**J. foliolis lanceolatis glabris acute serratis acuminatis peduncularum longitudine fere aequalibus.** *Gron. circ.* 150.

*JUGLANS* *cinerea*. *Bart.* 23. 32.

*J. nigra* var. *Schoepf* 139.

*J. oblonga alba*. *Marsh.* 67.

White Walnut. *Bart.* account from *in chir.* rev. ii. 286.

White Walnut tree. *Rush* i. 112.

6. *JUGLANS nigra*. Folioles 15, ovato-lanceolate, serrate, the outer smaller. Buds above the axillae of the leaves. *Obs.* 8343. Specimen from Prof. Jos. F. Jacquin.—*L. sp.* 1415. *Hort. kew.* iii. 360. *Jacq. ic. t.* 191; *misc. ii.* 3.

*J. foliolis lanceolatis tomentosis acute serratis superioribus minoribus*. *Gron. virg.* 150.

*Nux Juglans virginiana nigra*. *Boerh.* ii. 175. *Herm. hort.* 452. *t.* 453.

*Nux Juglans nigra virginensis*. *Cat. i. t.* 67. *Park. theatr.* 1414. No fig.

*JUGLANS nigra*. *Bry.* 360. *Marsh.* 66. *Schoepf* 139.

## 869. QUERCUS.

*Calyx* of the male flowers mostly quinquefid, of the female flowers monophyllous, entire. *Corolla* none. *Stamina* 5 to 10. *Styles* 2 to 5. *Nut* ovate, surrounded at the base by the calyx become ligneous. *Obs.* 6726. *L.*

1. *Leaves entire at the margin*. *L. a Willd.*

1. *QUERCUS molucca*. Leaves elliptic, glabrous. From *L. sp.* 1412, &—*Rumph.* iii. 85. *t.* 56.

## 2. Leaves entire at the margin and dentate.

2. **QUERCUS virens.** Leaves lanceolato-oblong, evergreen, coriaceous, pubescent underneath with stellate hairs; margin revolute, entire, that of young plants dentate. Nut oblong. *From Hort. kew. iii. 356, L. a Willd. iv. 425, and Michaux ii. 196.*

**QUERCUS Phellos.** *L. sp. 1412* *Bry. 344.*  
*Schoepf 137.*

**Q. virginiana.** *Mill. Ph. dict. n. 16.*

**Q. foliis oblongis non sinuatis.** *Cat. i. t. 17.*

3. **QUERCUS Ballota.** Leaves elliptic, perennial, denticulate and entire, tomentose underneath. Nut cylindric. *From L. a Willd. iv. 432.*

**QUERCUS Bellote.** *Link trav. 86. 148.*

4. **QUERCUS Ilex.** Leaves evergreen, lanceolate and oblong, tomentose underneath. Calyces ciliate. Antherae ovate. Bark smooth. *Hort. kew. iii. 355. L. sp. 1412. Scop. carn. ii. n. 1182. Asso n. 933. Host austr. 519.* On the shores of the Adriatic.

*Ilex folio rotundiori molli modiceque sinuato, sive Smilax Theophrasti.* *Boerh. ii. 177.*

**ILEX.** *Boerh. ii. 645.*

**α integerrima.** Leaves lanceolate, mostly entire at the margin. *Obs. 8345.* In Lady Clifford's garden. —*Hort. kew. α*

*Smilax arcadum glandifera.* *Dalech. i. 24, cop. in*

*Smilax arcadum glandifera major.* *Park. theatr. 1898, inner fig.*

*Smilax humilis angustifolia*, folio non serrato. *Dalech.* i. 25, *cop. in*

*Smilax arcadum glandifera minor*. *Park. theatr.* 1398, outer fig.

§ *serratifolia*.—Leaves lanceolate, serrate. *Hort. kew. β*

*Ilex. Dalech.* i. 20.

*Ilex major*, absque aculeis. *Park. theatr.* 1395, inner and upper figures.

*Phellodrys*. *Matth.* i. 209, *cop. in Tab. ic.* 963,

*Smilax Dalechampii*. *Bauh. J.* i. pars ii. 101, &

*Phellodrys Matthioli*. *Dalech.* i. 26.

*SMILAX arborea*. *Dale* 276.

*Ilex oblongo serrato folio*. *Magn. hort.* 105.

γ *dentatifolia*. Leaves ovali-elliptic, dentato-serrate; teeth spinose. *Obs.* 8346. Specimen gathered by Mr. Boraston in the woods near Leghorn.—*Hort. kew. γ*.

*Ilex major*. *Clus. hisp.* 32, *repr. in hist.* i. 23,

*Ilex major glandifera*. *Ger. by Johns.* 1344, *Dod.* 817,

*Ilex arbor*. *Lob. obs.* 582, & *ic.* ii. 154, *abr. in*

*Ilex major aculeata*. *Park. theatr.* 1395, outer and lower figures, & *cop. in*

*Ilex arborea*. *Bauh. J.* i. pars ii. 95. *Raii hist.* ii. 1391; *eur.* 154. In Italy and the south of France in woods and hedges.

*Phellodrys alba angustifolia folio serrato*. *Dalech.* i. 25, *repr. in*

*Phellodris blanc, à la feuille estroite & dentelee*. *Dalech. plantes* i. 21.

*Phellodrys alba angustifolia*. *Park. theatr.* 1399.

*Ilicis ramus floridus*. *Ger. by Johns.* 1344.

*Phelodrys nigra*, mediocribus foliis, & *Phelodrys nigra*, latissimis foliis. *Dalech.* i. 26, cop. in

*Phelodrys nigra* & aliae *Dalechampii*. *Bauh. J.* i. pars ii. 100, &

**PHELLODRYS.** *Chabr.* 57.—*Dale* 460.

5. **QUERCUS Suber.** Leaves evergreen, oblongo-oval, serrato-dentate and entire at the margin, tomentose underneath. Bark cracked, fungose. *Obs.* 8344. Specimen gathered in Kew garden.—*Hort. kew.* iii. 355. *L. sp.* 1413. *Host austr.* 520. In Istria and the Venetian isles.

*Suber latifolium* perpetuo virens. *Boerh.* ii. 179.

**SUBER.** *Blackw. t.* 193.—*Berg.* ii. 738. *Boerh.* ii. 646. *Dale* 276. *Geoffr. suite* iii. 132. *Linn.* 242. *Mill. Jos.* 428. *Murr.* i. 64.

*Liege.* *Chom.* 615.

$\alpha$  *integerrima*. Leaves entire at the margin. *Obs.* 8344. Specimen from Dr. Heise.

*Suberifer latifolia*. *Lob. adv.* 432, inner fig. *repr.* in *Lob. ic. Dod.* as above under  $\alpha$ , &

*Suber angustifolium*. *Ger. by Johns.* 1346, inner fig. & cop. in *Park. theatr.* 1397, inner fig.

*Suber folio longiore & angustiore*. *Dalech.* 22.

$\beta$  *dentata*. Leaves serrato-dentate. *Obs.* 8344.

*Suber folio breviore & latiore*. *Dalech.* i. 22.

*Suberifer latifolia*. *Lob. adv.* 432, the middle fig. *repr. in*

*Suber latifolia*. *Lob. ic.* ii. 159,

*Phellos*, sive *Suber*. *Dod.* 818, &

*Suber latifolium*. *Ger. by Johns.* 1347. *Park. theatr.* 1397. *Clus. pann.* 28, *repr. in hist.* i. 22, and cop. in *Bauh. J.* i. pars ii. 103. *Raii hist.* ii.

1893; eur. 242. Found by Willoughby between Naples and Rome.

3. *Leaves serrate & dentate.*

6. **QUERCUS cuspidata.** Leaves ovate, cuspidate, serrate, glabrous. *Thunb. jap.* 176.
7. **QUERCUS coccifera.** Leaves ovate, cordate at the base, dentate, spinose, glabrous, undulate. *Hort. kew.* iii. 356. *L. sp.* 1413. *Gou. hort.* 491. *Asson.* 935. *Host austr.* 519. In Istria and the Venetian isles.—*Scop. carn.* ii. n. 1183. Found by Mygind in Istria.

*Ilex aculeata cocciglandifera.* *Boerh.* ii. 177.

*Ilex coccigera.* *Bauh. J. i. pars ii.* 106. No fig.—  
*Raii hist.* ii. 1392; eur. 154. In the south of France.—*Clus. hisp.* 34, repr. in *hist. i.* 24, *Ger. by Johns.* 1342,

*Coccus infectoria.* *Lob. obs.* 581; *ic.* ii. 153, &

*Ilex minor coccigera.* *Dod.* 815, & cop. in

*Ilex aquifolia*, sive *coccigera.* *Park. theatr.* 1395.

*Ilex aquifolia.* *Dalech.* i. 27.

*Cocci infectorii arbuscula.* *Dalech.* i. 28.

**QUERCUS coccifera.** *Gou. monsp.* 415.

8. **QUERCUS Castanea.** Leaves oblongo-lanceolate, acuminate, tomentose underneath, dentate; teeth nearly equal, dilatate, callous at the ends. Calyx of the fruit hemispheric. Nut ovate. *From L. a Willd.* iv. 441. *Muhl. in tract* 253.

9. **QUERCUS Prinus.** Leaves deciduous, ovato-elliptic, pubescent underneath, deeply dentate; teeth

very broad obtuse, nearly equal. *Hort. kew.* iii.

356. *L. a Willd.* iv. 439; *sp.* 1413. *Muhl. in tracts* 253. *Michaux* ii. 195  $\alpha$

**Q.** foliis obverse ovatis utrinque acuminatis serratis, denticulis rotundatis uniformibus. *Roy.* 80. *Gron. virg.* 149.

**Q.** castaneae foliis, procera arbor virginiana. *Cat. i.* t. 18. *Pluk. alm.* 309; *phyt. t.* 54. f. 3. A leaf.

**Q.** virginiana, castaneae folio. *Raii hist.* ii. 1916.

**QUERCUS** Prinus. *Schoepf* 137.

10. **QUERCUS nigra.** Leaves annual, cuneiform, subcordate at the base, obsoletely lobate; lobes dilatate. *Hort. kew.* iii. 357. *L. sp.* 1413  $\beta$

**Q.** marilandica, folio trifido ad sassafras accedente. *Cat. i. t.* 19.

**QUERCUS nigra.** *Schoepf* 137.

11. **QUERCUS aquatica.** Leaves annual, subcuneiform, attenuate at the base, lobate, glabrous. *Hort. kew.* iii. 357.

**Q.** folio non serrato in summitate quasi triangulo. *Cat. i. t.* 20.

**QUERCUS nigra.** *L. sp.* 1413  $\alpha$ —*Schoepf* 137.

12. **QUERCUS Robur.** Leaves cuneiformi-oblong, glabrous, sinuate; lobes mostly rounded. Nuts oblong. *Obs.* 6726. In a hedge.—*Hort. kew.* iii. 358. *L. sp.* 1414. *Asso n.* 936. *Scop. carn.* ii. n. 1184. *Bot. arr.* ii. 1083.

Native of Europe from the south of Spain to the middle of Sweden.

**QUERCUS.** Oak. Bark. *Pharm. lond.*—*Berg.*

ii. 741. *Boerh.* ii. 645. *Chalm.* i. 154. 165. *Cull.*  
 ii. 20. *Dale* 275. *Geoffr. suite* ii. 146. *Heb.* 175.  
 259. *Herm.* 219. *Lew.* ii. 258. *Linn.* 242. *Mill.*  
*Jos.* 366. *Monro* iii. 228. *Murr.* i. 61. *Ploucq.*  
*bibl.* i. 516. *Rutty* 420. *Schrod.* 659. *Spielm.* 421.  
*Syd.* 427. *Und.* ii. 121. 144. *Vog.* 295.

**Q.** *Robur.* Bark. *Pharm. edin.*—*Lew. disp. by Dunc.* 290. *Coste & Willem. in med. comment.* v. 298. *Murr. J.* i. 214. *Pears. R. ed.* ii. 353. 392.

Oak bark. *Aitk. midw.* 136. *Chalm.* i. 73. 83. 94. 96. 104. 124. 130. 133. 147. 149. 153. 203. 222; ii. 88. 93. 94. 98. 102. 123. 169. 204. 208. *Darw.* ii. 53. 101. 266. 267. *Hunt. J. in Pringle* 276. *Jackson, Seguin account from in med. comment.* dec. II. ix. 103. *Und.* i. 45; ii. 144.

**GLANDES.** *Ploucq. bibl.* i. 369. 441. *Quar. anim.* 98. *Rosenst. referred to in Quar. anim.* 234. *Vog.* 266.

Acorns. *Chir. rev.* viii. 100, & *med. rev.* iii. 428. *Lindemann, account from in med. rev.* i. 268.

Cups of acorns. *Chalm.* i. 147.

\* **pedunculata.** Stem arboreous. Peduncles longer than the fruit. *Obs.* 6726. *H. K. a. Bot. arr.* β. *Huds.* 421. α. *L. sp.* 1414; *suec. n.* 870 α

**Q. pedunculata.** *Host austr.* 520; *L. a Willd.* iv. 450.

**Q. Robur pedunculata.** *Mart. rust. t.* 10.

**Q. Robur.** *Sibth. ox.* 133. *Relh.* 363. *Smith brit.* iii, 1026; *engl. t.* 1342. *Poll.* ii. n. 909. *Woodv.* ii. 344. *t.* 126. *Gaertn.* i. 183. *t.* 37.

**Q. foemina.** *Mill. Ph. dict. n.* 2. In the wilds of Kent and Sussex. Not so common as β.—*Reich.*

*francof.* n. 699. *Roth* germ. i. 408. *Fl. dan.* t. 1180.

*Q. latifolia.* *Raii syn.* 440.

*Q. cum longo pediculo.* *Tourn. paris.* 132. *Vaill. paris.* 167. *Boerh.* ii. 177.

The Oak tree. *Evel. by Hunt.* i. t. at 67.

Hemeris Etymodris. *Dalech.* i. 4, cop. in

*Q. vulgaris, longis pediculis.* *Bauh. J.* i. pars ii. 70. f. 2. *Raii hist.* ii. 1385.

*Quercus.* *L. suec. ed.* i. n. 784. *Math.* 204. *Loes.* 211. t. 69. In flower.—*Tab. ic.* 962. *Dod.* 811, cop. in *Park. theatr.* 1390, &

*Quercuum excrements.* *Bauh. J.* i. pars ii. 81, & repr. in

*Q. vulgaris.* *Lob. obs.* 582; *ic.* ii. 154, & *Ger. by Johns.* 1340. No fructifications. A gall called an oak ball occasioned by the larva of an insect.

*Pilulae foliorum Quercus.* *Bauh. J.* i. pars ii. 85, spikes of male flowers, and globular excrescences occasioned by the larva of an insect. *Obs.* 7193.

*Spikes axillary, pedunculate.* *Peduncles* of the fruit with from 1 to 4 nuts, sometimes nearly as long as the leaves. *Fruit sessile, sometimes approximate, sometimes distant.* *Obs.* 6726.

*QUERCUS.* *Pharm. lond. noviss.*

*Q. cum longo pediculo.* *Cod. med. p.* xcvi.

*Q. sessiliflora.* Stem arboreous. Peduncles shorter than the fruit. *Obs.* 8181. On the banks of the Rother near Chesterfield.—*Hort. kew. β.* *Bot. arr. α.*

*Huds. β;* *L. a Murr.* 858 *β;* *sp. α*

*Q. Robur sessilis.* *Mart. rust.* t. 11. 12.

*Q. sessiliflora.* *Sal. R. hort.* 392. *Smith brit.* iii. 1026; *engl. t.* 1845.

**Q. Robur.** *Mill. Ph. dict.* n. 1. *Duroi obs.* 33.  
*Roth germ.* i. 408; ii. *pars* ii. 487. *Host austr.*  
 520. *Reich. francof.* n. 698. *L. suec.* n. 870  $\beta$   
 Near Hunneberg in West Gothland.

**Platyphyllus foemina.** *Dalech.* i. 2.

**The Oak.** *Le Pluche nat. delin.* ii. t. 17. at p. 311.  
 No fructifications.

**Quercus.** *Fuchs.* 228. c. 84. *imit.* in *Trag.* 1102,  
 &

**Q. vulgaris,** brevibus pediculis. *Bauh. J.* i. *pars*  
 ii. 70. f. 1. *Raii hist.* ii. 1385.

**Q. nostras.** *Park. theatr.* 1386.

**Quercus.** *Cam. epit.* 111. *Lob. obs.* 583, *repr.* in

**Q. vulgaris.** *Lob. ic.* ii. 155, & *Ger. by Johns.*  
 1339, & *cop. in*

**Muscus quercuum.** *Bauh. J.* i. *pars* ii. 88.

Petioles from 2 to 4 tenths of an inch long. Leaves  
 cuneiformi-oblong; segments to 6 on each side, ob-  
 tuse, sometimes acute; margin deflex. Spikes pe-  
 dunculate, axillary, from 4 to 7 tenths of an inch  
 long. Flowers sessile, lowermost fertile, 1 and 2 above  
 abortive. Peduncle 2 and 3 tenths of an inch long.  
*Obs.* 8181.

**QUERCUS latifolia mas,** quae brevi pediculo est.

*Raii syn.* 440. Observed by Bobart in Bagley  
 wood and divers other places.—*Tourn. paris.* 131.  
*Vaill. paris.* 167. *Boerh.* ii. 177. *Warn. woodf.*  
 135. Near Woodford in Essex on the forest be-  
 tween Muncombe and the Bald faced stag, not com-  
 mon.—*Cod. med. p.* xcvi.—*Chom. ii.* 612.

**Chesne.** *Chom. suppl.* 177.

13. **QUERCUS Catesbaei.** Leaves oblong, deeply si-  
 nuate, glabrous; lobes 3 & 5, divaricate, acute,

setaceo-mucronate, cuneate at the base. Calyx of the fruit turbinate. *L. a Willd.* iv. 446. *Michaux* ii. 199.

*Q. esculi* divisura, foliis amplioribus aculeatis. *Cat. i. t. 23.*

*QUERCUS rubra*. *Schoepf* 138.

14. *QUERCUS discolor*. Leaves oblong, pinnatifid-sinuate, pubescent underneath; lobes oblong, dentate, setaceo-mucronate. Calyx of the fruit attenuate below. *L. a Willd.* iv. 445. *Hort. kew.* iii. 358.

*Q. carolinensis*, virentibus venis muricata. *Cat. i. t. 21. f. 1.* Leaf and acorn.

*QUERCUS rubra*. *Schoepf* 138.

15. *QUERCUS Cerris*. Leaves sinuato-pinnatifid, pubescent underneath; segments rather acute. Stipulae of the buds in the axillae subulate. Calyces echinate. *H. K.* iii. 359. *L. sp.* 1415. *Asso n. 938.*

*Aegilops minore glande*. *Dod.* 819, repr. in

*Cerris Plinii minore glande*. *Lob. obs.* 584, repr. in *ic. ii. 156*, &

*Cerris minore glande*. *Ger. by Johns.* 1345, & cop. in

*Haliphlaeos*, sive *Cerrus foemina minore glande*.

*Park. theatr.* 1388. Stipulae of the leaves and buds not represented.—*Raii hist.* ii. 1387.

*Cerrus*. *Dalech.* i. 6.

*Haliphloeo Cerrus foemina*. *Dalech.* i. 7.

*Robur II*. *Clus. hisp.* 21, repr. in

*Galla major*. *Dod.* 813, *Lob. obs.* 586; *ic. ii. 158*, and

*Robur sive Galla major altera.* *Ger. by Johns.* 1348,  
*cop. in*

*Robur cum galla majore rugosa.* *Park. theatr.* 1386,  
*& repr. in*

*Robur III.* *Clus. hist.* i. 18, which *cop. in Bauh. J.*  
i. pars ii. 76.

**GALLAE.** Galls. *Pharm. lond. noviss.* — *Alst.*  
ii. 285. *Bell. B. surg.* ii. 257. *Carth.* iv. 142.  
*Cull.* ii. 45. *Fordyce, G. pract.* 208. 375. *Geoffr.*  
ii. 778. *Heb.* 259. *Herm.* i. 439. *Hill.* 695.  
*Lew.* i. 454; *disp. by Dunc.* 291. *Mariti* i. 247.  
*Monro* iii. 115. *Rutty* 214. *Schröd. app.* 9. *Vog.*  
302.

*Galla.* *Pharm. lond. edin.*

*Gallae turcicae.* *Berg.* ii. 739. *Murr.* vi. 1.

*Gallae orientales.* *Bauh. J.* i. pars ii. 83. f. 5. 6.

*Gallae ex oriente.* *Dalech.* i. 9.

*Q. Cerris.* *Murr. J.* i. 215. *Pears. R. ed.* ii.  
352.

*Robur.* *Dale* 276.

Galls. *Cull. clin.* 331. *Ferriar* iii. 90. *Hufeland,*  
*account from in med. rev.* ii. 452. *Jarrold in ann.*  
*med. lustr. II.* i. 392. *Neum.* ii. 127. *Pears. G.*  
*in Rollo diab.* 307. 711. *Reneaume in ac. sc. abr.*  
*by Southw.* iii. 268.

16. **QUERCUS alba.** Leaves annual, pinnatifid, si-  
nuses narrowing; segments oblongo-linear, without  
bristly points. *Hort. kew.* iii. 358. *L. sp.* 1414.  
*Guertn.* i. 50. t. 89.

*Q. alba virginiana.* *Cat. i. t.* 21.

**QUERCUS alba.** *Schoepf* 138.

White Oak. *Rush* ii. 288.

17. *QUERCUS Esculus.* Leaves pinnatifid, pubescent underneath; segments lanceolate, acute. Stipulae filiform. Seeds oblong. Calyces muricate. *H. K.* iii. 358. *L. sp.* 1414; *mant.* 496.

*Q. parva*, sive *Phagus graecorum*, et *Esculus Plinii.* *Boerh.* ii. 177. *Raii hist.* ii. 1386.

*Phagus Esculus foemina.* *Dalech.* i. 5.

*Phagus Esculus mas.* *Dalech.* i. 5, *cop. in*

*Phegus*, vel *Esculus.* *Bauh. J.* i. *pars* ii. 74, &

*Phagus*, sive *Esculus nostras.* *Park. theatr.* 1387.

(The separate leaf belongs to another species.)

*QUERCUS Esculus.* *Bry.* 343.

*Phagus.* *Dale* 275.

## 870. FAGUS.

*Calyx* of the male flowers sexfid, of the female flowers superior, hexaphyllous. *Corolla* none. *Style* trifid and sexfid. *Germen* trilocular and sexlocular. *Capsule* formed from the *involucrum*, containing 2 and 3 nuts. *Obs.* 8638. *Michaux* ii. 194. *L.*

1. *FAGUS Castanea.* Leaves lanceolate, serrato-dentate at the margin, glabrous. *Obs.* 1427. In a hedge where it appeared to have been planted.—*L. sp.* 1416. *Gou. hort.* 492; *monsp.* 416. *Host austri.* 321. *Roth germ.* i. 409. In woods near Frankfort and Tubingen.—*Huds.* 422. Frequent in Kent in woods and hedges, but he very justly marks it as a naturalised plant.—*Abb. n.* 692. In woods, but rare.—*Bot. arr.* ii. 1086. *Smith brit.* 1027; *engl. t.* 886. *Lour.* ii. 699.

*Castanea sativa.* *Scop. carn.* ii. n. 1187. *Boerh.* ii. 178.

*Castanea vesca.* *Gaertn.* i. 181. t. 37.

The Chesnut tree. *Evel. by Hunt.* i. 153. t.

*Castanea sylvestris*, quae peculiariter *Castanea*. *Tourn. paris.* 410. *Boerh.* ii. 179.

*Castanea.* *Blackw. t.* 330. *Mill Ph. ic.* i. 56. t. 84.

*Raii hist.* ii. 1382; *syn.* 440. In woods near Sittingburn in Kent, and Woburn in Bedfordshire, but whether indigenous uncertain.—*Fuchs.* 371. c. 142.

*Trag.* 1100. *Vaill. paris.* 31. *Dalech.* i. 31.

*Bauh. J.* i. pars ii. 121. *Dod.* 802, *repr. in Ger. by Johns.* 1442, & cop. in

*Castanea vulgaris.* *Park. theatr.* 1400.

*Castanea fructu dulciori.* *Gron. virg.* 151.

*Castaneac.* *Matth.* 211. *Cam. epit.* 118.

*CASTANEA sylvestris.* *Herm.* 215.

*Castanea.* *Dale* 275. n. 2. *Geoffr.* iii. 281. *Schoepf* 140. *Schrod.* 558.

*Castanea sylvestris*, quae peculiariter *Castanea*. *Chom.* 619.

Chesnuts. *Gautieri, account from in chir. rev.* i. 385.

*CASTANEA sativa.* *Chom.* 619. *Geoffr.* iii. 280. *Rutty* 104.

*Castanea.* *Berg.* ii. 745. *Boerh.* ii. 647. *Dale* 275. n. 1. *Herm.* 215. *Linn.* 243. *Mill.* *Jos.* 122. *Murr.* i. 52. *Spielm.* 118.

F. *Castanea.* *Bry.* 358. *L. am.* v. 67. *Pears. R.* i. 73. *Thunb. jap.* p. xxxiii.

*Fagus Castanea dentata.* *Marsh.* 46.

2. *FAGUS pumila.* Leaves lanceolato-ovate, acutely

serrate, tomentose underneath. Amenta filiform, nodose. *L. sp.* 1416. *Hort. kew.* iii. 361.—*Bry.* 359. *Schoepf* 140.

3. *FAGUS sylvatica*. Leaves elliptico-ovate, obsoletely crenate. *Obs.* 8638. In a plantation.—*L. suec.* n. 871; *sp.* 1416. *Huds.* 422. Woods and hedges in calcareous soil.—*Bot. arr.* ii. 1087. *Abb. n.* 691. In woods.—*Gou. hort.* 492; *monsp.* 416. *Asso n.* 939. *Smith brit.* 1028; *engl. t.* 1846. *Roth germ.* i. 409, in woods and forests.

*F. sylvestris*. *Michaux* ii. 194. *Gaertn.* i. 182. *t.* 37.

The Beech tree. *Evel. by Hunt.* ed. 2. i. 131. *t.* *Fagus.* *Raii hist.* ii. 1381, in chalky and rocky soils; *syn.* 439, in Kent, Sussex, Hampshire and Hertfordshire.—*Tourn. paris.* 79. *Vaill. paris.* 52. *Boerh.* ii. 178. In Holland.—*Trag.* 1107, *Malth.* 205. *Cam. epit.* 112. *Dod.* 820, *repr. in Ger. by Johns.* 1444, which *cop. in Lob. obs.* 587, which *repr. in ic.* ii. 160, & *cop. in Park. theatr.* 1403, & *imit. in*.

*F. picta* a *Dodonaeo*. *Dalech.* 34.

*F. picta* a *Matthiolo*. *Dalech.* 34.

*F. latinorum*, *Oxya gracorum*. *Bauh. J.* i. *pars ii.* 117.

Native of Europe from Spain to Sweden, and of Kent, Sussex, Hampshire, Hertfordshire, Buckinghamshire, and Bedfordshire.

*Peduncles* just above the axillae. *Calyx* of the male flowers sexfid. *Stamina* about 12. *Intolucrum* of the female flowers quadrifid, biflorous. *Calyx* superior, hexaphyllous; *phylla* subulate. *Germen*

triquetrous, trilocular, 3 tenths of an inch long, somewhat shorter than the involucrum; rudiments of seeds in the upper part of the germen. *Obs.* 8638.

*FAGUS.* *Berg.* ii. 746. *Boerh.* ii. 648. *Dale* 275.

*Linn.* 243. *Murr.* i. 53. *Rutty* 192. *Schoepf* 140.

*CARBO.* *Ploucq. bibl.* i. 514.

*Carbo ligni.* *Phārm. edin. lond. noviss.*

*Carbo lignarius.* *Pears. R. ed.* ii. 334.

*Charcoal.* *Darw.* ii. 33. 135. *Hunold,* account from *in phys. журн.* xii. 283. *Thomanis,* account from *in chir. rev.* x. 310.

*Charcoal of Beech wood.* *Odier in med. comment.* dec. II. viii. 441.

*Carbon.* *Home, Ever.* account from *in ann. med.* iii. 52. 57. *Mitchill,* account from *in phys. journ.* i. 279.

*FULIGO ligni.* *Lew. disp. by Dunc.* 227.

*Fuligo.* *Schrod.* 720.

*CARBONAS potassae impurus.* *Pharm. edin.* — *Lew. disp. by Dunc.* 176.

*Cineres clavellati.* *Pharm. lond.* — *Murr.* i. 55.

*Cineres russici.* *Hill.* 801.

*Potash.* *Neum.* ii. 285.

*Ashes of green wood.* *Perciv. Rob. cape* 85.

## 871. CORYLUS.

*Bracteae* of the male flowers trifid, of the female flowers undivided. *Calyx* of the male flowers none, of the female flowers superior, diphyllous. *Styles* 2. *Nut* ovate. *Obs.* 6938. *L.*

1. **CORYLUS Avellana.** Leaves doubly serrate. Petioles and smaller branches with globiferous hairs. *Obs. 3304.* In a wood.—*Hort. kew.* iii. 363. *L. sp. 1417.*

**CORYLUS.** *Murr.* i. 66.

**C. Avellana.** *Bry.* 356.

*Avellanae.* *Spielm.* 113.

*Coudrier.* *Chom* 616; *suppl.* 178.

**α sylvestris.** Involucra of the fruit shorter than the nut. *Obs. 3304.*

**C. Avellana.** *L. suec. n.* 873; *sp. 1417 α. Gou. hort.* 493; *monsp.* 417. *Bot. arr.* ii. 1090. *Gaerln.* ii. 53. *t. 89. f. a to H. Smith Engl. t.* 723.

**C. sylvestris.** *Raii syn.* 439. *Tourn. paris.* 425. *Vaill. paris.* 42. *Boerh.* ii. 176. In Holland.—*Lob. ic.* ii. 192, *repr. in Ger. by Johns.* 1438, and the fruit *cop. in*

*Nux avellana sylvestris.* *Park. theatr.* 1415.

*Avellana nux sylvestris.* *Fuchs.* 393, *cop. in*

**C. sativa.** *Bauh. J. i. pars i.* 266, (the name is ♂) & *in*

*Avellana nux.* *Trag.* 1096, lower half of the fig. with the addition of flowers.

*Avellana sylvestris.* *Magn. monsp.* 35.

*Nuces avellanae.* *Cam. epit.* 177. *f. 2.*

*Nux avellana.* *Matth. i.* 281, outer fruit.

*Stipulae subrotundo-oval and oval.* *Obs. 3304.*—*Stipulae subulato-ovate and ovato-subulate.* *Obs. 6938.* In a wood.

**CORYLUS.** *Blackw. t.* 293.—*Berg. ii.* 747. *Linn. 244. Vog. 265.*

**C. nostras sylvestris.** *Schrod.* 572.

**Avellana.** *Dale* 274. *Mill. Jos.* 67. *Rutty* 46.

*Ploucq. bibl. i. 409.*

*OLEUM nucum. Ploucq. bibl. i. 289.*

Nut oil. *Wall, J. tracts 100.*

$\beta$  *alba.* Involucra of the fruit longer than the nut.—

*L. sp.  $\beta$ . Hort. kew.  $\beta$*

*C. tubulosa. L. a Willd. iv. 470.*

*C. maxima. Mill. Ph. dict. n. 2.*

*C. sativa, fructu albo minore, sive vulgaris. Boerh.*  
ii. 176.

*Nux avellana, sive Corylus, Dod. 804, repr. in Ger.*  
*by Johns. 1438,*

*C. persimilis alno. Lob. obs. 608, & ic. ii. 192,*  
*cop. in*

*Nux avellana sativa. Park. theatr. 1415, & repr.*  
*in*

*Corylus. Clus. hist. i. 11. L. hort. 286  $\beta$*

*C. sativa. Dalech. i. 319. Bauh. J. i. pars i. 252.*  
*(the fig. is  $\alpha$ )*

*Avellana domestica. Fuchs. 393, cop. in*

*Avellana nux. Trag. 1096, the upper half of the*  
*fig.*

*Nux avellana. Matth. i. 281, inner fruit.*

*Nuces avellanae. Cam. epit. 177, & f. 1.*

*The Haselnut tree. Evel. by Hunt. i. t. at p. 213.*

*Bracteae trifid; segments incumbent. Stamina 8,*  
inserted on the inner side of the bractea. *Buds of the*  
female flowers oval, compressed, parallel to the branch,  
sessile, patulous, imbricate, each containing unfolded  
leaves and in the center a head of female flowers.  
*Flowers* 6 to 8. *Calyx, phylla linear-oblong, pel-*  
*lucid, piloso-lacerate, erect, opposite, at the base of*  
*the styles. Corolla none. Germen not distinguish-*

able. *Styles* 2, crimson, attenuate, erect, glabrous, united at the base. *Obs.* 6938. Near Chesterfield. 4 to 31 Mar.

*CORYLUS Avellana*. *Gaertn.* ii. 53. t. 89. f. a  
a. b b.—*Pears. R.* i. 73.

*C. Nux Avellana*. *Geoffr.* iii. 363.

*C. sativa*, fructu albo minore, sive vulgaris. *Chom.* 616.

*C. nostras sativa*, fructu albo minore. *Schrod.* 572.

γ *rubra*. (Variation of β) Rind of the kernel red.—  
*Hort. kew.* γ. *L. sp.* δ

*Avellana rubra nostras*. *Park. par.* t. 559. f. 8.

*C. sativa*, fructu oblongo rubente. *Boerh.* ii. 176.  
*Magn. hort.* 63.

*CORYLUS nostras sativa*, fructu oblongo rubente.  
*Schrod.* 572.

δ *grandis*. Nuts twice as large as those of α—*Hort.*  
*kew.* δ. *L. sp.* γ

*Corylus*. *L. ups.* 286 γ

*CORYLUS sativa*, fructu rotundo maximo. *Boerh.*  
ii. 176.—*Chom.* ii. 616. *Geoffr.* iii. 363.

*C. nostras sativa*, fructu rotundo maximo. *Schrod.*  
572.

*Avellana*. *Berg.* ii. 748. *Dale* 275.

ε *americana*. Involucra of the fruit longer than the  
nut, crenate. *Obs.* 7943. Specimen in fruit gathered  
by Dr. Cutler in New England.

*C. americana*. *Marsh.* 37. *Walt.* 236. *Michaux*  
ii. 201. *L. a Willd.* iv. 471.

*C. nucleo rotundiori & duriori*. *Clayt.* ap. *Gron.*  
*virg.* 151.

*C. virginiensis*. *Park. theatr.* 1416?

Roundshelled Hazle. *Cutl.* 490.

Branches hispid; smaller hairs acute, the larger globiferous, red. Leaves ovato-cordate, doubly serrate. Involucra of the fruit pubescent; hairs acute. Obs. 7943.

2. *CORYLUS rostrata*. Leaves doubly serrate. Petioles and smaller branches with acute hairs. Involucra of the fruit longer than the nut, hispid at the base. Obs. 7942. Specimen in fruit gathered by Dr. Cutler in New England.—*Hort. kew. iii.* 364. *Michaux ii.* 201, who is erroneously cited in *L. a Willd.* iv. 471.

*C. cornuta*. *Marsh. 37.*

*C. sylvestris*, calyce longiore fructum etiam maturum omnino tegente. *Gron. virg. 151.*

Longshelled Hazle. *Cutl. 490.*

3. *CORYLUS Colurna*. Involucra of the fruit double; outer multipartite; inner tripartite, with palmate segments. From *L. a Willd.* iv. 472; sp. 1417. *Hort. kew. iii.* 364.

*C. byzantina altissima et maxima*. *Boerh. ii.* 176.

*C. byzantina*. *Seb. i. t. 27. f. 2.* In flower. Leaves repandose, somewhat dentate at the base.

*AVELLANA pumila byzantina*. *Clus. pann. 120,* repr. in *hist. i.* 11, &

*Avellana pumila byzantina*, cum suo fructu. *Ger. by Johns.* 1439, two outer figures, & cop, in

*Nux avellana macedonica*, sive *byzantina*. *Park. theatr.* 1415, the 2 upper heads of fruit, the uppermost of which cop. in

*Avellana byzantina*. *Park. par. t. 559. f. 7.* (Bauh. *J. i. pars i.* 270, cop. from

*Avellanae byzantinae ramus, cum fructu minore.*

*Clus. hist i. 11, which repr. in*

*Avellana pumila byzantina. Ger. by Johns. 1439, is probably the produce of the seeds of some variety of C. Avellana.)*

## M O N A D E L P H I A.

### 872. THOA.

See *Gnetum* 891.

### 873. PINUS.

*Calyx* of the male flowers tetraphyllous and polyphyllous, of the female flowers none. *Bracteae* of the female flowers double, an outer and an inner. *Corolla* none. *Nuts* 2, winged. *Obs.* 2769. 2697. 8639. *L. Vent. tabl. t. 24. f. 2.*

1. *Leaves solitary, distinct at the base.* L.

1. PINUS *Picea.* Leaves flat, emarginate, shining above. Scales of the strobili very obtuse, adpressed. Crest of the antherae bicornute. *Obs.* 2894. In a garden. The account of the fruit from *Hort. kew.* iii. 370, and that of the antherae from Lamb. quoted in *L. a Willd.* iv. 504; sp. 1420. *Scop. carn.* ii, n. 1193. *Poll.* ii, n. 914. *Host*

*austr.* 521. *Woodv.* iii. 575. *t.* 209, with female spikes.—*Thornt.* *t.* 776. *Roth germ.* i. 411. In Suabia, Franconia, the Palatinate, Saxony and Brandenburg.

P. *Abies.* *Duroi obs.* 39.

The silver Fir-tree. *Eæl. by Hunt.* i. 278. *t.*

*Abies taxi folio, fructu sursum spectante.* *Boerh.* ii. 179.

*Abies cum iulis.* *Clus. pann.* 22, *repr. in hist.* i. 34,

*Abietis ramus cum iulis.* *Ger. by Johns.* 1364.  
Leaves represented as acute.

*Picea.* *Dod.* 851, *descr.* (The fig. is a different species.)

*Abies altera.* *Dod.* 854, *repr. in*

*Abies mas.* *Ger. by Johns.* 1363.

*Abies foemina.* *Magn. hort.* 1.

*Abies candida.* *Trag.* 1118. No fig.

*Abies foemina, sive ΕΛΑΤΗ ΘΗΛΕΙΑ.* *Bauh. J.* i. *pars* ii. 231. In the Valais Savoy Switzerland Alsace Franche comte Burgundy and the Hartz forest.

**ABIES.** *Park. theatr.* 1539. (The fig. has pendant strobili.) *Raii hist.* ii. 1394, in woods in Suabia and Bavaria, and on the alps of Switzerland and the Grisons; *eur.* 45; *syn.* 441. Found by Harrison in the county of Kerry in Ireland.—*Cod. med. p. 1.*—*Dale* 277. *Lew.* i. 1. *Mill.* *Jos.* 1. *Monro* iii. 2. *Ploucq. bibl.* i. 128.

*Abies conis-sursum spectantibus, sive mas.* *Chom.* i. 256. *Rutty* 1. *Vog.* 91.

*Abies alba.* *Schrod.* 520.

*TEREBINTHINA* abiegna. *Carth.* iii. 401.  
*Geoffr.* ii. 505. *Lew.* ii. 417.

*Terebinthina argentoratensis.* *Alst.* ii. 398. *Berg.*  
 ii. 752. *Monro* ii. 350. *Neum.* ii. 9. *Rutty* 510.  
 514. *Spielm.* 329.

*Terebinthina communis.* *Murr.* i. 26. *Vog.* 306.

*Terebinthina vulgaris.* *Boecl.* ap. *Herm.* i. 666.  
*Herm.* i. 664.

Strasburgh Turpentine. *Lew.* *disp. by Dunc.* 277.

La Terebenthine de Strasbourg. *Chom.* i. 257.  
*Tourn.* i. 256.

*MANNE* de la haute Provence. *Chom. suppl.* 19.

2. *PINUS balsamifera.* Leaves flat, emarginate and acute. Bracteae acuminate, reflex. Crest of the anthera with a short mucro. *Obs.* 2895. In a garden.—*Michaux* ii. 207.

*P.* *Balsamea.* *Hort. kew.* iii. 370, where the bracteae are called squamae.—*L.* sp. 1421. *Durci* obs. 40, where the squamae are justly described as roundish acuminate at the base.

*P.* *Abies Balsamea.* *Marsh.* 102.

*Squamae* of the female spikes very obtuse, adpressed. *Obs.* 2895.

*TEREBINTHINA canadensis.* *Pharm. lond.*  
*noviss.*

*Balsamum canadense.* Canada Balsam. *Pharm. lond.*—*Berg.* ii. 750. *Carth.* ii. 405. *Cull.* ii. 186. *Fordyce, G. pract.* 208. *Lew.* i. 4. *Monro* ii. 340; *sold.* ii. 227. *Woodv.* iv. 163.

*Balsamum de Canada.* *Spielm.* 330.

*P.* *Balsamea.* Resin. *Pharm. edin.*—*Lew.* *disp. by Dunc.* 276. *Murr. J.* i. 306. *Pears. R.* ii. 194. *Schoepf* 143.

*Abies canadensis.* *Cod. med. p. i.—Dale* 277.

3. *PINUS canadensis.* Leaves flat, somewhat membranaceous, rather acute, pectinate. Strobili ovate, scarcely shorter than the leaves. *Hort. kew. iii.* 370. *L. sp.* 1421.—*Schoepf* 143.

Balsam of Canada. *Lew. disp. by Dunc.* 277.

Canada Balsam. *Graing.* 58.

4. *PINUS alba.* Leaves tetragonous, Scales of the strobili obovate, very entire. *Obs.* 2888. In a garden.—*Hort. kew. iii.* 371.

*Pinus Abies canadensis.* *Marsh.* 103.

Pine tree. *Rush* i. 31.

*ESSENCE OF SPRUCE.* *Jacks.* *Rob.* fev. 296.

*SPRUCE BEER.* *Blane* 320. *Jacks.* *Rob.* fev. 290. 331. *Lempr.* ii. 175. 178. *Maclean* 291. *Monro, Don. sold.* ii. 186. *Trotter, account from in chir. rev.* ii. 51.

5. *PINUS Abies.* Leaves tetragonous. Scales of the strobili ovate, truncate at the end. *Obs.* 2887. In a garden.—*L. suec. n.* 875; *sp.* 1421. *Hort. kew. iii.* 371. *Scop. carn. ii. n.* 1194. *Host austr.* 524. *Roth germ.* i. 411. In moist woods throughout Germany.—*Woodv.* iii. 573. *t.* 208. Male and female spikes.—*Thornt.* *t.* 778.

P. *Picea.* *Duroi obs.* 37.

The Spruce Fir tree. *Evel. by Hunt.* i. 278. *t.*

*Abies tenuiori folio, fructu deorsum, inflexo.* *Vaill. paris.* 1. *Boerh.* ii. 179.

*Abies mas Theophrasti.* *Magn. hort.* 1. *Raii hist.* ii. 1396, in woods in Suabia Bavaria the alps of

Switzerland and the country of the Grisons; *eur.* 46; *syn.* 441. Found by Harrison in the county of Kerry in Ireland.

*Abies rubra*. *Trag.* 1117. No fig.

*Picea latinorum*, sive *Ελατη αρπεν*, *Abies mas Theophrasti*. *Bauh. J. i. pars ii.* 238, *cop. from*

*Picea*. *Stap.* 168. *Dalech.* i. 50. *Lob. obs.* 633, *repr. in ic. ii.* 231, *cop. in Park. theatr.* 1538, & *repr. in*

*Picea major*. *Ger. by Johns.* 1354, &

*ABIES*. *Dod.* 854. *Trag.* 1118. *L. lapp. n.* 347.

*Park. par. t. 601. f. 2.—Berg.* ii. 758. *Lew. disp. by Rother.* 81. *Linn.* 245. *Monro iii. 2. Murr. i. 27.*

*Abies Picea*. *Cod. med. p. 1.*

*Abies mas Theophrasti*. *Mill. Jos. 2.*

*Abies tenuiore folio, fructu deorsum inflexo*. *Chom. i. 256.*

*Abies rubra*. *Schrod.* 520.

*Picea*. *Dale 277. Lew. i. 1.*

*Picea major prima*, sive *Abies rubra*. *Rutty 1. Vog. 91.*

Pine buds. *Darw. ii. 274.*

*TEREBINTHINA communis*. *Vog. 306.*

*THUS*. Frankincense. *Pharm. lond.—Fordyce, G. pract. 210. Home. F. clin.* 118. *Lew. ii. 430. Mead mon. i. 60. 148. Monro ii. 357. Ploucq. bibl. i. 596.*

*Thus vulgare*. *Alst. ii. 400.*

*Thus foeminiuum*. *Schrod. 750.*

*Resina abietis*. *Pharm. lond. noviss.*

P. *Abies*. *Resin.* *Pharm. edin.—Lew. disp. by Dunc. 276. Murr. J. i. 350. Pears. R. ii. 193.*

Frankincense. *Und.* ii. 144.

*PIX burgundica.* Burgundy Pitch. *Pharm. lond.*

—*Alst.* ii. 399. *Dunc. cases* 164. *Lew.* ii. 418.

*Mead mon.* ii. 98. *Monro* ii. 357. *Murr.* i. 24.

*Rutty* 398. *Quar. anim.* 295.

*Pix arida.* *Pharm. lond.* noviss.

Burgundy Pitch. *Darw.* ii. 100. 132. 137. 208. 209.

*Und.* i. 124. 184.

Poix de Bourgogne. *Chom.* ii. 694.

*RESINA.* *Alst.* ii. 399.

*Resina alba.* *Rutty* 427.

*Resina flava.* *Monro* ii. 356.

*Resina abietis.* *Vog.* 317.

*RESINA nigra.* *Alst.* ii. 400. *Monro* ii. 356.

*PIX sicca.* *Carth.* iii. 381. *Monro* ii. 357.

*Pix.* *Herm.* i. 660.

Pitch. *Neum.* ii. 11. 12.

*MANNE* de la haute Provence. *Chom. suppl.* 19.

## 2. Leaves in pairs. L.

6. *PINUS sylvestris.* Margin of the leaves microscopically serrate. Strobili as long as the leaves, mostly 2 together; disc of the scales obsoletely mucronate, dull. *Obs.* 2787. In a garden.—*Hort. kew.* iii. 366  $\alpha$ . *L. lapp. n.* 346; *suec. n.* 874; *sp.* 1418  $\alpha$ . *Host austr.* 523. *Boerh.* ii. 179. *Lightf.* ii. 587. In the Highlands, in many places forming large forests.—*Bot. arr.* ii. 1092. *Smith brit.* 1031. *Duroi obs.* 41  $\beta$ . *Poll.* ii. *n.* 913. *Woodv.* iii. 570. *t.* 207. *Thornt.* *t.* 783. *Mill. J. ill.* *t.* *Blackw.* *t.* 190. *Pall. ress.* i. 5. *t.* 2. *f.* I. i. *Willd. ber.* *n.* 699. Extensive forests of it round

- Berlin.—*Rudb. rel. t. 35. f. 3. Roth germ. i. 411,*  
throughout Germany, in woods, on gravel; *ii. pars*  
*ii. 498. Ger. by Johns. 1356, repr. from*  
*P. sylvestris altera. Dod. 848, which repr. in*  
*P. sylvestris Mugo. Lob. obs. 631, & ic. ii. 227.*  
*P. rubra. Mill. Ph. dict. n. 3.*  
The Scotch Firtree. *Evel. by Hunt. i. 274. t.*  
*P. sylvestris vulgaris genevensis. Vaill. paris.*  
*160.*  
*P. montana. Matth. i. 98.*  
*Pinus. Trag. 1116.*  
*P. silvestris vulgaris genevensis et Taeda. Magn.*  
*hort. 160. Bauh. J. i. pars ii. 253. In Burgundy*  
*and Alsace.*  
*P. sylvestris, foliis brevibus [glaucis, conis parvis al-*  
*bentibus. Raii hist. ii. 1401; eur. 205. On the*  
*alps of Stiria; syn. 442. Found by Harrison in*  
*Ireland.*  
Pine bearing small sharp cones. *Evel. by Hunt. i.*  
302, who received seeds of it gathered near Loch  
Broom in Scotland.  
*Pinaster alter hispanicus, vel minor hispanicus. Raii*  
*ext. 85.*  
*Pinaster vulgaris alter. Clus. pann. 16. No fig.*  
*Male flowers spicate, terminal, with the terminal*  
*bud of the new shoot of the branch at the end of the*  
*spike, ovoid-ovate. Calyx tetraphyllous, membran-*  
*aceous, tawny; outer phyllum ovato-triangular, as long*  
*as the stamens, the rest much shorter than the stamens.*  
*Antherae nearly sessile, bilocular, turbinate, depressed,*  
*inflex, with a membranaceous border at the end. Obs.*  
*2769.—Branches rugose, rather brittle; those of this*  
*year green, glabrous. Leaves  $2\frac{1}{4}$  inches long;  $\frac{1}{2}$  the*  
*tenth of an inch broad. Female spikes terminating the*

young branches, nearly opposite, the bud of next year's shoot being interposed, roundish, purplish brown. *Peduncles* decurvate. *Strobili* of last year green, terminating the branches of last year, an inch long; those of former years 2 inches long, ovate, whitish brown; *scales* oblong, the scuta on the outer side rhombic, whitish brown, dull, the rest of the outer side blackish rufous. *Obs.* 8355. July.

*PINUS sylvestris.* Resin. *Pharm. edin.*—*Dale* 277. *Lew. disp. by Dunc.* 277. *L. am.* v. 67. *Mill. Jos.* 347. *Pears. R.* ii. 194. *Westring,* account from *in chir. rev.* xi. part ii. 80.

*P. sylvestris montana.* *Schrod.* 648.

*Pinus.* *Berg.* ii. 753. *Murr.* i. 1. *Spielm.* 321. *Vog.* 74.

*Abies.* *Lew. disp. by Rother.* 81.

*Pinaster.* *Rutty* 390.

*Fir.* *Monro, Don. sold.* ii. 186.

*TEREBINTHINA pinea.* *Carth.* iii. 406.

*Terebinthina vulgaris.* Common Turpentine. *Pharm. lond.* & *noviss.*—*Boecl. ap. Herm.* i. 666. *Herm.* i. 664. *Lew.* ii. 417; *disp. by Dunc.* 276.

*Terebinthina communis.* *Alst.* ii. 398. *Linn.* 245. *Monro* ii. 348. *Murr.* i. 26. *Rutty* 511. 514. *Spielm.* 329. *Vog.* 306. *Wintr. in Mead mon.* i. 267.

*Terebinthina.* *Fordyce, G. pract.* 209. 210. *Mead. mon.* ii. 57. *Quar. anim.* 233. 248. 282. 302. *Stoll med.* ii. 13.

*Turpentine.* *Cull. clin.* 309; *pract. n.* 994. 1447. *Darw.* ii. 44. 208. 209. 749. *Graing.* 60. 75. *Hunt. J. ven.* 164. *Reid, T. phth.* 157. *Und. ii.* 144.

*OLEUM Terebinthinae. Pharm. lond. & noviss.—*  
*Bell, J. in phys. journ. iii. 207. Fowler, T. rheum.*  
*210. 212. 249. 287. Harrold in phys. journ. xv.*  
*146. Harrup ib. xvii. 22. Heb. 239. 315. Home,*  
*F. clin. 246. 262. Hornbrook in phys. journ. xiv.*  
*35. Hynam in med. soc. v. 325. Kentish, E. ac-*  
*count from in phys. journ. iv. 456; xiv. 397. xvi.*  
*8, & chir. rev. vii. 419. Lew. ii. 418; disp. by*  
*Dunc. 511. Marson in phys. journ. xvii. 131.*  
*Perciv. T. i. 427. Scott in phys. journ. vi. 527.*  
*Sims, James, account from in Und. i. 153. Tho-*  
*mas, S. in phys. journ. ix. 445.*

*Oil of Turpentine. Adair, W. in med. facts iv. 25.*  
*Blizard, account from in med. rev. i. 328. Brera,*  
*account from in chir. rev. xi. 324. Campet, account*  
*from in ann. med. lustr. II. ii. 131. Cull. clin.*  
*237; pract. n. 475. 1161. Denm. ii. 333. Hunt.*  
*J. ten. 233. Kentish, E, account from in med.*  
*rev. v. 231. Maclean 171. Monro ii. 323. Prin-*  
*gle 161\*. Rush i. 185. Und. ii. 120.*

*Spiritus Terebinthinae. Crowfoot in phys. journ.*  
*xiii. 15. Davies ib. xvi. 496. Goodall ib. 313.*  
*Stoll med. iii. 418. Wawn in phys. journ. v. 55.*

*Spirit of Turpentine. Darw. ii. 705. Durande, ac-*  
*count from in med. journ. iv. 381; v. 126; phys.*  
*journ. i. 394, & chir. rev. vi. 396. Guthrie in ann.*  
*med. iv. 473. Hammick in phys. journ. iii. 263.*  
*Holst, account from ib. xv. 16. Kentish, E. ac-*  
*count from in chir. rev. iv. 440. Kirkl. apopl. 180.*  
*Lempr. ii. 183. 263. Lind, hot clim. 313. Rush*  
*i. 197. 200; v. 187. Soemmering, account from in*  
*chir. rev. ix. 515. Willich, A. in phys. journ. i.*  
*507.*

Spirits of Turpentine. *Dancer, account from in med.*  
*rev. vii. 504. Graing. 45.*

THUS. *Murr. i. 29.*

Thus vulgare. *Rutty 516.*

RESINA. *Murr. i. 30. Rutty 427.*

Resina pini. *Spielm. 325. Vog. 317.*

Resina flava. *Pharm. lond. & noviss.—Monro ii.*  
*556.*

Yellow Resin. *Morison in ann. med. ii. 247, & ac-*  
*count from in Und. ii. 18.*

White Resin. *Und. i. 305.*

Common Resin. *Neum. ii. 10. Sims, James epid.*  
*54.*

Resin. *Darw. ii. 162. 722. 749.*

Resine. *Chom. ii. 694.*

COLOPHONIA. *Schrod. 719.*

Colophone. *Chom. ii. 694.*

PIX liquida. Tar. *Pharm. lond. & noviss. edin.*  
*—Alst. ii. 399. Carth. iii. 382. Cull. ii. 184.*  
*Lew. ii. 229. Monro ii. 352. Murr. i. 6. Rutty*  
*395. Pears. R. i. 229.*

Pix. *Heb. 106. 114. Herm. 660. Schrod. 735.*  
*Und. ii. 17.*

Pix navalis liquida. *Boecl. ap. Herm. i. 661.*  
 Tar. *Berkeley siris 4. Darw. ii. 274. 280. Falconer,*  
*W. in med. soc. iii. 377. Kirkl. apopl. 96. Neum.*  
*ii. 11. Rosenst. 196. Saunders, Edm. in med. com-*  
*ment. dec. II. vii. 543. Smyth jail dist. 176.*  
*Whately ulcers 83. 88.*

Aqua picea. *Heb. 338.*

Tar water. *Acharius, account from in phys. journ.*  
*ix. 582, & chir. rev. xii. part ii. 67. Cull. ii. 333;*  
*pract. n. 1212.*

- PIX* arida. *Lew.* ii. 231.  
*Pix* sicca. *Pharm. suec.*—*Rutty* 395.  
*Pix* solida. *Carth.* iii. 382. *Murr.* i. 10.  
*Pix communis nigra.* *Boecl. ap. Herm.* i. 661.  
*Pix.* *Spielm.* 322.  
*Pitch.* *Kirk. apopl.* 180.

7. *PINUS maritima.* Leaves very slender. Strobili ovato-conic, glabrous, solitary, pedunculate. *L. a Willd.* iv. 497, from Lamb.—*Link trav.* 67. On the sea coast near Bayonne and in Portugal.—*Matth.* i. 99, cop. in *Dalech.* i. 44, *Matth. a C. B.* 100, which repr. in  
*P. maritima* I. *Tab. ic.* 936, cop. in  
*Pini maritimae* primum genus. *Cam. epit.* 43, & imit. in  
*P. silvestris maritima*, conis firmiter ramis adherentibus. *Bauh. J.* i. pars ii. 257. (mispr. 245.) The descr. from strobili from Dourez.—*Ger. L.* 546.  
*P. sylvestris.* *Gou. monsp.* 418; *hort.* 494. Near the sea.—*Asso n.* 941. *Dalech.* i. 45, cop. from *Pinaster* II. *Clus. hisp.* 40, repr. in  
*Pinaster* II *hispanicus.* *Clus. hist.* i. 32,  
*P. sylvestris altera.* *Lob. obs.* 631; *ic.* ii. 227,  
*Pini maritimae majoris* ramulus. *Dod.* 849, &  
*P. maritima major.* *Ger. by Johns.* 1358, & cop. in  
*P. maritima major fructifera altera* *Clusii.* *Park. theatr.* 1536.  
*P. sylvestris altera maritima.* *Magn. monsp.* 205; *hort.* 160.  
*PINUS maritima.* *Dale* 278.  
*P. sylvestris maritima.* *Schrod.* 648.

*Terebinthina communis.* *Geoffr.* ii. 508.

*La Terebenthine commune.* *Chom.* i. 259. *Tourn.* i. 257.

8. **PINUS Pumilio.** Leaves adpressed to each other. Strobili subrotundo-ovate, obtuse, when young erect; scales unarmed. Stems ascending. *From Lamb.* & *L. a Willd.* iv. 495. *Waldst.* & *Kitaib.*

*P. Muglus.* *Scop. carn.* ii. n. 1195.

*Pinaster Pumilio.* *Clus. pann.* 15, repr. in

*Pinaster IIII austriacus.* *Clus. hist.* i. 32, &

*Pinaster austriacus.* *Ger. by Johns.* 1358.

*P. tabulus.* *Dalech.* i. 47.

(*P. silvestris* *Mugho*, sive *Crein.* *Bauh. J.* i. pars ii. 256, (mispr. 246,) is *P. Muglus* *Jacq.*)

*BALSAMUS hungaricus.* *Murr.* i. 11.

9. **PINUS massoniana.** Leaves very slender, very long. Sheath of the leaves short. Crest of the antherae dentato-lacerate. *L. a Willd.* iv. 497?

*PINUS sylvestris.* *Lour.* ii. 709.

10. **PINUS Pinea.** Leaves which appear first ciliate. Strobili ovate, obtuse, mostly not echinate, longer than the leaves. Seeds hard. *H. K.* iii. 368. *L.* sp. 1419. *Link trav.* 153. In the south of Europe. — *Duroi obs.* 44. *Mill. Ph. dict.* n. 2. *Gou. hort.* 494; *monsp.* 418. *Asso n.* 942.

*P. ossiculis duris, foliis longis.* *Bauh. J.* i. pars ii. 248, cop. in

*P. urbana*, sive *domestica.* *Park. theatr.* 1534, &

- Pinus.* *Stap.* 164. *Park. par.* t. 601. f. 1. *Dod.* 847, *repr. in*
- P. vulgatissima.* *Lob. obs.* 631; *ic. ii.* 226, &
- P. sativa, sive domestica.* *Ger. by Johns.* 1355.
- P. domestica.* *Malth.* i. 96, *cop. in*
- Pinus.* *Cam. epit.* 391, with seeds added.
- PINUS** *sativa.* *Ger. L.* 547. *Dalech.* i. 44. *Magn. monsp.* 205. *Raii hist.* ii. 1398; *eur.* 205. In Italy and the south of France.—*Pharm. austriaco-prov.* 56.—*Lew. disp. by Dunc.* 345. *Chom.* ii. 821. *Carth.* i. 326.
- Pinus.* *Alst.* ii. 367. *Dale* 277. *Herm.* 375. *Linn.* 245. *Mill. Jos.* 346. *Ploucq. bibl.* i. 485. *Rutty* 390. *Schrod.* 649. *Vog.* 259.
- Pinea.* *Murr.* i. 13. *Spielm.* 121.
- P.* *Pinea.* *Bry.* 362.
- Pinei.* *Geoffr.* ii. 418.
- Pin.* *Chom.* ii. 821. *Tourn.* i. 206.

### 3. Leaves in threes. L.

11. **PINUS Taeda.** Strobili oblongo-conical, shorter than the leaves, aggregate; scales echinate. *Hort. kew.* iii. 368. *L. sp.* 1419; *mant.* 496. *Duroi obs.* 46. *Mill. Ph. dict. n.* 11.—*Schoepf* 142.  
*Terebinthina.* *Rush.* ii. 128.  
*Tar.* *Rush* ii. 128.

### 4. Leaves in fives. L.

12. **PINUS Cembra.** Leaves glabrous. Strobili ovate, obtuse; scales adpressed. Nuts hard. *Obs.* 8357. Specimen without fructifications gathered in Fothergill's garden.—*Hort. kew.* iii. 369. *L. sp.* 1419.

*BALSAMUS* carpathicus e libano. Murr. i. 14.

13. PINUS *Strobos*. Strobili cylindric, longer than the leaves, limber. Hort. kew. iii. 369. L. sp. 1419.

P. foliis quinis, cortice glabro. Gron. virg. 152.

The Weymouth Pinetree. Evel. by Hunt. i. 274. t. at p. 275.

Leaves triquetrous, the inner angle entire, the lateral angles microscopically serrate, each of the inner sides with 2 and 3 white lines the under side with 2 whitish lines. Obs. 2861. In a garden.

PINUS *Strobos*. Schoepf 142.

5. *Leaves fasciculate*. L.

14. PINUS *microcarpa*. Leaves deciduous. Scales of the strobili incurvate at the margin. Bracteae oval.

From L. a Willd. iv. 502, &

Larix *tenuifolia*. Sal. R. in lin. tr. viii. 314.

Larix *americana*. Michaux ii. 203.

Abies foliis fasciculatis acuminatis setaceis cinereis.

Gron. virg. 153.

PINUS *laricina*. Duroi obs. 49.—Schoepf 142.

15. PINUS *Larix*. Leaves deciduous. Scales of the strobili patulous. Obs. 2697. In a plantation.—

Hort. kew. iii. 369. L. a Willd. iv. 503; sp.

1420. Woodv. iii. 576. t. 210. Thornt. t. 772.

Pall. ross. i. 1. t. 1. Host. austr. 524. Scop. carn. ii. 1198

Larix *pyramidalis*. Sal. R. in lin. tr. viii. 314.

The Larchtree. Evel. by Hunt. i. 279. t.

Larix cum agarico suo. Ger. by Johns. 1865, repr.

from, &

- Larix folio deciduo conifera. *Bauh. J.* i. pars ii. 265, with 2 separate strobili, *abr. from Larix.* *Lob. adv.* 449; which repr. in *ic. ii.* 230. *f. 2,* & *Dod.* 856. *Rui hist.* ii. 1405; *eur.* 160. On the alps of Stiria and Carinthia.—*Boerh.* ii. 180. *Dalech.* i. 55. *Fuchs.* 481. c. 190, cop. in *Trag.* 1119. *Lob. obs.* 633, repr. in *ic. ii.* 230. *f. 1,* cop. in *Park. theatr.* 1533, & repr. in *Laricis ramulus.* *Dod.* 857, *Ger. by Johns.* 1365, and *Cedrus libani.* *Lob. ic. ii.* 225. (the name belonging to P. *Cedrus.*)
- Male flowers* solitary, lateral. *Calyx* polyphyllous. *Stamina* twice as long as the calyx. *Antherae* nearly sessile, bilocular; appendage at the end triangular, shorter than the cells. *Obs.* 2697.
- LARIX.** *Dale* 278. *Schrod.* 612.
- P. *Larix.* Resin and volatile oil. *Pharm. edin.*—*Lew. disp. by Dunc.* 276. *Murr. J. i.* 307. *Pears. R. i.* 203. 228; *ii.* 194; *ed. II.* 333.
- TEREBINTHINA laricea.** *Carth.* iii. 398.
- Terebinthina veneta.* *Berg.* ii. 752. *Cull.* ii. 179. 561. *Geoffr.* ii. 499. *Herm.* i. 664. *Hill* 707. *Lew.* ii. 416. *Linn.* 245. *Mead mon.* ii. 98. *Mill. Jos.* 433. *Monro* ii. 350. *Murr.* i. 17; *J. i.* 283. *Pop.*, account from in *chir. rev.* x. 393. *River. obs. l.* i. c. 25. *Rutty* 511. 513. *Spielm.* 329. *Vog.* 306. *Wintr.* in *Mead mon.* ii. 243.
- T. *vulgaris.* *Boecl. ap. Herm.* i. 666. *Schrod.* 736.
- Terebinthina.* *Alst.* ii. 397. *Ploucq. bibl.* i. 66.
- Venice Turpentine. *Neum.* ii. 9. *Und.* ii. 25.
- La Terebenthine de Venise. *Chom.* i. 258. *Tourn.* i. 256.

- RESINA* alba. *Rutty* 427.  
*Terebinthina cocta.* *Murr.* i. 22.  
*Resine commune.* *Chom.* i. 257.  
*COLOPHONIUM.* *Herm.* i. 717. *Murr.* i. 23.  
*Ploucq. bibl.* i. 347. 559. 327.  
*Colophonia.* *Rutty* 427.  
*Colophone.* *Chom.* ii. 694.  
*OLEUM Terebinthinae.* *Home, F. clin.* 246.  
*Murr.* i. 20. *Pears. R.* i. 229. *Ploucq. bibl.* i.  
  580. *Pop, account from in chir. rev.* x. 392.  
*Spiritus Terebinthinae.* *Geoffr.* ii. 504. *Ploucq.*  
*bibl.* i. 532.  
Oil of Turpentine. *Cull.* ii. 561. *Neum.* ii. 10.  
*Stedman in med. ess.* ii. 42.  
Spirit of Turpentine. *Vog. account from in phys.*  
*journ.* i. 385.  
*MANNA laricea.* *Spielm.* 623.  
Manna brigantina. *Schreb. ap. Linn.* 268.  
Manne de Bryancon. *Chom.* i. 45; *suppl.* 19.

## 874. THUIA.

Male flowers bracteate; female flowers incomplete.  
*Calyx* of the male flowers none, of the female  
  flowers urceolate. *Stamina* 4. *Nut* with a  
  membranaceous wing. *Obs.* 2676. 2935. *L.*

Ought to have been placed in the order Tetran-  
  dria.

1. *THUIA occidentalis.* Strobili smooth; scales ob-  
    tuse. *L. sp.* 1421. *Hort. kew.* iii. 371.  
*Thuya Theophrasti.* *Boerh.* ii. 180.

*Arbor vitae.* *Blackw.* t. 210. *Raii hist.* ii. 1408.

*Clus. hisp.* 95, *repr. in hist.* i. 36, *Dod.* 846, & *Ger. by Johns.* 1369, *cop. in Park. theatr.* 1478, & *repr. in*

*Cedrus lycia.* *Lob. obs.* 630, & *ic.* ii. 224.

Branches compressed; the smaller falling off at the season when other evergreen trees shed their leaves. Leaves triangular, acute. Strobili oblong. *Obs.* 2676.

*THUIA occidentalis.* *Schoepf* 143.

*Arbor vitae.* *Dale* 279. *Mill. Jos.* 46. *Murr.* i. 31.

## 875. CUPRESSUS.

Flowers bracteate. Antherae 4, 3, & 2, sessile.

Pistils 4 to 8. Stigma sessile. Nuts angular. *Obs.* 8877. The account of the female flowers from *L. a Schreb.* 652. 838. *L.*

Ought to have been placed in the order Tetrandra.

1. *CUPRESSUS disticha.* Leaves distichous, patent. *L. sp.* 1422. *Hort. kew.* iii. 372.
- C. foliis distiche patentibus. *L. ups.* 289. *Gron. virg.* 153.
- C. americana. *Cat. i. t.* 11. In fruit.
- C. virginiana, foliis acaciae deciduis. *Comm. J.* i. 113. *t.* 59, with separate fruit.
- C. virginiana, foliis acaciae cornigerae paribus et deciduis. *Pluk. alm.* 125. *t.* 85. *f.* 6, with separate fruit.

*CUPRESSUS* disticha. Schoepf 143.

2. *CUPRESSUS thyoides*. Leaves imbricate. Frondes two-edged. L. sp. 1422. Hort. kew. iii. 372.

C. nana marina, fructu caeruleo parvo. Pluk. mant. 61; phyt. t. 345. fol. 61. pl. 1. In fruit.

*CUPRESSUS thyoides*. Schoepf 144.

3. *CUPRESSUS sempervirens*. Leaves imbricate. smaller branches quadrangular. L. sp. 1422. Hort. kew. iii. 372. Gou. hort. 495; monsp. 418.

C. mas. Blackw. t. 126.

*Cupressus*. Dalib. 295. Magn. monsp. 81. Naturalised.—Raii hist. ii. 1406. Cam. epit. 52. Bauh. J. i. pars ii. 280. Dalech. i. 58. Park. par. t. 601. f. 4. Dod. 844, repr. in Ger. by Johns. 1367, outer fig. Inner fig. repr. from

*Cupressi ramus cum fructu*. Dod. 844.

C. fusa, sive mas. Vaill. paris. 43.

C. fastigiata foemina. Vaill. paris. 43.

*CUPRESSUS*. Alst. ii. 302. Berg. ii. 760. Dale 279. Geoffr. iii. 384. Herm. 443. Linn. 246. Mill. Jos. 165. Murr. i. 32. Rutty 153. Spielm. 417. Vog. 271.

C. arbor. Schrod. 577.

*Cypress*. Renaeume in ac. sc. abr. by Southw. iii. 268.

*Cypres*. Chom. 611; suppl. 176.

## 876. PLUKENETIA.

*Calyx* none. *Petals* 4. *Stamina* 8. *Nectaria* in  
E e 4

the male flowers 4, bearded. Style very long. Stigma peltate, quadrilobate. Capsule tetracocous. *L.*

1. PLUKENETIA *corniculata*. Angles of the capsules subulate, compressed, acuminate. *L. a Willd.* iv. 515. *Smith.*

*Plukenetia. Plum. ap. Burm. ic. 220 β*

*UTTA-PELA. Rumph. i. 194.*

*Sagor Baguala. Rumph. i. t. 79.*

## 877. CROTON.

*Calyx* of the male flowers quinquedentate quinquepartite pentaphyllous and decaphyllous; of the of the female flowers decaphyllous pentaphyllous and quinquepartite. *Corolla* pentapetalous and none. *Nectaria* 5 in the male flowers. *Stamina* 10 to 15, coherent at the base. *Styles* 3, bifid trifid and quadrifid. *Capsule* trilocular; cells monospermous. *Obs.* 4492. 5722. 5724, & from *L.*

*Ricinoides. Tourn. t. 423.*

### 1. Leaves entire at the margin.

1. CROTON *Cascarilla*. Leaves lanceolate and linear, petiolate, glabrous above, tomentose underneath. Flowers dioecious. From *L. a Willd.* iv. 531, & *Swartz. obs. 363*, who says that on the sea shore the leaves are narrower, and in the interior of the islands broader.

• *lancifolia*. Leaves lanceolate. From

C. Cascarilla. *L.* sp. 1424, & *a Willd.* iv. 531, who says he has seen intermediate specimens between  $\alpha$  and  $\beta$ —*Mill. Ph. dict.* n. 8.

*Ricinoides elaeagni* folio. *Plum. ic. t.* 240. *f.* 1. *Cat. ii. t.* 46, *cop. in*

La Chachrille. *Hoffm. & Boehm. cascar.*

$\beta$  *linearifolia*. Leaves oblongo-linear. *Obs. 4492.* Specimen gathered by Broughton in Jamaica.—*L. a Willd.* iv. 532  $\beta$

C. lineare. *Jacq. amer.* 256. *t.* 162. *f.* 4.; *Svo 329. H. K. iii. 374.*

C. Cascarilla. *Woodv. i. 116. t. 41, cop. in Thornt. t. 805.*

*Clutia Cascarilla.* *L. am. v. 411.*

Leaves tomentose underneath, with glands at the base; margin entire, revolute; hairs stellate. *Male flowers.* Calyx quinquepartite; segments ovate. Petals oblongo-obovate, unguiculate, inserted between the nectaria; unguis with long diverging hairs. Nectaria 5, glandular. Stamina 10. Filaments pilose below. *Obs. 4492.*

*CROTON fruticulosum*, foliis longis angustis subtus incanis margine reflexis. *Browne Patr. 347.*

*Ricino affinis odorifera fruticosa major, rorismarini folio, fructu tricocco albido.* *Sloane cat 44; hist. i. 133. t. 86. f. 1.*

2. *CROTON variegatum.* Leaves lanceolate, glabrous, petiolate. *From L. sp. 1424, & Rumph.*

$\approx$  *pictum.* Leaves variegated with yellow. *From Rumph. &*

*Phyllaurea Codiaeum.* *Lour. ii. 705.*

*Tsjere-Maram.* *Rheede vi. 109. t. 61.* No fructifications.

*CODIAEUM* medium chrysosticon. *Rumph.* iv.

65. t. 25. Petals described as concave.

♂ *nigrum*. Leaves green above, blackish underneath.  
From

*CODIAEUM* nigrum medium. *Rumph.* iv. 67.

γ *linearifolium*. Leaves linear-lanceolate. From  
Rumph. L. β

*CODIAEUM* taeniosum luteum remiforme. *Rumph.*

iv. 68. t. 25. Stamina described as longer than  
those of α. Petals represented as reflex.

δ *tenuifolium*. Leaves lanceolate, thinner than those  
of α. From Rumph. L. γ

*CODIAEUM* silvestre. *Rumph.* iv. 69. t. 27.  
Petals and stamens as those of γ

3. **CROTON** *flavens*. Leaves ovate, acuminate, subcordate at the base, pubescent above, tomentose underneath, with glands at the base underneath. Branches and petioles tomentose with adpressed hairs. *Obs.* 8868. Specimen from Dr. Wright, who probably gathered it in Jamaica.—*L. a Willd.* iv. 553; *sp.* 1426; *am.* v. 410, but the stellate hairs described as pedunculate.

Branches ochrecoloured, covered with a tomentum so short and close as to appear glabrous, as if a tomentose surface had been smeared over with gum. Petioles shorter than the leaves, covered with the same tomentum as the branches. Leaves tawny above, greyish underneath, with an undulated ochrecoloured border, the lower tawny above with distinct stellulae, the upper greyish brown with contiguous stellulae; hairs stellate, sessile; radii numerous. Glands 2 and 3 on each side the costa, nearly sessile, turbinate, convex

and slightly concave. Flowers monoecious. Obs. 8868.

*CROTON* fruticulosum et villosum, foliis cordato-acuminatis, ramulis crassioribus tomentosis. Browne Patr. 347.

## 2. Leaves repandose.

4. *CROTON humile*. Leaves ovato-cordate, acute, pubescent above, tomentose underneath, with filiform glands at the base. Stem fruticose. Branches glabrous; smaller branches tomentose. Obs. 2326. Specimen gathered by Broughton in Jamaica.—*L. a Willd.* iv. 550; sp. 1427.

Smaller branches; hairs stellate, patent. Leaves just sensibly repandose; hairs stellaté. Glands 2, brown, scarcely longer than the tomentum. Petioles tomentose; hairs patent. Racemi from near the end of the branches, at the dichotomy of the branches. Flowers monoecious. Obs. 2326.

*CROTON* fruticulosum minus, foliis villosis cordato acuminatis, ramulis gracilibus glabris. Browne Patr. 347.

5. *CROTON tinctorium*. Leaves rhomboidal. Capsules pendent. Stem herbaceous. *L. sp.* 1425.

*Hort. kew.* iii. 375. *Gou. hort.* 495; *monsp.* 278. 419. *Asso n.* 943.

C. foliis rhombeis repandis, capsulis pendulis, caule herbaceo. *L. ups.* 290.

C. foliis ovatis plicatis scabris, capsulis e pedunculo ramoso pendulis. *Roy.* 532.

*Heliotropium tricoccum*. *Raii hist.* i. 165. In the south of France.—*Bauh. J.* iii. 606. f. 1. f. 2

*cop. from Clus. hisp. 396, which cop. in Dalech.  
ii. 1352, & Park. theatr. 439, repr. in Ger. by  
Johns. 335,*

*Heliotropium minus tricoccum. Clus. hist. ii. 47,*

*Heliotropium minus. Dod. 71,*

*Heliotropium parvum Dioscoridis. Lob. obs. 133,  
& ic. i. 261.*

*Native of Spain and the south of France.*

*LACMUS. Pharm. suec.—Berg. ii. 767. Linn.  
247.*

*Bezetta caerulea. Murr. iv. 139.*

*Heliotropium tricoccum. Dale 70. Plin. l. 22. c.  
21. p. 574. lin. 11.*

6. *CROTON moluccanum.* Leaves subcordate, angular, obtuse, scabrous, tomentose underneath. *From L. a Willd. iv. 551; sp. 1427; mant. 497; a Murr. 864.*

(*Ricinus dulcis arborescens, foliis populi nigrae argenteis. Pluk. alm. 320; phyt. t. 220. f. 5, is C. micans.*)

*CROTON moluccanum. Lour. ii. 716.*

7. *CROTON Eluteria.* Leaves cordato-lanceolate, with orbicular scales. Racemi terminal. *Obs. 5723. Specimen in Clifford's herbarium in the possession of Sir Jos. Banks, compared with others in Sir Joseph's herbarium, from the herbarium of Ph. Miller, and sent to Sir Jos. by Mr. Dean from from Long island one of the Bahamas.—Swartz. prodr. 100; obs. 381; occid. ii. 1183.*

*Clutia Eluteria. L. sp. 1476; am. v. 411. Woods.  
iv. t. 211. f. 2, from the lastmentioned specimen.*

—Thomt. t. 840. (*L. zeyl.* 366 is a different plant.)

Elutheria. *L. cliff.* 486.

Elutheria providentiae, folio cordato subtus argenteo.

*Pet. coll. i. 4. n. 276\** near the end of tom. ii.

(*Ricinus dulcis arborescens americanus, populnea fronde argentea, sive foliis populi nigrae argenteis.*  
*Breyn. prodr. 93, Pluk. alm. 320; phyt. t. 220.*  
*f. 5, & Seb. i. 56. t. 33: f. 3, has cordate acute leaves and axillary spikes.*)

Branches grey, covered with scales as those of *Hippophae rhamnoides*. Leaves ovali-elliptic, slightly repandose, scaly, fusco-rufous and dull above, whitish fuscous and slightly shining underneath; scales peltate, orbicular, flat, membranaceous, whitish, umbo-nate in the middle, radiate, those of the upper surface distinct, those of the under surface contiguous and incumbent; margin obtusely dentate; umbo opaque, tawny. Calyx not yet expanded, of several phylla. Germen roundish, covered with scales. Obs. 8871. Specimen gathered by Broughton in Jamaica.

*CASCARILLA.* Bark. *Pharm. lond.* & *noviss.* —

Bang in *act. haun.* i. 241. Berg. ii. 765. Boulduc in *ac. sc. abr.* by Southw. iii. 280. Brec 363. 365. Callisen in *act. haun.* i. 421. Carth. iii. 215. Clark, J. long voy. 333. Cull. ii. 88. Fagon in *ac. sc. abr.* by Southw. iii. 279. Hill 674. Lew. i. 297. Lind hot clim. 308; seam. 234. Linn. 246. Monro iii. 105; sold. ii. 127. Monti ind. 137. Murr. i. 551. Perciv. T. ii. 195. Ploucq. bibl. i. 328. Quar. anim. 225. Schoeps 144. Spielm. 249. Smyth jail dist. 179. Und. i. 79. Vog. 286. Wright in *ann. med.* ii. 370.

C. Eleutheria. Bark. *Pharm. edin.*—*Lew. disp. by Dunc.* 210. *Murr. J. i.* 185. *Wright in med. journ.* viii. 249.

Clutia Eloteria. *Pears. R.* ii. 175; *ed. ii.* 380.

Cortex Eleutherii. *Roberts. fev.* 375.

Cortex Eleterii. *Rutty* 174.

Cortex thuris. *Alst. ii.* 30. *Dale* 346.

Cortex peruvianus spurius. *Herm.* 201.

Kina Kina aromatica. *Geoffr. ii.* 202.

### 3. *Leaves serrate.*

8. CROTON *Tiglum.* Leaves ovate, acuminate, glabrous. Stem arboreous. *From L. sp.* 1426. *Lour. ii.* 714. *Gaertn. ii. t.* 107.

*Ricinoides indica*, folio lucido, fructu glabro *Grana Tiglia officinis dicto.* *Burm. J. zeyl.* 200. *t.* 90. Leaves ovato-elliptic.

*Granum moluccum.* *Rumph. iv.* 98. *t.* 42.

*Cadel Avanacu.* *Raii hist. ii.* 1855. *Rheede ii.* 61. *t.* 75. In fruit.

*Lignum moluccense.* *Dalech. ii.* 1864. No fig.

*GRANA TIGLIA.* *Dale* 70. *Spielm.* 488.

*Grana Tiglii.* *Linn.* 247. *Vog.* 172.

*Grana Tilli.* *Berg. ii.* 768. *Herm.* 358. *Murr. iv.* 149.

*Tiglum.* *Lew. ii.* 272.

*Nuculae catharticae quartum genus.* *Geoffr. ii.* 428.

*Ricinus indicus arborescens*, *Grana Tiglia dictus.* *Chom. i.* 69.

*OLEUM DE KERVA.* *Neum. ii.* 67.

*LIGNUM PAVANAE.* *Linn.* 247. *Murr. iv.* 149. *Vog.* 281.

*Panava.* *Geoffr. ii.* 429. *Herm. i.* 239.

## 878. TRIDESMIS.

*Calyx* pentaphylloous. *Corolla* of the male flowers pentapetalous, of the female none. *Stamina* 10 & 20. *Styles* in 3 fasciculi. *Capsule* trilocular, monospermous. *Lour.*

1. TRIDESMIS *hispida*. Leaves hispid. *From Lour.*  
ii. 707.

## 879. IATROPHÄ.

*Calyx* of the male flowers pentaphylloous and quinquefid, of the female pentaphylloous and quinquepartite. *Corolla* pentapetalous quinquepartite quinquefid and none. *Stamina* 10, every other shorter. *Styles* 3, bifid. *Capsule* trilocular; cells monospermous. *From Swartz. obs. & L.*

1. IATROPHÄ *Curcas*. Leaves cordate, angular.  
*L. sp.* 1429. *Hort. kew.* iii. 376. *Gaertn.* ii. 121.  
t. 108.

*I. assurgens*, *ficus folio*, *flore herbaceo*. *Browne Patr.* 348.

*Ricinus ficus folio*, *flore pentapetalo viridi*, *fructu laevi pendulo*. *Sloane cat.* 40.

*Ricinus americanus*. *Lob. obs.* 392, *repr. in ic.* i.  
688, *cop. in Dalech.* ii. 1790, *repr. in*

*Ricinus americanus*. *Ger. by Johns.* 496, & *cop. in*

*Fructus Ricini americani*. *Park. theatr.* 183, &

*Ricinus major americanus*, Curcas dictus, & Faba purgatrix indiae occiduae. *Bauh. J.* iii. 643.

Mundubiguacu. *Maregr.* 96.

Leaves glabrous. Flowers terminal. *Obs.* 8351. Specimen gathered by Dr. Wright in Jamaica.

*IATROPHIA Curcas*. *Bry.* 360. *Wright in med. journ.* viii. 263.

*Ricinus major*. *Berg.* i. 774. *Murr.* iv. 164.

*Ricinus americanus*. *Herm.* i. 343.

*Ricinus americanus*. *Schrod.* 774.

*Ricinus americanus major, semine nigro*. *Chom.* i. 69.

*Ricinoides*. *Lew.* ii. 271. *Perciv.* *T.* ii. 227.

*Nucula cathartica altera*. *Geoffr.* ii. 424.

Nuces e Barbadoes. *Dale* 70.

Common Physcienut. *Graing.* 17. 42.

*OLEUM seminum Ricinoidis*. *Monro* ii. 302.

2. *IATROPHIA gossypifolia*. Leaves quinquelobate and trilobate, ciliate with globiferous hairs. Petioles with globiferous hairs. *Obs.* 8866. Specimen gathered by Broughton in Jamaica.—*L. a Willd.* iv. 557; *sp.* 1428, from Roy.—*Jacq. coll.* i. 154; *ic.* iii. *t.* 623. *Swartz. obs.* 366.

*I. foliis quinquepartitis, lobis ovatis integris, setis glanduliferis ramosis*. *Roy.* 202.

*I. humilior, setis ramosis ornata, foliis trilobis vel quinquelobis levissime denticulatis*. *Browne Patr.* 348.

*Ricinoides americana, folio gossypii*. *Boerh.* i. 253.

*Ricinus minor, staphysagriæ folio, flore pentapetalo purpureo*. *Sloane cat.* 41.

*Ricinus pilosus trifidus vel quinquefidus, flosculis atropurpureis in umbella aggregatis.* *Pluk. alm.* 320; *phyt. t. 59. f. 2.*

(*Ricinus maderaspatanus, flore purpureo, trilobato folio mollibus spinulis dentato.* *Pluk. alm.* 320; *phyt. t. 220. f. 4.*, is *I. glauca.*)

*Petioles hispid*; hairs frequently branched. *Leaves* quinquelobate and quadrilobate; segments acuminate; hairs simple. *Obs.* 8352. Specimen gathered by Dr. Wright in Jamaica.

**IATROPHÆ** *gossypifolia.* *Wright in med. journ.* viii. 263.

Bellyach bush. *Wright in Graing.* 42.

3. **IATROPHÆ** *multifida.* Leaves multipartite, glabrous. Stipulae multifid; segments setaceous. *L. sp.* 1429. *Hort. kew.* iii. 376. *Sal. R. par.* ii. t. 91.

*I. assurgens, foliis digitatis, laciniis angustis pinnatifidis.* *Brown.* 348.

*Manihot folio tenuiter diviso.* *Dill. hort.* 217. t. 173. f. 213.

*Ricinoides arbor americana, folio multifido.* *Boerh.* i. 253.

*Ricinoides americanus, tenuiter diviso folio.* *Breyn.* cent. 116. t. 53, with separate fruit, *abr. in*

*Ricino affinis, tenuiter diviso folio.* *Hist. ox.* iii. 348. s. 10. t. 3. row 3. f. 11.

*Ricinus americanus, tenuiter diviso folio.* *Sloane cat.* 40. *Raii hist. i.* 167.

*Nuces purgantes.* *Ger. by Johns.* 1546, the 3 lower nuts *cop. in*

*Avellanae purgatrices.* *Dalech.* ii. 1789.

*Avellana purgatrix novi orbis.* *Bauh. J. i. pars i.*  
324.

*IATROPHÆ* *multifida.* *Bry.* 361. *Wright in  
med. journ.* viii. 263.

*Nucula cathartica tertia.* *Geoffr.* ii. 426.

*Avellana purgatrix.* *Lew.* ii. 272.

*Palma Christi.* *Dale* 70.

*French Physicnut.* *Graing.* 42. 66. 82. 86.

4. *IATROPHÆ Manihot.* Leaves palmate; lobes lanceolate, entire at the margin, smooth. *L. sp.* 1429; *mant.* 497. *Hort. kew.* iii. 376. *Encycl. brit.* ix. 79. *t.* 248.

*I. foliis palmatis pentadactylibus, radice conico-oblonga, carne sublactea.* *Browne Patr.* 349.

*Manihot inodorum*, sive *Yucca* *foliis cannabinis.* *Pluk. alm.* 241; *phyt. t.* 205. *f. 1.* No fructifications.

*Ricinus minor*, *viticis obtuso folio.* *Sloane cat.* 41; *hist. i.* 130. *t.* 85.

*Manihot.* *Yuca.* *Dalech.* ii. 1908, *cop. in*

*Manihot Theveti*, *Jucca et Cassavi.* *Bauh. J. ii.* 794, &c.

*Hiuccae* sive *Mandiocæ genuinae mexicanæ species.* *Park. theatr.* 1625, outer fig.

*IATROPIA* *Manihot.* *Bry.* 9. 125. *Clark,* *James in med. facts.* vii. 289. 303. *L. am.* v. 67. *Pears.* *R. i.* 56; *ed. ii.* 297. *Wright in med. journ.* viii. 262.

*MANIPUERA.* *Sauv. nos.* i. 316.

*CASSADA.* *Graing.* 51. *Home, Everard, in tr.*

*impr.* i. 334; *account from in ann. med.* iii. 60.  
*Hume, J. in lett.* 214.

Cassavi. *Edw. Bry.* i. 199.

*TAPIOCA.* *May 14. Und.* iii. 137.

5. *IATROPHΑ Janipha.* Leaves palmate; lobes entire at the margin, intermediate lobes with a sinus on each side. *L. mant.* 126. *Jacq. amer.* 8vo. 329. *Lour.* ii. 718.

*I. carthaginensis.* *Jacq. amer.* 256. t. 162. f. 1, *cop.*  
*in amer. gew.* iii. t. 282; *hort.* iii. t. 77.

*I. foliis palmatis lobis incertis, radice oblonga funicu-*  
*lo valido per centrum ducto carne nivea.* *Browne*  
*Patr.* 350.

*Iatropa.* *Loefl.* 309.

*Leaf* so similar in habit as to induce me to suspect it to be a variety of *I. Manihot.* *Obs.* 8865. Specimen gathered by Broughton in Jamaica.

*IATROPHΑ Janipha.* *Clark, James in med.*  
*facts vii.* 303. 304. *Pears. R.* i. 56; *ed. II.* 297.  
*Winterb. T. M. in med. facts.* *Wright in med.*  
*journ.* viii. 262.

## 880 RICINUS.

*Calyx* of the male flowers quinquepartite, of the female tripartite. *Corolla* none. *Stamina* numerous. *Styles* 3, bifid. *Capsule* trilocular; cells monospermous. *L.*

1. *RICINUS Tanarīus.* Leaves peltate, ovate, acuminate, repandō-dentate. Capsules echinate. *L. a*  
*Willd.* iv. 566, & sp. 1430, *from*

*TANARIUS* minor. *Rumph.* iii. 190. *t.* 121.

2. *RICINUS communis..* Leaves peltate, palmate.

*Obs.* 8884. Specimen gathered by Mr. Boraston at Gibraltar.—*L. sp.* 1430; *phil.* 256. *Murr. appar.* iv. 195. *Hort. kew.* iii. 377. *Woodw.* i. 171. *t.* 61, *abr.* in *Thornt.* *t.* 802. *Roxb. in lin. tr.* vii. 48. *t.* 3. *Lour.* ii. 717. Stem biennial, 8 feet long.

*RICINUS.* Seeds and oil of the seeds. *Pharm. lond.* & *noviss.* —*Boerh.* i. 335. *Lew.* ii. 271. *Winterb. T. M. account from in chir. rev.* x. 451.

*R. communis.* Seed and its fixed oil. *Pharm. edin.* —*Lew. disp. by Dunc.* 295. *Murr. J.* i. 263. *Pears. R.* i. 207. *Wright in med. journ.* viii. 278. Rising to its full height of 20 feet in one year. Trunk subligneous.

*R. vulgaris.* *Berg.* ii. 771. *Chom.* i. 69. *Linn.* 249. *Murr.* iv. 195. *Schoepf* 144.

*R. americanus.* *Bang in act. haun.* ii. 69. *Ranoe ib.* i. 454.

*R. mediuss.* *Herm.* i. 341.

*Cataputia major.* *Dale* 70. *Mill. Jos.* 123. *Rutty* 107. *Spielm.* 479. *Vog.* 174.

*Nucula cathartica prima.* *Geoff.* ii. 420.

*Palma Christi.* *Canvane, account from in gent. mag.* xxxv. 61. *t.* at p. 64, & *med. mus.* iii. 572. *Stubbs in ph. tr. abr.* by *Lowth.* iii. 555.

*Castorbus.* *Graing* 77. 84.

*Oilnut tree.* *Long* iii. 712.

*Castoroil nut.* *Rush* iv. 146.

*OLEUM Ricini.* *Bree* 289. *Brunyer, account from in med. journ.* iv. 151. *Cull.* ii. 535. *Darw.* ii. 130. *Denm.* i. 261. *Fordyce, G. fev.* iii. 231.

*Fraser in med. obs.* ii. 235. *Heb.* 124. 183. 193. 225. *Hill* 537. *Home, F. clin.* 134. *Hull phlegm.* 294. *Hunt. J. jam.* 235. 253. 256. *Monro* ii. 301. *Mossman in phys. journ.* x. 15. *Murr.* iv. 195. *Ploucq. bibl.* i. 249. *Quar. anim.* 253. *Quier in lett.* 178. *Sims, James epid.* 26. *Stone, account from in chir. rev.* xiii. 181.

**Oleum Palmae Christi.** *Lempr.* ii. 221. 225. *Linn.* 249.

**Oleum Palmae liquidum.** *Berg.* ii. 771.

**Castor oil.** *Blane* 486. *Clark, J. long voy.* 327. 398. *Darw.* ii. 312. *Graing.* 16. *Hammick in contrib.* 380. *Hunt, J. jam.* 254. *Moseley* 16. 542. *Rush* i. 135; iii. 245; iv. 89; v. 171. *Und.* i. 22. 25. 42. 54. 70. 128. 131. 155. 201\*. 205\*; ii. 68. *Wright in ann. med.* ii. 370.

*a roridus.* Lobes of the leaves lanceolate, serrate. Stem herbaceous, rorid. Capsules echinate, unarmed at the end. *Obs.* 8884.

*R. communis.* *L. a Willd.* iv. 564. *Mill. Ph. dict.* n. 1. Stem herbaceous, 10 and 12 feet long. Seeds striped.

*R. major vulgaris.* *Raii eur.* 219. About Messina and Reggio where it grows in the hedges to the size of *Sambucus nigra*, continuing years.

*Cici.* *Gesn. hort. fol.* 253. p. 2. Annual.

*Cataputia major.* *Blackw. t.* 148.

*Avanacoe, seu Citavanacu.* *Rheede* i. 57. t. 32.

*R. sive Cataputia major vulgatior.* *Park. theatr.* 182, cop. from

*Ricinus.* *Dod. purg.* 136, which repr. in *pempt.* 363, *Lob. obs.* 392; *ic. i.* 688, and *Ger. by Johns.* 496. *L. ups.* 289 a *Roy.* 201. *Slap.* 1089. *Dalech.* ii.

1630. *Trag.* 288, repr. in *Cord. fol.* 140. p. 2, & abr. from

*R. sive Palma Christi.* *Fuchs.* 334. c. 129, which cop. in

*R. vulgaris.* *Bauh. J.* iii. pars ii. 642. *Cam. hort.* 141. *Raii hist.* i. 166. Annual in England.—*Magn. hort.* 172. *Boerh.* i. 253. Annual.

*R. americanus.* Lobes of the leaves lanceolate, serrate, glabrous. Stem fruticose. Branches glabrous. Germina covered with crowded aculei. *Obs.* 8882. Specimen gathered by Dr. Wright in Jamaica.

*R. americanus.* *Mill. Ph. dict.* n. 2. Grows in the Westindies where called Oiltree. Leaves deep green on both sides. Seeds brown.—*Wright in Graing.* 97.

*Ricinus.* *Browne Patr.* 350. *Clayt. ap. Gron. virg.* 153.

*R. americanus perennis.* *Boerh.* i. 253.

*R. americanus, fructu racemoso hispido.* *Sloane cat.* 38. In sandy places and on the banks of rivers in Jamaica and in the other islands of the Westindies.

*Namibnguacu.* *Grew. mus.* 217.

Leaves peltate, palmate, not rorid. Peduncle here and there rorid. Pedicles and germina at first rorid, afterwards glabrous. *Obs.* 8883. Specimen gathered by Dr. Wright in Jamaica.—Seeds obovato-oval, from 3 to  $4\frac{1}{2}$  tenths of an inch long, grey with irregular blackish chestnutcoloured stripes mostly longitudinal, some which light brown empty. *Obs.* 8886. Seeds from the shops.

## 881. AGYNEIA.

*Calyx* of the male flowers pentaphyllous, of the female hexaphyllous. *Corolla* none. *Filament* columnar. *Antherae* 3. *Styles* 3, reflex. *Capsule* tricoccous and multilocular; cells dispermous and trispermous. *From L. a Willd. & L.*

1. AGYNEIA coccinea. Capsules multilocular. Leaves nitid. *From Buch. in Symes avia* iii. 317. t. 27.

## 882. OMPHALEA.

*Calyx* of the male flowers tetraphyllous, of the female pentaphyllous. *Corolla* none. *Filament* columnar. *Antherae* 2 and 1. *Stigma* trifid. *Capsule* tricoccous; cells monospermous. *From Swartz. obs. 349.*

1. OMPHALEA triandra. Leaves glabrous, oblong. *From Swartz.—L. sp. 1377.*

Omphalandria foliis obovatis glabris ad basin biglandulis, floribus triandris. Browne 335. (t. 22. f. 4, must be, as Swartz observes, a different plant.)

OMPHALEA nucifera. Swartz. obs. 351. t. 10. f. 6.

## 883. STILLINGIA.

*Corolla* infundibuliform. *Filaments* slightly united

at the base. Style trifid. Germen inferior. Capsule tricoccous. From L.

1. STILLINGIA *sylvatica*. L. mant. 126. Hort. kew. iii. 378.—Bart. 34. Schoepf 145. Schreb. ap. Linn. 230.

### 884. PIPALIA.

*Calyx* of the male flowers none, of the female polyphyllous. *Corolla* none. Style curved at the base. *Stigma* capitate. *Berry* monospermous. From Jones.

1. PIPALIA *solitaria*.

*GAJAPIPPALI*. Jones in as. res. iv. 313.

### 885. CYTINUS.

*Calyx* none. *Corolla* campanulate, quadrifid. Filaments connate. Antherae 8, bilocular. Style 1. *Stigma* capitate, with 8 furrows. *Berry* octolocular; cells polyspermous. L. a Willd. L.

1. CYTINUS *Hypocistis*. L. a Murr. 826. Asso n. 1057.

Asarum Hypocistis. L. sp. 633; mant. 391.

Orobanche, quae Hypocistis dicitur. Raii hist. ii. 1228.

Cistus mas I. Clus. hisp. 135, cop. in Dalech. i. 225, & repr. in

Cistus mas I, cum Hypocistide. Clus. hist. i. 68,

*Cistus mas cum Hypocistide.* *Lob. obs.* 548; *ic.* ii. 111, & *Ger. by Johns.* 1275, the plant growing on the root.

*Ledon narbonense, cum Hypocisto.* *Lob. ic.* ii. 119, *repr. in*

*Cistus Ledon, cum Hypocistide Lobelii.* *Ger. by Johns.* 1287.

*Cistus cum Hypocistide.* *Dalech.* i. 223, the plant growing on the root.

*Ledum.* *Cam. epit.* 97, *cop. in*

*Cistus ladanifera.* *Bauh. J.* ii. 10, the plant growing on the root.

*Cistus mas IV monspeliensis, folio oblongo albido.* *Bauh. J.* ii. 3, lowermost fig.

*HYPOCISTIS.* *Cam. epit.* 96, *cop. in Park. theatr.* 667, the plant growing on the root.—*Bauh. J.* ii. 7. No fig.—*Pharm. austriaco-prov.* 42.—*Alst.* ii. 479. *Berg.* ii. 720. *Dale* 197. *Geoffr.* ii. 720. *Herm.* i. 725. *Lew.* i. 502; *disp. by Dunc.* 341. *Linn.* 236. *Mill. Jos.* 239. *Monro* ii. 439. *Murr.* vi. 22. *Ploucq. bibl.* i. 594. *Rulty* 244. *Schrod.* 722. *Spielm.* 419. *Vog.* 336.

*Hypociste.* *Chom.* 637; *suppl.* 180.

## 886. SAPIUM.

*Calyx* of the male flowers semibifid, of the female seimitrifid. *Corolla* none. *Styles* 3. *Capsule* tricoccous. *Obs.* 8528, & *from Jacq.* *Juss.* 390. *Browne Patr.*

1. *SAPIUM biglandulosum.* Petioles with 2 glands at

the end. *Obs.* 8528. Specimen gathered by Dr. Wright in Jamaica.

• *serrulatum*. Leaves obsoletely serrate at the margin.  
*Obs.* 8528.

*Hippomane biglandulosa*. *L. sp.* 1431. *Swartz. obs.* 370. *Aubl. ii.* 885.

*Sapium*. *Browne Patr.* 338.

*Manganilla lauri* foliis oblongis. *Plum. ic.* 164. *t.* 171. *f.* 2.

*Tithymalus arbor americana*, mali medicae foliis am-  
plioribus tenuissime crenatis, succo maxime vene-  
noso. *Pluk. alm.* 369; *phyt. t.* 229. *f.* 8. With  
separate fruit.

*Branches* glabrous. *Leaves* alternate, elliptico-  
oval, mucronate, glabrous, with parallel veins extend-  
ing to near the margin. *Petioles* about half as long  
as the breadth of the leaves. *Glands* papillary, 1  
on each side of the petiole, projecting, several times  
shorter than the breadth of the petiole. *Spikes* ax-  
illary and terminal, pedunculate, shorter than the  
breadth of the leaves, terete, attenuate at each end.  
*Peduncles* very short. *Flowers* contiguous, sparse,  
excepting the very lowermost with a gland on each  
side at the base, the lower female. *Bracteae* solitary,  
ovate, acute, truncate at the base, slightly erose,  
adpressed. *Glands* oval, peltate, adpressed, ob-  
lique, as short again as the bracteae. *Paleae* be-  
tween the bracteae and the flowers, shorter than  
the bracteae, capillary, flattened. *Female flowers*  
solitary, somewhat longer than the bracteae. *Calyx*  
urceolate, semitrifid, the anterior fissure deeper than  
the other 2, often extended throughout; segments  
triangular, acute, the posterior segment sometimes  
shorter and obtuse, sometimes longer. *Pistil* su-

perior, half as long again as the calyx, cylindric. Styles 3, erect. Male flowers 3 and 4 together, longer than the bracteae. Calyx urceolate, as short again as that of the female flowers, bifid and trifid. Stamina 2. Filaments united at the base. Antherae didymous, similar to those of Hippomane. Obs. 8528.

*S inflexa*. Points of the leaves rostrate, inflex. From *SAPIUM aucuparium*. *Jacq. amer.* 249. t. 158; *8vo* 320.

## 887. HIPPOMANE.

*Calyx* of the male flowers bifid, of the female triphyllous. *Corolla* none. *Stigma* multifid. *Drupe*. *Nut* multilocular. *Obs.* 8529, & from *Jacq. L.*

1. HIPPOMANE *Mancinella*. Leaves ovate, serrate, with 1 gland at the base. *L. nat.* 637, not biglandulosis as in *L. a Murr.* 866, & *Hort. kew.* iii, 378. *L. sp.* 1431; *mant.* 497. *Jacq. amer.* 8vo 321. *Swartz obs.* 369.

*H. arboreum lactescens*, ramulis ternatis, petiolis glandula notatis, floribus spicatis mixtis. *Browne Patr.* 351.

*Manganilla pyri facie.* *Cat. ii. t. 95.*

*Malus americana*, laurocerasi folio, venenata. *Comm. J. hort. i.* 13*i.* *t. 68.*

*Juglandi affinis arbor julifera lactescens venenata pyrifolia*, *Manganillo hispanis dicta*. *Sloane cat.* 129; *hist. ii. 3. t. 159.*

*Arbor venenata*, *Mancinello dicta*. *Raii hist. ii.*

1646. *Pluk. phyt. t.* 142. *f. 4*, with separate fruit.

*Leaves* ovate, acute, sparse, glabrous; margin slightly serrate. *Petioles* half as long as the leaves, with a gland at the end. *Gland* orbicular, as broad as the petiole. *Spike* interrupted, terminal, flexuose, as thick as the branch, as long as the leaves with their petioles, nearly sessile. *Bracteae* ovate, acute, solitary, with a gland on each side at the base. *Glands* oval, peltate, adpressed, oblique, as short again as the bracteae. *Female flower* 1, near the base of the spike, solitary. *Calyx* pentaphyllous; *phylla* roundish. *Pistil* longer than the calyx. *Stigmata* 7, recurvate. *Male flowers* in distinct heads. *Heads* hemispheric, sessile, yellow, shorter than the interstices of the peduncle. *Calyx* bifid, similar to that of *Sapium*. *Corolla* none. *Filament* 1. *Antherae* 2, didymous, similar to those of *Sapium*. *Obs.* 1529. Specimen gathered by Dr. Wright in Jamaica.

**HIPPOMANES** Mancinella. Schoepf 145.

Manchinel apple. *Stubbs in ph. tr. abr. by Lowth.* iii. 560.

Manchenille apple. *Peyssonnel in ph. tr. abr. by Hutt. xi.* 284.

## 888. SECHIUM,

*Calyx* semiquinquefid. *Corolla* quinquefid, growing to the calyx. *Filaments* connate below. *Stigma* capitate. *Berry* monospermous. *From Swartz & Jacq. Browne, Patr.*

1. **SECHIUM edule.** Swartz. *occid.* ii. 1150.

*Sicyos edulis.* *Jacq. amer.* 258. *t.* 163. *Swartz.*  
*prodr.* 116; *obs.* 371.

*SECHIUM.* *Browne, Patr.* 355.

*Chayota edulis.* *Jacq. amer. ed.* 8vo. 331, who  
describes the filaments as connate, and the antherae  
as distinct.

*Chocho.* *Edw. Bry. i.* 199.

### 889. ALEURITES.

*Calyx* trifid. *Petals* 5. *Nectaria* 3. *Filament*  
columnar. *Antherae* numerous. *Style* none. *Stig-*  
*mata* 2. *Berry* dicoccous. *L. a Willd.*

1. *ALEURITES laccifera.* Leaves ovate, serrulate,  
tomentose. Racemus terminal. *L. a Willd.* iv.  
590, from a dried specimen.

*Croton lacciferum.* *L. sp.* 1426; *mant.* 497, *Gaertn.*  
*ii. t.* 107.

*Ricinoides aromatica arbor,* circaeae foliis hirsutis,  
floribus spicatis, major. *Burm. J. zeyl.* 201. *t.*  
91.

*HALECUS terrestris vulgaris.* *Rumph.* iii. 197.  
*t.* 127.

*Kaeppehija.* *Herm. zeyl.* 46.

### 890. TYPHA.

*Calyx* capillary. *Corolla* none. *Filaments* 3 and 4,  
closely adhering to each other below. *Style* 1.

*Stigma capillary.* Seed 1, pedicellate. *Obs.* 2562. *L. Vent. tabl.* ii. 88; iv. 89. *t. 3. f. 1.*

1. **TYPHA latifolia.** Male and female flowers contiguous and approximate. *Obs.* 2562. On the side of a pool.—*L. svec. n.* 830; *sp.* 1377. *Bot. arr.* ii. 1021. *Gou hort.* 480 “In corn fields” seems an error; *monsp.* 410. *Fl. dan.* *t.* 645. *Host austr.* 501. *Scop. carn.* ii. *n.* 1144. *Lour.* ii. 675. *Poll.* ii. *n.* 870. *Smith brit.* 959; *engl.* *t.* 1455.

*T. major.* *Curt. lond* iii. 61. *t.* 171.

*T palustris major.* *Tourn. paris.* 369. *Vaill. paris.* 197. *Boerh.* ii. 167. In Holland — *Magn. monsp.* 272. In marshy places. — *Hist. ex. s.* 8. *t* 13. *row 3. f. 1.* *Bauh J.* ii. 529, (mispr. 527,) *f. 1.* 2, without a stem; *f. 3*, cop. from

*Typha.* *Fuchs.* 731. *c.* 318. *Matth.* 863. *Raii hist.* ii. 1512; *syn* 436. *Lob. obs.* 42, *repr. in ic.* i. 81, *Ger. by Johns.* 46, &

*T. palustris.* *Dod.* 594. *Trag.* 681. *Dalech.* i. 994.

*T. maxima.* *Park. theatr.* 1274.

**TYPIA latifolia.** *Asso n.* 909.

*Typha.* *Dale 259.* *Diosc. l.* 3. *c.* 133.

## 891. GNETUM.

*Flowers bracteate.* *Calyx* and *corolla* none. *Filament* 1, with 2 antherae. *Style* very short. *Stigma trifid* and *quadrisid*. *Drupe* monospermous. *From.* *L. Juss.* 406, & *Smith.*

Thoa. *Aubl. Juss.*, 406, who remarks its affinity to *Gnetum*.

11. GNETUM *Gnemon*. Amenta axillary, on simple peduncles. *From Smith in cycl. xvi. part i. n. 1.*  
*L. mant.* 125.

*GNEMON domestica*. *Rumph.* i. 181. *t. 71.*

*Beretinus fructus*. *Clus. exot.* 55. Drupes.

12. GNETUM *funiculare*. Amenta axillary, on branched peduncles. *From Smith in cycl. xvi. part i. n. 3.*  
*Buch.*

*Thoa edulis*. *L. a Willd.* iv. 477, from

*ULA*. *Rheede.* vii. 41. *t. 22.*

13. GNETUM *urens*. Amenta from the dichotomies.

*From*

G. Thoa. *Smith in cycl. xvi. part i. n. 2.*

*THOA urens*. *Aubl.* ii. 874. *t. 336.*

## 892. HURA.

*Calyx* of the male flowers truncate, of the female cylindric. *Corolla* none. *Filaments* cylindric, with a peltate apex. *Antherae* 2 in each tubercle of the filaments. *Style* infundibuliform. *Stigma* duo-decimfid. *Capsule*, cells 12, monospermous. *L.*

11. HURA *crepitans*. *L. sp.* 1431. *Hort. kew.* iii. 379.

Hura. *L. cliff.* 486. *t. 34.* *Trew sel.* 8. *t. 34.* 35.  
*f. 1.*

- H. americana*, abutili indici folio. *Comm. Casp. hort.* ii. 131. t. 66, with separate fruit.
- Hippomane arboreum*, ramlis irregulater ternatis, foliis cordato-crenatis reflexis, petiolis biglandulis. *Browne Patr.* 351.
- Baruce. *Raii hist.* ii. 1826. *Ger. by Johns.* 1550, two upper figures of the set, *cop. in*
- Baruce, fructus e pluribus nucibus, arboris Hurae. *Bauh. J. i. pars i.* 333. *Sloane cat.* 214. *Ehr. t. 12.*
- HURA crepitans*. *Schoepf* 145.
- Quauhtlatlatzin. *Hern.* 88.

## 893. NIPA.

*Calyx* none. *Corolla* of the male flowers hexapetalous, of the female none. *Filament* duodecimfid. *Style* none. *Stigma* a lateral furrow. *Drupe* monospermous, angular. *From L. a Willd.*

1. *NIPA fruticans*. *L. a Willd.* iv. 597.

*NYPA*. *Rumph.* i. 69. t. 16.

*Cocos Nypa*. *Lour.* ii. 694.

## SYNGENESIA.

## 894. TRICHOSANTHES.

*Calyx* quinquedentate. *Corolla* quinquepartite, cili-

ate. Filaments 3. Style trifid. Berry trilocular.  
From L.

1. TRICHOSANTHES *anguina*. Berries terete, oblong, incurvate. Leaves cordate, repandose, mucronato-denticulate. L. a Willd. iv. 598; sp. 1432; mant. 497; a Murr. 867.

*Anguina sinensis*, flore albo elegantissimo, fructu oblongo intorto. Mich. gen. 12. t. 9. Mill. Ph. ic. i. 21. t. 32.

*Curcurbita sinensis*, fructu longo anguino vario, flore candido capillamentis tenuissimis ornato. Tili 49. t. 22.

TRICHOSANTHES *anguina*. Lour. ii. 722.

2. TRICHOSANTHES *cucumerina*. Berries ovate, acute. Leaves cordate, angular. L. sp. 1432. Thunb. jap. 322.

PADAVALAM. Rheedæ viii. 39. t. 15.

3. TRICHOSANTHES *amara*. Berries turbinato-ovate. L. sp. 1432. Sal. R. hort. 157.

COLOCYNTHIS flore albo fimbriato, fructu oblongo: Plum. amer. 86. t. 101.

## 895. MOMORDICA.

*Calyx* quinquefid. *Corolla* quinquepartite. Filaments 3. Style trifid. Capsule bursting elastically. From L.

MOMORDICA *ecirrhata*. Tendrils none. Obs. 8853. Specimen in an old herbal.

- M. Elaterium. *L. sp.* 1434. *Hort. kew.* iii. 380. *Woodv.* i. 121. t. 43, *abr.* in *Thornt.* t. 809. *Asso n.* 944. *Host austr.* 525. On the sea coast on the sides of roads.
- M. absque cirrhis. *L. ups.* 294.
- Cucumis. *Tourn. inst.* t. 32.
- Cucumis sylvestris, sive asininus. *Raii hist.* i. 647. In Sicily, Italy, and the south of France.—*Bauh. J.* ii. 248. *Fuchs.* 669. c. 268, *cop. in*
- Cucumis sylvestris. *Trag.* 832. *Park. theatr.* 162, *cop. from Dod.* 652, which *repr. in*
- Cucumber Elaterii sylvestris. *Lob. obs.* 368; *ic.* i. 646, &
- Cucumis asininus. *Ger. by Johns.* 912. *Raii eur.* 109. *Besl. Bas. aest. ord.* 12. *fol.* 1.
- Cucumber sylvestris. *Matth.* ii. 1228, *cop. in*
- Cucumis sylvestris. *Cam. epit.* 946.
- Cucumis sylvestris, asininus dictus. *Magn. monsp.* 81.
- ELATERIUM.** *Boerh.* ii. 77.—*Pharm. lond. noviss.*—*Boulduc in ac. sc. abr. by Southw.* iii. 232. *Cull.* ii. 544. *Dick, W. in med. comment.* x. 220. *Dunc. cases* 145. *Heb.* 189. *Herm.* i. 683. *Hill* 793. *Linn.* 249. *Mead mon.* ii. 14. *Monro* iii. 103. *Schrod.* 779. *Spielm.* 612. *Syd.* 488.
- Elaterium nigrum. *Berg.* ii. 775.
- Elaterium album. *Berg.* ii. 775.
- M. Elaterium. Fruit nearly ripe. *Pharm. edin.*—*Coste & Willem. in med. comment.* v. 298. *Lew. disp. by Dunc.* 256. *Murr. J.* i. 271; ii. 23. *Pears. R.* i. 203.
- Cucumis agrestis. Fresh fruit. *Pharm. lond.*—*Dale* 165. *Geoffr.* iii. 376. *Lew.* i. 381. *Mill. Jos.* 161. *Murr.* i. 415. *Vog.* 235.

*Cucumis asininus.* *Alst.* i. 418. *Herm.* i. 131.  
*Linn.* 249. *Murr.* i. 413. *Vog.* 252.

*Cucumis sylvestris.* *Rutty* 151.

*Cucumis sylvestris, asininus dictus.* *Chom.* i. 28;  
*suppl.* 29.

2. **MOMORDICA *Luffa*.** Leaves quinquelobate, dentate, subhirsute. Berries cylindraceo-oblong, with chain-like furrows. Bractea entire at the margin, at the base of the peduncle. *L. a Willd.* iv. 603; sp. 1433. *Hort. kew.* iii. 380. *Lour.* ii. 724.

*Luffa aegyptiaca.* *Mill. Ph. dict.*

*M. pomis oblongis sulcis catenulatis, foliis incisis.*  
*L. ups.* 293; *Roy.* 262.

*Luffa arabum, seu Cucumis reticulatus aegyptius.*  
*Vesl.* 50. 51, *cop. in*

*Cucumer aegyptius reticulatus, seu Luffa arabum.*  
*Alp. cum Vesl.* 199. t. 58. 59, &

*Pepo aegyptius reticulatus.* *Hist. ox.* s. 1. t. 7. row  
 1. f. 1. 2.

Leaves cordate, scabrous with short hairs; lobes triangular, acute, the intermediate lobe rather longer. Male flowers racemose. *Racemus* 5 inches long. *Obs.* 8885. Specimen gathered by Dr. Wright from a plant cultivated in Jamaica.

**PETOLA.** *Rumph.* v. 405. t. 147. (t. 148 is *Cucumis anguina*.)

3. **MOMORDICA *Balsamina*.** Leaves quinquelobato-palmate, dentate, glabrous. Berries subrotundovate, attenuate at each end, angular, tuberculate. Bractea dentate, above the middle of the peduncle. From *L. a Willd.* iv. 602; sp. 1433; *mant.* 498. *Hort. kew.* iii. 380. *Gaerln.* i. t. 88.

M. pomis angulatis tuberculatis, foliis glabris patentipalmatis. *L. ups.* 293. *Roy.* 262.

M. vulgaris. *Boerh.* ii. 76.

Charantia. *Dod.* 659, *repr. in. ed.* ii. 670,

Balsamina cucumerina punicea. *Lob. obs.* 369; *ic. i.* 648, &

Balsamina mas. *Ger. by Johns.* 362. *Park. theatr.* 714.

Balsamine mas. *Fuchs.* 189. c. 69, *cop. in*

Balsamina cucumeraria. *Bauh. J.* ii. 251, & *abr.* *in*

Balsamina, seu Pomum mirabile. *Trag.* 899, *which repr. in*

Cucumis puniceus. *Cord. fol.* 119. *p. 1. Sloane cat.* 103. *Cultivated in Jamaica.*

Balsamina rotundifolia repens, seu mas. *Raii hist.* i. 647.

Balsamina Matthioli. *Dalech.* i. 630.

Balsamina, sive Momordica. *Cam. epit.* 989.

**MOMORDICA.** *Pharm. austriaco-prov.* 50.—

*Dale* 166. *Geoffr. suite* i. 72. *Schrod.* 628. *Spielm.* 386. *Vog.* 255.

Pomme de merveille. *Chom.* ii. 664.

**4. MOMORDICA Charantia.** Leaves septilobato-palmate, dentate, subhirsute. Berries oblong, acuminate, angular, tuberculate. Bractea entire at the margin, below the middle of the peduncle. *From L. a Willd.* iv. 602; *sp.* 1433. *Hort. kew.* iii. 380. *Lour.* ii. 724.

M. subhirsuta, fructu oblongo tuberculis conico-compressis inaequalibus obsito. *Browne Patr.* 353. *Cultivated in Jamaica.*

*M. zeylanica*, pampinea fronde, fructu longiori.  
Boerh. ii. 77.

*Balsamina cucumerina indica*, fructu majore flavescente. Comm. J. hort. i. 103. t. 54.

*Pandipavel.* Rheede viii. 17. t. 9. Tubercles oblong.

*AMARA INDICA.* Rumph. v. 410. t. 151.

5. *MOMORDICA muricata*. Leaves septilobato-palmarate, dentate, acuminate. Berries oblong, acuminate, muricate. Bractea mostly entire at the margin, below the middle of the peduncle. From L. a Willd. iv. 602, from Rheede.

*M. Charantia* β. L. sp. 1433.

*PAVEL.* Rheede viii. 19. t. 10.

6. *MOMORDICA trifoliata*. Leaves ternate. From L. sp. 1434, &

*POPPYA silvestris altera*. Rumph. v. 414. t. 152. f. 2.

## 896. CUCURBITA.

*Calyx* with 5 divisions. *Corolla* quinquepartite. *Filaments* 3. *Style* trifid. *Berry* trilocular. Obs. 6766. L.

1. *CUCURBITA lagenaria*. Leaves obsoletely angular, with 2 glands at the base underneath. Berries woody. Obs. 7190. In a garden, from a seed found in a basket of raisins from Spain.—L. a Murr. 868; sp. 1434. Hort. kew. iii. 381. Lour.

- ii. 728. *Mill. Ph. dict. n. 1. Gaertn. i. t. 88.*  
*Rumph v. 397. t. 144.* Leaves more attenuate  
 and acute than in my specimens.—*Lob. obs. 366,*  
*repr. in ic. i. 644,*
- C. prior. *Dod. 657, &*  
 C. *lagenaria sylvestris. Ger. by Johns. 924, & cop.*  
*in*  
 C. *lagenaria major. Park. theatr. 769.*  
 C. *lagenaria, flore albo, folio molli. Hist. ox. s. 1.*  
*t. 5. row 1. f. 3.*  
 C. *tertia, seu lagenaria, flore albo, folio molli. Sloane*  
*cat. 100.* Cultivated in Jamaica on rocky barren  
 hills.  
 C. minor. *Fuchs. 362. c. 139, imit. in*  
 Cucurbita. *Trag. 824,* middlemost part of the fig.  
*which repr. in*  
 C. *cameraria. Cord. sol. 112. p. 1, & cop. in*  
 C. *cameraria minor. Dalech. i. 616, &*  
 C. *lagenaria. Bauh. J. ii. 216.*

Leaves cordate, acute, concave, pubescent; margin dentate. *Cirrhi* dichotomous at about one third of their length. *Calyx* quinquedentate; teeth trianguli-subulate. *Corolla* quinquepartite, white, villose, the tubular part lining the inside of the calyx, opening before 6 in the evening, expanded with reflex segments by 5 in the morning, closed and withered before noon. *Stamina* 3, distinct. *Berry* turbinata. *Obs. 6766.* In a garden, raised from seeds from the Cape of good hope.

*CUCURBITA. Pharm. austriaco-prov. 33. suec.*  
*—Alst. ii. 347. Berg. ii. 778. Boerh. ii. 526.*  
*Carth. i. 331. Dale 164. Geoffr. iii. 380. Herm.*  
*i. 406. Linn. 250. Mill. Jos. 163. Murr. i. 399.*

*Schoepf* 145. *Schrod.* 576. *Vog.* 160.

*C. lagenaria.* *Bry.* 268.

*C. lagenaria*, flore albo, folio molli. *Lew.* i. 379.

*C. major sessilis*, flore albo. *Rutty* 129.

*C. villosa*, fructu pyriformi minori, foliis subangustatis basi biglandulis. *Browne, Patr.* 354.

*C. lagenaria*, flore albo. *Boerh.* ii. 80.

Small Gourd. *Long.* iii. 801.

Courge. *Chom.* ii. 798.

2 *oblonga*. Berry clavate. *From authors.*

*C. longior.* *Boerh.* ii. 80. *Dod.* 658, *repr. in*

*C. sive Zuccha omniū maxima anguina.* *Lob. obs.* 366; *ic.* i. 644, &

*C. anguina.* *Ger. by Johns.* 923, *cop. in*

*C. longa.* *Park. theatr.* 769, & *imit. in*

*C. cameraria longa.* *Dalech.* i. 615. (The upper berries belong to another variety.)

*C. oblonga.* *Fuchs.* 363. c. 139, *imit. in*

*Cucurbita.* *Trag.* 824, lower part of the fig. which *repr. in*

*C. cameraria.* *Cord. fol.* 112. p. 1, & *cop. in*

*CUCURBITA longa*, folio molli, flore albo. *Bauh.*

*J.* ii. 214. *Raii hist.* i. 638. *Sloane cat.* 100.

2. *CUCURBITA verrucosa*. Leaves lobate. Berries with knotty warts. *L. sp.* 1435. *Mill. Ph. dict.* n. 3. *Hort. kew.* iii. 381. *Dalech.* i. 617. *cop. in* *Bauh. J.* ii. 222. In the Montbeliard garden. Leaves represented as entire.

*Melopepo verrucosus.* *Boerh.* ii. 79.

*CUCURBITA verrucosa.* *Bry.* 271.

3. *CUCURBITA Melopepo*. Leaves lobate. Stem erect.

- Berries depressed, knotty. *L. sp.* 1435. *Hort. kew.* iii. 381. *Lour.* ii. 729. *Mill. Ph. dict.* n. 4.  
*Melopepo clypeiformis.* *Boerh.* ii. 79.  
*C. laciniata.* *Dalech.* i. 618.  
*C. clypeiformis*, sive *siciliana*, *Melopepon latus a nonnullis vocata.* *Bauh. J.* ii. 224.  
*Melopepones latiores clypeiformes.* *Lob. ic.* i. 642, *repr. in*  
*Pepo maximus clypeatus.* *Ger. by Johns.* 920, &  
*Peponis latioris fructus.* *Dod.* 656.  
**CUCURBITA** *Melopepo.* *Bry.* 271. *Spielm.* 85.

- 4. CUCURBITA** *Citrullus.* Leaves multipartite.  
*L. sp.* 1435. *Hort. kew.* iii. 382. *Lour.* ii. 730.  
*Anguria indica.* *Rumph.* v. 400. t. 146. f. 1.  
*Anguria*, sive *Citrullus vulgatior.* *Park. theatr.* 772, *imit. from*  
*Anguria.* *Dalech.* i. 625. *Boerh.* ii. 79. *Dod.* 653,  
*repr. in*  
*Citrullus officinarum.* *Lob. obs.* 364; *ic.* i. 640, &  
*Ger. by Johns.* 913.  
*Cucumer Citrulus.* *Fuchs.* 664. c. 267, *cop. in*  
*Citrulus folio colocynthidis secto, semine nigro, qui-*  
*busdam Anguria.* *Bauh. J.* ii. 235, *abr. in*  
*Citreolus.* *Trag.* 831, upper part of the fig. & *cop.*  
*in*  
*Cucumeris Citruli alia icon.* *Dod.* 653, which *repr.*  
*in*  
*Citrullus minor.* *Ger. by Johns.* 913.  
**CITRULLUS.** *Blackw.* t. 157.—*Pharm. austriaco-prov.* 31.—*Alst.* ii. 346. *Berg.* ii. 779.  
*Carth.* i. 331. *Dale* 165. *Geoffr.* iii. 340. *Herm.* i. 406. *Linn.* 250. *Mill. Jos.* 141. *Murr.* i. 401

*Schoepf* 146. *Schrod.* 568. *Vog.* 160.

*Citrulli.* *Spielm.* 82.

*C. Citrullus.* *Bry.* 269.

*Anguria Citrullus dicta.* *Chom.* 795. *Lew.* i. 379.

*Rutty* 129.

## 897. CUCUMIS.

*Calyx* quinquedentate. *Corolla* quinquefid. *Filaments* 3. *Style* trifid. *Berry* trilocular. *Obs.* 6018. *L.*

### 1. Seeds with a tumid margin.

1. CUCUMIS *Pepo*. Leaves lobate. *Obs.* 7196. In a garden.

*Cucurbita Pepo.* *L. sp.* 1435. *Hort. kew.* iii. 381.

*Lour.* ii. 728. *Mill. Ph. n.* 2. *Gaertn.* i. t. 88.

*Pepo vulgaris.* *Raii hist.* i. 639.

2. *rotunda*. Berries round, yellow. *Obs.* 7187. In a garden.—*L. sp.* 1435 2

*Pepo rotundus, arantii forma.* *Boerh.* ii. 78.

*Pepo.* *Park. par. t.* 527. f. 5.

*Cucumer marinus.* *Fuchs.* 664. c. 267, cop. in

*Cucurbita foliis asperis, sive Zucha flore luteo.* *Bauh.*

*J.* ii. 218. *icon* iv, &

*Pepo rotundus minor.* *Dod.* 655, which repr. in

*Pepo minor sylvestris.* *Ger. by Johns.* 922.

*Cucurbita indica rotunda.* *Dalech.* i. 616.

*Leaves* angulato-lobate. *Berries* nearly globular, buff-orange coloured, with 10 strawcoloured streaks, with a few scattered tubercles,  $3\frac{1}{4}$  inches broad, weighing  $7\frac{1}{2}$  ounces. *Obs.* 7187.

**PEPO.** *Pharm. austriaco-prov.* 55. *Cod. med. p.* lxxxix.—*Alst.* ii. 347. *Berg.* ii. 777. *Boecl. ap.* *Herm.* i. 409. *Dale* 165. *Mill. Jos.* 337. *Lew.* i. 380; *disp. by Dunc.* 341.

**Cucurbita Pepo.** *Bry.* 270. *Spielm.* 85. *Thunb.* *jap. p.* xxxiv.

**Cucurbita.** *Murr.* i. 401.

**Pepones.** *Borell* quoted in *Quar. anim.* 78.

**oblonga.** Berries oblong. *Obs.* 6018. In a garden.  
—*L. sp. β*

**C. foliis asperis, sive Zucha flore luteo, icon III.**  
*Bauh. J.* ii. 219.

Leaves quinquelobate, one or both of the 2 upper sinus sometimes rounded, sometimes acute, trinervose, hispid, scabrous; prickles geniculate. *Calyx*, teeth subulate. *Corolla* quinquefid, buff-orangecoloured, greenish below and along the costae of the segments, in hot weather expanding after 11 at night and fully expanded with reflex segments before 5 in the morning, closed and beginning to wither before noon; that of the male flowers 3 and  $3\frac{1}{4}$  inches long; that of the female flowers  $5\frac{1}{2}$  inches broad, greener below and along the costae than in the male flowers, buff-orange-coloured at the border and at the ends of the segments. *Filaments* monadelphous, conical, with 3 apertures at the base of the cone. *Antherae* 5, syngenesious, united into a mass with the ends of the filaments, unicellular, flexuose, each consisting of 3 lengths upwards downwards, divisible into 5, 2 adhering to 2 of the filaments, and the remaining 5th to the 3rd filament; cells opening outwardly not inwardly as in the compound flowers. *Pollen* yellow, globular, pubescent. *Nectarium* of the female flowers fleshy, buffcoloured,

calyciform, entire at the margin. *Germen* with 10 costae, oval. *Berry*  $13\frac{1}{2}$  inches long,  $6\frac{3}{4}$  inches broad; weighing  $8\frac{1}{4}$  pounds; costae yellow, the sides blackish green with yellow intermixed. *Obs.* 7191. In a garden.

*PEPO oblongus.* *Boerh.* ii. 78.—*Chom.* ii. 795.  
*P. rotundifolius.* Berries oval. Leaves slightly lobed. *Obs.* 7189. In a garden from a seed found in a basket of raisins.

*C. turcicus.* *Fuchs.* 663. c. 267, *abr. in Pepo.* *Trag.* 831, lower part of the stem, *cop. in Cucurbita foliis asperis, sive Zucha flore luteo, icon II.* *Bauh. J.* ii. 218, &

*Pepo major oblongus.* *Dod.* 654, which repr. in *Pepo maximus oblongus.* *Ger. by Johns.* 919.

Leaves inciso-lobate; lobes and sinuses acute. *Peduncles* shorter than the *germen*, pentagonal. *Corolla* deciduous, full orangecoloured, very tender, hirsute within, hispid without; that of the male flowers from  $4\frac{1}{4}$  to  $4\frac{1}{2}$  inches long; that of the female flowers  $3\frac{3}{4}$  inches long, greenish below, especially on the outside; costae, and ribs green on the outside to the ends of the segments. *Germen* oval, with 10 costae, hirsute, pale green with oval white spots. *Style* trifid. *Stigmata* adpressed, obtusiform. *Berry* 15 inches long, 2 feet in circumference, weighing  $18\frac{3}{4}$  pounds. *Obs.* 7189.

## 2. Seeds not tumid at the margin.

2. *CUCUMIS Chate.* Hirsute. Angles of the leaves entire, rounded. Berries terete, attenuate each way, hirsute. *From L. a Murr.* 869. *Hort. kew.* iii. 383.

Chate. *Alp. aeg. fol. 44. p. 2; t. fol. 45. p. 2,*  
*cop. in Vegl. ii. 54. t. 40.*

Abdelavi. *Alp. cum Vegl. ii. t. 41. at p. 55.*

*CUCUMIS* Chate. *Bry. 265. Forsk. 168.*

C. Anguria. *Sonnini iii. 102. 221?*

3. *CUCUMIS Melo.* Leaves obsoletely angular, dentate. Berries sulcate. *Obs. 6555.* In a garden.—*L. sp. 1436. Hort. kew. iii. 383. Lour. ii. 726. Gou. hort. 498.* In the open air.

*Melo vulgaris.* *Boerh. ii. 77.*

*Melo, sive Melopepo vulgo, C. Galeni.* *Dod. 652,*  
*repr. in*

*Melo vulgi.* *Lob. obs. 364; ic. i. 639, &*

*Melo.* *Ger. by Johns. 917. Mill. Ph. dict. Blackw.*  
*t. 329. Cord. fcl. 117. p. 2, cop. in*

*Melopepo.* *Dalech. i. 623.*

*Melo maximus optimus.* *Park. par. t. 527. f. 4.*

*Pepo.* *Fuchs. 665. c. 267, cop. in Cord. fol. 118.*  
*p. 1, & Dalech. i. 623, abr. in Trag. 831, low-*  
*ermost outer branch, & cop. in*

*Melones.* *Bauh. J. ii. 242.*

Seeds ovato-oblong, obsoletely bordered at the smaller end. *Obs. 8891.*

*MELO.* *Pharm. austriaco-prov. 49.—Alst. ii.*  
*347. Berg. ii. 783. Dale 165. Carth. i. 331.*  
*Geoffr. suite i. 12. Herm. i. 406. Linn. 251.*  
*Mill. Jos. 290. Murr. i. 403. Quar. febr. 18.*  
*123. Rutt. 129. Schoepf 146. Schrod. 623.*  
*Spielm. 92. Vog. 163.*

C. *Melo.* *Browne Patr. 353. Bry. 264. Lew.*  
*disp. by Dunc. 341. Pears. R. i. 62.*

*Melon.* *Brown ii. 249. Chom. ii. 799. Fordyce, G.*  
*fev. iii. 197.*

4. *CUCUMIS sativus.* Leaves with right angles.  
 Berries oblong, scabrous. *From L. a Murr.* 869;  
*sp.* 1437. *Hort. kew.* iii. 383. *Lour.* ii. 726.  
*Gaertn.* i. t. 88. *Dalech.* i. 620. *Blackw.* t. 4.  
*Park. theatr.* 772, cop. from  
*C. esculentus.* *Lob. obs.* 363, which repr. in  
*Cucumeres sativi & esculenti.* *Lob. ic.* i. 638,  
*C. vulgaris.* *Dod.* 651, & *Ger.* by *Johns.* 910. *Raii*  
*hist.* i. 645.  
*C. sativus vulgaris.* *Boerh.* ii. 77. *Fuchs.* 663. c.  
 267, cop. in  
*C. vulgaris viridis et albus.* *Bauh. J.* ii. 245, &  
*abr.* in  
*Cucumis.* *Trag.* 831, middlemost part of the stem.—  
*Tourn. inst.* ii. t. 31. *Vent. tabl.* t. 23. f. 1.  
*C. longus vulgaris.* *Park. par.* t. 527. f. 1.  
*C. hispanicus.* *Park. par.* t. 527. f. 2, cop. in  
*C. ex hispanico semine natus.* *Ger.* by *Johns* 910.

*Filaments* 3, inserted into the tube of the corolla, united above into an oval mass, terminated by a yellow tuft. *Antherae* 5, strawcoloured, unilocular, winding up and down on the outside of the oval mass formed by the union of the filaments, each consisting of 3 parallel vertical lengths, 2 above 2 of the filaments, and 1 above the third filament. *Pollen* white. *Nectarium* in the bottom of the calyx, glandular, with 3 roundish heads. *Calyx* of the female flowers superior. *Corolla*, tube lining the tube of the calyx. *Nectarium* calyciform, surrounding the base of the style. *Stigmata* oval, vertical, greenish, scabrous. Rudiments of 3 filaments, and as if impressions of antherae on the inner surface of the tube of the corolla. *Obs.* 8640. In a garden.—Seeds lanceolato-oblong, obsoletely bordered at one end. *Obs.* 8890.

*CUCUMIS.* *Pharm. austriaco-prov.* 33.—*Alst.* ii.  
346. *Berg.* ii. 784. *Carth.* i. 331. *Geoffr.* iii.  
372. *Herm.* i. 407. *Linn.* 251. *Mill. Jos.* 162.  
*Murr.* i. 405. *Pears. R.* i. 63. *Rutty* 129. 150.  
*Schoepf* 146. *Spielm.* 83. *Vog.* 160.

*Cucumera.* *Aasheim in act. haun.* i. 179. 180.  
*Aaskow ib.* 205. *Bang. ib.* 23. 96. *Muzel & Schulz.* quoted in *Quar. anim.* 77. 78. *Quar. febr.* 18.

*C. sativus.* *Bry.* 266. *Schrod.* 576.

*C. hortensis.* *Dale* 165.

*C. sativus vulgaris.* *Lew.* i. 379.

*Cucumber.* *Brown* ii. 249. *Fordyce, G. fev.* iii.  
197. *Guthr. in ph. tr. abr. by Hutt.* xiv. 399.  
*Mertens ib.* 402. *Papin ib. abr. by Jones v. part ii.* 185; *by Hutt.* vi. 53.

*Concombre.* *Chom.* i. 797.

5. *CUCUMIS acutangulus.* Leaves cordate; angles acute. Berries with 10 acute angles. *From L. sp.* 1436, & *a Murr.* 869. *Hort. kew.* iii. 383. *Lour.* ii. 727.

*C. indicus striatus operculo donatus, corticoso putamine tectus.* *Pluk. alm.* 123; *phyt. t.* 172. *f. 1.*

Long Indian Gourd. *Grew mus.* 229. *t.* 17.

*PETOLA bengalensis.* *Rumph.* v. 408. *t.* 149.  
Female plant.

6. *CUCUMIS Conomon,* Leaves angulato-sublobate, dentate. Fruit fusiform, with 10 furrows, glabrous. *Thunb. jap.* 324;—*jap. p.* xxxiv; *trav.* iv. 89.

7. *CUCUMIS flexuosus.* Leaves angulato-lobate. Ber-

ries cylindric, sulcate, curvate. *From L. sp.* 1437; *Hort. kew.* iii. 384. *Boerh.* ii. 77. *Raii hist.* i. 646.

*Cucumeres longissimi.* *Bauh. J.* ii. 247.

*C. oblongus.* *Dod.* 651, *repr. in*

*C. anguina.* *Ger. by Johns.* 910,

*C. anguinus flexuosus.* *Lob. obs.* 363, & *ic. i.* 639, & *cop. in Park. theatr.* 772.

*CUCUMIS flexuosus.* *Bry.* 267. *Thunb. jap. p.* xxxiv.

8. *CUCUMIS anginus.* Leaves lobate. Berries cylindric, very long, smooth, twisted in various directions. *From L. sp.* 1437.

*PETOLA anguina.* *Rumph.* v. 407. t. 148.

9. *CUCUMIS Anguria.* Leaves palmato-sinuate. Berries globose, echinate. *From L. sp.* 1436; *mant.* 498. *Hort. kew.* iii. 382.

*C. sylvestris americanus, anguriae folio, fructu ovi figura spinosis tuberculis momordicae instar muri-*cato. *Pluk. phyt.* t. 170. f. 3.

*C. echinatus, colocynthidis folio.* *Herm. par.* t. 134.

*CUCUMIS subhirsutus minor, foliis profunde sinuatis, fructibus muricatis.* *Browne Patr.* 353.

*Anguria.* *Mill. Ph. ic.* i. 22. t. 33.

*C. anguriae folio latiore aspero, fructu minore can-*dido spinulis obtusis muricato. *Sloane cat.* 103; *hist.* i. 226.

10. *CUCUMIS Colocynthis.* Leaves pinnatifido-sinu-ate. Berries globular, glabrous. *From Woodv.* iii. 476. t. 175, *abr. in Thornt.* t. 812. *L. sp.* 1435. *Hort. kew.* ii. 382,

*Colocynthis fructu rotundo, major.* *Boerh.* ii. 80.

*Colocynthis turbinata.* *Cord. fol.* 115. *p. 2, repr.*  
*from*

*Colocynthis.* *Trag.* 828, *which imit. from Fuchs.*  
366. *c.* 140, *which cop. in Bauh. J.* ii. 232.  
*Blackw.* t. 441. *Cam. epit.* 982. *Raii hist.* i. 642.  
*Dod.* 654, *repr. in Ger. by Johns.* 915, *Lob. obs.*  
367, & *ic.* i. 645, & *cop. in*

*Colocynthis pomiformis.* *Park. theatr.* 160, &

*Cucurbita, sive Colocynthis amara pyriformis varie-*  
*gata.* *Bauh. J.* ii. 230.

*Berry* globular, smooth. *Seeds* ovate, smooth,  
with 2 short furrows on each side near the end; mar-  
gin rounded. *Obs.* 8889. From the shops.

**COLOCYNTHIS.** Pith of the fruit. *Pharm.*  
*lond.* & *noviss.* *Alst.* ii. 278. *Berg.* ii. 780.  
*Carth.* ii. 468. *Cull.* ii. 544. *Geoffr.* ii. 334.  
*Herm.* i. 333. *Hill.* 449. *Hunt. J. jam.* 253.  
261. *Lew.* i. 357. *Linn.* 250. *Mill. Jos.* 145.  
*Monro* iii. 72. *Murr.* i. 407. *Ploucq. bibl.* i. 655.  
665. *Quar. anim.* 18. *Rutty* 134. *Spielm.* 631.  
*Vog.* 251. *Wintr. in Mead mon.* i. 67. 270.

**C. Colocynthis.** Fruit excepting the rind and seeds.  
*Pharm. edin.*—*Lew. disp. by Dunc.* 211. *Murr.*  
*J.* i. 270. *Pears. R.* i. 195.

*Colocynthis fructu rotundo, major.* *Chom.* i. 67.  
*Dale* 165.

*Colocynthida.* *Fordyce, G. fev.* ii. 55.

*Coloquintida.* *Chalm.* i. 190. 195; ii. 5. 46. 148.

*Colocynth.* *Chalm.* i. 209. *Fordyce, W. fragm.*  
66. *Heb.* 224. *Horneman, account from in chir.*  
*rev.* ix. 195. *Neum.* ii. 108. *Pringle* 152. 216.

*β minor.* Fruit smaller. *From Casp.* *Bauh. Tourn.*

*COLOCYNTHIS* fructu rotundo, minor. *Chom.*  
i. 67, & *Dale* 165.

*Colocynthis rotunda minor.* *Schrod.* 760.

## 898. BRYONIA.

*Calyx* quinquedentate. *Corolla* quinquepartite.  
*Filaments* 3. *Antherae* 5. *Germen* triocular.  
*Style* trifid. *Berry* unilocular. *Obs.* 7163. *L.*  
*Juss.* 394.

*Bryonia Cucumis* and *Curcurbita* seem to be one genus.

### 1. Leaves undivided.

1. **BRYONIA grandis.** Leaves cordate, entire at the margin, glabrous, with callous tubercles above, with 5 glands underneath. Peduncles uniflorous, axillary. *From L. a Willd.* iv. 617; *a Murr.* 870; *mant.* 126. *Hort. kew.* iii. 385.

B. foliis subrotundis angulosis, momordicae facie. *Burm. J. zeyl.* 49. t. 19. f. 2, is represented as having peduncles opposite to the leaves, leaves subtrilobate, dentate, and corolla quinquefid.

*VITIS alba indica.* *Rumph. v.* 448. t. 166. f. 1.

### 2. Leaves divided.

2. **BRYONIA nigra.**—Leaves quinquelobate, dentate. Flowers racemose. *From L. a Willd.*—*Rupp. ab Hall.* 48. *Cord. fol.* 116. p. 2. In Hesse, Westphalia, Saxony, Misnia, Brandenburg, and Pomerania.—*Dod. purg.* 229; *pempt.* 395. No fig.

B. alba. *L. sp.* 1438; *a Reich.* iv. 207  $\alpha$ ; *a Willd.*

iv. 621. *Retz. scand. n.* 1203. *Fl. dan. t.* 813.  
*Scop carn.* ii. *n.* 1200. About Trieste and Gottz.  
—*Roth germ. i.* 412. In Bremen, Hanover, Saxony, and Brandenburg; *ii. pars ii.* 497. *Gort. belg. foed. n.* 801. *Willd. ber.* 283. At Spandau near Berlin.

*Vitis sive B. nigris baccis.* *Bauh. J.* ii. 146. No fig.

*B. alba, baccis nigris.* *Dill. ap. Raii syn.* 261. Not unfrequent about Cambridge according to Plukenet—who was probably deceived by trusting to memory.

*B. aspera, sive alba, baccis nigris.* *Magn. hort.* 35. Native of Sweden and Germany.

**BRYONIA.** *Tab. ic.* 893.—*Pharm. suec.*—*Berg. ii.* 785. *Linni* 252.

*B. baccis nigris.* *Schrod.* 757.

*B. alba, baccis nigris.* *Geoffr.* iii. 221.

Bryony with black berries. *Neum.* ii. 109.

### 3. BRYONIA dioica. Flowers dioecious. Obs. 7163.

In a hedge between Himley and King's Swinford in Worcestershire.—*Jacq. aust.* ii. 59. *t.* 199; *ap. L. a Murr.* 870. *Bot. arr.* ii. 1133. *Reich. franc.* *n.* 706. *Roth germ. i.* 412; *ii. pars ii.* 498. *Willd. ber.* 283. *Smith brit.* iii. 1019; *engl. t.* 439. *Northumb. guide* i. 87. In Durham.

*B. alba.* *Jacq. vind.* 172. *Huds.* 437. *Lightf.* ii. 590. Found near houses by Burgess, who judged it not to be indigenous.—*L. a Reich.* iv. 208  $\beta$ . *Blackw. t.* 37. *Woodv.* iii. 517. *t.* 189. *Thornt.* *t.* 827. *Gou. hort.* 498; *monsp.* 54. *Asso n.* 945. *Geuns n.* 58. *Raii hist.* i. 659; *syn.* 261. *Dod. purg.* 230, *repr. in pempt.* 395, *Ger. by Johns.* 869,

Vitis alba. *Lob. obs.* 343; & *ic.* i. 624. *Plin. l.* 23.  
*c. l. p.* 590. *lin.* 13. *Fuchs.* 94. *fol. ed. cop. in*  
Vitis alba, sive Bryonia. *Bauh. J.* ii. 143. *Matth.*

ii. 1283, *cop. in*

Vitis alba. *Cam. epit.* 987, &

B. alba vulgaris. *Park. theatr.* 178.

B. sive Vitis alba. *Dalech.* ii. 1410.

B. foliis palmatis utrinque calloso scabris. *Roy.*  
264.

B. alba, baccis rubris. *Rupp. ab Hall.* 48. About  
Giessen and in Hesse.

B. aspera, sive alba, baccis rubris. *Touřn. paris.*  
249. *Vaill. paris.* 23. *Magn. monsp.* 39. *Boérh.*  
ii. 61. In Holland.

Bryonia. *Mill. Ph.* ie. i. 47. t. 71. *Guett.* ii. 269.  
*Trag.* 820, *repr. in*

B. alba. *Cord. fol.* 117. *p.* 1. In the dutchy of  
Wirtemberg, in Suabia, and in the Palatinate.

*Male and female plants generally at a distance from  
each other. Leaves cordate, palmate and lobate,  
scabrous with short hairs, when fully grown scabrous  
with white tubercles similar to those of Cynoglossum  
officinale and composed of minute pearly granules;  
posterior segments truncate.* *Obs.* 189.—*Umbels*  
*axillary, shorter than the petioles; with from 1 to 4  
berries. Germen trilocular. Berries still green, glo-  
bular, with from 2 to 5 seeds in a green pulp, gene-  
rally in 1 sometimes in 2 of the cells. Seeds ovate,  
slightly compressed.* *Obs.* 7163. 7861. On marl  
and gravel from between Upton in Worcestershire to  
between Nottingham and Mansfield. I have not  
hitherto observed it on the coal and limestone districts  
of Derbyshire, but Mr. Williams found it on Atter-

cliff common near Sheffield, and Mr. Salt has sent me a root dug up near Sheffield.

*Native of Europe from Spain to Holland, and of England as far north as Bishop's Aukland in Durham.*

- BRYONIA.** Root. *Pharm. lond.*—*Alst.* i. 400.  
*Carth.* ii. 422. *Chom.* i. 16; *suppl.* 6. *Culp.* 53.  
*Geoffr.* iii. 220. *Herm.* i. 141. *Lew.* i. 239.  
*Linn.* 252. *Hull phlegm.* 295. *Mill. Jos.* 93.  
*Monro* iii. 34. *Murr.* i. 419. *Quar. anim.* 186.  
*Rutty* 74. *Spielm.* 611. *Vog.* 217; *prael.* 409.  
*B. alba.* *Coste & Willem. in med. comment.* v. 298.  
*Dale* 168. *Fordyce, G. pract.* 207. 224. *Mill. Jos.* 93. *Murr. J.* i. 270. *Pears. R.* i. 187.  
*B. baccis rubris:* *Schrod.* 757.  
 Bryony with red berries. *Neum.* ii. 109.  
 White Briony. *Darw.* ii. 705.  
 Bryony. *Boulduc in ac. sc. abr. by Southw.* iii. 228.

## 899. MURICIA.

*Calyx* quinquepartite. *Petals* 5. *Filaments* 3.  
*Style* trifid. *Berry* unilocular. *Seeds* orbicular,  
 tuberculous. *Lour.*

1. **MURICIA cochinchinensis.** *Lour.* ii. 733.

## Class 22.

## DIOECIA.

## Order 1.

## MONANDRIA.

## 1. Flowers naked.

900. PANDANUS. Drupe. Style none. Stigmata  
2.

## 2. Flowers bracteate.

901. BROSIMUM. Berry monospermous. Style  
1. Stigmata 2. Bracteae  
peltate.

3. Male flowers bracteate. Female flowers incom-  
plete.

902. COMMIA. Calyx triphyllous. Capsule  
trilocular.

4. Female flowers bracteate. Male flowers com-  
plete.

903. CESSAMPELOS. Drupe monospermous. Style 1.

*Stigmata* 3. *Calyx* of the male flowers quadripartite. *Corolla* of the male flowers orbicular, entire.

Order 2.

D I A N D R I A.

1. *Flowers bracteate.*

905. SALIX.      *Style* 1. *Stigmata* 2. *Nectarium* 1. *Capsule* unilocular, bivalve. Seeds pappose. *Obs.* 2779.

2. *Male flowers bracteate. Female flowers unknown.*

906. DACRYDIUM. *Antherae sessile. Nut.*

3. *Flowers incomplete.*

904. CECROPIA. *Calyx* of the male flowers turbinated, with 2 orifices at the end. *Style* none. *Berry* monospermous.

## Order 3.

## T R I A N D R I A.

1. *Male flowers bracteate. Female flowers complete.*

907. JUNIPERUS. *Drupe trisperous. Stamina mostly 3. Calyx of the female flowers polyphyllous. Corolla? of the female flowers tripetalous. Obs. 8407.*

2. *Flowers incomplete.*

910. STILAGO. *Stigmata 2, sessile. Drupe. Nut bilocular. Calyx urceolate. From Hort. Kew.*

909. OSYRIS. *Style 1. Stigma tripartite. Berry monospermous. Calyx trifid.*

911. EXCOECARIA. *Style 1. Stigmata 3. Capsule tricoccous. Calyx diphyllous and triphyllous.*

912. CATUS. *Styles 3. Capsule tricoccous. Calyx of the male flowers semitrifid, of the female flowers tripartite.*

## 3. Flowers complete.

908. **EMPETRUM.** Style very short. Berry with 9 and 11 seeds disposed in a circle. Stigma 9. Calyx inferior, tripartite. Petals 3. Obs. 6330.

913. **PHOENIX.** Style 1. Drupe monospermous. Petals 3. Calyx inferior, trifid,

## Order 4.

## TETRANDRIA.

1. Female flowers naked. Male flowers incomplete.

914. **TROPHIS.** Style 1. Berry monospermous. Calyx of the male flowers quadripartite. Obs. 8378.

## 2. Flowers bracteate.

915. **BATIS.** Stigma bilobate. Berry tetraspermous.

3. Male flowers bracteate. Female flowers incomplete.

920. **MYRICA.** Styles 2. Berry monospermous. Calyx of the female

flowers diphyllous. Obs.  
5709.

4. Flowers incomplete.

916. VISCUM. *Stigma* 1. *Berry* monospermous. *Calyx* of the male flowers quadripartite, of the female flowers superior, tetraphyllous. *Antherae* sessile, growing to the calyx.

919. HIPPOPHAE. *Pistil* 1. *Calyx* of the male flowers bipartite, of the female flowers semibifid. *Berry* monospermous. Obs. 2447.

5. Flowers complete.

918. GONUS. *Pistil* 1. *Calyx* tetraphyllous. *Petals* 4. *Drupes* 4. *From Lour.*

917. BRUCEA. *Pistils* 4. *Calyx* tetraphyllous. *Petals* 4.

*Order 5.*

P E N T A N D R I A.

1. Flowers incomplete.

927. HUMULUS. *Styles* 2. *Seed* 1. *Calyx* of

the male flowers pentaphylloous, of the female flowers monophyllous. Obs. 6057.

## 925. SPINACIA.

*Styles 4.* *Seed 1.* *Calyx* of the male flowers quinquepartite, of the female flowers quadrifid. Obs. 3062.

## 926. CANNABIS,

*Styles 2.* *Capsule* bivalve, monospermous.

## 924. ANTIDESMA.

*Stigmata 5.* *Berry* monospermous. *Calyx* pentaphyllous.

## 921. PISTACIA.

*Styles 2.* *Drupe.* *Calyx* of the male flowers quinquefid, of the female flowers trifid.

## 2. Flowers complete.

## 929. CLYTIA.

*Style 1.* *Capsule* trilocular; cells monospermous. *Petals 5.* *Calyx* pentaphyllous. Obs. 5720.

## 923. PICRAMNIA.

*Styles 2.* *Berry* bilocular; cells dispermous.

## 928. FRUILLEA.

*Styles 5.* *Berry* trilocular. *Corolla* quinquefid. *Calyx* quinquefid.

## 922. CANARIUM.

*Style 1.* *Drupe.* *Nut* trigonous. *Petals 3.* *Calyx* of the male flowers pentaphylloous, of the female diphyllous.

## Order 6.

## HEXANDRIA.

1. *Flowers incomplete, inferior.*

930. BACCAUREA. *Style none. Stigma laciniate. Berry trilocular and quinquelocular. From Lour.*
932. SMILAX. *Styles 3. Berry trilocular.*
934. FIBRAUREA. *Stigmata 3. Calyx none. Petals 6. Berries 3.*

2. *Flowers incomplete, superior.*

931. TAMUS. *Style 1. Berry trilocular. Obs. 4023.*
933. DIOSCOREA. *Styles 3. Capsule trilocular.*

3. *Flowers complete.*

936. FERREOLA. *Berry bilocular and trilocular. Calyx semitrifid. Corolla trifid.*
937. LIMACIA. *Stigmata 3. Calyx hexaphylous. Petals of the male flowers 3, of the female flowers 6. Drupe reniform. Nut cochleate.*

935. BRAUNEA.. *Calyx triphyllous. Petals 3.*  
*From L. a Willd.*

*Order 7.*

## O C T A N D R I A.

938. POPULUS. *Stigma quadrifid. Capsule bilocular. Calyx monophyllous, oblique. Seeds pappose.*  
*Obs. 4345.*

*Order 8.*

## E N N E A N D R I A.

939. MERCURIALIS. *Styles 2. Capsule dicoccous.*  
*Calyx tripartite. Corolla noné.*

*Order 9.*

## D E C A N D R I A.

1. *Flowers incomplete.*

940. TETBANTHERA. *Style 1. Calyx monophyllous.*

*Glands at the base of the inner stamens. Anthers quadri-locular. Berry.*

2. *Flowers complete.*

943. CORIARIA.      *Styles 5. Seeds 5. Petals 5. Calyx pentaphyllous.*
941. CARICA.      *Stigmata 5. Berry unilocular, polyspermous. Corolla of the male flowers quinquefid, of the female flowers pentapetalous.*
942. SCHINUS.      *Stigmata 3. Berry trilocular. Petals 5. Calyx quinque-partite.*

*Order 10.*

D O D E C A N D R I A.

944. DATISCA.      *Styles 3. Calyx of the male flowers pentaphyllous, of the female flowers superior, bidentate. Corolla none. Capsule unilocular, polyspermous. From L.*

*Order 11.***I C O S A N D R I A.**1. *Flowers incomplete.*

945. **FLACOURTIA.** *Styles 3 to 5. Calyx pentaphyllous. Berry polyspermous. From Roxb.*

946. **STIGMAROTA.** *Style none. Stigma rotate. Calyx quadripartite to sex-partite. Berry polyspermous. From Lour.*

*Order 12.***P O L Y A N D R I A.**1. *Female flowers naked. Male flowers bracteate.*

948. **CYCAS.** *Drupe. Style 1. Antheræ sessile. Obs. 2696.*

2. *Flowers incomplete.*

947. **TREUIA.** *Calyx superior. Capsule tetra-coccus.*

*Order 13.*

## MONADELPHIA.

*Flowers incomplete.*

949. TAXUS.      *Pistil 1.* *Calyx* polyphyllous.  
*Antherae* sexlocular. *Nectarium* of the female flowers urceolate. *Drupe* surrounded below by the enlarged *nectarium*. *Obs.* 8408.
951. MYRISTICA.      *Pistil 1.* *Drupe* monospermous. *Nut* arillate. *Calyx* trifid.
950. EPHEDRA.      *Pistils 2.* *Seeds* 2, covered by the *calyx*. *Calyx* of the male flowers bifid, of the female flowers bipartite. *Obs.* 8892.

*Order 14.*

## SYNGENESIA.

952. RUSCUS.      *Style 1.* *Berry* trilocular;

cells monospermous. *Calyx*  
hexaphyllous. *Corolla* none.  
*Obs.* 3149.

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## MONANDRIA.

### 900. PANDANUS.

*Calyx* and *corolla* none. *Germina* 6 to many, united.  
*Stigma* fixed on the outside of a labiate umbilicus  
at the end of each *germen*. *Fruit* compound;  
*drupes* obconic, angular, monospermous. *From*  
*Roxb. L. fil. suppl.* 64.

*Arthrodactylis. Forst. J. & G.* 149. t. 75.

1. *PANDANUS odoratissimus*. Leaves with spinose  
teeth along the back and margin. Fruit globular,  
solitary. *L. a Willd.* iv. 645; *fil. suppl.* 424.  
*Hort. kew.* iii. 387. *Roxb.* i. 65. t. 94 to 96.  
*Lour.* ii. 740.

*Arthrodactylis spinosa. Forst. J. & G.* 150.

*P. verus. Rumph.* iv. 139. t. 74.

*PANDANUS odoratissima. Forst. G. austral.* n.  
365;—*esc.* 38.

*Pandanus. Cook voy.* 3rd, i. 358.

Leram. *Fontana, Nic. in as. res.* iii. 306.

The Cetaca. *Fontana, Nic. ib. t. at p.* 306. In fruit.

$\beta$  *spurius.* *PANDANUS* *spurius.* *Rumph.* iv. 142. *t.* 75.

$\gamma$  *latifolius.* *PANDANUS* *latifolius.* *Rumph.* iv. 146. *t.* 78.

$\delta$  *ceramicus.* *PANDANUS* *ceramicus.* *Rumph.* iv. 149. *t.* 79.

$\epsilon$  *maritimus.* *FOLIUM BAGEA* *maritimum.* *Rumph.* iv. 151. *t.* 80, 81.

2. *PANDANUS humilis.* Leaves with spinose teeth along the back and margin. Fruit globular, aggregate. *L. a Willd.* iv. 645. *Lour.* ii, 740. *Rumph.* i. 143. *t.* 76.

## 901. BROSIMUM.

*Flowers bracteate. Bracteae orbiculate, peltate. Calyx and corolla none. Style bifid. Berry monospermous. From Swartz. prodr: 12, & L. a Schreb. 670.*

II. *BROSIMUM Alicastrum.* Leaves ovato-lanceolate, perennial. Heads globular, pedunculate, solitary, axillary. Fruit covered with a bark. *Swartz: prodr.* 12; *occid.* i. 17. *t.* 1. *Hort. kew.* iii. 387.

*ALICASTRUM.* *Browne, Patr.* 372.

B. *Alicastrum.* *Pears. R.* i. 60.

## 902. COMMIA.

*Male flowers* bracteate. *Anthera* multilocular.  
*Calyx* of the female flowers triphyllous. *Corolla* none. *Styles* 3. *Capsule* trilocular. *From Lour.*

1. COMMIA cochinchinensis. *Lour.* ii. 743.

## 903. CISSAMPELOS.

*Female flowers* bracteate. *Calyx* of the male flowers quadripartite. *Corolla* of the male flowers orbicular. *Bracteae* of the female flowers 2, obovate, an outer and an inner. *Anthera* orbicular. *Style* trifid. *Drupe* monospermous. *Obs.* 8588. 8589. *Swartz.* *obs.* 415. *t.* 10. *f.* 5. *L.*

1. CISSAMPELOS *Pareira*. Leaves peltate, cordate and reniform. *Obs.* 8589. Specimen gathered by Dr. Wright in Jamaica, and specimens in Sir. Jos. Banks's herbarium.—*Swartz.* *obs.* 380. *L. sp.* 1473; *mant.* 500. *Mill. Ph. dict. n. 1. Woodv.* ii. 227. *t.* 82, from a specimen of Aitons.

*Cissampelos.* *Browne, Patr.* 357.

*Clematis baccifera glabra et villosa, rotundo et umbilicato folio.* *Plum. amer.* 78. *t.* 93. *Sloane cat.* 85.

*Caapeba folio orbiculari et umbilicato laevi.* *Plum. gen.* 33.

*Caapeba folio orbiculari et umbilicato tomentoso.* *Plum. gen.* 38.

(*Abuta scandens*, amplissimo folio cordiformi subtus tomentoso. *Barriere* 1, is *Menispernum rufescens.*)

Sometimes glabrous, sometimes villose. *Leaves* in some specimens reniform, in others, subrotundo-cordate, in others ovato-cordate; costa generally terminated by a short flexible cuspis. *Specimens* in Sir Jos. Banks's herbarium, from Aublet; gathered by Prof. Jacquin in Martinico, leaves glabrous and emarginate; by Patr. Browne in Jamaica; by Mr. Ryan in the West Indies; from Soc. nat. leaves much thinner.—*Male plant.* *Stem* tomentose. *Leaves* cordate, with a short cuspis at the end. *Cymes* lateral. *Flowers* less than one twelfth of an inch broad. *Calyx* villose underneath, sometimes slightly villose on the inside towards the margin; segments lanceo-lato-ovate. *Corolla* shorter than the calyx, orbicular, with 4 obsolete angles, not perforated at the base. *Anthera* quadrilocular, with 4 obsolete angles; each side bordered with a cell. *Obs.* 8588. Specimen gathered by Broughton in Jamaica.—*Bracteae*, outer hirsute, similar to one of the segments of the calyx of the male flowers; inner somewhat shorter than the outer, reniform-ovate, glabrous, similar in structure to the corolla of the male flowers. *Pistil* as long as the inner bractea. *Germen* ovate, hirsute. *Style* half as long as the germen. *Drupe* monospermous, rugose. *Obs.* 8589.

*CAAPEBA.* *Raii hist.* ii. 1331. *Marcgr.* 25,  
repr. in *Pis. bras.* 94; *ind.* 261, &

*Caapeba*, sive *Convolvulus colubrinus*. *Pis. ind.* 312.

*C. Pareira.* *Wright in med. journ.* viii. 242.

(What is there said on the authority of Geoffroy belongs to *Menispernum rufescens*.)

Velvetleaf. *Long.* iii. 760.

Velvetcroot. *Graig.* 56. 66.

## D I A N D R I A.

### 904. CECROPIA.

*Calyx* of the male flowers turbinate, with 2 orifices at the end; that of the female flowers infundibuliform, bifid at the end; segments roundish. *Corolla* none. *Stamina* passing through the orifices of the calyx. *Germen* didymous. *Stigma* simple. *Berry* monospermous. *From Juss.* 402, *Jacq.* & *L.*

1. **CECROPIA peltata.** Leaves tomentose underneath, sericeo-hirsute above. *Obs.* 8874. Specimen of the leaves gathered by Dr. Wright in Jamaica.—*L. a Willd.* iv. 651; *am. v.* 410; *sp.* 1449; *mant.* 499. *Hort. kew.* iii. 388. *Jacq. obs.* ii. 12. *t.* 46. *f.* 4. The spatha which contains the male spikes; *amer.* 8vo, 333.

*Yaruma de Oviedo.* *Sloane cat.* 45; *hist.* i. 137. *t.* 88. *f.* 2. *t.* 89. Leaves.

*Ficus surinamensis*, multifido folio superna parte adnodium scabro aversa densa lanugine molli. *Pluk. alm.* 146; *phyt.* *t.* 243. *f.* 5.

**COILOTAPALUS.** *Browne, Patr.* 111.

2. CECROPIA *palmata*. Leaves tomentose underneath, glabrous above. *From L. a Willd.* iv. 652.

*AMBAIBA*. *Marcgr.* 91, repr. in *Pis. bras.* 72,  
& cop. in *ind.* 147.

*Ambaiba brasiliensis*. *Raii hist.* ii. 1373.

### 905. SALIX.

*Flowers bracteate. Calyx and corolla none. Nec-tarium 1, 2, and 4, glandular. Stamina 1 to 7, mostly 2. Sitzmata 2. Capsule unilocular, bi-valve. Seeds pappose. Obs. 2779. L.*

#### 1. *Leaves entire at the margin, villose.*

11. SALIX *aegyptiaca*. Leaves lanceolato-oblong, glabrous and shining above, sericeo-pubescent underneath. Capsules ovate, tomentose. *From L. a Willd.* iv. 686; *sp.* 1444; *mant.* 499.

*CALAF* seu *Ban.* *Alp. cum Vosl.* 35. t. 15, cop. in *Bauh. J. i. pars* ii. 220.

#### 2. *Leaves serrate, glabrous.*

22. SALIX *nigra*. Leaves lanceolate, acuminate. Petioles short, pubescent. Flowers appearing with the leaves. Stamina 4 to 6. Germen pedunculate, subulate, glabrous. *From L. a Willd.* iv. 657, *Marsh.* 139,

*S. caroliniana*. *Michaux* ii. 226, &

*S. pentandra*. *Walt.* 243.

*SALIX* foliis anguste lanceolatis utrinque glabris serratis breviter petiolatis. *Schoepf* 147.

3. *SALIX pendula*. Leaves lanceolate, acuminate, glaucous underneath. Branches pendent. *Obs.* 430. In a pleasure ground.—*Sal. R. hort.* 393.

(*Garab maurorum*. *Dalech.* ii. *app.* 30, *cop. in Garb maurorum*. *Bauh. J.* i. *pars.* ii. 221, has deltoideo-lanceolate leaves.)

*SALIX babylonica*. *L. sp.* 1443. *Hort. kew.* iii. 390.—*Lour.* ii. 747.

4. *SALIX fragilis*. Leaves lanceolate, acuminate. Petioles glanduliferous at the end. Nectaria of the male flowers 2. From *Obs.* 1472, in leaf, without fructifications, & *Smith brit.* iii. 1051; *engl. t.* 1807. *L. suec.* n. 883; *sp.* 1443, (specific character and reference to Fl. lapp. belonging to *S. amygdalina*.) *Bot. arr.* ii. 1102. *Lightf.* ii. 597. *Huds.* 426. *Woodv.* iii. 542. *t.* 198.

*S.* foliis serratis glabris lanceolatis acuminatis appendiculatis. *L. lapp.* 282, under n. 349. *Roy:* 83.

*S.* folio amygdalino utrimque virente aurito. *Tourn. paris.* 356. *Vaill. paris.* 175. *Boerh.* ii. 210.

*S.* folio longo latoque splendente, fragilis. *Raii syn.* 448.

*S.* folio lato splendente, fragilis. *Raii hist.* ii. 1420; *cant.* 143.

The crack Willow. *Evel. by Hunt.* i. 238. *t.* The branch with leaves.

*S. purpurea nigra viminalis*. *Dalech.* i. 276, *cop.* in

- S. viminalis nigra.* *Park. theatr.* 1430, &  
*S. spontanea fragilis, amygdalino folio, auriculata et*  
*non auriculata.* *Bauh. J. i. pars ii.* 214.  
**SALIX** *fragilis.* *Coste & Willem. in med. comment.*  
 v. 298. *Gunz, account from in phys. journ.* i. 194.  
*Lew. disp. by Dunc.* 300. 347. *Murr.* i. 47.  
*Pears. R. ed. ii.* 393. *Ploucq. bibl.* i. 354. 516.  
*S. nigra.* *Dale* 284.  
*Salix.* *Pharm. suec.*

5. **SALIX pentandra.** Leaves elliptic, shining above. Stipulae glandular, minute. Petioles glandiferous at the end. Stamina 3 to 8. Last year's branches shining. *Obs.* 8897. On the side of a brook between Balborough and Harthill in Derbyshire.—*Obs.* 8896. Below Mr. E. Knight's walks at Wolverley near Kidderminster in Worcestershire, apparently wild.—*Obs.* 2753. Garden at Cann hall near Bridgnorth in Shropshire. A female plant.—*L. lapp. n.* 370. *t. 8. f. z;* *suec. n.* 879; *sp.* 1442. *Bot. arr. ii.* 1101. *Smith brit.* iii. 1046; *engl. t.* 1805; *in lin. tr. vi.* 120. *Huds.* 426. In Coomb wood in Surry.—*Lightf.* ii. 595. In woods about Inverary, & Roslin near Edinburgh, and on the sides of the road between Moffat and the Lead hills!

*Salix.* *L. ups.* 295.

*S. foliis serratis glabris ovatis acutis subsessilibus.*  
*Roy:* 83.

*S. montana major, foliis laurinis.* *Boerh.* ii. 210.  
*S. folio laureo seu lato glabro odorato.* *Raii hist.* ii.  
 1420; *syn.* 449. In Westmorland, and the mountainous parts of Yorkshire.

(*S. spontanea*, folio amygdalino, fragilis non auriculata. *Bauh. J. i. pars ii.* 214, is *S. fragilis*.)

*Branches* of last year's growth glabrous, whitish brown. *Stipulae* minute globular sessile glands at the base of the petioles. *Bracteae* lanceolato-oblong, villose at the base, serrate at the end; teeth 3, 4, and 5. *Nectaria* fleshy, orangecoloured, 2 and 4, unequal, surrounding the stamina, sometimes 1, nearly and entirely annular, oblique, semiquinquefid, segments unequal. *Filaments* united and villose at the base. *Obs. 3715.* In a garden.—*Nectarium of the female flowers* 1, between the germen and the rachis. *Obs. 2753.*

*SALIX pentandra*. *Cull. ii. 116.* *Gunz, account from in phys. journ. i. 194.* *Lew. disp. 347.* *Murr. i. 47.* *Schreb. ap. Linn. 253.*

*S. laurea*. *Berg. ii. 787.*

### 3. Leaves serrate, mostly glabrous.

6. *SALIX triandra*. Leaves lanceolate, slightly villose when young. Petioles without glands. *Stipulæ ovatæ*, serrate, or very minute. *Nectaria* of the male flowers 2 and 3. *Stamina* 2 and 3. *Obs. 2779.* Near Kidderminster in Worcestershire.—

*L. sp. 1442.* *Bot. arr. ii. 1100.* *Curt. lond. vi. 72. t. 432.* *Smith brit. iii. 1044;* *engl. t. 1435.*

*S. foliis elliptico-lanceolatis utrinque glabris serratis appendiculatis.* *Gmel. sib. i. 155. t. 34. f. 3.*

*SALIX triandra*. *Coste & Willem. in med. comment. v. 298.*

### 4. Leaves serrate, villose.

7. *SALIX alba*. Leaves lanceolate, serrate, glabrous

above, pubescent underneath; the younger pubescent above, silky underneath. Bracteae oblong. Nectarium of the female flowers subrotundo-ovate, obtuse, truncate; its length equal to half the breadth of the bractea. Style none. Stigmata bifid. Germen glabrous. Obs. 4740. A tree 30 feet high on the west side of the road between Wingerworth and Tupton near Chesterfield.—*L. suec.* n. 903; sp. 1449. *Bot. arr.* ii. 1108. *Smith brit.* iii. 1071.

*S. alba perticalis vulgaris.* *Dalech.* i. 275, cop. in  
*S. maxima fragilis alba hirsuta.* *Bauh. J. i. pars*  
ii. 212.

*S. vulgaris alba arborescens.* *Tourn. paris.* 356.  
*Vaill. paris.* 175. *Boerh.* ii. 210. In Holland.

*S. folio utrinque glauco, viminibus albidiioribus.* *Raii cant.* 142.

*S. Dioscoridis.* *Lob. obs.* 567, *repr. in ic.* ii. 136,  
cop. in

*S. arborea angustifolia alba vulgaris.* *Park. theatr.*  
1430, & *repr. in*

*Salix.* *Dod.* 831, & *Ger. by Johns.* 1389. *Trag.*  
1077. *Blackw. t.* 327.

Spikes oval, lateral. *Bracteae* oblongo-lanceolate, acute, hirsute, the upper half blackish brown, the middle crimson, the lower half whitish; hairs nearly as long as the bracteae. *Stamina* 2, twice and  $1\frac{1}{2}$  as long as the bracteae. *Nectarium* oblongo-quadrata. Obs. 7278.

*SALIX alba.* *Coste & Willem. in med. comment.*  
v. 298. *Cull.* ii. 115. *Cutl.* 491. *Geoffr. suite* ii.  
322. *Gunz, account from in phys. journ.* i. 194.  
*Pears. R. ed.* ii. 356. 392. *Stoll med.* iii. 430.

*S. alba vulgaris.* *Stone in ph. tr.* liii. 195, & *abr.*  
*by Hutt.* xii. 1.

- S. vulgaris. *Pharm. austriaco-prov.* 63.
- Salix. *Dale* 284. *Mill. Jos.* 385. *Murr.* i. 44. *Lew.* ii. 322; *disp. by Dunc.* 347. *Linn.* 253. *Rulty* 453. *Schumacher*, account from in *phys. journ.* vii. 81, & *med. rev.* vii. 280. *Schrod.* 669. *Vog.* 117. 295.
- Common Willow. *Beckett*, account from in *med. rev.* vii. 52.
- Willow. *Loeffler*, account from in *chir. rev.* i. 168; ix. 361.
- Saulx. *Chom.* 821; *suppl.* 212.
- $\delta$  *vitellina*. Branches yellow. *Obs.* 4741. On the side of a pool at Edmonton near London.
- S. foliis linear-lanceolatis acuminatis. *Guett.* i. 206.
- S. folio longo angusto acuto leviter serrato supra viridi infra albescente, viminibus luteis. *Boerh.* ii. 210.
- S. folio longo subluteo, non auriculata; viminibus luteis. *Raii syn.* 450.
- Salicis genus secundum. *Fuchs.* 329. c. 127, cop. in
- S. lutea tenuior sativa viminea. *Bauh. J.* i. pars ii. 214. *Raii hist.* ii. 1421.
- SALIX vitellina*. *L. sp.* 1442, judging from the references to Casp. *Bauh. Hall.* and *Guett.* (the specific character from L. *ups.* 295, belonging to S. *pentandra*.) *Bot. arr.* ii. 1101. *Smith brit.* iii. 1050; *engl. t.* 1389.—*Gunz*, account from in *phys. journ.* i. 194.
- Salix. *Lew. by Dunc.* 347.
- $\gamma$  *rubens*. Branches red. From
- S. folio utrinque glauco, viminibus rubris. *Raii cant.* 142, &

**S.** folio longo sublato non auriculata; viminalibus rubris. *Raii syn.* 450.

Salicis primum genus. *Fuchs.* 329. c. 127, cop. in

**S.** rubra minime fragilis, folio longo angusto. *Bauh.*

*J. i. pars.* ii. 215. *Raii hist.* ii. 1421.

**SALIX** rubens. *Dale* 284.

**8. SALIX flava.** Leaves lanceolate, acute, petiolate, pubescent above, tomentose and glaucous underneath. *L. a Gmel.* ii. 74, from

**SALIX** foliis petiolatis lanceolatis acutis tenuissimè serratis supra pubescens viridibus subtus tomentosis glaucis. *Schoepf* 147.

**9. SALIX ulmifolia.** Leaves oval-elliptic; nearly glabrous above, tomentoso-villoso underneath, obsoletely serrate. Branches of the last year's growth glabrous. *Obs.* 4815. In a lane.

**S.** foliis obscure crenatis utrimque villosis. *L. lapp.* n. 565. t. S. f. s.

The crack Willow. *Evel. by Hunt.* i. 238. t. a. a. male flowers; f. f. female flowers, (the name, descr. and branch with leaves belonging to **S. fragilis**.)

**S.** foliis ovatis rugosis subtus tomentosis sursum denticulatis. *Roy.* 83.

**S.** latifolia rotunda. *Raii syn.* 449.

**S.** platyphyllos leucophlaeos. *Dalech.* i. 276. No fructifications.

**S.** platyphyllos leucophlaeos *Dalechampii.* *Dalech.* i. 276.

Seilweiden. *Trag.* 1078.

**S.** latifolia inferne hirsuta. *Bauh. J. i. pars* ii. 215. *Raii hist.* ii. 1422.

*Branches* of last year's growth tough, greenish black, young branches pubescent. *Stipulae* minute, subrotundo-ovate, villose. *Obs.* 4815.—*Branches* glabrous below, pubescent above. *Floral buds* axillary, ovate, compressed, containing the amenta of the ensuing year. *Obs.* 8535. From the same tree with 8462. *Aug.* 2. *Branches* glabrous, purplish brown. *Spikes* lateral, ovali-ovate. *Peduncles* several times shorter than the spikes. *Floral leaves* sparse, lanceolate, glabrous above, sericeo-pilose underneath. *Bracteae* ensiformi-lanceolate, twice as short as the bracteae of the spike, pilose on both sides; lower half whitish; upper half blackish rufous; hairs whitish somewhat shorter than the calyx. *Stamina* 2, twice as long as the bractea. *Nectarium* glandular, parallelopipedal, compressed, yellowish green, shorter than the breadth of the calyx. *Obs.* 8462. *Ap.* 9. Leaves not come out.

*SALIX caprea.* *L. suec.* *n.* 900  $\alpha$ ; *sp.* 1448.  $\alpha$ .

*Bot. arr.* ii. 1106. *Smith brit.* iii. 1067; *engl. t.*

1488. *Honck.* i. *n.* 44.—*Geoffr. suite* ii. 324.

*Ganz*, account from in *phys. journ.* i. 194.

*S. latifolia.* *James*, account from in *chir. rev.* ix. 165. *Wilkinson, G.* account from in *phys. journ.* x. 374. 402; xi. 400; xii. 372, & *chir. rev.* ix. 164.

*Salix.* *Pharm. lond. noviss.*

Broadleaved Willow bark. *White, W. of Bath*, account from in *chir. rev.* v. 467.

Common Willow. *Rackett*, account from in *chir. rev.* vii. 311.

## 906. DACRYDIUM.

*Bracteae* of the male flowers cordate. *Calyx* and *corolla* of the male flowers none. *Antherae* sessile. *Nut* encompassed at the base by a calyciform receptacle. *From Cycl. xi. part i. Sol.*

Female flowers unknown.

1. DACRYDIUM *cupressinum*. *Forst. G. austral. n.* 361;—*esc. 80. Cycl. xi. part i.*

## T R I A N D R I A.

## 907. JUNIPERUS.

*Male flowers bracteate. Calyx* of the female flowers polyphyllous. *Corolla* of the female flowers tripetalous. *Drupe* trispermous, formed from the pistils and corolla. *Obs. 8407. L.*

1. JUNIPERUS *Sabina*. Leaves opposite and in threes, decurrent, linear and triangular, acute, obsoletely sulcate underneath, oleiferous in the middle. Stem fruticose. *Obs. 8366. In a garden.—L. a Willd. iv. 852; sp. 1472. Hort. kew. iii. 414. Gou. hort. 510; monsp. 140. 429. Scop. carn. ii. n. 1228. Woodv. ii. 256, t. 94. Host austr. 537. In Istria, and the Venetian islands.*

- J. foliis oppositis erectis decurrentibus, oppositionibus pyxidatis. *All. nic.* 204.
- Sabina folio tamarisci Dioscoridis. *Boerh.* ii. 207.
- Sabina folio cypressi. *Boerh.* ii. 207.
- Sabina cupresso similis. *Dalech.* i. 182.
- Sabina altera. *Dod.* 843, *cop. in*
- Sabina baccifera major. *Park. theatr.* 1027, & *repr. in*
- Sabina genuina baccifera atrocaerulea. *Lob. obs.* 625; *ic.* ii. 219, &
- Sabina baccifera. *Ger. by Johns.* 1376. *Math.* i. 123. *Bauh. J.* i. *pars* ii. 288, lower fig. near Tübingen in Suabia, *cop. from*
- Savina, vel Sabina. *Fuchs.* 156. c. 54.
- Sabina tamarici similis. *Dalech.* i. 182, *cop. in*
- Sabina sterilis. *Bauh. J.* i. *pars* ii. 288, upper fig. —*Ger. by Johns.* 1376, *repr. from*
- Sabina. *Dod.* 842, which *abr. in Park. par. t.* 605. f. 6, *repr. in Lob. obs.* 625, &
- Sabina vulgatior. *Lob. ic.* ii. 219, & *cop. in*
- Sabina vulgaris. *Park. theatr.* 1027. *Raii hist.* ii. 1415.
- Sabinæ alterius altera icon. *Dod.* 843, *repr. in*
- Sabina baccata-altera. *Lob. obs.* 626; *ic.* ii. 220, & *Ger. by Johns.* 1377, & *cop. in Dalech.* 183; & *Park. theatr.* 1027.
- Stem 10 feet long, nearly erect. Leaves triangular, adnate at the base, those of the longer and stronger shoots erecto-patulous, those of the smaller shoots erect; the points loose. Berries oval. Obs: 8366.
- SABINA.** *Blackw.* t. 214.—Savine. Leaves. *Pharm. lond.* & *noviss.*—*Aitk. midw.* 131. *Alst.*

- ii. 214. *Berg.* ii. 814. *Carth.* iii. 140. *Crowther*, account from in chir. rev. v. 247. *Cull.* ii. 366. *Dale* 280. n. 1. 2. *Earle* spine 37, & account from in med. rev. ii. 553. *Geoffr.* suite ii. 311. *Heb.* 94. *Herm.* i. 487. *Hill* 341. *Home, F. clin.* 385. *Lew.* ii. 286. *Linn.* 260. *Mill. Jos.* 382. *Monro* iii. 243. *Murr.* i. 41. *Quar. anim.* 305. *Russell, James* account from in phys. journ. viii. 471. *Rutty* 443. *Schrod.* 669. *Spielm.* 292. *Willeh, A.* diet 202.  
*J. Sabina.* Leaves. *Pharm. edin.*—*Lew. disp.* by *Dunc.* 241. *Murr. J.* i. 290. 374; ii. 87. *Pears. R.* i. 293; ii. 181.  
*Savine.* *Ricards in phys. journ.* ix. 374. *Und. i.* 193.  
*Savin.* *Petit in ac. surg.* 312.  
*Sabin.* *Monro, Don. sold.* ii. 262.  
*Sabine.* *Chom.* i. 163.

2. **JUNIPERUS communis.** Leaves in threes, patent, longer than the berries. *Obs.* 8364. Specimen gathered by Mr. Stokes in the neighbourhood of Reethe near Richmond in Yorkshire.—*L. suec.* n. 915; sp. 1470  $\alpha$ . *Bot. arr.* ii. 1129. *Smith brit.* iii. 1085. *Link trav.* 84. 395. In Spain and Portugal.—*Woodv.* ii. 259. t. 95. *Asso* n. 965. *Mill. J. ill. t.* *Thunb. trav.* iii. 82. In Japan.  
Native of Europe from Spain to Lapland, and of Japan.

**JUNIPERUS.** Juniper. Berries, and tops. *Pharm. lond.* & *noviss.*—*Bang in ac. haun.* i. 6. 12. *Alst.* ii. 257. *Berg.* ii. 809. *Carth.* iii. 205. 481. *Cull.* ii. 186. *Dale* 280. *Geoffr.* iii. 632. *Herm.* i. 281. *Hill* 486. *Lew.* ii. 21. *Linn.* 260.

- Mill.* *Jos.* 249. *Monro* iii. 150. *Murr.* i. 34.  
*Ploucq. bibl.* i. 11. 421. 484. 653. 659. 652. *Quar. febr.* 150. 182; *anim.* 313. *Rutty* 257. *Schrod.* 609. *Spielm.* 272. *Swiet.* iv. 258. *Vog.* 254.  
*J. communis.* Berries. *Pharm. edin.*—*Bry.* 165.  
*Lew. disp. by Dunc.* 240. *Murr. J.* i. 305. *Pears. R.* i. 227; ii. 180.  
*Juniper.* *Chalm.* ii. 157. *Clegh.* 224. *Darw.* ii. 274.  
*Genievre.* *Chom.* i. 197. 280; *suppl.* 92.  
**OLEUM JUNIPERI.** *Willich, A. diet* 201.  
*fruticosa*—*Hort. kew.* iii. 414.  
*J. vulgaris, seu minor.* *Park. theatr.* 1029, *cop. from*  
*Juniperus.* *Dod.* 840, *which repr. in Lob. obs.* 628;  
*ic.* ii. 222, & *Ger. by Johns.* 1372. *Vaill. paris.* 111. *L. lapp. n.* 376. In marshes.—*Blackw. t.* 187. *Trag.* 1074. *Fuchs.* 88. *fol. ed. repr. in* 80. c. 26, & *cop. in*  
*J. vulgaris, baccis parvis purpureis.* *Bauh. J.* i. *pars* ii. 293. *Raii syn.* 444.  
*J. vulgaris fruticosa.* *Tourn. paris.* 204.  
*J. minor.* *Dalech.* i. 67.  
*Leaves*  $\frac{4}{10}$  *tenths of an inch long.* *Berries* purple,  
 $\frac{2\frac{1}{2}}{10}$  *tenths of an inch long.* *Obs.* 8364.  
*arborescens.* *Hort. kew.* β. *L. suec.* β; sp. β  
*Stem* 10 feet long, erect. *Leaves* spinose at the end,  $\frac{4\frac{1}{2}}{10}$  *tenths of an inch long*, green underneath, above glaucous with a narrow green border. *Berries*  $\frac{2}{10}$  *tenths of an inch long.* *Obs.* 2655. In a garden.  
**SANDARACHA.** *Geoffr.* ii. 554. *Herm.* i. 641.  
*Murr.* i. 38.

Sandaraca. *Berg.* ii. 811. *Linn.* 260. *Vog.* 315.  
 Gummi Juniperi. *Carth.* iii. 365. *Rutty* 229.  
 Gum Sandarach. *Darw.* ii. 53.

3. JUNIPERUS *lycia*. Leaves in threes, imbricate, ovate, obtuse. *L. sp.* ii. 1471; *ed.* i. 1039. *Sal. IV.* 49. *Gou. hort.* 509; *monsp.* 139. 429. *Gmel. sib.* i. 182. *Woodv.* iii. 569. *t.* 106.

*J. foliis undique imbricatis ovatis obtusis.* *Roy.* 90.  
*L. mat. med. n.* 466. *Sauv. monsp.* 169. *n.* 75.  
*Gron. orient.* 132. *n.* 320. Found by Rauwolf in the isle of Calderona.

Cedrus phoenicea altera Plinii & Theophrasti. *Lob. obs.* 626, *repr. in ic.* ii. 221, &

Cedrus *lycia* altera. *Ger. by Johns.* 1375.

(Cedrus phoenicea media. *Lob. ic.* ii. 221, is *J. phoenicea*.

Specimens in Sir Jos. Banks's herbarium, gathered by Leche from Ph. Miller's herbarium, with yellowish brown ovate berries, approaching in habit to that of *Thuia*; another from Ph. Miller's herbarium; and a third with purplish round berries gathered by Pallas on the Altaic mountains in Siberia. A comparison of these with those of *J. phoenicea* in the same herbarium induced me to consider *J. lycia* and *phoenicea* as the same plant.

OLIBANUM. Gum resin. *Pharm. lond.* & *no-  
tiss.*—*Alst.* ii. 452. *Berg.* ii. 812. *Carth.* iii. 360.  
*Cull.* ii. 187; *pract. n.* 1163. *Dale* 348. *Geoffr.* ii. 549. *Heb.* 175. *Hill* 720. *Lew.* ii. 159. *Linn.* 261. *Mill. Jos.* 320. *Monro* ii. 393. *Murr.* i. 39. *Neum.* ii. 52. *Quar. anim.* 30. 47. 65. 102. 230.

233; febr. 320. 411; Rutty 363. Spielm. 318.  
 Vog. 422. Wintr. in M̄ad mon. i. 266.  
 Thus masculinum. Schrod. 749.  
 Thus. Herm. i. 645.  
*J. lycia.* Gum resin. Pharm. edin. — Lew. disp. by Dunc. 241. Pears. R. ii. 181.  
 Oliban. Chom. i. 297.

4. *JUNIPERUS phoenicea.* Leaves in threes, obliterated, imbricate, obtuse. L. sp. 1471; mant. 500. Gou. hort. 509; monsp. 139. 428; Hort. kew. iii. 415.
- J. folio cupressi*, major, fructu flavescente. Magn. monsp. 56. Varies much in size. Leaves acute and obtuse in the same plant; hort. 107. Leaves in young plants acute.
- J. major.* Clus. hisp. 99. Leaves connected as in Cupressus, repr. in
- J. major* Dioscoridis. Clus: hist. i. 38,
- Cedrus phoenicea media.* Lob. obs. 627, smaller in all respects than *J. lycia*; ic. ii. 221.
- Oxycedrus lycia.* Dod. 841, & Ger. by Johns. 1374, & cop. in
- Cedrus phoenicea*, folio cupressi. Park. theatr. 1031.
- Cedrus lycia retusa* Bellonio dicta. Bauh. J. i. pars ii. 300. Raii eur. 90, who thinks that this and *J. lycia* are the same.
- Thusa massiliensium.* Dalech. i. 59.
- Sabina baccifera.* Lob. adv. 447, repr. in ic. ii. 220.
- Monoecious. Smaller branches cylindric. Leaves so closely imbricate that the margins appear united

to the leaves on which they are incumbent. *Male flowers* terminal. *Berries* round, tawny, smooth, lateral. Obs. 8365. Specimen gathered by Broussonett probably near Montpelier.—Specimens in Sir Jos. Banks's herbarium gathered in Portugal in 1766, with shining yellowish brown fruit as large as a black cherry; sent from Spain by Ortega; gathered by Masson in 1778 in the Canaries in shady woods with round dull fruit from trees 12 feet high; and from the herbarium of Ph. Miller. These compared with those of *J. lycia* seem to justify the opinion of those who believe this and *J. lycia* to be the same.

*OXYCEDRUS.* Dale 281.  
Sandaracha, Geogr. ii. 554. Lew. ii. 23.  
Sandarach. Darw. ii. 53.

## 908. EMPETRUM.

*Calyx* inferior, tripartite, *Petals* 3. *Stigmata* 9.  
*Berry* with 9 and 11 seeds disposed in a circle.  
Obs. 6330. *Male flowers.* Obs. 6331. L.

1. *EMPETRUM nigrum.* Stem procumbent: L. sp. 1450; suec. n. 904. Bot. arr. ii. 1110. Gort. belg. foed. n. 816. Jacq. vind. 179. 298. Lightf. ii. 612. Smith. brit. iii. 1072; engl. t. 526. Mill. J. ill. t.

E. montanum, fructu nigro. Dill. ap. Raii syn. 444. Boerh. ii. 173. In Holland.

*Erica baccifera* procumbens nigra. Raii syn. ed. ii. 308. On the hills of Staffordshire Derbyshire and Yorkshire, and on high heaths.

*Erica I.* *Clus. pann.* 29, *repr. in*

*Erica coris folio XI.* *Clus. hist.* i. 45, &

*Erica baccifera procumbens.* *Ger. by Johns.* 1383,  
& *cop. in*

*Erica baccifera nigra.* *Park. theatr.* 1485.

*Erica baccifera Matthioli.* *Dalech.* 188. *Bauh. J.*  
i. *pars i.* 526.

(*Erica baccifera.* *Lob. ic.* ii. 213, is *E. album.*)

*Stem* woody, flexuous, ascending. *Leaves* linear, obtuse, flat on the upper side with microscopic aculei along the margin, convex underneath, with a pubescent white line along the keel, glabrous, evergreen, hollow, the inside green, shining. *Flowers* axillary, solitary, sessile. *Bracteae* 4, subrotundo-ovate, at the base of the flowers, imbricate. *Calyx*, whitish green tinged with brownish red; segments oval. *Petals* obovato-obcuneiform, brownish red, as long again as the calyx; margin minutely crenate at the end. *Stamina* 3. *Filaments* thrice as long as the petals. *Female flowers.* *Nectaria* 3, brownish red, alternating with the petals, possibly the rudiments of stamina. *Style* scarcely any. *Obs.* 6998. On the East moor between Beeley and Brampton in Derbyshire. 20 Apr.—*Berry* still green, with 11 seeds disposed in a circle. *Obs.* 6331. On the moors between Sheffield and Bakewell.

*Native of Britain from Warwickshire to the Highlands of Scotland.*

*EMPETRUM.* *L. lapp.* n. 379.

### 909. OSYRIS.

*Calyx* trifid. *Corolla* none. *Style* 1. *Stigma*  
roundish. *Berry* unilocular. *L.*

1. OSYRIS *alba*. Leaves linear. *Murr. ap. L. a*  
*Murr. 881; sp. 1450. Hort. kew. iii. 394. Honck.*  
*i. 253. Gou. hort. 502; monsp. 434. Scop. carn.*  
*ii. n. 1215. Host austr. 531. Asso n. 953. Mill.*  
*Ph. dict.*

*Casia latinorum. Alp. exot. 41. t. 40.*

*Cassia monspelii dicta. Cam. epit. 26, cop. in*

*Cassia poetica monspeliensium. Magn. monsp. 54.*

*Park. theatr. 452. Lob. adv. 185, repr. in ic. i.*  
*433.*

*Casia quorundam. Clus. hisp. 182, repr. in hist. i.*  
*91, &*

*Casia poetica. Ger. by Johns. 1293. In fruit.—*  
*Raii hist. ii. 1489; eur. 89. In Italy, and about*  
*Montpelier.*

*Cassia lignea maritima. Dalech. ii. 1385, cop. in*

*Polygonum marinum angustifolium. Bauh. J. i.*  
*pars. i. 460. No fructifications.*

*Casia lignea monspeliensium. Bauh. J. i. pars i.*  
*458. No fig.*

*OSYRIS. Dale 295.*

2. OSYRIS *ovata*. Leaves ovate, floriferous. *Thunb.*  
*jap. 31.*

## 910. STILAGO.

*Calyx urceolate. Corolla none. Stigmata sessile.*  
*Drupe. Nut bilocular. Hort. kew. L.*

1. STILAGO *diandra*. Stamina 2. *L. a Willd. iv.*  
*714.—Roxb. ii. 35. t. 166.*

2. STILAGO *Bunius*. Stamina 3. *L. a Willd.* iv. 714; *mant.* 122; *a Murr.* 820. *Hort. kew.* iii. 394.

*BUNIUS sativa*. *Rumph.* iii. 204. t. 131.

### 911. EXCOECARIA.

*Calyx* diphylloous and triphyllous. *Corolla* none.

*Capsule* tricoccous. *From Swartz. occid.* ii. 1119.

*L.*

*Gymnanthes*. *Swartz. prodr.* 95.

1. EXCOECARIA *Agallocha*. Male flowers sessile, female flowers racemose. Leaves ovate, rather acute, crenate. *From Swartz. occid.* ii. 1121. Native of the East Indies, Amboina, and Ceylon.—*L. sp.* 1451. *Gaertn.* ii. 126. t. 108. *Willd.* account from in *phys. journ.* ii. 295. t. at p. 201, male plant; *b* a spike; *cop.* from *ARBOR EXCOECANS*. *Rumph.* ii. 237. t. 79. 80.

2. EXCOECARIA *Camettia*. Flowers sessile, female flowers spicate. Leaves ovato-oblong, rather acute; margin entire. *L. a Willd.* iv. 864, from *CAMETTI*. *Rheede v.* 89. t. 45.

### 912. CATURUS.

*Calyx* of the male flowers none, of the female flowers tripartite. *Corolla* of the male flowers trifid; of

the female flowers none. Styles 3. Capsule tricoccaus. L.

1. CATUS *spiciflorus*. Spikes axillary, pendulous.  
*L.* mant. 127.—*Burm. N. ind.* t. 59. f. 1.  
(Watta-Tali. *R'eede v.* 63. t. 32, has berries.)  
*CAUDA FELIS agrestis alba.* *Rumph.* iv. 84. t. 37. f. 2.

### 913. PHOENIX.

*Calyx triangular. Petals 3. Drupe monospermous.* Obs. 5641. Roxb. i. 53. t. 74. L.

From the 5th and 7th figures in Roxb. t. 71, the styles appear to be 3, and from fig. the 8th the ger- men to have 3 cells and 3 seeds, only 1 of which comes to maturity.

1. PHOENIX *dactylifera*. Folioles linear-lanceolate.  
From *L.* a Willd. iv. 750; à Gmel. ii. 95; sp. 1658. Hort. kew. iii. 476. Gou. hort. 544. Guertn. i. 23. t. 9.

Palma subcinerea, foliis brevioribus pinnatis quasi modo confertis infimis brevissimis et in spinas quasi redactis. Browne, Patr. 344.

Palma hortensis. Kaempf. am. 668. t. 1. 2.

Palma dactylifera. Kaempf. am. 659. t. at p. 673.

Palma. Raii hist. ii. 1352. Bauh. J. i. pars i. 351. Trag. 1053. Dalech. i. 362, cop. in Dod. 807, which repr. in Ger. by Johns. 1517, Lob. obs. 637, & ic. ii. 234, & cop. in

Palma vulgaris et legitima. Park. theatr. 1546.

- Dactyli cum Palma Elate. *Matth.* i. 221, *cop. in*  
 Palma Elate. *Dalech.* i. 363, &  
 Palmarum fructus et flores cum Elate. *Dod.* 807,  
 which repr. in *Ger. by Johns.* 1517,  
 Palmarum fructus, sive Dactyli, et ejus flores. *Lob.*  
*obs.* 637, & *ic.* ii. 234, & *cop. in*  
 Palma spatha cum fructu et floribus. *Park. theatr.*  
 1546.  
 Palmae arbor cum foliis & ramo. *Stap.* 99, with a  
 fig. of the fruit and a seedling plant.  
*Calyx* triangular. *Obs.* 5641. Specimen in fruit  
 gathered in the Schoenbrun garden.  
**DACTYLUS.** *Blackw. t.* 202.—*Pharm. austriaco-*  
*prop.* 35.—*Alst.* ii. 282. *Lew. disp.* by *Rother.*  
 153. *Linn.* 281. *Mill. Jos.* 172.  
 Dactyli. *Berg.* ii. 877. *Carth.* ii. 188. *Herm.* i.  
 387. *Murr.* v. 6. *Rutty* 163. *Spielm.* 85. *Vog.*  
 253.  
 P. dactylifera. *Bry.* 255. *Pears R.* i. 64. *Wright*  
 in *med. journ.* viii. 295.  
 Palmulae et Dactyli. *Geoffr.* ii. 291.  
 Palma. *Dale* 269. *Schrod.* 640.  
 Palma major. *Lew.* ii. 177.  
 Dates. *Fordyce, G. fev.* iii. 194.

2. **PHOENIX farinifera.** Folioles linearisubulate.  
 Stamina 6. *From L. a Willd.* iv. 731.  
 P. pusilla. *Lour.* ii. 753. *Gaertn.* i. 24. *t.* 9.  
**PHOENIX** farinifera. *Roxb.* i. 53. *t.* 74.

## 914. TROPHIS.

*Calyx* of the male flowers quadripartite, of the female

flowers none. Style bipartite. Berry monospermous. Obs. 8378. L. from Patr. Browne.

1. *TROPHIS americana*. L. am. v. 410; sp. 1451; a Murr. SS2. Swartz. obs. 372.

*Bucephalon racemosum*. L. sp. 1661.

*Trophis*. Browne, Patr. 357. t. 37. f. 1.

*Bucephalon fructu racemoso rubro*. Plum. ic. t. 67.

Spikes 2 together, axillary. *Calyx* brownish, pubescent; segments roundish. *Stamina* longer than the calyx. Obs. 8378. Specimen gathered by Dr. Wright in Jamaica.

*TROPHIS americana*. Bry. 215.

### 915. BATIS.

*Flowers* bracteate. *Calyx* and *corolla* none. *Stigma* sessile, bilobate. *Berry* tetraspermous. From Jacq. L.

1. *BATIS maritima*. L. sp. 1451; mant. 499. Jacq. amer. 269. t. 40. f. 4; 8vo 335. Swartz. obs. 373.

*Batis*. Browne, Patr. 356.

*KALI fruticosum coniferum*, flore albo. Sloane cat. 50; hist. i. 144.

*SODA*. Murr. iv. 288.

### 916. VIScum.

*Calyx* of the male flowers quadripartite, of the female

flowers superior, tetraphyllous. Corolla, filaments, and style none. Antherae growing on the calyx. Berry monospermous. Seed cordate. L.

1. **VISCUM album.** Stem dichotomous, leafy. Obs. 379. On Pyrus Malus, and I have observed it on Tilia europaea, Acer campestre, Platanus occidentalis, and Crataegus monogyna.—L. suec. n. 905; sp. 1451. Woodp. iv. 150. t. 270. Bot. arr. ii. 1112. Found by T. F. Hill on yew.—Scop. carn. n. 1217. On the pine and oak.—Poll. ii. n. 926. Chiefly on Quercus Robur.—Mill. J. ill. t; Ph. dict. So rarely met with on the oak that when a branch of an oak tree hath any growing upon it, it is cut off, and preserved by the curious in their collections, but of these there are but few to be seen in England.—Spielm. mat. med. 397. Chiefly on pear trees about Strasburgh.

**Viscum.** Fuchs. 325. Trag. 949. Bauh. J. i. pars ii. 93. No fig. On appletrees and peartrees, both cultivated and wild, Crataegus Oxyacantha, and oak, sometimes on Tilia, Prunus spinosa, Abies, Ilex, hazel, and willow, and once on Amygdalus, maple, Populus tremula, Crataegus terminalis, Sorbus aucuparia, and medlar.—Raii cant. 177. On appletrees, and sometimes on whitethorn; cat. ed. ii. 307. Found by Jessop on an oak near Sheffield; hist. ii. 1583; syn. 464. Dalech. i. 17. Tab. ic. 963. Blackw. t. 184. Dod. 814, repr. in Lob. ic. i. 636, & Ger. by Johns. 1350, and cop. in

**Viscus quercinus.** Park. theatr. 1392.

**V. polycoccon.** Cam. ep. 556, Park. theatr. 1393.

*V. baccis albis.* *Tourn. paris.* 370. *Vuill. paris.*

204. *Boerh.* ii. 228. In Holland:

Mistletoe: *Ray leit.* 351. Found by Willisel on oak, ash, lime-tree, elm, hazel, willow, *Crataegus Aria*, *Rhamnus catharticus*, *Sorbus aucuparia*, apple-tree, crab-tree, and whitethorn.

Native of Europe from Italy to Sweden, and of England to Yorkshire. It is not enumerated in Lightfoot, but the mistle thrush is found in Pennant's fauna of Scotland prefixed to Lightfoot.

*VISCUM.* *Berg.* ii. 788. *Carth.* iv. 250. *Chom.*

ii. 360; *suppl.* 111. *Date* 313. *Geoffr. suite* iii.

338. *Linn.* 253. *Rutty* 545.

*Viscus.* *Pharm. suec.*—*Alst.* ii. 54. *Lew. disp.* by Rother. 262. *Murr.* i. 199. *Spielm.* 397.

*V. quercinum.* *Quar. anim.* 23.

*V. quernum.* *Fordyce, W.* *fragm.* 39. *Ploucq.* *bibl.* i. 355. 437. *Vog.* 278.

*Viscus quercinus.* *Cull. clin.* 75; *pract.* n. 1532,

*Frasér, account from in chir. rev.* xii. 431. *Horne,*

*F. clin.* 197. *Mill. Jus.* 454.

*Viscus quernus.* *Herm.* i. 237.

*Viscus albus.* *Gesenius,* account from in *phys. journ.* i. 184.

Mistletoe. *Lind hot clim.* 314. *Loeffler,* account from in *chir. rev.* ix. 360.

2. *VISCUM verticillatum.* Branches verticillate. Leaves spatulato-obovate, trinervose. *Obs.* 8587. Specimen gathered by Broughton in Jamaica.—*L. sp.* 1452.

*V. parasiticum*, ramulis verticillatis, foliolis obovatis trinerviis. *Browne, Patr.* 356.

*V. portulacae foliis, baccis croceis et racemosis.*

*Plum. sp. 17.*

*V. caule verticillato. Plum. ic. t. 258. f. 2.*

*Viscum. Sloane cat. 168.*

(*V. ramulis et foliis longis densissimis striatis et radiatis. Sloane cat. 168; hist. ii. 93. t. 201. f. 2.*  
has verticillate leaves.)

*Branches, 2 larger opposite. Leaves opposite,*  
obsoletely trinervose. *Obs. 8587.*

*VISCUM arboris limoniferae. Hillary 210.*

(Mistletoe. *Hughes barb.* 156, is described as having  
leaves abruptly pinnate.)

## 917. BRUCEA.

*Calyx tetraphyllous. Petals 4. Pistils 4, mono-*  
*spermous. From L. a Schreb. Lher.*

1. *BRUCEA ferruginea. Hort. kew. iii. 397.*

Wooginoos. *Bruce v. 69. t.* Hairs of the leaves  
not expressed.

Leaves pinnate; folioles oblongo-elliptic, acuminate at the end, nearly sessile; margin entire; veins and margins hirsutulous; hairs yellowish. Petiole and petiolules hirsutulous. Spikes interrupted; flowers glomerate. *Calyx tetraphyllous, hirsutulous;* phylla costate. Petals similar to and not very distinguishable from the phylla, somewhat smaller. Stamina 4. Nectarium glandular, in the center of the flower. *Obs. 8590.* Specimen gathered in the Edinburgh garden.

*BRUCEA antidisenterica. Pears. R. ed. ii. 369.*

Wooginoos. Aik. in Lew. ii. 489. Dunc. in med. comment. dec. II. v. 182.

## 918. GONUS.

*Calyx* tetraphyllous. *Petals* 4. *Germen* tetragonus. *Style* none. *Stigmata* 4. *Drupes* 4. *From Lour.*

Will probably prove to be the same genus with Brucea.

1. GONUS amarissimus. *Lour.* ii. 809.

Lussa Radja. *Rumph.* vii. 27. t. 15. Folioles serrate.

## 919. HIPPOPHAE.

*Calyx* of the male flowers bipartite, of the female flowers inferior, tubular, semibifid. *Corolla* none. *Style* 1. *Berry* monospermous. *Obs.* 2447 & from L.

1. HIPPOPHAE rhamnoides. Leaves lanceolato-linear, with lacerate scales on the upper surface. *Obs.* 872. In Mr. Ballard's garden.—*L. suec.* n. 906; sp. 1452. *Bot. arr.* ii. 1115. *Smith engl.* t. 425. Flowering branches not coloured; *brit.* iii. 1075. *Host austr.* 532. *Gort. belg. foed.* n. 818. *Mill. Ph. dict.* n. 1. *Roth germ.* i. 421. On the coast of Holstein; ii. *pars* ii. 526. *Retz. scand.* n. 1235.

Hippophae. *L. lapp. n.* 372. On the shores of the gulf of Bothnia.

Osyris rhanioides. *Scop. carn. ii. n.* 1216. On the coasts of Littorali.

Rhamnoides. *Boeth. ii.* 174. In Holland.

Rhamnoides fructifera, foliis salicis, baccis leviter flavescens. *Raii syn. 445.* ii. Found by Lister on the coasts of Lincolnshire and Kent, and by Lawson on the coast of Yorkshire.

Rhamnus salicis folio angusto, fructu flavescente.

*Raii hist. ii.* 1592. In sand near Ausburg and in gravel on the banks of the Rhine and Rhone.

Oleaster germanicus. *Cord. fol.* 186. p. 1. In gravelly soil on the banks of the Lech in Bayaria, and on those of the Danube from the mouth of the Lech to near Kelheim.

Rhamni species. *Cam. epit.* 81, cop. in

Rhamnus, vel Oleaster germanicus. *Bauh. J. i. pars ii.* 33. In gravel and sand on the banks of rivers in Switzerland, the country of the Grisons, at Lyons, and on Monte Baldo.

Rhamnus II. *Clus. hist. i.* 110, repr. in

Rhamnus 2 Clusii. *Ger. by Johns.* 1334; repr. in

Rhamnus primus Dioscoridis creditus. *Lob. obs.*

598; *ic. ii.* 180, & cop. in

Rhamnus primus Dioscoridis Lobelio, sive littoralis.

*Park. theatr.* 1007.

Rhamnus secundus. *Dod.* 743, on the coasts of Holland and Flanders, cop. in

Rhamnus secundus Dodonagi. *Dalech.* i. 140. No fructifications.

Leaves linear-lanceolate, rather obtuse and acute, scaly, blackish brown and the younger grey above,

whitish and the younger tinged with ferruginous underneath; scales orbicular, peltate, radiate, whitish, lacerate at the margin and with radiate hairlike segments, those of the upper surface mostly indistinct, those of the under surface contiguous and incutibent.

*Obs.* 5419. Specimen gathered in the Paris garden.

—Leaves spatulate, not long expanded. *Obs.* 2447. In a garden.

Native of the shores of the Adriatic, the eastern coast of England as far north as Yorkshire, the coasts of Flanders, Holland, and Scandinavia, the banks of the Rhone, Rhine, and Danube as far north as Alzburg, and as far west as Lyons, and on Monte Baldo. It does not appear to accompany salt springs.

*OLEASTER germanicus.* *Dale* 282; *Mill.* 282.

2. *HIPPOPHAE canadensis.* Leaves oblong, with stellate hairs on the upper surface. From *L. a Willd.* iv. 743; *sp.* 1153. *Mill. Ph. dict.* n. 2. *Donn* 232. *Méthaux* ii. 227.—*Marsh.* 60. Leaves linear-lanceolate,

## 920. MYRICA.

Male flowers bracteate. Calyx of the female flowers diphyllous. Corolla none. Styles 2. Berry monospermous. *Obs.* 5709. *L.*

Sometimes monoecious. *Bot. arr.* ii. 1116.

1. *MYRICA Gale.* Leaves obovato-lanceolate, serrate. Berries tricuspidate. *Obs.* 2742. Specimen gathered on the side of Aqualate meer in Staffordshire.—

*L. suec.* *n.* 907; *sp.* 1453. *Bot. arr.* ii. 1116. *Smith brit.* iii. 1076; *engl. t.* 562. *Fl. dan. t.* 327. *Roth. germ.* i. 421. In Bremen, Oldenburg, and Holstein; ii. *pars* ii. 528. *Gort. belg. foed.* *n.* 819. *Lightf.* ii. 614. *Michaux* ii. 227. From Hudson's bay to Pennsylvania.

Myrica. *L. lapp.* *n.* 373.

Gale, frutex odoratus septentrionalium. *Bauh. J. i.* *pars* ii. 224. *Boerh.* ii. 261.

Gale, frutex odoratus septentrionalium, *Elaeagnus* *Cordo.* *Raii syn.* 443.

*Elaeagnus.* *Cord. fol.* 12. *p.* 2.

Gagel germanorum. *Lob. adv.* 417, *repr. in* *Eleagnos Cordi.* *Lob. ic.* ii. 110, outer fig. inner fig. *repr. from*

Gagel germanorum. *Lob. obs.* 547, *which cop. in* *Rhus sylvestris*, sive *Myrtus brabantica aut anglica.*

*Park. theatr.* 1451, with the addition of a separate branch, & *repr. in*

*Chamelaeagnus.* *Dod.* 768, a male plant; 863 a female plant.

*Calyx* of the female flowers diphylloous; phylla very small. Stamina 4 & 6. *Obs.* 5709. Specimen gathered in the Highlands between Killin and Ben More.

Native of the north of France and Germany, of Holland, Britain, Scandinavia, and North America.

*GALE.* *Vaill. paris.* 77.—*Geoffr. suite* i. 110. *Murr. i.* 73.

*Elaeagnus.* *Dale* 280.

*Myrtus brabantica.* *Pharm. suec.*—*Berg.* ii. 790. *Lew.* ii. 122. *Linn.* 254. *Schoepf* 148. *Vog.* 133.

2. *MYRICA cerifera.* Leaves lanceolate, mostly

serrate. Berries spherical. *Obs.* 5711. Specimen gathered in Fothergill's garden. The account of the fruit from *Michaux* ii. 227. *L. sp.* 1453. *H. K.* iii. 396.

*MYRICA cerifera.* *Schoepf* 148.

$\alpha$  *arborescens.* Leaves lanceolate, serrate. Berries smaller. *From Michaux &*

*M. cerifera.* *L. a Willd.* iv. 745. *Mill. Ph. dict.* n. 2.

*M. foliis lanceolatis subserratis, fructu baccato.* *L. ups.* 295. *Gron. virg.* 155.

*Myrtus brabanticae similis carolinensis baccata, fructu racemoso sessili monopyreno.* *Pluk. alm.* 250; *phyt. t. 48. f. 9. Cat. i. t. 69.*

$\beta$  *media.* Leaves lanceolate, serrate and entire at the margin, broader than those of  $\alpha$ . Berries larger.

*From Michaux &*

*M. carolinensis.* *L. a Willd.* iv. 746. *Mill. Ph. dict.* n. 3.

*Myrtus brabanticae similis carolinensis humilior, foliis latioribus & magis serratis.* *Cat. i. t. 13.*

## PENTANDRIA.

### 921. PISTACIA.

*Corolla* none. *Calyx* of the male flowers quinquefid, of the female flowers trifid. *Styles* 2. *Drupe* monospermous. *L.*

1. PISTACIA *vera*.—Leaves simple ternate and pinnate. Folioles oval. *Hort. kew.* *L.* sp. 1454, apparently on the authority of *Gron. orient.* 312, who regards *P. narbonensis* and *Terebinthus peregrina* fructu minore et caeruleo eduli. C. B. as varieties of it.

*P. officinalis.* *Hort. kew.* iii. 398.

*P. Terebinthus.* *Mill. Ph. dict.* n. 1.

ꝝ (Variation.) Folioles ovato-subrotund. From  
*P. trifolia.* *L.* sp. 1454.

*P. foliis ternatis, mas.* *Roy.* 78.

*Pistacium mas siculum, folio nigricante.* *Bocc. mus.* ii. 139. t. 93.

Leaves as in the specific character, those of one of the specimens in fruit simple. Fruit like pistacia nuts. Specimens in Sir Jos. Banks's herbarium, gathered by Dr. Frere near Aleppo.

ꝝ *officinalis.* (Variation.) Folioles subovate, recurvate.  
From *L.*

*P. vera.* *Gou. hort.* 503. Fruit had ripened.

*Pistachia.* *Blackw. t.* 461.

*Terebinthus indica Theophrasti, P. Dioscoridis.* *Boerh.* ii. 173. *Magn. hort.* 192. *Lob. adv.* 413, in fruit, *repr. in ic.* ii. 100.

*Pistaciae.* *Cord. fol.* 198. p. 2, *cop. in*

*Pistaciorum arbor.* *Dalech. i.* 361. *Bauh. J. i. pars i.* 275. (mispr. 242.)

*Pistaciorum arbustum.* *Dod.* 805.

*Pistacii ramulus cum fructu et corniculis.* *Dod.* 805, *repr. in*

*P. cum corniculis.* *Lob. ic.* ii. 100, &

*Pistacia.* *Gér. by Johns.* 1436. *Raii hist.* ii. 1682.

Woods of it observed by Rauwolfff about Sermin and Aleppo.

Nux Pistacia. *Park. theatr.* 1417.

Auricula ursi orbiculata serrata, coloris rubicundi.

*Bauh. J.* iii. 868, (the name and descr. belonging to a different plant.)

Pistache. *Pom.* i. 227. *t.*

Pistachia tree. *Rauw. trav.* i. 193.

**PISTACIA.** *Pharm. austriaco-prov.* 57.—*Alst.*

ii. 313. *Berg.* ii. 791. *Diosc. l. l. c.* 178. *Geoffr.*

ii. 415. *Herm.* i. 374. *Linn.* 254. *Murr.* i. 74.

*Schrod.* 650.

P. vera. *Bry.* 363. *Pears. R.* i. 77.

Nux Pistacia. *Dale* 283. *Lew.* ii. 149.

Nuces Pistaciae. *Carth.* i. 327. *Mill. Jos.* 317.

*Rutty* 354. *Spielm.* 122.

Nux Pistachia. *Lew. disp. by Rother.* 205.

Pistaciae. *Vog.* 267.

2. **PISTACIA reticulata.** Leaves pinnate and ternate.

Folioles roundish, attenuate at the base, reticulato-venose, retuse, mucronate. *L. a Willd.* iv. 751.

(P. narbonensis. *L. sp.* 1454, is probably a variety of P. vera.)

**TEREBINTHUS** *indica*, prior Theophrasti. *Da-lech.* ii. *app.* 31, *cop. in*

Terebinthus indica major, fructu rotundo. *Bauh. J. i. pars* i. 278.

Terebinthus peregrina, fructu majore pistachiis simili eduli. *Boerh.* ii. 173.

Botn. *Rauw. trav.* 193.

3. **PISTACIA Terebinthus.** Leaves pinnate, with an odd foliole. Folioles ovato-lanceolate. *L. sp.*

1455. *Hort. kew.* iii. 398. *Gou. monsp.* 503.  
*Scop. carn.* ii. n. 1218. *Woodv.* iii. 415. t. 153.  
*Thornt.* t. 857. *Duham.* ii. t. 88, ripe fruit.

*P. vera.* *Mill. Ph. dict.* n. 4.

*P. foliis impari-pinnatis, foliolis ovato-lanceolatis.*  
*L. ups.* 296.

**Terebinthus vulgaris.** *Tourn. voy.* i. 145. *Boerh.*  
 ii. 173. *Magn. monsp.* 248; *hort.* 192.

**Terebinthus.** *Blackw.* t. 478. *Matth.* i. 111, with  
 fruit just formed, *repr. in Duham.* ii. t. 87. *Dalech.* i. 61, *cop. in Dod.* 858. *Raii eur.* 244. In  
 Tuscany, and about Montpelier.—*Clus. hisp.* 88,  
*repr. in hist.* i. 15, & *Ger. by Jöhns.* 1433, *cop. in*  
*Bauh. J.* i. *pars* i. 279, *repr. in*

*Terebinthi ramus cum corniculo.* *Dod.* 858, &

*Terebinthus cum flore.* *Lob. ic.* ii. 97, & *cop. in*

*Terebinthus angustiore folio vulgatiore, cum flore et*  
*corniculo.* *Park. theatr.* 1527. The long pod-  
 like substance at the end of the branch is a gall.

*Terebinthus lentiscifolia minor.* *Lob. adv.* 411, the  
 separate pinnate leaf.

**TEREBINTHINA chia.** Chian or Cyprus Tur-  
 pentine. *Pharm. lond.*—*Alst.* ii. 397. *Fotherg.*  
*J. in med. obs.* iv. 71. *Geoffr.* ii. 495. *Gouff.*  
*grece* i. 91. *Kirkl. apopt.* 97. *Lew.* ii. 415; *disp.*  
*by Dunc.* 282. *Mariti* i. 236. *Mead mon.* ii. 23.  
*Monro* ii. 349. *Wintr. in Mead mon.* i. 265.  
 266.

*P. Terebinthus.* *Murr. J.* i. 308. *Pears. R.* ii.  
 196.

*Terebinthus.* *Dale* 282. *Diosc. l. 1. c.* 92. *Mill.*  
*Jos.* 432.

- Terebinthina cypriæ. *Berg.* ii. 792. *Herm.* i. 664.  
*Linn.* 255. *Murr.* i. 75. *Schrod.* 735.  
Terebinthina e Chio & Cypro. *Rutty* 510.  
Terebinthina vera de Chio. *Spielm.* 329.  
Terebiuthina vera. *Carth.* iii. 392. *Herm.* i. 664.  
*Vog.* 307.  
Terebinthina. *River. obs. l.* i. c. 25.  
Chian Turpentine. *Neum.* ii. 8.  
Terebinthine de Chio. *Tourn.* i. 255.  
Terebinthe. *Chom.* i. 258.

4. PISTACIA *oleosa*. Leaves pinnate with and without an odd foliole. Folioles oyato-lanceolate. *Lour.* ii. 755.

5. PISTACIA *Lentiscus*. Leaves abruptly pinnate; folioles lanceolate. *L.* sp. 1455. *Hort. kew.* iii. 398. *Woodv.* iii. 412. t. 152. *Thornt.* t. 838.  
Lentisque. *Tourn. voy.* i. 375. In Provence, Languedoc, and the isle of Scio.

*Lentiscus vulgaris*. *Magn. monsp.* 153; *hort.* 114.  
*Boerh.* ii. 174. Female.

*Lentiscus vulgaris*, foliis minoribus et pallioridibus.  
*Boerh.* ii. 174. Male.

*LENTISCUS*. *Matth.* i. 109, repr. in *Duham.* i. t. 136. *Dalech.* i. 63. *Blackw.* i. 195. *Clus. hisp.* 85, repr. in *hist.* i. 14, *Dod.* 859, *Lob. ic.* ii. 96, & *Ger.* by *Johns.* 1432, & cop. in *Park. theatr.* 1525. *Bauh. J.* i. pars i. 285. *Raii hist.* ii. 1579; *eur.* 162. In Sicily, Italy, & the south of France.—*Berg.* ii. 794. *Carth.* iii. 207. *Dale* 283. *Lew.* ii. 51; *disp.* by *Rother.* 184. *Linn.* 255. *Mill.*

*Jos.* 263. *Murr.* i. 77. *Schrod.* 613. *Vog.* 281.

*P.* *Lentiscus.* Resin. *Pharm. edin.*—*Lew.* *disp.* by *Dunc.* 282. *Murr. J.* i. 221. *Pears. R.* i. 116; ii. 197.

**MASTICHE.** Mastich. Resin. *Pharm. lond.* & *noviss.*—*Alst.* ii. 415. *Carth.* iii. 363: *Chom.* i. 138. *Diosc. l.* I. c. 90. *Geoffr.* ii. 544. *Herm.* i. 642. *Lew.* ii. 93. *Linn.* 255. *Monro* ii. 362. *Neum.* ii. 24. *Mead mon.* ii. 148. *Quar. scbr.* 184. 209. 411. 412; *anim.* 65. 88. 102. 302. *Ploucq. bibl.* i. 558. 596. *Rutty* 311. *Schrod.* 725.

**Mastix.** *Berg.* ii. 794. *Hill.* 718. *Murr.* i. 77. *Spielm.* 316. *Vog.* 315.

**Mastic.** *Cull. pract. n.* 1163. *Darw.* ii. 128. 701.

**Mastick.** *Clegh.* 42.

**Gum Mastich.** *Monro, Don.* sold. 361.

**MASTIC OIL:** *Tourn. roy.* i. 167.

## 922. CANARIUM.

*Calyx* of the male flowers pentaphyllous, of the female flowers diphyllous. *Petals* 3. *Stigma* sessile. *Drupe* with a trigonous nut. *L.* a *Willd.* *L.*

1. **CÁNARIUM commune.** Folioles oblong, acute, entire at the margin. Panicle terminal. *L.* a *Willd.* iv. 759; *mant.* 127.

a *Calyx* represented as crenate in

*C. vulgare.* *Rumph.* ii. 145. *t.* 47. In fruit.

*C. Mehembethene.* *Gaertn.* ii. 98. *t.* 102.

*Avellana Mehembethene Cortusi species alia nuda et*

*vestita villo.* *Bauh. J. i. pars i.* 308. The 2 upper fruits.

*CANARE.* *Cook in Hawkesw.* iv. 349.

*zephyrinum.* Calyx represented as obsoletely dentate, in

*CANARIUM zephyrinum.* *Rumph. ii.* 151. *t.* 48.  
In fruit.

### 923. PICRAMNIA:

*Calyx* tripartite and quinquepartite. *Petals* 3 and 5.

*Berry* bilocular and trilocular. *From Swartz. occid. i.* 217. *t.* 4, where at f. the engraver has represented the berry as quadrilocular.

1. *PICRAMNIA triandra.* Stamina petals and segments of the calyx 3. *Obs.* 8475. Specimen gathered by Dr. Wright in Jamaica.

*Antidesma.* *Browne, Patr.* 123.

*Berberis fructu fruticosa racemosa, fraxini folio alato, fructu nigro dipyroeno.* *Sloane cat.* 170; *hist. ii.* 101. *t.* 209. *f.* 2. No fructifications.

*Leaves* pinnate, glabrous; folioles elliptic, acuminate, rounded at the point. *Spikes* interrupted, longer than the leaves. *Flowers* in roundish clusters. *Calyx* tripartite, pubescent without; segments oblongo-ovate, acute. *Petals* linear-lanceolate, acute,  $1\frac{1}{2}$  as long as the calyx, alternating with the segments of the calyx. *Stamina* somewhat longer than the petals. *Filaments* filiform. *Antherae* roundish. *Obs.* 8475,

*PICRAMNIA* Antidesma. Swartz. *occid.* i. 218.

### 924. ANTIDESMA.

*Calyx* pentaphylloous. *Corolla* none. *Antherae* bifid. *Stigmata* 5. *Berry* monospermous, cylindric. *From L. a Murr.* 885.

1. **ANTIDESMA zeylanicā.** Leaves elliptic, acuminate, nitid. Racemi in pairs, longer than the leaves. *From L. a Willd.* iv. 763, & *ANTIDESMA* spicis geminis. *Burm. J. zeyl.* 22. t. 10.
2. **ANTIDESMA alexiteria.** Leaves oblong, attenuate at the base, acuminate at the end, glabrous, nitid. Racemi axillary, solitary and in pairs, shorter than the leaves.  
*From L. a Willd.* iv. 762; *sp.* 1455. *Dönn* 232.  
*NOELI-TALI.* *Rheede* iv. 115. t. 56.  
Antidesma. *L. am.* i. *ed.* ii. 141, note from Noela-tali, seu Berberis indica, aurantiae folio. *Raii hist.* ii. 1606.
3. **ANTIDESMA pubescens.** Leaves ovali-elliptic, pubescent underneath. Racemi paniculate, terminal. *From L. a Willd.* iv. 763, & *Roxb.* Arbor indica ovali folio, flosculis plurimis in spicis summo ramiulo dispositis, acinifera. *Plak. mant.* 22; *phyt. t.* 339. *sol.* 22. *pl.* 1. Leaves slightly cordate at the base.  
*ANTIDESMA* pubescens. *Roxb.* ii. 35. t. 167.

## 925. SPINÁCIA.

*Calyx* of the male flowers quadripartite and quinquepartite, of the female flowers quadrifid. *Corolla* none. *Styles* 4. *Seed* 1, within the indurated calyx. *Obs.* 8901. *L.*

1. SPINACIA sessiliflora.—Fruit sessile. *L.*

*S. oleracea.* *L.* sp. 1456. *Mill. Ph. dict. n.* 1.  
*H. K.* iii. 399.

*Spinachia.* *Park. par. t.* 497. *f. 4.*

*SPINACIA.* *Schoepf* 149.

*S. oleracea.* *Bry.* 130. *Lour.* ii. 757. *Pears.* *R.* i. 52.

ꝝ *spinosa.* Fruit spinose. *Obs.* 2573. In a garden.  
—*L.*, *ꝝ.* *H. K.* *ꝝ*

*Spanachia, seu Spinacia.* *Fuchs.* 637, *c.* 260, *cop.*  
*in*

*Olus hispanicum.* *Trag.* 325, &

*Spinachia mas & foemina.* *Bauh. J.* ii. 964.

*Lapathum hortense.* *Munt. phyt. t.* 198.

Common Spinach. *Park. par.* 496.

Leaves sometimes sinuate. *Obs.* 5909. Specimen from an old herbarium.

*SPINACIA.* *Ger. by Johns.* 330. *Raii hist.* i, 162. *Dalech.* i. 544.—*Berg.* 796. *Dale* 68. *Linn.* 256. *Murr.* iv. 327.

*Spinachia.* *Mill. Jos.* 423. *Quar. febr.* 321. 371. 383. *Schrod.* 687. *Spielm.* 68.

*S. vulgaris, capsula seminis aculeata.* *Geoffr.* iii. 679.

*Epinars.* *Chom.* 716.

$\beta$  major. Much larger than  $\alpha$ . Seeds spinose. From Park. par. 496.

$\gamma$  inermis. Fruit unarmed. Obs. 3062. In a garden.

L.  $\beta$ . H. K.  $\beta$

S. glabra. Mill. Ph. dict. n. 2.

Spinachia semine non pungente, folio majore rotundiore. Bauh. J. ii. 964. Raii hist. i. 162.

Smooth Spinach. Park. par. 496.

Round Spinach. Ger. by Johns. 330. No fig.

Leaves triangular, in other plants rhombeo-hastate. Stamina 4, 2 flowering before the other 2. Seeds in some plants obsoletely spinose. Obs. 5910. In a garden.

**SPINACIA** vulgaris, capsula seminis non aculeata.

Geffr. iii. 681.

## 926. CANNABIS.

Calyx of the male flowers quinquepartite, of the female flowers monophyllous, gaping on the side.

Corolla none. Styles 2. Nut bivalve, within the closed calyx. From L. & Juss. Vent. tabl. t. 23. f. 2.

1. **CANNABIS sativa.** Nuts lenticulari-globose. Obs. 8893. Specimen gathered in a field.—L. sp. 1457; mant. 499. Hort. kew. iii. 400. Retz. scand. n. 1237. On rubbish.—Gaertn. i. 357. t. 75. Raii hist. i. 158; syn. 138. Roth germ. i. 422, on rubbish and in corn; ii. pars ii. 529. Jacq. vind. 174. On rubbish, in corn fields, and woods.—Park. theatr. 593, cop. from

- C. sterilis. *Dod.* 525, which repr. in  
 C. foemina. *Ger. by Johns.* 708. Male plant.—  
*Dalech.* i. 497. Male plant.—*Blackw.* t. 322.  
 Female plant.—*Bauh. J.* iii. pars ii. 448, cop.  
 from  
 C. sativa. *Fuchs.* 393. fol. ed. which cop. in 388.  
 c. 149.  
 C. foliis digitatis. *Mill. Ph. ic.* 51. t. 77.  
 C. mas. *Dalech.* i. 497. *Ger. by Johns.* 708, repr.  
 from  
 C. foecunda. *Dod.* 525. Female plant:  
**CANNABIS.** *Brunsf.* iii. 179. Male.—*Boerh.*  
 ii. 104. In Holland.—*Hall. hist.* ii. 288. n. 1616.  
*Matth.* ii. 929. *Tab. ic.* 547.—*Pharm. austriaco-*  
*prov.* 26. *suec.*—*Alst.* ii. 335. *Berg.* ii. 797.  
*Dale* 67. *Geoffr.* iii. 247. *Herm.* i. 367. *Lew.* i.  
 270; disp. by *Rother.* 126. *Linn.* 256. *Mill.* *Jos.*  
 107. *Murr.* iv. 608. *Rutty* 89. *Schoepf* 149.  
*Schrod.* 553. *Spielm.* 454. *Vog.* 158.  
 C. sativa. *Carth.* i. 336. *Chom.* ii. 494; suppl.  
 147. *Lew.* disp. by *Dunc.* 340.

2. **CANNABIS macrosperma.** Nuts oblong. From  
 C. indica. *Rumph.* v. 208. t. 77. f. 1. 2, who de-  
 scribes the seeds as somewhat resembling those of  
*Carthamus tinctorius*.

C. sativa. *Lour.* ii. 756.

Kalengi. Cansjava. *Rheede* x. 119. t. 60.

Tsjeru Cansjava. *Rheede* x. 121. t. 61.

Cannabi similis exotica. *Comm. Casp. mal.* 68.

Ketmia indica, cannabinis foliis, Bangue dicta. *Burm.*  
*J. zeyl.* 135.

Bangue, cannabi simile. *Bauh. J.* iii. 449. No  
 fig. Seeds compressed, acuminate, rufous.

*BANGUE.* *Raii hist.* i. 159. *Dalech.* ii. 1914,  
cop. in *Park. theatr.* 1624.—*Acosta ap. Clus.*  
*exot.* 290. *Dale* 68. *Garc. a Clus.* 219; *ap. Clus.*  
*exot.* 238. *Murr.* iv. 613.

*C. vulgaris.* *Hasselq.* 277.

*Haschich.* *Sonnini* iii. 93.

*Bang.* *Perciv. Rob. ceyl.* 152. 157, (who says that  
the plant which affords it, is a small shrub, with  
leaves like that of tobacco but not larger than those  
of sage.)

## 927. HUMULUS.

*Calyx* of the male flowers pentaphyllous, of the  
female flowers monophyllous, calyciform; margin  
entire, folded in. *Styles* 2. *Seed* 1, surrounded  
by the calyx. *Obs.* 6057. *L.*

1. **HUMULUS *Lupulus.*** *L. sp.* ii. 1457; *suec.* n.  
908. In fir woods on the sea coast, in hedges, on  
islands, and on mountains.—*Huds.* 433. *Bot. arr.*  
ii. 1117. *Mill. J. ill. t.* *Smith engl. t.* 427, where  
for Shropshire read Herefordshire; *brit.* iii. 1077.  
*Asso n.* 957. In hedges.—*Goü. hort.* 505. Near  
the river; *monsp.* 424. *Host austr.* 533. In  
hedges and woods.—*Thornt. t.* 816. Female plant.  
—*Lightf.* ii. 615. In hedges near houses, probably  
not indigenous.

**Cannabis Lupulus.** *Scop. carn.* ii. n. 1219. In  
hedges.

**Lupulus mas et foemina.** *Raii hist.* i. 156; *syn.*  
137. *Bauh. J.* ii. 152.

*Lupulus foemina.* *Cam. epit.* 934. Male plant.  
*Tourn. paris.* 284. *Vaill. paris.* 120. *Boerh.* ii.  
104. In Holland.

*Lupulus.* *Matth.* ii. 1213, *cop.* in *Cam. epit.* 933.  
Female.—*Dod.* 404, *repr.* in *Clus. hist.* i. 126,  
&

*Lupus salictarius.* *Ger. by Johns.* 885, & *cop.* in  
*Lupulus salictarius.* *Park. theatr.* 177.

*Lupus salictarius*, sive *Lupulus.* *Fuchs.* 169, in  
thickets and osier holts, *cop.* in

*Lupulus mas.* *Bauh. J.* ii. 151. In hedges,  
thickets, and borders of moist meadows.—*Tourn.*  
*paris.* 284. *Vaill.* 120. *Boerh.* ii. 104. In Hol-  
land.

*Bracteae* of the female flowers oval, many times  
longer than the calyx; one of the margins inflected.  
*Obs.* 6057. Near Chesterfield, and also between  
Rennishaw and Bawburgh, and near Houghton in  
Derbyshire, in which county it is not now cultivated.  
All the above female plants.—*Obs.* 5186.—All the  
plants I observed wild in Worcestershire where it is  
cultivated were male. In the hop grounds of that  
county I have observed male plants, though the  
planters informed me their plantations were always  
raised from the roots of female plants. How are we  
to account for the appearance of male plants? Were  
they seedlings? or are the roots of female plants capa-  
ble of supplying male plants? Linnaeus says it does  
not change its sex as believed to do by the vulgar.

*Native* of Europe from Spain to Sweden, and of  
North America, but I suspect only naturalised in  
Britain.

*HUMULUS.* *Guett.* ii. 21. In hedges and  
woods, among alders.—*Pharm. lond.* noviss.

- Lupulus.** *Alst.* ii. 292. *Berg.* ii. 800. *Dale* 67.  
*Geoffr.* iii. 755. *Herm.* i. 532. *Lew.* ii. 76; *disp.*  
*by Rother.* 191. *Linn.* 256. *Mill.* *Jos.* 276. *Monro*  
 iii. 162. *Murr.* iv. 621. *Rutty* 296. *Schoepf* 149.  
*Schrod.* 618. *Spielm.* 58. *Vog.* 255.  
**H. Lupulus.** *Bry.* 66. *Coste & Willem.* *in med.*  
*comment.* v. 298. *Frenke in phys. journ.* xiii. 432.  
*Pears. R. ed.* ii. 332. 387.  
**Hops.** *Darw.* ii. 717. *Hammick, in ann. med.*  
 ii. 403, *repr. in Trott.* ii. 228. *Neum.* ii. 257.  
**Houblon.** *Chom.* ii. 492; *suppl.* 146.

## 928. FEUILLEA.

*Calyx* quinquefid. *Corolla* quinquefid. *Nectaria*  
 of the male flowers 5, alternating with the stamens.  
*Styles* 5. *Berry* trilocular, with a hard rind.  
*From L. & Juss.*

1. **FEUILLEA cordifolia.** Leaves trilobate and angular. *Obs.* 8875. 8876. Specimens gathered by Dr. Wright in Jamaica.—*Swartz. obs.* 377. *L. sp. ed.* i. 1013; *a Murr.* 887.  
*Ghandiroba, vel Nhandi-roba brasiliensibus.* *Sloane cat.* 85; *hist. i.* 200. *Raii hist. ii.* 1875. *Marcgr. 46, repr. in*
- Nhandiroba.* *Pis. ind.* 259. *Plum. gen.* 20.
- FEUILLEA scandens.* *L. sp.* 1457.—*Wright in med. journ.* viii. 255.
- Fewillea.* *Browne, Patr.* 374.

## 929. CLYTIA.

*Calyx* pentaphylloous. *Petals* 5. *Nectaria* of the male flowers in 2 rows; that of the female flowers quinquedentate. *Stamina* on a columnar receptacle. *Style* trifid; branches bifid. *Capsule* trilocular; cells monospermous. *Obs.* 5720, 5721. Female flowers of *C. alaternoides* & *pulchella*.—  
*L.* a Schreb. *L.*

1. *CLYTIA collina*. Leaves oval, retuse. Flowers axillary, fasciculate. *From*  
*CLUYTA collina*. *Roxb.* ii. 37. t. 169.

## HEXANDRIA.

## 930. BACCAUREA.

*Calyx* inferior, that of the hermaphrodite flowers quinquepartite, of the female flowers pentaphylloous. *Corolla* none. *Stamina* 6 to 8. *Style* none. *Berry* trilocular and quinquelocular. *From* *Lour.*

Hermaphrodite flowers abortive. *Lour.*

1. *BACCAUREA cauliflora*. Berries glabrous. Stem bearing fruit at the base. *From Lour.* ii. 813.
2. *BACCAUREA ramiflora*. Berries glabrous.

Branches and the upper part of the stem bearing fruit. *From. Lour.* ii. 813.

Nani hua. *Rumph.* iii. 21, t. 9. In fruit.

*BACCAUREA ramiflora.* *Lour. ib.*

3. *BACCAUREA sylvestris.* Berries tomentose. *From Lour.* ii. 813.

### 931. TAMUS.

*Calyx* superior, quinquefid. *Corolla* none. *Style* trifid. *Berry* trilocular; cells dispermous. *Obs. 4023. L.*

1. *TAMUS cordifolius.* Leaves cordate. *Obs. 4023.*  
In hedges.

*T. communis. L. sp.* 1458. *Mill. J. ill. t. Bot. arr.* ii. 1119. *Smith engl. t. 91,* a male plant; *brit.* iii. 1078. *Gou. hort.* 505. *Asso n.* 958. *Host austr.* 533. In Littorali, Carniola, & Croatia.—*Scop. carn. n.* 1220. *Northumb. guide i.* 93. In woods at Hetton and in Castle Eden Dean in Durham.

*T. racemosa. Gou. monsp.* 426.

*Tamnus racemosa,* flore minore luteo-pallescente.  
*Tourn. paris.* 536; *ed. II.* ii. 515. *Vaill. paris.* 191. *Boerh.* ii. 62. *Dill. ap. Raii syn.* 262.

*Bryonia nigra sylvestris.* *Raii hist.* i. 660. Virtues inserted under n. 3.

*Vitis sylvestris.* *Dod.* 396, cop. in

*Bryonia sylvestris nigra.* *Park. theatr.* 178, &

*Vitis nigra quibusdam.* *Bauh. J.* ii. 147, & repr.  
in

*Bryonia nigra.* *Ger. by Johns.* 871. *Raii syn. ed.* ii. 146. *Blackw. t.* 457.

*Vitis nigra.* *Matth.* ii. 1285, *abr. in Cam. epit.* 988.

*Berries oval, at first green and trilocular, at length scarlet and unilocular, the dissepiments receding from each other.* *Obs. 4023.*

*Native of Europe from Spain to Croatia and Paris, and of England as far north as Durham.*

*TAMUS communis.* *Bry.* 74.

*Bryonia nigra.* *Dale* 168. *Mill. Jos.* 94.

*Bryonia laevis, sive nigra racemosa.* *Chom.* ii. 763.

*Vitis nigra.* *Vog.* 140.

*Bryonia nigra vulgaris, seu racemosa.* *Geoffr.* iii. 224.

*Virtues under*

(*Bryonia nigra baccifera.* *Geoffr.* iii. 225, a species, or what is more probable, a var. which no one seems to have seen excepting Casp. Bauh.)

## 932. SMILAX.

*Calyx hexaphylloous. Corolla none. Germen superior, trilocular; cells monospermous. Style trifid. Berry trilocular.* *Obs. 8863. Brown, Rob.* 293. *L.*

### 1. *Stem aculeate, angular.* L.

1. *SMILAX aspera.* Leaves dentato-aculeate, cordate, novinervose. *L. sp.* 1458. *Hort. kew.* iii. 401. *Asso n.* 959.

2. *simplicifolia.* Leaves rounded at the base. *Hort. kew.* α

- S. aspera. *Gou. hort.* 505; *monsp.* 426. *Scop. carn.* ii. n. 1221. In Austrian Littorali.—*Host austr.* 534. In Littorali.—*Fuchs.* 681. c. 274, *cop. in Bauh. J.* ii. 815. *Ger. by Johns.* 859, *repr. from*
- S. aspera, fructu rutilo. *Clus. hisp.* 219, *which repr. in*
- S. aspera, rutilo fructu. *Clus. hist.* i. 112, a portion of which *cop. in*
- S. aspera spinosa. *Park. theatr.* 174, inner fig.
- S. aspera, fructu rubente. *Boerh.* ii. 60.  
*Native of Spain, Italy, and the south of France.*
- SMILAX** aspera. *Bry.* 88. *Dale* 167. *Forsk. const.* 35. *Murr.* i. 334. *par. the last.*
- Smilax. *Geoffr. suite* iii. 70.

2. **SMILAX perfoliata.** Leaves quinquenervose, acute. Stipulae cordate; perfoliate, *Lour.* ii. 763.
3. **SMILAX zeylanica.** Leaves unarmed, those of the stem cordate, those of the branches ovato-oblong. *L. sp.* 1459. *Hort. kew.* iii. 401.
- PSEUDOCHINA amboinensis.** *Rumph.* v. 437. t. 161.
4. **SMILAX Sarsaparilla.** Leaves unarmed, ovate, retuse with a mucro, trinervose. *Linn. sp.* 1459. *Regn. t.* from what plant or specimen we are not informed; more shrubby and stronger than any specimens which I have seen; stem aculeate to the very top; flowers male and female; apparently *cop. in Woodv.* iii. 528. t. 194, with the addition of the lower leaf which is roundish and retuse, with a cuspis similar to those of the specimen in Lin-

naeus's herbarium, and probably taken from a specimen in Sir Jos. Banks's herbarium gathered by Houston near Vera Cruz, but in which the stem is terete, cirrhose, unarmed, the leaves cordato-elliptic, retuse with a short mucro, septinervose, umbels globular, lateral, as long as the peduncles; *cop.* without the added leaf, in *Thornit.* 841. *Mill. Ph. dict.* n. 3. *Hort. kew.* iii. 401.

S. caule angulato aculeato, foliis ovatis acutis inermibus. *Roy.* 228.

S. caule angulato aculeato, foliis dilatato-cordatis inermibus acutis. *L. cliff.* 459, probably from a plant which had not flowered. The first leaves probably cordate. No specimen in Clifford's herbarium.—*Gron. virg.* 156; *ed. i.* 120.

S. viticulis asperis, virginiana, folio hederaceo leni, Zarza nobilissima. *Raii hist.* iii. 345. *Pluk. alm.* 348; *phyt. t.* 111. *f. 2.* In Foster's garden. No fructifications.

Quahmcapatl altera, Zarza IIII. *Hern.* 289.

Cari-villandi. *Rheede* vii. 59. *t. 31, abr. in*

S. aspera peruvana. *Blackw. t.* 393. *f. 1 to 4,* very nearly allied to if not actually S. indica. *Burm. N. ind.* 213, [mispr. 313.]

*SPANISH SARSAPARILLA.* *Neum.* ii. 158.

## 2. Stem aculeate, terete. L.

5. SMILAX *syphilitica*. Aculei of the stem axillary. Leaves oblongo-lanceolate, mucronate, trimervose. *L. a Willd.* iv. 780. *Humb. & Bonpl.*

Sassepareille des indes d'espagne. *Pom.* i. 86. *t.*

S. aspera peruvana. *Blackw. t.* 393. *f. 5.* The drug.

Salsa Parilla. *Lob. adv.* 270, *cop. in ic.* i. 618, *which repr. in*

*S. peruviana*, Salsaparilla. *Ger. by Johns.* 859, *cop. in Tab. ic.* 896, *which repr. in Ger. J.* 709, & *cop. in*

*S. aspera* *peruana*, sive *Sarsaparilla*. *Park. theatr.* 174. Roots and lower part of the stems.

**SARSAPARILLA.** Root. *Pharm. lond.* & *noviss.*—*Alst.* i. 511. *Baylies in med. pap.* 46. *Berg.* ii. 801. *Bromf.* i. 73. *Carth.* iv. 117. *Cull.* ii. 200. *Denm.* i. 176. *Fordyce, G. pract.* 365. 367. 372; *W. fragm.* 7. 60. 74, & *in med. obs.* i. 149. *Geoffr.* ii. 132. *Herm.* i. 75. *Hill* 614. *Home, F. clin.* 412. *Hunt. J. ven.* 285. 247. 375. 371. 368. *Leeds in med. comment. dec.* II. viii. 331. *Lew.* ii. 341. *Linn.* 257. *Mead mon.* ii. 156. *Mill, Jos.* 394. *Monro* iii. 248; *sold.* ii. 18. 239. 243. 246. 251. 254. 256. *to 258.* 261. *Murr.* i. 334. *Neum.* ii. 157. *Pears. J. account from in med. rev.* iii. 336, & *ann. med. lustr.* II. i. 269. *Portal, account from ib. lustr.* I. iii. 174. *Quar. anim.* 274. 279 *to 281.* 306. 312 *to 315.* *Rutty* 464. *Schoepf* 149. *Schrod.* 674. *Spielm.* 575. *Swiet.* v. 567 *to 571.* *Syd.* 29. 114. *Triquet in med. obs.* ii. 365. *Und.* i. 216; ii. 26. 62. *Wintr. in Mead mon.* i. 213. 227. 231.

*S. Sarsaparilla.* *Pharm. edin.*—*Lew. disp. by Dunc.* 306; *by Dunc. jun.* 373. *Murr. J. i.* 322; ii. 47. 48. *Pears. R. i.* 231. *Wright in med. journ.* viii. 283.

Salsaparilla. *Dale* 167.

Sassaparilla. *Astr.* 150. *Vog.* 211.

Sarsa. *Fordyce, G. pract.* 207.

Salsepareille. *Chom.* i. 294.

6. SMILAX *Pseudo-China*. Stem nearly terete. Leaves unarmed, ovato-oval and oval, trinervose; those of the branches oblong and oblongo lanceolate. Petioles with 2 cirri. Flowering branches angularly flexuose. Umbels pedunculate, axillary. Peduncles shorter than the umbels. *Obs.* 8863. Specimen gathered by Dr. Wright in Jamaica.—*L. sp.* 1461, is described as having an unarmed stem and cordate quinquenervose leaves.

*S. sarmento tereti iuferne aculeato, foliis subrotundocordatis trinerviis, petiolis clavicula vel altera refertis.* Browne, *Patr.* 359.

*S. aspera, fructu nigro, radice nodosa magna laevi farinacea China dicta.* Sloane *cat.* 105; *hist.* i. 231. *t.* 143. *f.* 1.

*S. virginiana, spinis innocuis armata, latis canellae foliis, radice arundinacea crassa nodosa et carnosa.* Pluk. *alm.* 349; *phyt.* *t.* 110. *f.* 5. No fructifications.

Jupicanga. *Pis. bras.* 99, *cop. in ind.* 257, with the drug added.

Pseudo-China. *Ger. by Johns.* 1618, *cop. in Park. theatr.* 1579, &

Pseudo-China radix Clusii. Bauh. *J.* ii. 122. Root.

(*S. aspera, foliis trinerviis oblongis, petiolis biclavicolatis.* Browne, *Patr.* 359, is described as having slender roots.

*S. caule tereti inermi, foliis inermibus, caulinis cordatis, ramorum lanceolatis, pedunculis longissimis.* Gron. *virg.* 156, is described as annual.

*S. aspera nodosa*, radice rubra majore. *Plum. ic. t.* 82, has stipulae terminating in cirrhi.)

*Calyx hexaphyllous*; *phylla lanceolato-oblong.* *Stamina 6*, shorter than the calyx. *Antherae white.* *Obs. 8863.*

**PSEUDO-CHINA.** *Schoepf* 150.

*S. Pseudo-China.* *Bartr. W.* 239. *Spielm.* 559.

*S. China.* *Bart.* 5.

*China occidentalis.* *Carth.* iv. 113. *Dale* 168. 420.

*Geoffr.* ii. 35. *Lew.* i. 330. *Mill. Jos.* 134. *Neum.* ii. 156. *Schrod.* 564.

7. **SMILAX China.** Stem nearly terete. Leaves unarmed, ovato-cordate, quinque-nervose. *L. sp.* 1459. *Hort. kew.* iii. 402. *Thunb. jap.* 152; *p. xxxiii.* *Lour.* ii. 763. *Thornt. t.* 844.

*S. caule aculeato*, foliis orbiculato-ovatis inermibus quinque-nerviis. *L. mat. med.* 163, from *Sankira.* *Kaempf. am.* 781. *t.* 782. Leaves sub-rotund, acute and emarginate.

*S. sarmentis spinulosis sinuosis*, foliis quinque-nerviis utrinque cordatis. *Burm. J. ap. Rumph.* vii. 72. *t.* 30, from a drawing made in Japan under the inspection of Witsen. In fruit. Leaves reniform, emarginate. Stipulae solitary, terminated by a cirrus.

*Fruticulos convolvulaceus spinosus sinicus*, rotundiore nervoso folio, floribus parvis umbellatis, claviculis ligneis binatim denatis. *Pluk. amalth.* 101; *phyt.* *t.* 408. *f.* 1. In flower. Leaves obcordate and obovate. Stipulae opposite, 1 of which bearing 2 cirri. *China vulgaris officinarum.* *Ger. by Johns.* 1618, *cop. in*

*China radix officinarum.* *Park. theatr.* 1579, & the  
larger roots, *cop. in*

*Chinæ radix.* *Bauh. J.* ii. 120, with the addition  
of the upper root and 2 leaves.

(*China michuacanensis*, seu *S. aspera minor*. *Plum.*  
*ic.* 73. *t.* 83, has cordate mucronate leaves.)

**CHINA.** *Pharm. suec.*—*Alst.* i. 409. *Bang in*  
*act. haun.* i. 11. 99; ii. 41. 49. 51. 65. *Berg.* ii.  
803. *Dale* 167. 420. *Herm.* i. 77. *Hunt. J. ven.*  
247. *Lew. disp.* by *Rother.* 138; by *Dunc.* 347.  
*Linn.* 257. *Mill. Jos.* 135. *Monro* iv. 19. *Murr.* i.  
339. *Pears. J.* account from *in med. rev.* iii. 336.  
*Spielm.* 558. *Vog.* 190. *Wintr. in Mead mon.* i.  
227, 231. 257.

*China orientalis.* *Carth.* iv. 113. *Geoffr.* ii. 30.  
*Lew.* i. 330. *Neum.* ii. 156. *Schrod.* 564.

*Radix Chinæ.* *Mead mon.* ii. 156.

*China radix.* *Chom.* i. 295.

*China nodosa.* *Pharm. austriaco-prov.* 29.

*China root.* *Graing.* 76.

8. **SMILAX tamnoides.** Leaves unarmed, cordate,  
oblong, septinervose. *L. sp.* 1460. *Hort. kew.* iii.  
402.—*Schoepf* 150.

*S. bryoniae nigra foliis, caule spinoso, baccis nigris.*  
*Cat.* i. *t.* 52:

### 933. DIOSCOREA.

*Calyx* sexpartite, that of the female flowers superior.

*Corolla* none. *Styles* 3. *Capsule* trilocular, com-

pressed; cells dispermous. Seeds membranaceous.  
*Obs.* 8895. *L.*

1. **DIOSCOREA sativa.** Leaves cordate. Stem smooth, terete. *From.* *L. sp.* 1463; *a Murr.* 888. *Hort. kew.* iii. 404.

*Dioscorea.* *L. cliff.* 459. *t.* 28. In fruit.

*D. foliis cordatis, caule laevi rotundo.* *Browne,* *Patr.* 360.

*Volubilis nigra, radice tuberosa compressa maxima digitata farinacea esculenta, folio cordato nervoso.*  
*Sloane cat.* 46; *hist.* i. 140.

*Olus sanguinis.* *Rumph.* v. 482. *t.* 180.

*Mu-kelengu.* *Rheede* viii. 97. *t.* 51. In flower.

**DIOSCOREA sativa.** *Bry.* 6. *Pears.* *R.* i. 55.  
*Wright in med. journ.* viii. 251.

2. **DIOSCOREA bulbifera.** Leaves cordate. Stem smooth, bulbiferous. *L. sp.* 1463. *Donn* 233.

*Ubium pomiferum.* *Rumph.* v. 354. *t.* 124.

*Rhizophora zeylanica, scammonii folio singulari, radice rotunda.* *Herm. par.* 217. *t.*

*Rhizophora indica, bryoniae nigrae similis, ad foliorum ortum verrucosa.* *Pluk. alm.* 321; *phyt.* *t.* 220. *f.* 6. No fructifications.

*Katu-Katsjil.* *Rheede* vii. 69. *t.* 36.

Spikes axillary, solitary, 3 and 4 times as long as the leaves. Female flowers distant. Calyx sextuplicate; segments oval. *Obs.* 8895. Specimen gathered in Fothergill's garden.

**DIOSCOREA bulbifera.** *Clark, James in med. facts* vii. 305. *Pears.* i. 55. *Wright in med. journ.* viii. 251.

3. DIOSCOREA *aculeata*. Leaves cordate, acuminate, septinervose. Stem aculeate, bulbiferous. *Obs.* S361. Specimen gathered by Dr. Wright in Jamaica.—*L. a Willd.* iv. 792; *sp.* 1462. *Donn* 233. *Lour.* ii. 768.

*D. foliis cordatis, caule tereti aculeato bulbifero.*  
*Browne, Patr.* 359.

Stem unarmed. *Racemi* axillary, composed of spikes. Spikes alternate, longer than the racemus. *Obs. S361.* Specimen gathered by Dr. Wright in Jamaica.

*COMBILIUM.* *Rumph.* v. 357. *t.* 126.

Kattu-Kelengu. *Rheede* vii. 71. *t.* 37.

4. DIOSCOREA *eburnea*. Leaves cordate, septinervose. Flowers hermaphrodite. *Racemi* simple, long. *Lour.* ii. 767.

5. DIOSCOREA *japonica*. Leaves mostly opposite, cordate, oblong, acuminate, noninervose, as long as the petioles. Stem glabrous, angular, twisted. *L. a Willd.* iv. 793. *Thunb. ap. L. a Murr.* 889; —*jap.* 151; *trav.* iii. 84; iv. 123.

*D. oppositifolia.* *Lour.* ii. 766.

*Dsojo.* *Kaempf. am.* 828.

6. DIOSCOREA *alata*. Leaves opposite. Stem winged. *From L. a Willd.* iv. 792; *sp.* ii. 1462. *Hort. kew.* iii. 404. *Lour.* ii. 765. *Forst. G. austral.* n. 375.

*D. foliis cordatis, caule alato bulbifero.* *Browne,* *Patr.* 359.

*Volubilis nigra, radice alba aut purpurea maxima tuberosa esculenta farinacea, caule membranulis ex-*

tantibus alato, folio cordato nervoso. *Sloane cat.*  
46.

*Ubium digitatum.* *Rumph.* v. 350. t. 121.

*Ubium anguinum.* *Rumph.* v. 351. t. 122.

*Ubium vulgare.* *Rumph.* v. 347. t. 120.

*Katsji Kelengu.* *Rheede* vii. t. 71. t. 38.

*Cara brasiliensisibus.* *Raii hist.* i. 729.

*Inhame orientalis lusitanorum.* *Park. theatr.* 1383,  
the 2 outer figures, cop. from

*Inhame lusitanorum.* *Clus. hist.* ii. 78, which cop.  
in

*Convolvulus indiae orientalis.* *Hist. ox.* s. 1. t. 3.  
row 1. f. 4, &

*Battatis affinis, Igname, sive Inhame.* *Bauh. J.* ii.  
793. Roots.

*Hetich americanum.* *Dalech.* ii. 1907, cop. in

*Hetich americanum.* *Park. theatr.* 1625, &

*Hetich Theveiti.* *Bauh. J.* ii. 791, has reniform  
leaves.

*DIOSCOREA alata.* *Bry.* 7. *Forst. G. esc.* 56.  
*Pears. R.* i. 55. *Wright in med. journ.* viii. 251.

Yams. *Graing.* 11.

7. *DIOSCOREA triphylla.* Leaves ternate. *L. sp.*  
1462. *Jacq. coll.* ii. 365; *ic.* iii. t. 627. Calyx  
tripartite.

*Ubium silvestre.* *Rumph.* v. 361. t. 128.

*DIOSCOREA triphylla.* *Clark, James in med.*  
*facts* vii. 305. *Wright in med. journ.* viii. 251.

Tsiageri-nuren. *Rheede* vii. 63. t. 33. In fruit.

8. *DIOSCOREA pentaphylla.* Upper leaves digitate.  
From *L. sp.* 1462, &

*UBIUM* quinquefolium. *Rumph.* v. 359. t. 127.

Lower leaves ternate. Stem bulbiferous.

Nuren-Kelengu. *Rheede* vii. 67. t. 35.

### 934. FIBRAUREA.

*Calyx* none. *Petals* 6. *Stigmata* 3. *Berries* 3,  
monospermous. *Lour.*

1. *FIBRAUREA tinctoria*. *Lour.* ii. 769.

### 935. BRAUNEA.

*Calyx* triphyllous. *Petals* 3. *Nectaria* of the male  
flowers 6, of the female none. *Styles* 3. *L.* a  
*Willd.*

1. *BRAUNEA menispermoides*. *L.* a *Willd.* iv.  
797.

*VALLI-CANIRAM*. *Rheede* vii. 5. t. 3.

### 936. FERREOLA.

*Calyx* semitrifid. *Corolla* urceolate, trifid. *Stamina*  
inserted into the receptacle, 5, 6, and more. *Berry*  
bilocular and trilocular; cells dispermous. *From*  
*Forst. J. & G.* 121. t. 61, & *Brown, Rob.* 527.  
*Roxb. Koen.*

Maba. *Forst. J. & G. Brown, Rob.*—a name too  
like Mabea and not characteristic as Ferreola.

1. *Filaments simple.*

1. FERREOLA *Ebenus*. Leaves lanceolate, glabrous.  
*From Lour.* &  
*Ebenus.* *Rumph.* iii. 1. t. 1. Berry containing 3  
 nuts.  
 (*Ebenus arbor indiae orientalis, fagi amplioribus foliis,*  
*anoneae dulcis fructu magno coronato eduli.* *Burm.*  
*J. zeyl.* 91, must have a calyx superior from the  
 epithet of *fructu coronato*.)  
*EBENOXYLUM verum.* *Lour.* ii. 752.
2. FERREOLA *ellipticifolia*. Leaves elliptic. Penduncles mostly triflorous. *From*  
*Maba elliptica.* *L. fil. suppl.* 426? *Forst. J.*, & *G.*  
 122; *G. austral.* n. 366?  
*¶ major.* Drupes thrice as large. *From*  
*MABA major.* *Forst. G. esc.* 54, who examined  
 only the fruit.
3. FERREOLA *buxifolia*. Leaves obovate. Calyces  
 pilose. Filaments simple. *From Willd.*  
*Maba buxifolia.* *Brown, Rob.* 527.  
*Ehretia ferrea.* *Willd. phyt.* i. 4. t. 2. f. 2.  
*FERREOLA buxifolia.* *Roxb.* i. 35. t. 45.

## 937. LIMACIA.

*Calyx* hexaphyllous. Petals of the male flowers 3,  
 of the female 6. *Style* none. *Stigmata* 3. *Drupe*  
 reniform. *Nut* cochleate. *From Lour.*

1. LIMACIA *scandens.* *Lour.* ii. 761.

## O C T A N D R I A.

## 938. POPULUS.

*Calyx* entire, unequal, oblique, permanent. *Capsule* bilocular, bivalve and trivalve. *Seeds* pappose.  
*Obs. 4345. L.*

1. *POPULUS balsamifera.* Leaves ovate, serrate, whitish underneath. *Stipulae resinous.* *L. a Murr.* 889; *sp. 1464. Hort. kew.* iii. 406.  
*P. foliis ovatis acutis serratis.* *Gmel. sib.* ii. *t. 33.*  
 No fructifications.  
*P. foliis longe petiolatis oblongo-lanceolatis serratis subtus albicantibus mas.* *Trew. sel. t.* 46.  
*Tacamahaca foliis crenatis.* *Pluk. phyt.* *t. 282. f. 2.*  
*Tacamahaca.* *Mill. Ph. ic.* 174. *t. 261.*  
*POPULUS balsamifera.* *Bart.* 17.  
*Populi oculi.* *Berg.* ii. 805.
  
2. *POPULUS nigra.* Leaves deltoid, acuminate, serrate. *L. suec.* *n. 910.* Near the farms of the nobility, probably imported; *sp. 1464. Bot. arr.* ii. 1122. *Gaertn.* *t. 90.* *Asso n. 961.* *Mill. Ph. dict.* *n. 3.* *Gou. hort.* 506; *monsp.* 427. *Jacq. vind.* 175. *Rupp. ab Hall.* 333. *Willd. ber.* *n. 433.* *Blackw.* *t. 248.* *Raii syn.* 446. *Tourn. paris.* 296. *Vaill. paris.* 163, who remarks that he never saw a female plant of it.—*Boerh.* ii. 211. In Hol-

land.—*Lob. obs.* 609, *repr. in ic.* ii. 194. *Dod.* 824, *repr. in Ger. by Johns.* 1486. *Dalech.* i. 86. *Matth:* i. 137, *cop. in Cam. epit.* 66, with the addition of a branch in flower, which cop. in *Park. theatr.* 1410, &

**P.** *nigra*, sive ΑΙΓΕΙΡΟΣ. *Bauh. J.* i. *pars ii.* 155, who says he never saw any plants producing seeds except about Basle.

**P.** *foliis deltoidibus acuminatis serratis.* *Kram.* 283. In all the groves on the islands in the Danube.

**P.** *alba.* *Trag.* 1080.

A female plant, which much more rare than male plants, the latter being probably cultivated in preference to the female from not affording spikes of downy seedvessels. *Obs.* 7000. In a garden, and in a village.

Native of Europe from the south to Germany, according to authors, but I am inclined to believe that that most if not all the writers above cited saw only cultivated plants.

**POPULUS nigra.** *Chom.* ii. 732; *suppl.* 199. *Dale* 283. *Geoffr. suite* ii. 51. *Lew.* ii. 244. *Mill.* *Jos.* 356.

*Populus.* *Pharm. austriaco-prov.* 58.—*Lew. disp.* by *Rother.* 220. *Linn.* 258. *Murr.* i. 47. *Rutty* 406. *Schoepf* 150. *Schrod.* 653. *Spielm.* 324. *Vog.* 75.

3. **POPULUS tremula.** Leaves roundish, repandodentate, glabrous. *Obs.* 4345. In hedgerows at a distance from houses.—*L. suec.* n. 909; sp. 1464. *Bot. arr.* ii. 1121. *Smith brit.* iii. 1081; *engl. t.*

1909. *Tourn. paris.* 128. *Vaill. paris.* 163. *Boerh.* ii. 211.

*P. libyca*, ΚΕΡΚΙΣ Theophrasti. *Bauh. J. i. pars ii.* 163. Leaves represented as repandose. In boggy places with *Betula alba*.

*P. lybica*. *Matth. i. 138, cop. in Cam. epit.* 67. *Dalech. i. 87. Dod. 824, repr. in Lob. obs.* 610; *ic. ii. 194, & Ger. by Johns.* 1487, & *cop. in Park. theatr.* 1411. *Raii cat.* 250, in woods; *syn. 446*, in woods, in boggy places, and with *Betula alba* —which last place of growth seems a transcript from *J. Bauhine*.

*P. nigra*. *Trag.* 1083, with *Viscum album* growing on the trunk.

*Root* throwing up suckers with villose leaves. *Stem* bearing flowers when only 20 feet long. *Male plants* more frequent than female: *Obs. 4345.* }

*POPULUS tremula*. *Dale* 284.

*P. lybica tremula*. *Boerh. i.* 158.

*Populus*. *Pharm. suec.*

4. *POPULUS alba*. Leaves lobate, tomentose underneath. Petioles tomentose. *Obs. 8402*. Specimen without fructifications, gathered near a cottage.—*Smith. brit. iii.* 1079, in woods; *engl. t.* 1618. *Bot. arr. ii.* 1121 *a*. *Asso n.* 960. *Jacq. vind.* 175. *Huds.* 433. In hedges and woods.—*Poll. ii. n.* 928. In moist thickets.—*Roth. germ. ii. pars ii.* 533. *Gou. hort.* 506; *monsp.* 427. *Lightf. ii.* 616. Near gentlemen's houses and in plantations.—*Northumb. guide* 92. In woods and hedges. (*L. suec. n.* 911; *sp.* 1463, seems rather to be *P. canescens* of Smith.) *Raii cat. ed. i.* 248, in Cambridgeshire; *syn. 446*; *hist. ii.* 1418. *Matth.*

i. 136, *cop. in Cam. epit.* 65. *Dalech.* i. 86. *Dod.* 823, called Abeelboom by the inhabitants of the Low Countries, *repr. in Ger. by Johns.* 1486, who says it is called in Low Dutch Abeel of his hoarie or aged colour, & *imit. in Lob. obs.* 609. which *repr. in*

*P. alba latifolia.* *Lob. ic.* ii. 193.

*P. alba nivea.* *Hort. kew.* iii. 405.

*P. major.* *Mill. Ph. dict. n.* 4.

*P. foliis subrotundis dentato-angnatis subtus tomentosis.* *Guett.* i. 212. *Roy.* 82. *Kram.* 282. In the groves on the islands in the Danube.

The white Poplartree. *Evel. by Hunt.* i. 201. t.

*P. alba, majoribus foliis.* *Tourn. paris.* 296. *Vaill. paris.* 163. *Magn. hort.* 163. *Boerh.* ii. 211. In Holland.

*Populi albae alia species.* *Trag.* 1081. No fig.

*P. alba, AETKH.* *Bauh.* i. *pars* ii. 160.

Native of Europe, and of England in woods, according to Hudson, Dr. Smith, and the authors of the Northumb. guide, but the only situations in which I have observed it have led me to regard it with Lightf. as an imported plant.

*POPULUS alba.* *Dale* 283. *Geoffr. suite* ii. 56.

*P. alba, majoribus foliis.* *Chom.* ii. 732; *suppl.* 199.

*P. alba latifolia.* *Schrod.* 653.

## ENNEANDRIA.

## 939. MERCURIALIS.

*Calyx* tripartite. *Corolla* none. *Antherae* didymous. *Styles* 2. *Capsule* dicoccous. *Obs.* 894. *L.*

1. **MERCURIALIS perennis.** Stem undivided. Leaves scabrous. *L.* suec. n. 913; sp. 1465. *Smith brit.* iii. 1083. *Fl. dan.* t. 400. *Mill. J. ill. t. Bot. arr.* ii. 1125. *Curt. lond.* ii. 65. *t. Walc.* *t. Lightf.* ii. 620. *Gou. hort.* 507; monsp. 427.

*M. perennis repens*, *Cynocrambe dicta*. *Raii syn.* 138.

*M. montana*. *Tourn. paris.* 347. *Vaill. paris.* 126. *Cynocrambe vulgaris*. *Park. theatr.* 296, cop. from

*Cynocrambe*. *Lob. obs.* 132, which repr. in *ic.* i. 260, & *Ger.* by *Johns.* 333. Male and female flowers represented on the same plant.—*Fuchs.* 435, *abr. in*

*M. sylvestris*. *Trag.* 191, & cop. in

*Cynocrambe mas*, sive *M. repens*. *Bauh. J.* ii. 979. Female.

*Cynocrambe foemina*, sive *M. repens*. *Bauh. J.* ii. 979. Male.

*M. mascula sylvestris.* *Cord. sol.* 111. *p.* 2. *Female.*

*Cynocrambe mas.* *Cam. epit.* 998. *Female.*

*Cynocrambe foemina.* *Cam. epit.* 999. *Male.*

*MERCURIALIS perennis.* *Rutty* 325.

*M. caule simplicissimo, foliis scabris.* *Lew. disp.* 176.

*Cynocrambe.* *Dale* 68. *Lew. ii.* 107.

*Dog Mercury.* *T. M. in ph. tr. abr. by Lowth.* ii. 640; *by Hutt.* iii. 575, *repeated by Sloane ap. Raii syn. ed. ii. index, & ed. iii. 138.*

2. *MERCURIALIS annua.* Stem divided. Leaves glabrous. Flowers spicate. *L. sp.* 1465. *Gou. hort.* 507. In cornfields; *monsp.* 428. *Huds.* 435. About London.—*Asso n.* 962. On rubbish.—*Lightf.* ii. 621. At Burnt island on the coast of Fife.—*Curt. lond.* v. 68. *t.* 336. *Bot. arr.* ii. 1126. Observed by Mr. Woodward about Norwich and Lowestoff.—*Mill. Ph. dict.* n. 1, in gardens and on dunghills, but seldom at a distance from habitations.

*M. annua glabra vulgaris.* *Raii syn.* 139. On the sea beach near Ryde in the isle of Wight.

*M. testiculata, sive mas.* *Tourn. paris.* 213.

*M. spicata, sive foemina.* *Tourn. paris.* 347.

*M. vulgaris.* *Vaill. paris.* 126. *n.* 1. 2.

*M. mas.* *Dod.* 647, *repr. in Ger. by Johns.* 332, & *cop. in*

*M. mas et foemina.* *Park. theatr.* 295. *Female.—Fuchs.* 464. *c.* 181, *cop. in Bauh. J.* ii. 977, & *abr. in*

*Mercurialis.* *Trag.* 190, the lower half of the fig.

representing the male and the upper half the female plant.—*Blackw. t.* 162. Male.

*M. foemina.* *Dod.* 647, *repr. in Ger. by Johns.* 332. Male.

*Native* of France, Germany, and Holland; found on the coasts of Suffolk, Durham, and Fife, and about London, Oxford, Cambridge, and Norwich, and I have seen a specimen gathered by Dr. Winstanley on Clifton rocks near Bristol, but I am inclined to regard it with Ph. Miller as an imported plant.

*MERCURIALIS annua.* *Rutty* 325.

*Mercurialis.* *Pharm. austriaco-prov.* 49.—*Alst.* ii. 185. *Berg.* ii. 806. *Chom.* i. 74. 197; ii. 708; *suppl.* 193. *Dale* 68. *Geoffr. suite* i. 42. *Herm.* i. 545. *Lew.* ii. 106; *disp.* 176. *Linn.* 259. *Mill.* *Jos.* 294. *Murr.* iv. 222. *Schrod.* 625. *Spielm.* 565. *Tourn.* ii. 271. *Vog.* 69.

3. *MERCURIALIS tomentosa.* Stem suffruticose.

Leaves tomentose. *L. sp.* 1465. *Gou. hort.* 507; *monsp.* 428. *Hort. kew.* iii. 408. *Asso n.* 963.

*M. fruticosa.* *Boerh.* ii. 106. *n.* 5. 6.

*Phyllum marificum et foeminificum.* *Raii hist.* i. 164; *eur.* 203. About Montpelier.

*Phyllum marificum.* *Clus. hisp.* 398, *repr. in hist.* ii. 48, *cop. in Park. theatr.* 296, *repr. in*

*Phyllum arrhenogonon, sive marificum.* *Ger. by Johns.* 333, & *cop. in*

*Phyllum arrhenogonon, folio incano, monspessulanum.* *Bauh. J.* ii. 981. f. 1. About Montpelier.

*Phyllum feminificum.* *Clus. hisp.* 399, *repr. in hist.* ii. 48, &

*Phyllum thelygonon, sive foeminificum.* *Ger. by Johns.* 333, *abr. in*

- .Phyllum foeminificum. *Park. theatr.* 296, & cop.  
in  
Phyllon thelygonon, folio incano, monspessulanum.  
*Bauh. J.* ii. 981. f. 2. Male.  
Phyllon θηλυγονος, sive foeminiparum mas. *Lob. adv.*  
99, *repr. in*  
Phyllon thelygonon. *Lob. ic. i.* 258. Male.—*Dod.*  
649. Male.  
Phyllon θηλυγονος, sive foeminiparum, fomina. *Lob.*  
*adv.* 99, *repr. in*  
Phyllon arrhenogonon. *Lob. ic. i.* 258. Female.  
Phyllum arrhenogonium, Thelygonon *Theophrasti.*  
*Dalech.* ii. 1197. Male and female.  
Phyllum thelygonum. *Dalech. ii.* 1196.  
Native of Spain, and the south of France.  
**PHYLLON.** *Dale* 69.

4. MERCURIALIS *trigyna*. Stem fruticose. Leaves  
lanceolate, glabrous. Stigmata 3. *From*  
*MERCURIALIS indica.* *Lour. ii.* 771.

## D E C A N D R I A.

### 940. TETRANTHERA.

*Calyx* quadrifid quinquefid sexfid & none. *Stamina*  
6 to 15. *Antherae* quadrilocular. *Nectaria* at  
the base of the inner stamina. *Stigma* dilatate,  
sublobate. *Berry.* *From Brown, Rob.* 403.  
*Jacq.*

1. TETRANTHERA *ferruginea*. Umbels sessile.  
Stamina 9. Calyx sexfid. Leaves ovali-oblong,  
acute, costate, tomentose underneath. Branches to-  
mentose. *From Brown, Rob.* 403.  
*HEXANTHUS umbellatus.* *Lour.* i. 242.
2. TETRANTHERA *monopetala*. Umbels peduncu-  
late. Calyx quinquefid. Leaves elliptic, costate,  
slightly tomentose underneath. *From Roxb.* ii.  
26. t. 148.

## 941. CARICA.

*Calyx* quinquefid. *Corolla* of the male flowers in-  
fundibuliform, quinquefid, of the female quinque-  
partite. *Filaments* inserted into the mouth of the  
tube of the corolla, every other shorter. *Stigmata*  
5. *Berry* unilocular, polyspermous. *Obs.* 8902,  
& *from L. &*

Papaya. *Juss.* 399.

1. CARICA *Papaya*. Lobes of the leaves sinuate.  
*L. sp.* 1466. *Hort. kew.* iii. 409.  
*C. fronde comosa, foliis peltato-lobatis lobis varie-*  
*sinuatis.* *Browne, Patr.* 360.  
Papaya major. *Sloane cat.* 202. 203.  
Papaya. *Boerh.* ii. 170. *Trew sel. t. 7. Ehr. t. 3.*  
*f. 1.*  
Ambapaja. *Rheede* i. 21. t. 15.  
Papajamaram. *Rheede* i. 23. t. 15.  
Papaja mas et femina. *Rumph.* i. 145. t. 50. 51.

*Ficus arbor utriusque indiae, platani foliis, monopetiches.* *Pluk. alm.* 145; *phyt. t.* 278: f. 1.

*Mamoera mas.* *Ger. by Johns.* 1609, *cop. in*

*Mamoera mas et foemina.* *Park. theatr.* 1649.

Male.

*Mamoera foemina.* *Ger. by Johns.* 1609. Female.

*Male flowers paniculate. Calyx* very short; segments triangular, acute. *Corolla* tawny. *Stamina* 10. *Rudiment of a pistil* subulate, acute, half as long as the tube of the corolla. *Obs.* 8902. Specimen gathered in the Schoenbrun garden.

*CARICA Papaya.* *Bry.* 186. *Cossigny, account from in phys. journ.* ix. 79. *Lour.* ii. 771. *Swartz. obs.* 379.

*Paupa.* *Perciv. Rob. ceyl.* 314.

2. *CARICA pyriformis.* Leaves palmate, septilobate; intermediate lobe trilobate. Flowers corymbose. Berries pyriform. *L. a Willd.* iv, 815?

*CARICA Posoposa.* *Bry.* 187.

## 942. SCHINUS.

*Calyx* quinquepartite. *Petals* 5. *Style* none. *Stigmata* 3. *Berry* trilocular; cells monospermous. *From L. & Juss.*

In the male plants stigmata wanting, in the female plants stamina barren. *From L.*

1. *SCHINUS Molle.* *L. sp.* ii. 1467. *Hort. kew.* iii. 410.

*Molle, Léntiscus peruana.* *Hern.* 54, t.

*Lentiscus africana.* *Seb.* ii. 7. t. 5. f. 5.

*Molle arbor.* *Lob. adv.* ii. 517, the three outer figures.

*Lentiscus peruana.* *Raii hist.* ii. 1582. *Park. theatr.* 1525, cop. from

*Molle Clusii.* *Lob. obs.* 542, which repr. in *ic.* ii. 105, &

*Molli*, sive *Molly Clusii & Lobelii.* *Ger. by Johns.* 1530, & repr. from

*Molle.* *Clus. exot.* 322; *cur.* 50, repr. in

*Molle arboris adultae ramus.* *Ger. by Johns.* 1530, & abr. in

*Molle Clusii, serratis foliis.* *Park. theatr.* 1525.

*MOLLE.* *Boerh.* ii. 258.—*Bauh. J.* i. pars i. 534, (mispr. 522.)

### 943. CORIARIA.

*Calyx* pentaphylloous. *Petals* 5, very similar to the calyx, connected. *Antherae* bipartite. *Styles* 5. *Seeds* 5, covered by the petals which become a succulent berrylike substance. *L.*

1. *CORIARIA sarmentosa.* Leaves cordato-ovate, acuminate, entire at the margin, quinquenervose. Petioles very short. Stem procumbent, diffuse. Racemi axillary, elongate, nodding. *Forst. G. austral.* n. 377;—*esc.* 46.

## DODECANDRIA.

## 944. DATISCA.

*Calyx* of the male flowers pentaphyllous, of the female bidentate. *Corolla* none. *Antherae* sessile, oblong, 15. *Styles* 3. *Capsule* inferior, unilocular, polyspermous, triangular, with 3 horns, open. *From L. Juss. 445.*

1. *DATISCA glabra*. Glabrous. *Obs.* 8595. Specimen gathered in the Paris garden.  
*Cannabina cretica*. *Boerh.* ii. 105. *n.* 1. 2.  
*Cannabis foliis pinnatis*, mas. *Roy.* 221.  
*Cannabis lutea fertilis Contareni*. *Alp. exot.* *t.* 298.  
*Cannabis lutea sterilis Contareni*. *Alp. exot.* *t.* 300.  
*Cannabis lutea cretica*. *Alp. exot.* 296. *t.* 295.  
*Lutea maxima cretica Honorii Belli*. *Bauh. J.* iii. *pars* ii. 466. *Raii hist.* ii. 1054.  
*DATISCA cannabina*. *L. sp.* 1469. *Hort. kew.* iii. 411. *Gou. hort.* 509.—*Marsigly*, account from *in phys. journ.* i. 192. *Ploucq. bibl.* i. 461. 483.

## ICOSANDRIA.

## 945. FLACOURTIA.

*Calyx* inferior, pentaphyllous. *Corolla* none. *Styles*

3 to 5. Berry with from 4 to 10 seeds. From Roxb. Lher.

The 2 following species with from 3 to 5 styles seem to be generically distinct from F. Rhamontchi of Lher. which appears referable to Stigmarota.

1. FLACOURTIA *sepiaria*. Leaves obovato-oblong, repando-serrate. *L. a Willd.* iv. 831. *Roxb.* i. 48. t. 68.

*Lycii similis frutex indicus.* *Commel. J. hort.* i. 161. t. 83.

*Lycium maderaspatanum*, bijugis et gracilioribus spinis horridis. *Pluk. alm.* 235; *phyt. t.* 202. f. 2. No fructifications.

*COUROU-MOELLI.* *Rheede v.* 77. *t.* 39.

*Frutex indicus baccifer*, fructu rotundo polypyreno. *Raii hist.* ii. 1634.

2. FLACOURTIA *sapida*. Leaves ovali-elliptic, repando-serrate. From *L. a Willd.* iv. 830, &— *Roxb.* i. 49. t. 69.

## 946. STIGMAROTA.

*Calyx* of the male flowers quadripartite and quinquepartite, of the female quinquepartite and sexpartite. *Corolla* none. *Stigma* rotate, sexfid. *Berry* unicellular, hexaspermous. From *Lour.*

1. STIGMAROTA *Jangomas*. Stem arboreous. Peduncles multiflorous. *Lour.* ii. 779.

*SPINA SPINARUM.* *Rumph.* vii. 76. t. 19.  
f. 1.

(*Jamgomas.* *Garc. a Clus.* 193; *ap. Clus. exot.* 227, is described as having white flowers. No fig. — *Bont.* 111, is described as having yellow fruit.)

## POLYANDRIA.

### 947. TREUIA.

*Calyx* of the male flowers triphyllous, of the female superior, quadrifid. *Corolla* none. *Style* 1. *Stigmata* plumose. *Capsule* tetracoccus, quadrilocular. *From L. a Willd. & L.*

1. *TREUIA integerrima.* Leaves entire at the margin, glabrous. *From*  
*T. nudiflora.* *L. a Willd.* iv. 834; *sp.* 1661.  
*Tetragastris ossea.* *Gaertn.* ii. 130. *t.* 109.  
*Canschi.* *Rheede* i. 76. *t.* 42. *Raii hist.* ii. 1711.  
*CANSIE.* *Leuwenh.* in *ph. tr. abr.* by *Hutt.* v. 282.  
*Cancie.* *Ib.* 283.

### 948. CYCAS.

*Female flowers* naked. *Male flowers* bracteate. *Filaments* none. *Antherae* bilocular. *Style* very

short. *Stigma* simple. *Drupe* monospermous.  
*Obs.* 2696. 8894. *L.*

1. CYCAS *circinalis*. Folioles flat. *From L. sp.*  
1658. *Hort. kew.* iii. 475. *Brought. hort.* 494.  
*Sago Palm.* *Wright in med. journ.* viii. 294.  
*CYCAS* *ircinalis*. *Hawkesw.* iv. 395. *Pears. R.*  
*ed.* ii. 295. 346.  
*Olus calappoides.* *Rumph.* i. 86. *t. 20 to 23.*  
*Todda pauna.* *Rheede* iii. 9. *t. 13 to 21.* *Raii hist.*  
*ii. 1360.*  
*Palm, the 3rd sort.* *Hawkesw.* iv. 195.  
*SAGU.* *L. am.* v. 67.  
*Sago.* *Lew. disp. by Dunc.* 341. *Pears. R.* i. 86.  
*Spielm.* 35.

2. CYCAS *revoluta*. Folioles revolute at the margin.  
*H. K.* iii. 475. *Smith in lin. tr.* vi. 312. *t. 29. 30.*  
*at p. 314,* in fruit.

*Arbor calappoides sinensis.* *Rumph.* i. 92. *t. 24.*  
A leaf.

*Male flowers.* *Spike* ovato-lanceolate, terete, pendunculate,  $2\frac{1}{4}$  inches long. *Peduncle* slightly curved, 1 inch long, tomentose, rufous. *Bracteae* obovato-cuneate, glabrous, tomentose at the end, rufous. *Antherae* numerous, on the under surface of the bracteae, crowded, buffcoloured; cells oval, placed end to end. *Obs.* 2696. Specimen gathered in Fothergill's garden.—*Flowering leaves* tomentose, tawny, 6 and 7 inches long. *Flowers* distichous, alternate, on the margins of the petiole, 3 on each margin. *Germen* oval, sessile,  $\frac{1}{2}$  inch long. *Obs.* 8894. Specimen gathered in the Schoenbrun garden.

*CYCAS revoluta.* Pears. R. i. 86. *Thunb. jap.* 229; *trav.* iii. 223.

*C. inermis.* *Lour.* ii. 776.

*Tessio.* *Kaempf. am.* 879.

3. *CYCAS inermis.* Petioles unarmed. *From Lour.* ii. 776.

## MONADELPHIA.

### 949. TAXUS.

*Calyx* of the male flowers polyphyllous, of the female urceolate. *Corolla* and *style* none. *Drupe* surrounded below by a pulpy substance formed from the calyx. *Obs. 3277.* *L.*

1. *TAXUS baccata.* Leaves linear. Receptacles of the male flowers globular. *Hort. kew.* iii. 415. *L. suec.* n. 916; sp. 1472. *Gou. hort.* 510. *Host austr.* 538. *Roth. germ.* i. 426. In the Hartz forest, and near Jena and Hoenstein.—*Link trav.* 347. On mountains in the north of Portugal.—*Bot. arr.* ii. 1130. *Huds.* 437. In the mountains of Westmorland, Cumberland, Herefordshire, &c.—*Smith brit.* iii. 1086; *engl. t.* 746. *Lightf.* ii. 626. *Asso n.* 967. *Thunb. jap.* 275.

The Yewtree. *Evel. by Hunt.* i. 275. *t.*

*Taxus.* *Tourn. inst. t.* 362. *Vaill. paris.* 191. *Boerh.* ii. 208. *Rupp. ab Hall.* 336. *Bauh. J.* i.

*pars* ii. 243. In woods about Zurich, on Mount Saleve near Geneva, near Padua, and in the eastern parts of France.—*Raii hist.* ii. 1416; *syn.* 445. In the western and southern parts of England.—*Dod.* 847, *repr. in Ger. by Johns.* 1370, & *cop. in Park. theatr.* 1412. *Dalech.* i. 78. *Cam. epit.* 840. Female.

*Calyx* becoming a pulpy substance surrounding the base of the drupe; mouth obsoletely bisid. *Drupe*, pulp green, very thin; pulpy matter surrounding the drupe red, nearly twice as long as the drupe, connected to the peduncle not to the drupe. *Obs.* 3277.

Native of Italy, Germany, Britain, Sweden, & the eastern parts of France.

**TAXUS.** *Bredin*, account from *in chir.*, rev. iv. 454. *Dale* 281. *Geoffr. suite* iii. 160. *Loder*, account from *in phys. journ.* ii. 85. *Ploucq. bibl.* i. 645.

**T. baccata.** *Hildenbrand*, account from *in phys. journ.* iv. 89. *Schoepf* 151.

**Yewtree.** *Perciv. T.* ii. 180.

2. **TAXUS nucifera.** Leaves linear, cuspidate, remote.  
*From Thunb. Jap.* 275.

**Fi.** *Kaempf. am.* 814. *t.* 815.

## 950. EPHEDRA.

*Calyx* of the male flowers bisid, of the female bipartite. *Corolla* none. *Stamina* 7. *Antherae* 4 below, 3 above. *Pistils* 2. *Seeds* 2. *Obs.* 8892. *L. Juss.* 411. *Boerh.* ii. 107.

Are any of the descriptions of the fruit from recent specimens?

1. EPHEDRA *distachya*. Peduncles opposite. Male spikes in pairs. *L.* sp. 1472. *Gou. hort.* 510; *monsp.* 429. *Hort. kew.* iii. 416. *Asson.* 968. *Mill. Ph. dict.* *E. maritima minor.* *Boerh.* ii. 108.  
*Tragus*, sive *Uva marina minor*. *Bauh. J.* i. pars ii. 406.  
 Near Montpelier.—*Raii eur.* 254. Near Cape Clette  
 and Frontignan.  
*Uva marina minor*. *Raii hist.* ii. 1639. *Ger. by*  
*Johns.* 1116, *repr. from*  
*Polygonum IV minus*. *Clus. hisp.* 185, two miles  
 from Salamanca, *which repr. in*  
*Polygonum IIII, Plinii minus*. *Clus. hist.* i. 92, &  
*cop. in*  
*Polygonum bacciferum maritimum minus*. *Magn.*  
*monsp.* 208. *Tourn. hort.* 119. *Bauh. Casp. theatr.*  
 236. Near Montpelier.  
*Tragum*. *Cam. hort.* 171.  
*Tragos*. *Cam. hort. t. 46*. *Lob. adv.* 355, *repr. in*  
*Uva marina monspeliensium*. *Lob. ic. i.* 796. *Magn.*  
*hort.* 207.

*Branches* verticillate. *Leaves* vaginant, some-  
 what longer than the breadth of the branches; mouth  
 bifid; segments erect. *Female flowers* in pairs, brac-  
 teate at the base. *Bracteae* 4, perfoliate, gradually  
 larger upwards, decussate, bipartite; segments ovate,  
 concave, rather obtuse. *Calyx* inferior, bipartite,  
 monophyllous; segments ovate, obtuse, concave.  
*Pistils* somewhat shorter than the calyx. *Germina*  
 ovate; outer side convex; inner side flat. *Styles*  
 erect, half as long as the germina. *Stigmata* simple.  
*Obs.* 8892. Specimen gathered by Broussonett near  
 Montpelier.

*EPHEDRA*. *Roy.* 87.—*Dale* 324. (The bot-  
 anical authors cited belong to a species with ses-  
 sile flowers.)

## 951. MYRISTICA.

*Calyx* inferior, trifid. *Corolla* none. *Filaments* 3 to 12, united into a column. *Style* very short. *Stigma* lobate. *Berry* monospermous. *Seed* surrounded by an arillus. *From Juss. & Brown, Rob. L. fl.*

1. **MYRISTICA moschata.** Leaves lanceolate, glabrous; veins simple. Berries glabrous, solitary. *From L. a Willd. iv. 869. Thunb. in act. holm. pro anno 1782. p. 49. t. 1. f. 1; ap. L. a Murr. 493. Thunb. & Radl. account from in med. comment. dec. II. v. 54. Thornt. t. 834.*
- M. officinalis. *L. fil. suppl. 265. Gaertn. i. 194. t. 41.*
- M. aromaticaria. *Lam. dans l'ac. sci. pour 1788. p. 154. t. 1 to 3, parts of which cop. in Woodv. ii. 363. t. 134. (Swartz. prodr. 96; obs. 217, is described as having leaves pubescent underneath.)*
- Le Muscadier. *Sonn. nouv. guin. 195. t. 116. 117. 118. f. 1. 2.*
- Nux moschata fructu rotundo. *Pluk. alm. 265; phyt. t. 209. f. 1.*
- Nux myristica mas. *Rumph. ii. 14. t. 4. Clus. exot. 14, repr. in*
- Nux myristica oblonga, sive mas. *Ger. by Johns. 1536, and cop. in*
- Nux aromaticaria. *Bauh. J. i. pars i. 265.*
- Nux myristica femina. *Clus. exot. 18, repr. in*
- Nux muscata rotunda, sive foemina. *Ger. by Johns. 1536, & cop. in*

Nux aromatica femina. *Bauh. J.* i. pars i. 264,  
&

Nucis moschatae termes genuina. *Park. theatr.*  
1600.

Nux moschata. *Blackw. t.* 353. In fruit. From  
Sloane's and Rand's herbaria.—*Lob. obs.* 570, repr.  
*in*

Nux muscata. *Lob. ic.* ii. 142, &

Nux moschata, cum sua Maci. *Ger. by Johns.* 1537,  
& cop. in

Nux moschata, seu fructus integer consitus cum te-  
gumento Macis, cortice nigro et nuce interiore ro-  
tundo et longo. *Park. theatr.* 1600. Fruit.

Nux aromatica, vulgo moschata. *Bauh. J.* i. pars i.  
255.

Bongo-Pala. *Pis. mant.* 173.

*MYRISTICA.* Kernel called Nutmeg ; its essen-  
tial oil ; its expressed oil, the latter commonly  
called Oil of Mace. *Pharm. lond.* & noviss.

M. moschata. Kernel called Nux moschata. Mace,  
and its fixed oil called Oil of Mace ; its volatile  
oil. *Pharm. edin.*—*Lew. disp. by Dunc.* 261.  
*Murr. J.* i. 198. *Pears. R.* i. 94; ii. 189.

Nux moschata. *Pharm. suec.*—*Berg.* ii. 882. *Carth.*  
iii. 486. *Cull.* ii. 203. *Dale* 302. *Geoffr.* ii. 437.  
*Heb.* 128. *Herm.* i. 255. *Hill* 457. *Lew.* ii. 146.  
*Linn.* 238. *Mill.* *Jos.* 315. *Monro* iii. 186; iv.  
288. *Murr.* vi. 135. *Ploucq. bibl.* i. 12. 484.  
*Rutty* 352. *Schrod.* 629. *Spielm.* 281. *Und.* i. 133.  
318. *Vog.* 257.

Nux myristica. *Und.* i. 124.

Nucista. *Alst.* ii. 303.

Nutmeg. *Chalm.* i. 202. *Fordyce, G. fev.* i. 202;

iii. 253; iv. 131. *Neum.* ii. 189. *Und.* i. 304.  
306.

Muscade. *Chom.* ii. 403; *suppl.* 124.

**MACIS.** Mace. *Pharm. lond.*—*Berg.* ii. 882.  
*Carth.* iii. 490. *Chom.* ii. 403. *Cull.* ii. 205.  
*Geoffr.* ii. 440. *Herm.* i. 253. *Lew.* ii. 78. *Lind*  
*hot clim.* 355. *Linn.* 238. *Monro* iii. 162. *Murr.*  
vi. 135. *Neum.* ii. 192. *Rutty* 298. *Schrod.* 629.  
*Und.* i. 133. *Vog.* 275.

Mace. *Chalm.* ii. 41. *Rush v.* 182.

2. **MYRISTICA<sup>1</sup> tomentosa.** Leaves ovate, tomentose  
underneath; veins simple. Berries tomentose, so-  
litary. *From L. a Willd.* iv. 870. *Thunb. ap.*  
*L. a Murr.* 493.

*M. dactyloides.* *Gaertn.* i. 195. *t. 41.*

*Nux myristica mas.* *Rumph.* ii. 24. *t. 5.*

*La Muscade fausse.* *Sonn. nouv. guin.* *t. 118. f. 3*  
*to 6.*

*Panam-palka.* *Rheede* iv. 9. *t. 5.*

*Nux indica oblonga intrinsecus similis nuci mos-*  
*chatae.* *Bauh. J. i. pars i.* 399. Seed.

*Nux Faufel alia.* *Garc. ap. Clus. exot.* 189, lower-  
most fig. *repr. in*

*Areca, sive Faufel.* *Ger. by Johns.* 1520, upper-  
most of the 3 inner figures. Seed.

**MYRISTICA tomentosa.** *Thunb. & Radl. account*  
*from in med. comment. dec. II. v. 55. 62.*

## SYNGENESIA.

## 952. RUSCUS.

*Calyx* hexaphylloous. *Corolla* none. *Nectarium* ovate. *Antherae* connected. *Style* 1. *Berry* trilocular; cells monospermous. *Obs.* 3149. *L. Vent. tabl. t. 4. f. 1.*

1. **RUSCUS aculeatus.** Flowers on the upper surface of the leaves, without a bractea. Leaves ovate, mucronate. *Obs.* 3149. In a garden.—*Smith in lin. tr.* iii. 334; *brit.* iii. 1073. *L. sp.* 1474. *Bot. arr.* ii. 1132. *Woodv.* iv. 68. *t.* 237. *Thornt. t.* 854. *Gou. hort.* 511; *monsp.* 430. *Host austr.* 538. In Friuli and Littorali.—*Asso n.* 969. *Scop. carn. ii. n.* 1230. In hedges in the warmer parts of Carniola.—*Mill. J. ill. t. Relh. n.* 735. Anglesey Abbey.—*Sibth. ox. n.* 62. Between Caversham and Maple Durham.
- R. foliis supine floriferis nudis.* *L. ups.* 300.
- R. myrtifolius aculeatus.* *Tourn. paris.* 528. *Vaill. paris.* 174. *Boerh.* ii. 63.
- Ruscus.* *Matth. ii.* 1214. *Cam. epit.* 935. *Raii hist. i.* 664; *syn.* 262. In the hedges of a croft near Black Notley in Essex, and found by Bobart in woods in Berkshire and Oxfordshire, and by Dilenius on heaths near Woolwich.—*Trag.* 919.

*Dalech.* i. 243. *Park. theatr.* 253. *Bauh. J.* i.  
pars i. 579. In Italy, the south of France, and  
Burgundy, and observed by Turner in Kent Essex  
and Berkshire.—*Lob. obs.* 362, *repr. in*

*Myrtacantha.* *Lob. ic.* i. 637;

*Ruscum.* *Dod.* 732, &

*R. sive Bruscus.* *Ger. by Johns.* 907. On Hamp-  
stead heath.

*Bruscus.* *Blackw. t.* 155.

Native of Spain, Italy, Carniola, France, Kent,  
Essex, Berkshire, Oxfordshire, and Cambridgeshire.

*RUSCUS.* *Pharm. austriaco-prov.* 61.—*Alst.* i.  
386. *Berg.* ii. 817. *Chom.* 219; *suppl.* 69. *Dale*  
169. *Geoffr. suite* ii. 295. *Herm.* i. 90. 323. *Lew.*  
ii. 283; *disp. by Rother.* 228. *Linn.* 261. *Murr.*  
i. 341. *Rutty* 439. *Schröd.* 667. *Spielm.* 571.  
*Vog.* 223.

*Bruscus.* *Mill. Jos.* 93.

2. *RUSCUS Hypophyllum.* Flowers on the under-  
surface of the leaves, without a bractea. *L. sp.*  
1474. *H. K.* iii. 418. *Host austr.* 539. In the  
Venetian islands.

*R. foliis nudis proné floriferis.* *L. ips.* 300.

*R. latifolius, fructu folio insidente.* *Boerh.* ii. 63.

*Laurus alexandrina, Chamaedaphne.* *Col. ecphr.* i.  
164. *t.* 165.

*Laurus alexandrina vera.* *Dalech.* i. 208; *cop. in*

*Hippoglossum Matthioli.* *Gér. by Johns.* 909, which  
*cop. in*

*Chamaedaphne vera Dioscoridis.* *Park. théatr.*  
700.

*LAURUS alexandrina.* *Lob. adv.* 509, *cop. in*

*Bauh. J. pars i.* 574. *Matth. ii.* 1215. *Raii hist.* i. 663. *Blackw. t.* 194.—*Dale* 169. *Geoffr. suite* ii. 293. *Mill. Jos.* 262.

3. **RUSCUS Hypoglossum.** Flowers on the upper surface of the leaves, covered by a bractea. *L. sp.* 1474. *H. K.* iii. 419. *Scop. carn.* ii. n. 1231. *Host austr.* 539. In Littorali, Croatia, and Hungary.

*R. foliis supine floriferis sub foliolo.* *L. ups.* 300.

*R. angust. folius, fructu folio innascente.* *Boerh.* ii. 63.

*Hypoglosson Laurotaxa.* *Col. ephr.* i. 166. *t.* 165.

*Laurus alexandrina* fructu pediculo insidente. *Raii hist.* i. 663.

*Laurus alexandrina.* *Trag.* 397. *Fuchs.* 237. c. 87, cap. in

*Bonifacia, sive Bislingua.* *Bauh. J. i. pars i.* 575. f. 1. f. 2.

*Laurus Taxa.* *Dalech.* i. 205.

*Hippoglosson Bonifacia.* *Lob. obs.* 362, repr. in *ic.* i. 638, &

*Hippoglossum mas.* *Ger. by Johns.* 908.

*Hippoglossum foemina.* *Ger. by Johns.* 908.

**HIPPOGLOSSUM.** *Blackw. t.* 128. *Dod.* 733.—*Dale* 169. *Mill. Jos.* 231.

*Uvularia.* *Pharm. austriaco-prov.* 75.—*Berg.* ii. 816. *Linn.* 262. *Murr. i.* 342. *Vog.* 142.

## Class 23.

## CRYPTOGAMIA.

## Order 1.

## MONOECIA.

953. SPHAGNUM. *Peristoma* none. *Capsule* with an appendage at the base.
954. HYPNUM. *Peristoma* double; outer with 16 teeth; inner multifid: segments subulate with setaceous segments interposed. *Obs.* 7751.
955. LESKIA. *Peristoma* double; outer with 16 valves; inner multifid; segments subulate. *Obs.* 7747.
956. POLYTRICHUM. *Peristoma* double; outer with 32 and more teeth; inner a flat membrane.

*Order 2.*

## DIOECIA.

957. MARCHANTIA. *Capsule* unilocular, opening at the end with mostly 8 teeth.  
*From Roth.*

*Order 3.*

## GYNOECIA.

I call it the House of females because no stamens have hitherto been discovered.

1. *Capsules without a ring.*

958. EQUISETUM. *Seeds* with 4 filiform appendages.

959. LYCOPODIUM. *Capsule* bivalve, reniform and roundish.

960. OPHIOGLOSSUM. *Capsule* univalve, bipartite.

2. *Capsules circumscinded, bivalve; valves connected by an elastic ring.*

Capsules and seeds so minute that it is difficult to

form an adequate idea of the extreme smallness of the parts constituting the flower, if such there be, and if the parts are proportionately small as in the minuter animals."

961. ACROSTICHUM. *Capsules* covering the surface of the frons.

962. POLYPODIUM. *Capsules* in glomeruli. *Bractea* none.

963. NEPHRODIUM. *Bractea* reniform, inserted by a point.

964. ASPLENIUM. *Bractea* linear, inserted into the surface of the frons.

965. ADIANTUM. *Bractea* inserted at intervals into the margin of the frons.

966. PTERIS. *Bractea* linear, inserted continuously into the margin of the frons.

967. BLECHNUM. *Bracteae* 2, opposite, linear, inserted into the surface of the frons.

3. Seeds disposed on a receptacle. Plants of a leafy and coriaceous texture.

968. LICHEN. Receptacle orbicular and globose.

4. Seeds disposed on a receptacle. Fungi.

969. PEZIZA. Receptacle smooth.

970. PHALLUS. Receptacle reticulate.

971. MERULIUS. Receptacle veined.

972. AGARICUS. *Receptacle* lamellar.973. BOLETUS. *Receptacle* tubular.5. *Seeds in the substance of the plant.*974. LYCOPERDON, A fungus bursting and emitting  
the seeds.

975. TREMELLA. Gelatinous.

976. ULVA. Flat, semitransparent, membra-  
naceous.

977. CONFerva. Filamentose, terete.

978. FUCUS. *Vesicles* pouring out mucus.

## MONOECIA.

## 953. SPHAGNUM.

*Peristoma* none. *Capsule* with an orbicular appen-  
dage at the base. *Obs.* 8600. *L.*1. SPHAGNUM *latifolium*. Leaves ovate, concave,  
rather obtuse. *Obs.* 8600. Specimen gathered in  
a bog.—*Smith brit.* iii. 1145; *engl. t.* 1405.  
*Hedw.**S. obtusifolium.* *Roth. germ.* iii. 118.*S. ramis reflexis, foliis ovatis.* *L. lapp. n.* 415.

- *S. palustre molle deflexum, squamis cymbiformibus.*  
*Dill. musc. 240. t. 32. f. 1.*
- S. cauliferum et ramosum palustre molle candicans,*  
*reflexis ramulis, foliolis latioribus.* *Dill. ap. Raii*  
*syn. 104.*
- *Muscus palustris in ericetis nascens.* *Vaill. paris.*  
139. t. 23. f. 3.
- *Muscus squamosus palustris candicans mollissimus.*  
*Tourn. paris. 505.*
- Muscus palustris albicans terrestris, capitulis erectis*  
*brevibus, pediculis etiam brevissimis insidentibus.*  
*Raii syn. ed. ii. 37.*
- Muscus palustris terrestri similis.* *Raii hist. i. 122.*  
*Scheuch. J. Jac. it. i. 38.*
- Muscus terrestris vulgaris.* *Lob. ic. ii. 242, repr. in*  
*Dod. 469, & Ger. by Johns. 1559.*
- (*Muscus stellatus & caudatus, caule alato praeditus.*  
*Scheuch. J. Jac. it. i. 38. t. 5. f. 4,* is *S. capillaceum.*)
- SPHAGNUM palustre a.* *L. sp. 1569; suec. n.*  
959 *Bot. arr. iii. 71. Scop. carn. ii. n. 1284.*  
—*Tutin, account from in chir. rev. xi. part ii.*  
80.

## 954. HYPNUM.

*Peristoma double; outer with 16 teeth; inner multifid; segments subulate and setaceous.* *Obs. 7751.*  
*Hedw. L.*

1. *HYPNUM castrense.* Leaves secundose, recurvate, triangulare-subulate, without ribs. Branches distichous, approximate, recurvate at the end. Cap-

sules oval. Opercula conic. *Obs.* 8399. Specimen gathered by Mr. Griffith in North Wales.

*H. Crista castrensis.* *L. succ.* *n.* 1022; *sp.* 1591. *Bot. arr.* iii. 125. *Roth. germ.* iii. 282.

*H. molluscum.* *Smith brit.* iii. 1335; *engl. t.* 1327.

*H. silicinum cristam castrensem repraesentans.* *Dill. musc.* 284. *t.* 36. *f.* 20. A. On chalk hills between Northfleet and Gravesend in Kent, and specimens from Pennsylvania growing at the roots of trees.

*H. rainulis plano-pinnatis,* pinnis contiguis apicibus deflexis. *L. lapp.* *n.* 407.

*Muscus terrestris repens subflavus,* foliis crispis minoribus ramulisque densius confertis. *Vaill. paris.* 141. *t.* 27. *f.* 14. The best fig.

*HYPNUM castrense.* *Schoepf* 157.

2. *HYPNUM velutinum.* Stem creeping. Branches crowded, erect. Leaves ensiformi-ovate, patent, as short again as the capsules; costa evanescent upwards. Peduncles slightly scabrous, inserted into the stem. *Obs.* 574. At the base of the trunks of trees.—*L. suec.* *n.* 1037; *sp.* 1595. *Bot. arr.* iii. 140. *Roth. germ.* iii. 308. *Smith brit.* iii. 1305; *engl. t.* 1568. *Fl. dan.* *t.* 475.

*H. velutinum,* capsulis oyatis cernuis. *Dill. musc.* 326. *t.* 42. *f.* 61.

*H. repens trichoides terreste viridius minus,* capitulis tumioribus cernuis. *Dill. ap.* *Raii syn.* 84.

*Muscus squamosus ramosus tenuior,* capitulis incurvis. *Vaill. paris.* 138. *t.* 26. *f.* 9. Leaves too adpressed.

*Muscus terrestris repens parvus,* capitulis brevibus tumidis nonnihil incurvis et nutantibus. *Raii syn.* cd. ii. 38.

*Muscus ex crano.* *Bauh. J.* iii. pars ii. 764. No fig.

*MUSCUS terrestris.* *Mill. Jos.* 302.

*Muscus vulgaris terrestris, adianti aurei capitulis.*  
*Geoffr. suite* iii. 413.

3. *HYPNUM triquetrum.* Branches recurvate. Leaves ovate, attenuate, bilobate, patent. *Obs.* 580. In a wood.—*L. suec. n.* 1016; *sp.* 1589. *Bot. arr.* iii. 123. *Roth. germ.* iii. 267. *Smith. brit.* iii. 1325; *engl. t.* 1622.

*H. ramis inaequalibus, foliis laxe imbricatis triangularibus acutis.* *L. lupp. n.* 409.

*H. vulgare triangulum maximum et pallidum.* *Dill. musc.* 293. *t.* 38. *f.* 28.

*H. repens, triangularibus majoribus et pallidioribus foliis.* *Dill. ap. Raii syn.* 80.

*Muscus ramosus major erectus spermophorus.* *Vaill. paris.* 137. *t.* 38. *f.* 9.

*Muscus terrestris maximus ramosus erectior, latioribus foliis.* *Raii syn. ed.* ii. 36.

*Muscus terrestris, latioribus foliis major, seu vulgaris.*  
*Raii syn. ed.* i. 17; *hist.* 122.

Leaves microscopically serrate, with 2 lines running towards the point, from the base to about two thirds of the way to the point, in place of a midrib, parallel to and near each other below, rather separating from each other above. Capsules rare. Peduncles erect, longer and generally as long again as the branches, after seedling twisted, if put into hot water rapidly untwisting. *Obs.* 850.

*MUSCUS vulgaris.* *Spielm.* 387.

*Muscus terrestris vulgatior.* *Geoffr. suite* i. 86.

## 955. LESKIA.

*Peristoma* double; outer with 16 valves; inner multifid; segments subulate. *Obs.* 7747. *L. & Schreb.* n. 1657. *Roth germ.* iii 326. *Hedw.*

1. **LESKIA sericea.** Stem creeping. Branches ascending, crowded, branched. Leaves ensiform-triangular, nervose. Capsules erect, ovato-oblong. Operculum conic. *Obs.* 8400. *Roth germ.* iii. 349. *Hedw.*

*Hypnum sericeum.* *L. suec.* n. 1036; sp. 1595. *Bot. arr.* iii. 139. *Curt. lond.* ii. 69. t. *Smith brit.* iii. 1282; *engl.* t. 1445.

*H. vulgare sericeum recurvum, capsulis erectis cuspidatis.* *Dill. muc.* 323. t. 42. f. 59.

*Muscus arboreus splendens sericeus.* *Vaill. paris.* 132. 138. t. 27. f. 3, if intended for the plant is not a good representation of it.

*H. repens trichoides terrestre luteo-virens vulgare majus, capitulis erectis.* *Dill. ap. Raii syn.* 84. *Hill in ph. tr. abr. by Hutt.* ix. 200. t. 4. f. 7 to 11.

*Muscus terrestris luteo-viridis sericeus repens.* *Raii syn. ed.* ii. 38.

*Muscus.* *Trag.* 946, (the stems and fructifications belong to other plants;) *cop. in*

*Muscus I terrestris.* *Dalech.* ii. 1323, & *imit. in*

*Muscus ex crano humano.* *Ger. by Johns.* 1563, with the addition of a human skull, which *cop. in*

The mosse upon dead mens sculls. *Park. theatr.* 1313.

Leaves entire at the margin, with 4 and 5 ribs, some of which double, when wet brownish green, pubescent, somewhat secundose, when dry yellowish and bright green, shining, adpressed. Capsule with a ring. Peristoma, outer, valves subulate, finely pointed, transversely striate; inner shorter than the outer, plaited, toothed, but from all the specimens I examined I could not satisfy myself whether the teeth were of one or two kinds. Obs. 8400.

*USNEA*. Dale 61. Geogr. suite iii. 412.

*Usnea cranii humani*. Spielm. 387.

## 956. POLYERICHUM.

Peristoma double; outer with 32 and more teeth; inner extended across the mouth of the capsule.

Obs. 1495. Hedw. L.

1. *POLYTRICHUM yuccifolium*. Capsule quadrilateral, with an apophysis at the base. Leaves serrulate. Obs. 1495. In a bog.—Ehrh.

*P. commune*. Menz. in lin. tr. iv. 74. Smith brit. iii. 1872; engl. t. 1197. Roth. germ. iii. 346. L. suec. n. 966  $\alpha$ ; sp. 1573  $\alpha$ . Bot. arr. iii. 81  $\alpha$ .

*P. caule simplici*. L. lapp. n. 395.

*P. quadrangulare vulgare*, *juccae foliis serratis*. Dill. musc. 420. t. 54. f. 1.

*P. vulgare et majus*, *capsula quadrangulari*. Dill. ap. Raii syn. 90.

*Muscens juniperifolius*, *capitulo quadrangulo*. Vaill. paris. 131. t. 23. f. 8. No fructifications.

- Muscus capillaceus major, pediculo et capitulo crassioribus. *Tourn. paris.* 497.
- P. Apulei majus. *Fuchs.* 601. c. 241, cop. in
- P. primum. *Trag.* 528,
- P. Apulei majus quibusdam. *Bauh. J.* iii. part ii. 760, &
- Muscus capillaris. *Dod.* 472, inner fig. which repr. in
- Muscus capillaris, sive Adiantum aureum majus. *Ger. by Johns.* 1559, outer fig. & cop. in
- P. aureum majus. *Dalech.* ii. 1212, outer fig.—  
*Park. theatr.* 1052, inner fig.
- Muscus. *Trag.* 946, upper inner fig.
- Adiantum aureum majus. *Raii hist.* i. 123; cat. ed. ii. 7; syn. ed. ii. 28.
- Muscus scoparius. *Lab. obs.* 645, repr. in *ic.* ii. 245, &
- Muscus terrestris scoparius. *Ger. by Johns.* 1559, & cop. in *Park. theatr.* 1307. No fructifications.  
Stem 6 to 12 inches long. Leaves, lamina ensiform. Capsule nearly 2 tenths of an inch long. Obs. 1495.
- POLYTRICHUM** aureum. *Berg.* ii. 854. *Herm.* i. 566.
- Adiantum aureum. *Dale* 61. *Geoffr.* iii. 40. *Mill. Jos.* 16. *Murr.* v. 494. *Schoepf* 157. *Schrod.* 527. *Spielm.* 372.
- Muscus capillaris. *Alst.* i. 353.
- Muscus capillaceus major, pediculo et capitulo crassioribus. *Chom.* i. 288.
- $\beta$  minus. (Variation.) Smaller than  $\alpha$ . Capsules

one third shorter than those of  $\alpha$ . Obs. 8371. Specimen gathered by W. Russel, probably near Ludlow.

P. commune  $\beta$ . L. suec. n. 966; sp. 1573. Bot. arr. iii. 81.

P. juniperinum. Smith brit. iii. 1375; engl. t. 1200.

P. quadrangulare, juniperi foliis brevioribus et rigidioribus. Dill. musc. 424. t. 54, f. 2. The specimens under this name in Dillenius's herbarium which Dr. Smith examined were P. replicatum, but whatever plants Dillenius inserted in his herbarium, what he described and figured must have been this species, which so much resembles P. replicatum, that I have more than once found both species in the same paper.

P. montanum et minus, capsula quadraangulari. Dill. ap. Raii syn. 90.

Muscus juniperi folio, roseus prolifer. Vaill. paris. 131. t. 23. f. 7.

Adiantum pileolo villoso, medium. Raii syn. cd. ii. 28.

Adiantum aureum medium in ericetis proveniens.  
Pet. ap. Raii syn. ed. ii. 323.

(Muscus erectus, juniperi folio glauco rigido, calyptra longissima. Vaill. paris. 131. t. 23. f. 6, has no apophysis.

Muscus ericetis proveniens. Lob. ic. ii. 243, repr. in

Muscus parvus stellaris. Ger. by Johns. 1563, & cop. in Park. theatr. 1808, seems rather to be a Lichen.)

*Stem* 3 inches long. *Capsule* one third of the tenth of an inch long. *Obs.* 8371.

*ADIANTUM aureum.* *Linn.* 275. *Schrod.* 527.  
*Vog.* 92.

## DIOECIA.

### 957. MARCHANTIA.

*Capsules* obovate, unilocular, opening at the end, mostly octodentate. *From Roth.* *L.*

1. *MARCHANTIA decemfida.* Receptacles pedunculate, those of the female flowers decemfid. *Obs.* 1492. In a moist damp walk in a garden.
- M. polymorpha.* *L. suec. n.* 1051; *sp.* 1603; *mant.* 507. *Roth germ.* iii. 417. *Bot. arr.* iii. 158. 26. *t.* 15. *f.* 60 to 64. *Smith engl. t.* 210.
- M. calice communi decempartito lacinis linearibus.* *L. lapp. n.* 422.
- HEPATICA fontana.* *Geoffr.* iii. 552. *Rutty* 234. *Spielm.* 381.
- Hepatica stellata.* *Dale* 61.
- Hepatica.* *Alst.* i. 353. *Lew.* i. 493.
- Hepatica terrestris.* *Chom.* ii. 501.
- Lichen.* *Schrod.* 614.
- α lineata.* Veins purplish black. *From Dill. & Roth.*  
*L. suec. α;* *sp. α;* *Bot. arr. α*
- M. major,* capitulo stellato radiis teretibus. *Mich.* *gen. 2. t. 1. f. 1.*

- Lichen fontanus major stellatus aequa ac umbellatus et cyathophorus.* *Dill. musc.* 523. *t.* 76.
- Lichen petraeus latifolius, sive Hepatica fontana.*  
*Dill. ap.* *Raii syn.* 115.
- Hepatica officinarum.* *Vaill. paris.* 97.
- Lichen, sive Hepatica.* *Fuchs.* 463. *c.* 180, *cop. in Jecoraria, sive Hepatica fontana.* *Trag.* 523, &
- Lichen, sive Hepatica fontana.* *Bauh. J.* iii. *pars ii.* 758.
- Lichen.* *Dod.* 470; *repr. in Lob. obs.* 646; outer fig. *ic.* ii. 246, outer fig. &
- Hepatica petraea.* *Ger. by Johns.* 1565, & *cop. in Lichen Matthioli.* *Dalech.* i. 1084.
- & concolor.* Veins green. *From Dill. & Roth.* *L. suec.*  $\beta$ ; *sp.*  $\beta$ . *Bot. arr.*  $\beta$
- M. polymorpha minor.* *Roth. germ.* iii. 418.
- M. capitulo stellato radiis teretibus.* *Mich. gen.* 2. *t.* 1. *f.* 2.
- Lichen domesticus minor stellatus aequa ac umbellatus et cyathophorus.* *Dill. musc.* 527. *t.* 77. *f.* 7.
- Hepatica petraea umbellata.* *Vaill. paris.* 97.
- Lichen petraeus stellatus.* *Raii hist.* i. 125; *syn.* 115.
- Lichen.* *Lob. obs.* 646, two inner figures, *repr. in ic.* ii. 246, two inner figures, &
- Hepatica stellata et umbellata.* *Ger. by Johns.* 1565; *cop. in*
- Lichen Lobellii.* *Dalech.* i. 1085, the uppermost *cop. in*
- Lichen, sive Hepatica minor umbellatus.* *Park. theatr.* 1314, and the lowermost *in*
- Lichen, sive Hepatica minor stellaris.* *Park. theatr.* 1314.

2. MARCHANTIA *conica*. Receptacles of the female flowers pedunculate, of the male flowers sessile.  
*Obs.* 8916. Specimen gathered between Leeds and Kirkstall abbey.—*Roth germ.* iii. 421. *L. sp.* 1604; *mant.* 507. *Bot. arr.* iii. 159. 27. *t.* 15. *f.* 65 to 67. *Hedw. theor.* *t.* 25. *f.* 134 to 136. *Schmid.* *t.* 31. *Smith engl.* *t.* 504. *Fl. dan.* *t.* 274. Female.
- Hepatica vulgaris major*, sive *officinarum italiae*. *Mich. gen.* 3. *t.* 2. *f.* 1.
- Lichen vulgaris major pileatus*. & *verrucosus*. *Dill. musc.* 516. *t.* 75. *f.* 1.
- Lichen petraeus pileatus*. *Dill. ap. Raii syn.* 114.
- Hepatica reticulata et verrucosa*. *Vaill. paris.* 97. *t.* 33. *f.* 8.
- Lichen petraeus, caulinulo pileolum sustinente*. *Boerh.* i. 17. In Holland.
- Lichen*, sive *Hepatica vulgaris*. *Raii cat. ed.* i. 192; *ed.* ii. 184; *hist.* i. 124; *syn. ed.* i. 20; *ed.* ii. 40, with erroneous synonyms.
- Lichen pileatus Plinii primus*. *Col. ecphr.* i. *t.* 331, *cop. in*
- Lichen marinus pileatus*. *Park. theatr.* 1314, upper fig.
- Lichen verrucosus*. *Doody ap. Raii syn. ed.* ii. 41.
- HEPATICA vulgaris*. *Dale* 61. *Mill. Jos.* 228. *Rutty* 234.

## GYNOECIA.

## 958. EQUISETUM.

*Capsules* with from 4 to 7 cells. *Seeds*: globular, with 4 filiform appendages. *Obs.* 7363. *L.* a Schreb. 753. *L.*

1. EQUISETUM *hyemale*. Stem nearly simple, scabrous. Margin of the leaves crenate. *Obs.* 7377. Specimen gathered in the Earl of Plymouth's garden.—*L. lapp. n.* 394; *suec. n.* 931; *sp.* 1517. *Huds.* 448. *Lightf.* ii. 650. *Bot. arr.* iii. 44.  $\alpha \beta$ . *Poll.* iii. *n.* 932. *Smith brit.* iii. 1105; *engl. t.* 915. *Bolt. fil. t.* 39.

*E. scapo nudo simplicissimo.* *Roy.* 496.

*E. foliis nudum non ramosum, seu juncuum.* *Bauh.* *Casp. theatr.* 248. *Tourn. paris.* 438. *Vaill. paris.* 49. *Boerh.* ii. 107. In Holland.

*E. nudum.* *Raii hist.* i. 129; *syn.* 131. *Ger. by Johns.* 1113, *abr. in*

*E. juncum, sive nudum.* *Park. theatr.* 1201, outer fig.

*Hippuris.* *Trag.* 692, *cop. in*

*E. juncum.* *Dalech.* i. 1071, & *abr. in*

*E. majus aquaticum.* *Bauh. J.* iii. 729. *f. 1,* (the descr. belonging to *E. limosum*.) I have never observed the short branches proceeding from the upper joints as there represented, and described by Haller.

Equisetum. *Cam. epit.* 770. *f. A.*

*Stems* 28 inches long, erect, slightly curved, attenuate, striate, microscopically tuberculate, fistular. *Leaves* vaginant, cylindric, somewhat wider than the stem, one surrounding the base of each internodium, one third longer than the breadth of the stem; margin obsoletely crenate; teeth obtuse. *Obs.* 7377.—*Leaves*, the uppermost cyathiform, furrowed, obsoletely crenate; teeth obtuse. *Spike* oblong, grey,  $\frac{1}{2}$  inch long. *Calyces* peltate, hexagonal, blackish, longitudinally striate; margin whitish. *Obs.* 7378. Specimen from Withering.

*EQUISETUM hyemale.* *Spielm.* 418.

*E. majus.* *Berg.* ii. 841.

2. *EQUISETUM fluviale.* Stem branched. Branches scabrous with acute points pointing forwards. *Obs.* 7384. Specimen gathered probably near Worcester.—*L. lapp. n.* 393; *suec. n.* 930; *sp. 1547.* *Huds.* 448. *Lightf.* ii. 649. *Bot. arr.* iii. 43. *Smith brit.* iii. 1104. *Bolt. fil. t.* 36. 37. *E. palustre,* longioribus setis. *Vaill. paris.* 48. *Boerh.* ii. 107. In Holland.

*Hippuris major*, sive *E. majus.* *Ded.* 73, *cop. in* *E. majus palustre.* *Park. theatr.* 1200, & *repr. in* *Hippuris.* *Lob. ic. i.* 793,

*E. majus.* *Lob. obs.* 461, & *Ger. by Johns.* 130. *Raii hist.* i. 128, the descr. only of the roots and fertile stems from J. Bauhine;—*syn.* 130.

*E. longius.* *Fuchs.* 318. *c. 122, cop. in* *E. majus aquaticum.* *Bauh. J.* iii. 729. *f. 2.* *E. I.* *Dalech.* i. 1069.

Stem attenuate, smooth, brownish white, glabrous except towards the joints where sometimes obsoletely

and microscopically tuberculate. *Leaves* cylindric, closely vaginant, striate, scabrous, multifid; segments subulate, somewhat setaceous upwards, adpressed. *Branches* many in a whirl, erect, tetragonous; angles sulcate; aculei short. *Leaves* of the branches broader than the branch, quadrifid; segments subulate, setaceous at the end, carinate; carina decurrent. *Obs.* 7384.

*EQUISETUM majus*. *Geoffr.* iii. 433.

*E. palustre*, longioribus setis. *Alst.* ii. 133. *Chom.* ii. 599. *Rutty* 181.

*Equisetum*. *Lew.* i. 415. *Sauv. nos.* ii. 401?

*Cauda equina*. *Dale* 62. *Mill. Jos.* 124.

3. *EQUISETUM palustre*. Stem branched, sulcate.

Segments of the leaves of the stem membranaceous at the margin, of those of the branches erect. *Obs.* 7382.

Specimen gathered near Worcester.—*L. lapp.* *n.* 392; *suec.* *n.* 929; *sp.* 1516. *Huds.* 448. *Poll.* *iii.* *n.* 950. *Lightf.* *ii.* 648. *Bot. arr.* *iii.* 42. *Bolt. fil. t.* 35. *Smith brit.* *iii.* 1103. *Raii hist.* *i.* 129; *syn.* 131. *Lob. ic.* *i.* 795, *repr. in Ger. by Johns.* 1114, & *cop. in*

*E. palustre minus*. *Park. theatr.* 1200.

*E. setis simplicibus internodia vix superantibus*. *Roy.* 496.

*E. palustre*, *brevioribus setis*. *Vaill. paris.* 48. *Boerh.* *ii.* 107.

*Hippuris minor*. *Trag.* 694.

*EQUISETUM palustre*. *Murr.* v. 483. *Schrod.* 586.

4. *EQUISETUM arvense*. Fertile stem simple, barren stem branched. Leaves of the fertile stem noveinfid, wider than the stem; those of the branches of

the barren stem quadrisid; segments patulous. Obs. 597. Near Worcester. 26 Apr.—*L. lapp. n.* 390; *succ. n.* 928; *sp.* 1516. *Huds.* 447. *Lightf.* ii. 647. *Bot. arr.* iii. 41. *Bolt. fil. t.* 34.

*E. setis simplicibus internodio multoties longioribus.*  
*Roy.* 496.

*E. pratense,* longissimis setis. *Dill. ap.* *Raii syn.* 131.

*Cauda equina.* *Blackw.* *t.* 217.

*Hippuris minor,* cum flore. *Dod.* 73, *imit. in*

*E. arvense,* longioribus setis. *Bauh. Casp. theatr.* 247, with a barren stem added.—*Raii hist.* i. 128; *syn.* 130. *Vaill. paris.* 48. *Boerh.* ii. 107. In Holland.

*Equiseti minoris flores.* *Dalech.* i. 1070.

*Hippuris minor,* absque flore. *Dod.* 73. *f. 2,* *repr. in* *Hippuris minor.* *Lob. ic.* i. 794. *f. 2, &*

*E. sylvaticum.* *Ger. by Johns.* 1114, & *cop. in*

*E. alterum, sive minus.* *Dalech.* i. 1070, &

*E. pratense majus.* *Park. theatr.* 1202. Barren stem.

*E. minus.* *Fuchs.* 318. *c.* 122, barren stem, *cop. in* *Hippuris altera.* *Trag.* 692, &

*E. minus terrestre.* *Bauh. J.* iii. 730, with the addition of a fertile stem.

*E. nudum minus variegatum basileense.* *Dill. ap.* *Raii syn.* 130, from Robinson's westm.

*Fertile stems* 2, from 6 to 10 inches long, erect, smooth, silvery brown, with several tubes within; central tube the largest; those of the circumference 9, 3 or 4 times narrower, with 9 very minute ones in the space between the central tube and those of the circumference. *Leaves vaginant,* silvery brown, ventricose, 4 times wider than the stem, with 9 furrows

extending from the commissures of the segments. *Spike* lanceolato-oblong, brown, terminal. *Peduncle* 4 times longer than the leaves. *Obs.* 597.—*Barren stems* microscopically tuberculate, striate; branches quadrangular; angles acute; sides acute, canaliculate. *Leaves* of the stem subulate, erect, blackish brown at the end; margins membranaceous; leaves of the branches quadrisid; segments patulous. *Obs.* 7381. Specimens gathered near Worcester.

*EQUISETUM arvense*. *Berg.* ii. 842. *Spielm.* 418.

*E. arvense*, longioribus setis. *Alst.* ii. 133. *Boecl.* in *Herm.* i. 553.

*E. pratense*. *Schrod.* 586.

*E. minus*. *Geoffr.* iii. 434.

*Equisetum*. *Linn.* 271. *Murr.* v. 483. *Schoepf* 156. *Vog.* 61.

*Cauda equina minor*. *Dale* 62.

## 959. LYCOPODIUM.

*Capsule* reniform and roundish, unilocular, bivalve, polyspermous. *Obs.* 6646. *L.*

1. *LYCOPODIUM clavatum*. Leaves sparse, setaceous at the end. Spikes terete, pedunculate, mostly in pairs. *Obs.* 6646. On a common between Grange mill and Brassington in Derbyshire.—*L. suec.* n. 952, in woods; *sp.* 1564. *Bot. arr.* iii. 68. *Smith engl.* t. 224; *brit.* iii. 1108, *Gou. hort.* 530; *monsp.* 444. *Scop. carn.* ii. n. 1278. In woods;—*Jacq. vind.* 182. In moun-

tainous woods.—*Host austr.* 550. In woods.—

*Roth germ.* i. 442. On heaths, and in woods and forests.

*L. caule repente, foliis patulis, pedunculis spica gemina terminatis.* *L. lapp.* n. 418. In woods.

*L. vulgare pilosum amfragosum & repens.* *Dill. musc.* 441. t. 58. f. 1.

*Muscus terrestris repens, pediculis foliaceis, binis clavis in altum se erigentibus.* *Pluk.* t. 47. f. 8.

*L. vulgare,* *Vaill. paris.* 123.

*Lycopodium.* *Dill. ap. Raii syn.* 107.

*Muscus terrestris clavatus.* *Tourn. paris.* 505. In woods.

*Muscus terrestris, sive Lycopodium.* *Dod.* 469, repr. in

*Muscus clavatus, sive Lycopodium.* *Ger. by Johns.* 1562. *Raii hist.* i. 120; *syn. ed.* ii. 25. *Park, theatr.* 1307, *repr. in* "

*Muscus terrestris repens, a Trago pictus.* *Bauh.* J. iii. pars ii. 766.

*Muscus terrestris.* *Trag.* 555, *repr. in*

*Chamaepence.* *Cord. sol.* iii. p. 2, & *cop. in*

*Muscus alias terrestris.* *Dalech.* ii. 1324.

Stem to 7 feet long. Between Midhope and Strowins in the west riding of Yorkshire between Penistone and Hope in Derbyshire.—Peduncles with 3 and 2 spikes. *Obs.* 8354. On Broomhead moor.—Bracteae ovate, setaceous at the end. *Obs.* 6646.

Native of Europe from Italy to Lapland, on the continent in woods forests and heaths, in Britain on heaths and mountains.

**LYCOPODIUM.** *Pharm. austriaco-prov.* 46. *suec.*—*Carth.* iv. 153, 325. *Dale* 60. *Fontaine,*

*account from in ann. med. i. 10. Geoffr. suite i. 87.  
Lew. disp. by Dunc. 343. Murr. v. 486. Neum.  
ii. 226. Spielm. 384.*

*L. clavatum. Heldenbrand, account from in phys.  
journ. iv. 89.*

*Muscus clavatus. Alst. i. 353. Berg. ii. 851. Linn.  
274. Vog. 109. 169.*

*Muscus terrestris. Ploucq. bibl. i. 193. Schrod.  
631.*

2. LYCOPODIUM *Selago.* Leaves sparse, octofarious. Stem dichotomous, erect, fastigiate. Capsules sparse. *L. suec.* 955; *sp.* 1565. *Bot. arr.* iii. 70. *Smith engl. t.* 233; *brit.* iii. 1111. *Fl. dan.* *t.* 104.

*L. caule erecto dichotomo. L. lapp. n.* 420.

*Selago vulgaris, abietis rubrae facie. Dill. musc.  
435. t. 56. f. 1.*

*Musci terrestris species altera. Scheuch. J. Jac. it.  
i. 39. t. 6. f. 2.*

*Selago foliis et facie abietis. Dill. ap. Raii syn.  
106.*

*Muscus erectus abietiformis. Hist. ox. s. 5. t. 5.  
f. 9.*

*Muscus erectus abietiformis terrestris rectus. Raii  
syn. ed. ii. 27.*

*Germina* solitary, reniform, at the base of the leaves of the last shoots, containing a soft pulp apparently consisting of globular seeds. *Capsules* of last year, empty, at the base of the leaves of last year's shoot, reniform, bivalve; valves reniform, parallel to the leaves. *Obs.* 6647. On the East moor near Chesterfield, and Kinder Scout near Hayfield in Derby-

shire, compared with specimens gathered on Skiddaw in Cumberland, and in the Highlands.

*SELAGO.* *Vog.* 119.

*Muscus erectus.* *Pharm. suec.*—*Berg.* ii. 854. *Linn.* 275. *Murr.* v. 492. *Schoepf* 157.

## 960. OPHIOGLOSSUM.

*Capsule unilocular, univalve, bipartite.* *Obs.* 5168.  
*L.*

1. **OPHIOGLOSSUM *spicatum*.** Capsules spicate.  
*Obs.* 5168. In a meadow near Worcester.
  - O. *vulgatum.* *L. suec.* n. 932; *sp.* 1518. *Bot. arr.* iii. 45. *Smith engl.* t. 108; *brit.* iii. 1106. *Hist. ox.* s. 14. t. 5. *row 3. f. 1. Fl. dan.* t. 147. *Bolt. fil.* t. 3. *Boerh.* i. 27. In Holland.
  - O. *simplex.* *Rumph.* vi. 153. *t.* 68, where for pedes read pollices, judging from the comparative lengths of the leaf and stem in the fig.
  - O. aut *Lingua serpentina.* *Fuchs.* 566. c. 221, *cop. in*  
*Ophioglosson.* *Bauh. J.* iii. 708. *Dod.* 139, *repr.*  
*in Ger. by Johns.* 404, &
  - OPHIOGLOSSUM.** *Lob. obs.* 471. *Raii hist.* i. 126; *syn.* 128. *Cam. epit.* 364, *cop. in Park. theatr.* 506.—*Dale* 62. *Geoffr. suite* i. 252. *Mill. Jos.* 320. *Vog.* 134.
  - Langue de serpent. *Chom.* ii. 665; *suppl.* 186.
2. **OPHIOGLOSSUM *Lunaria.*** Capsules paniculate. Leaf pinnate. *Obs.* 5167. Specimen gathered by Broughton in the Highlands.

Osmunda Lunaria. *L. suec.* *n.* 934; *sp.* 1519.  
*Bot. arr.* iii. 46. *Smith engl.* *t.* 318; *brit.* iii.  
 1107. *Bolt. fil.* 4. *Fl. dan.* *t.* 18. *f.* 1.

Osmunda. *L. lapp.* *n.* 389.

Osmunda foliis lunatis. *Tourn. paris.* 512. *Vaill.*  
*paris.* 155.

Lunaria. *Dod.* 139, *repr. in*

Lunaria racemosa. *Lob. obs.* 470, *ic. i.* 807, &

Lunaria minor. *Ger. by Johns.* 405, & *cop. in*  
*Park. theatr.* 507. *Dalech.* ii. 1313. *Fuchs.* 470.  
 c. 184, *cop. in*

Lunaria Botrytis. *Bauh. J.* iii. *pars ii.* 709, &

LUNARIA. *Trag.* 914.—*Date* 62. *Mill.* *Jos.*  
 275.

### 3. OPHIOGLOSSUM *Osmunda*. Capsules paniculate.

Leaf bipinnate. *Obs.* 5169. Specimen gathered  
 by Dr. Cutler in New England.

Osmunda regalis. *L. suec.* *n.* 933; *sp.* 1521. *Bot.*  
*arr.* iii. 47. *Smith engl.* *t.* 209; *brit.* iii. 1108.  
*Bolt. fil.* *t.* 5. *Fl. dan.* *t.* 217.

Osmunda vulgaris et palustris. *Vaill. paris.* 155.

Filix ramosa non dentata florida. *Raii syn.* 125.

Filicis majoris alterum genus. *Trag.* 543, *repr.*  
*in*

Filix latifolia. *Cord. fol.* 134. *p.* 1, & *cop. in*

Filix floribus insignis. *Bauh. J.* iii. *pars ii.* 736.

Osmunda regalis, sive Filix florida. *Tourn. paris.*  
 512. *Park. theatr.* 1038, &

Osmunda regalis summitates cum floribus. *Park.*  
*theatr.* 1038, *cop. from*

Filix palustris. *Dod.* 460, *which repr. in*

Filix florida, sive Osmunda regalis. *Ger. by Johns.*  
 1131, &

*OSMUNDA*. *Lob. obs.* 474.—*Herm.* i. 107.

*Filix florida*. *Alst.* i. 445. *Dale* 65. *Geoffr.* iii. 477. *Mill. Jos.* 198.

*Filix ramosa non dentata florida*. *Chom.* ii. 488.

4. *OPHIOGLOSSUM scandens*. Stem flexuose, terete. Leaves conjugate; folioles pinnate; pinnae bearing spikes on both margins. *L. sp.* 1518. *Forst. G. austral.* n. 412.

*ADIANTHUM volubile*. *Rumph.* vi. 75. t. 32. f. 2, 3.

5. *OPHIOGLOSSUM zeylanicum*. Peduncle solitary.

Leaves mostly tripartite. *From*

*Osmunda zeylanica*. *L. sp.* 1519.

*OPHIOGLOSSUM laciniatum*. *Rumph.* vi. 153. t. 68. f. 3.

## 961. ACROSTICHUM.

*Capsules covering the under surface of the fronds.*

*L.*

1. *ACROSTICHUM siliquosum*. Frondes pinnate; pinnae alternate with linear pinnules from the upper margin; lower pinnae bipartite. *L. sp.* 1527.

A. fronde pinnata, pinnis alternis sursum pinnulatis linearibus inferioribus bipartitis. *L. am.* i. ed. ii. 155. n. 7. t. at p. 160. f. 3.

*MILLEFOLIUM aquaticum*. *Rumph.* vi. 176. t. 74. f. 1.

## 962. POLYPODIUM.

*Capsules in orbicular masses on the under surface of the frons. Bractea none. Obs. 171. L.*

## 1. Examined.

1. POLYPODIUM *vulgare*. Frondes pinnatifid. Pinnae oblong, slightly serrate, obtuse. Root squamous. *L. sp.* 1544. *Bot. arr.* iii. 55. *Walc. t. Bolt. fil. t.* 18. *Curt. lond.* i. 12. *t.* 68; *mat. med. t.* 10. *Woodv. iv.* 153. *t.* 271. *Smith brit.* iii. 1113; *engl. t.* 1149.

*Polypodium. Fuchs.* 562. *c.* 224, *cop. in Trag.* 540, *which repr. in Cord. fol.* 171. *p. 2, & cop. in*

*P. minus. Dod.* 461, *which repr. in*

*P. quercinum. Ger. by Johns.* 1132.

*Filicula, sive Polypodium. Cam. epit.* 993.

*P. majus. Dod.* 461, *repr. in*

*POLYPODIUM. Ger. by Johns.* 1132.—*Pharm. austriaco-prov.* 58; *suec.*—*Alst.* i. 496. *Bart.* 42. *Berg.* ii. 844. *Carth.* ii. 178. *Chom.* i. 74. *Dale* 63. *Geoffr. suite* ii. 45. *Herm.* i. 146. *Lew.* ii. 243; *disp. by Dunc.* 346; *by Rother.* 220. *Linn.* 273. *Murr.* v. 449. *Rutty* 405. *Schrod.* 771. *Spielm.* 569. *Vog.* 204.

*P. vulgare. Chom.* ii. 486. *Neum.* ii. 139.

*P. quercinum. Mill. Jos.* 355. *Scop.* 131.

## 2. Not examined.

2. POLYPODIUM *quercifolium*. Barren frondes sessile, shorter, obtuse, sinuate; fertile frondes pinnatifid; laciniae alternate, lanceolate. *L. sp.* 1547.

*POLYPODIUM indicum pilosum.* *Rumph.* vi.  
78. t. 36.

3. *POLYPODIUM medullare.* Frondes bipinnate. Folioles pinnate, very acuminate. Pinnae oblong, subsalicate, acute, crenate. Stipes rough. Caudex arboreous. *Forst. G. esc.* 74.
4. *POLYPODIUM dichotomum.* Frondes dichotomous, bipinnate. Pinnules linear, entire, parallel. *Thunb. ap. L. a Murr.* 938; *jap.* 338. t. 37.—*Forst. G. esc.* 75.

5. *POLYPODIUM Baromez.* Frondes bipinnate. Pinnae pinnatifid, lanceolate, serrate. Roots woolly. *L. sp.* 1553?

Tartarian Lamb. *Sloane in ph. tr. abr. by Hult.* iv. 345.

*AGNUS SCYTHICUS.* *Dale* 66.

Poco Sempic. *Breyne in ph. tr. abr. by Hult.* vii. 103. *Grew. mus.* 386.

## 963. NEPHRODIUM.

*Bractea reniform, inserted by a point into the under surface of the frons.* *Obs.* 7366. *Michaux* ii. 266.

1. *NEPHRODIUM crenatum.* Frondes pinnate and bipinnate. Pinnules oblong, serrate on the lateral margins, crenate at the end. *Obs.* 6545. Specimen gathered on a bank.

*Polystichum Filix mas.* *Roth germ.* iii. 82.

*Aspidium Filix mas.* *Smith brit.* iii. 1121; *engl. t.* 1458. *Swartz.*

*Polypodium Filix mas.* *L. suec. n.* 946; *sp.* 1551. *Bot. arr.* iii. 60. *Huds.* 458. *Lightf.* ii. 671. *Bolt. fil. t.* 24. *Gort. belg. foed.* 280. *Woodv.* i. 136.

*Polypodium vulgare.* *Thornt.* 879. *t.*

*Filix mas vulgaris.* *Park. theatr.* 1036. *Raii hist.* i. 142; *syn.* 120.

*Filix non ramosa dentata.* *Tourn. paris.* 443. *Boerh.* i. 26. *Vaill. paris.* 53. *t.* 9. *f.* 2, pinnules represented as acute, and slightly incurvate.

*Filix mas.* *Dalech.* ii. 1922. *Lob. obs.* 473, *repr.* in *ic.* i. 812, & *Ger. by Johns.* 1128. *Fuchs.* 569. c. 227, *cop. in Dod.* 459, &

*Filix vulgo mas dicta, sive non ramosa.* *Bauh. J.* iii. 737.

*Filix mas non ramosa, pinnulis latis densis minutim dentatis.* *Goodyer in Ger. by Johns.* 1129. No fig.

*Filix vulgaris.* *Trag.* 546, *repr. in*

*Filix mascula.* *Cord. sol.* 169. *p. 2.*

*Frondes unfolding on the 13th of May, just unfolded on the 12th of June.* *Bractea* green, semi-transparent; margin entire, loose, deflex, with a few scattered globular pedunculate glands. *Capsules* disposed in a depressed reniform mass. *Obs.* 7366.

*FILIX mas.* *Beck, account from in phys. journ.* xi. 434, & *chir. rev.* xviii. *part ii.* 49. *Cull.* ii. 41. *Dale* 64. *Geoffr.* iii. 472. *Herm.* i. 105. *Mill.* *Jos.* 199. *Monro* iii. 110. *Murr.* v. 453. *Rutty* 201. *Schrod.*- 590.

*Filix.* Male Fern. Root. *Pharm. lond. & novis.*—

*Aik.* in *Lew.* i. 433. *Alst.* i. 445. *Berg.* ii. 845.  
*Brunyer*, account of in *med. journ.* iv. 151. *Dunc.*  
*cases* 326. *Hill* 650. *Linn.* 273. *Spielm.* 378.  
*Polypodium Filia* mas. Root. *Pharm. edin.*—  
*Lew. disp. by Dunc.* 285. *Mathieu*, account from  
*in phys. journ.* v. 398. *Murr. J.* i. 379. *Pears.*  
*R.* ii. 258.  
*Filix vulgo* mas dicta, sive non ramosa. *Vog.* 129.  
*Filix* non ramosa dentata. *Chom.* ii. 488; *suppl.*  
 145.  
*Remedium D. Herrenschwand.* *Swiet.* iv. 738.  
*Male Fern.* *Marc*, account from *in chir. rev.* viii.  
 378.  
*Fern root.* *Darw.* ii. 55.

## 964. ASPLENIUM.

*Bractea linear*, inserted into the surface of the frons.  
*Obs.* 7316. *L.*

1. **ASPLENIUM Trichomanes.** Frondes pinnate. Pinnæ oval, crenate. *Obs.* 7316. Specimen gathered in Dove dale in Derbyshire.—*L. suec.* n. 942; *sp.* 1540. *Asso* n. 996. *Bot. arr.* iii. 52. *Gort. belg. foed.* n. 851. *Huds.* 452. *Fl. dan.* t. 119. *Smith brit.* iii. 1126; *engl.* t. 576. *Gou. hort.* 526; *monsp.* 441. *Woodv.* iii. 565. t. 204. *Thornt.* 882. *t. Walc. t. Bolt. fil.* t. 13.  
*A. trichomanoides.* *L.* a *Murr.* 933; a *Reich.* iv. 404. *Lightf.* ii. 662.  
*A. pinnatum*, pinnis subrotundis crenatis. *L. lapp.* n. 388.

*Trichomanes*, sive *Polytrichum officinarum*. *Tourn. paris.* 529: *Vaill. paris.* 194. *Boerh.* i. 25.

*Trichomanes* *Dioscoridis*. *Lob. obs.* 471, *repr. in ic.* i. 809,

*Trichomanes mas*. *Ger. by Johns.* 1146, &

*Trichomanes*. *Dod.* 468. *Fuchs.* 796. *fol. ed. cop. in* 755. c. 307. *Cam. epit.* 925, *cop. in Park. theatr.* 1051. *Raii hist.* i. 140; *syn.* 119. *Dalech.* ii. 1211. *Trag.* 530, *repr. in Cord. fol.* 170. *p. 1, &*

*Adiantum candidum*. *Cord. fol.* 172. *p. 1*, uppermost of the 2 inner figures.

*Trichomanes*, sive *Polytrichum*. *Bauh. J. iii. pars ii.* 754. (The fig. a different plant.)

*Bracteae* on the under surface of the pinnae, pale green, in 2 rows, in the midway between the costa and each margin, patent with respect to the costa; outer margin inserted into the surface of the pinna above a lateral vein; inner margin loose, obsoletely crenate. *Obs. 7316.*

Native of Europe from Spain to Lapland.

**TRICHOMANES.** *Berg.* ii. 843. *Boecl. ap. Herm.* i. 568. *Dale* 64. *Lew.* ii. 440; *disp. by Rother.* 258. *Linn.* 272. *Mill.* *Jos.* 440. *Monro* iii. 283. *Murr.* v. 481. *Rutty* 522. *Schrod.* 693. *Vog.* 122.

*Adiantum rubrum*. *Geoffr.* iii. 36. *Spielm.* 373.

*Pelticaria*. *Chom.* i. 83.

2. **ASPLENIUM nigrum**. Frides nearly tripinnate, deltoid. Folioles alternate. Pinnae inciso-serrate. *Obs. 8360.* On red sandstone rocks between Kidderminster and Bewdley in Worcestershire.

A. *Adiantum nigrum*. *L.* sp. 1541. *Gou. hort.* 526; *monsp.* 441; *Bot. arr.* iii. 54. *Fl. dan. t.* 250. *Roth. germ.* iii. 57. *Huds.* 454. *Bolt. fil. t.* 17. f. 1. 3. *Asso n.* 998.

*Adiantum nigrum officinarum*. *Raii hist.* i. 152; *syn.* 126. *Bauh. J.* iii. *pars ii.* 742. No fig.

*Adianthum foliis longioribus pulverulentis, pediculo nigro*. *Boerh.* i. 26.

*Filicula, quae Adiantum nigrum officinarum, pin-nulis obtusioribus*. *Tourn. paris.* 440. *Vaill. paris.* 52.

*Dryopteris nigra*. *Dalech.* ii. 1228. *Dod.* 463, *repr. in*

*Onopteris mas*. *Ger. by Johns.* 1137.

*Adianthum nigrum vulgare*. *Park. théâtr.* 1049.

*Pinnae lanceolate oblong & oval*. *Obs.* 8360.

*Natire of Europe from Spain to Scotland and Denmark*.

**ADIANTUM nigrum**. *Alst.* ii. 73. *Dale* 65. *Geoffr.* iii. 34. *Herm.* i. 566. *Mill. Jos.* 15. *Murr.* v. 476. *Spielm.* 372.

*Capillaire commun*. *Chom.* i. 81.

3. **ASPLENIUM murale**.—Frondes decomound; divisions alternate. Folioles cuneiform, crenate at the margin. *L.*

A. *Ruta muraria*. *L. suec.* n. 943; sp. 1541. *Asso n.* 997. *Fl. dan. t.* 190. *Bolt. fil. t.* 16. *Bot. arr.* iii. 53. *Smith engl.* t. 150; *brit.* iii. 1130. *Walc. t.*

*Scolopendrium Ruta muraria*. *Roth germ.* iii. *pars i.* 54.

*Saxifraga*. *Fuchs.* 691. c. 279, *cop. in*

- Ruta muraria. *Bauh. J.* iii. 753. *Raii syn.* 122.  
*Dod.* 467, *repr. in*  
 Ruta muraria, sive *Salvia vitae*. *Ger. by Johns.*  
 1144, & cop. in *Park. theatr.* 1050.  
*Salvia vitae*. *Dalech.* ii. 1213.  
 Capillus *veneris*, seu Ruta muraria. *Trag.* 530,  
*repr. in*  
 Adiantum candidum. *Cord. fol.* 172, p. 1, &  
 Trichomanes. *Cord. fol.* 170, lower figures.  
**ADIANTUM** album. *Blackw. t.* 219.—*Alst.* ii.  
 72. *Dale* 64. *Geoffr.* iii. 35. *Herm.* i. 566.  
*Mill.* *Jos.* 15. *Rutty* 10. *Spielm.* 371.  
 Ruta muraria. *Berg.* ii. 844. *Chom.* i. 84. *Linn.*  
 273. *Murr.* v. 482. *Schrod.* 668. *Vog.* 116.

## 964\*. CYATHEA.

*Bractea* ovate, inserted into the surface of the frons.  
*Obs.* 4272. *Roth germ.* iii. 31. *Smith tracts* 251.

1. CYATHEA *fragilis*. Frondes bipinnate. Pinnae ovate lanceolate and pinnatifid; serratures acute.  
*Obs.* 4272. Between Fairfield and Tideswell in Derbyshire, on limestone.—*Smith tracts* 253; *brit.* iii. 1139; *engl. t.* 1587.  
 Polypodium *fragile*. *L. suec. n.* 948; *sp.* 1553.  
*Bot. arr.* iii. 62. *Bolt. fil. t.* 27. 46.  
 Filicula *fontana major*, sive *Adiantum album filicis* folio. *Tourn. paris. a Juss.* ii. 347. *Vaill. paris.* 52. *Boerh.* i. 26.  
 Adiantum *album*, folio *filicis*. *Bauh. J.* iii. *pars ii.* 741.

*Filix saxatilis*, caule tenui fragili. *Pluk. alm. t. 180. f. 5.* *Raii syn. 125.* On stone walls and rocks in the Peak of Derbyshire and West riding of Yorkshire.

*Stipes* squamose at the base, somewhat shorter than the leafy part of the frons. *Frons* somewhat lanceolate. *Folioles* remote, more so downwards, nearly opposite. *Pinnae* distinct. *Obs. 4272.*

*ADIANTUM* album, filieis folio. *Geoffr. iii. 34.*  
*Adiantum album.* *Cod. med. p. iv.—Dale 65.*  
*Capillaire blanc.* *Chom. i. 83.*

## 965. ADIANTUM.

*Bracteae* inserted at intervals into the margin of the frons. *Obs. 7311. L.*

Capsules inserted into the inner surface of the involuera and not into the frons.

1. *ADIANTUM cuneifolium.* Frondes decomound. Frondules alternate. Pinnules cuneiform, pedicellate. *Obs. 7998.* In Mr. Shore's garden, in a stove. 28 Feb.

A. *Capillus Veneris.* *L. sp. 1558. Asso n. 1003. Gou. hort. 529,* on the sides of wells; *monsp. 443. Scop. carn. ii. n. 1277.* At Trieste and Gortz on the walls of cisterns and sides of springs.—*Host austr. 560.* In Littorali and Friuli, on rocks and cisterns.—*Mill. Ph. dict. n. 1,* who says that it is often killed in winter unless sheltered under a frame.—*Bot. arr. iii. 64. Bolt. fil. t. 29. Smith brit. iii. 1138; engl. t. 1564. Lightf. ii. 679,* who saw in Dillenius's herbarium a specimen

gathered by Stonestreet in the isle of Arran near Galloway, [in Ireland, as appears from the following synonym.]

*Adiantum verum.* *Llwyd in ph. tr. abr. by Hutt.* v. 701. Isle of Aran near Galloway [in Ireland.]

*A. verum, seu Capillus Veneris verum.* *Park. theatr.* 1049, *cop. from*

*Adiantum.* *Cam. epit.* 924. *All. nic.* 233. *Dalech.* ii. 1208. *Fuchs.* 85. c. 28, *cop. in Dod.* 466, &

*Adianton magnum.* *Trag.* 531, *which repr. in*

*A. nigrum.* *Cord. fol.* 127. *p. 1,* & *Dodonaeus's copy repr. in*

*Capillus Veneris verus.* *Ger. by Johns.* 1143. *Dill. ap. Raii syn.* 123. *Llwyd in ph. tr. abr. by Jones v. part ii.* 122; *and by Hutt. vi.* 20. In Barry island and Porth Kirig in Glamorganshire.

*A. seu Capillus Veneris.* *Bauh. J.* iii. 751. *Raii hist.* i. 147; *ext.* 4. Common in Italy, and the south of France; *eur.* 52.

*Adianthum, sive Capillus Veneris verus.* *Lob. adv.* 361, *repr. in ic.* i. 809.

*Frondes* 9 inches long. *Obs.* 7998.—*Frondes* 5 and 6 inches long. *Involucra* semiorbicicular and linear. *Obs.* 8917. Specimens gathered by Mr. Dickenson in a grotto near Lyons.

*Native of Spain, Italy, Carniola, France as far north as Lyons, Barry island and Porth Kirig in Glamorganshire, and the isles of Arran on the coast of Galloway in Ireland.*

*ADIANTUM.* *Lew.* i. 29. *Rutty.* 9. *Schrod.* 526.

*A. verum.* *Alst.* ii. 72. *n. 1.* *Spielm.* 373.

*A. vulgare.* *Dale* 65. *Mill. Jos.* 14.

*Capillus Veneris.* *Pharm. austriaco-prov.* 26.—

*Berg.* ii. 850. *Boecl. ap. Herm.* i. 567. *Lew. disp. by Dunc.* 328. *Linn.* 274. *Scop.* 132.

*Capilli Veneris.* *Murr.* v. 475.

*Capillaire de Montpellier.* *Chom.* i. 83.

2. *ADIANTUM pedatum.* Frondes supradecomound.

Stipes dichotomous. Frondules pinnate. Pinnules trapeziform, rounded at the end. *Obs.* 7999.

Specimen gathered by Dr. Cutler in New England.

—*L. sp.* 1557. *Hort. kew.* iii. 467.

*A. fronde supradecomposita bipartita, foliis partialibus alternis, foliolis trapeziformibus obtusis.* *Gron. virg.* 167; *ed.* i. 123.

*A. fronde bifida, ramis alternis pinnatis, foliolis obtusis recurvis superne incisis multifloris.* *Roy.* 500.

*A. fruticosum americanum, summis rameulis reflexis et in orbem expansis.* *Pluk. alm.* 10; *phyt. t.* 124. f. 2.

*A. americanum.* *Raii hist.* i. 148. *Boerh.* i. 26.

*A. fruticosum americanum.* *Park. theatr.* 1050.

*ADIANTUM pedatum.* *Schoepf* 156.

*A. americanum.* *Geoffr.* iii. 33. *Spielm.* 372.

*A. canadense.* *Dale* 65. *Lew.* i. 30. *Murr.* v. 475.

*Adianthum.* *Berg.* ii. 850.

*Capillaire de Canada.* *Chom.* i. 83.

3. *ADIANTUM aethiopicum.* Frondes supradecomound.

Pinnules rotundate, entire, crenulate.

Petiolules capillary. *L. a Murr.* 940; *sp.* 1560.

—*Murr.* 475. *Schreb. ap. Linn.* 274.

## 966. PTERIS.

*Bractea* linear, inserted continuously into the margin of the frons. Obs. 173. L.

1. PTERIS *aquilina*. Frondes more than doubly compound. Folioles pinnate. Pinnae lanceolate; lowermost pinnatifid; upper smaller. L. suec. n. 940; sp. 1533. Bot. arr. iii. 50. Smith brit. iii. 1136; engl. t. 1679. Bolt. fil. t. 10.

*Filix ramosa major*, pinnulis obtusis non dentatis.  
Tourn. paris. 442. Vaill. paris. 53.

*Filix major*. Trag. 542, init. from

*Filix foemina*. Fuchs. 569. c. 227, which cop. in Dod. 459. Raii hist. i. 149; syn. 124. Matth. ii. 1291. Dalech. ii. 1222. Cam. epit. 992. Ger. by Johns. 1128, cop. in

*Filix foemina vulgaris*. Park. theatr. 1037.

*FILIX foemina*. Alst. i. 445. Dale 65. Geogr. iii. 473. Herm. i. 105. Lew. disp. by Dunc. 346. Mill. Jos. 199. Murr. v. 472. Schrod. 590. Vog. 129.

*Filix ramosa major*, pinnulis obtusis non dentatis.  
Chom. ii. 488.

*Filix ramosa*. Rutt. 201.

*Filix*. Scop. 132. Spielm. 379. See corrigenda at the end of the index p. 2.

2. PTERIS *esculenta*. Frondes sulcate. Folioles pinnate. Pinnae linear, decurrent; uppermost shorter. Forst. G. esc. 74.

## 967. BLECHNUM.

*Bracteae* 2, opposite, linear, inserted into the surface of the frons. Obs. 529. L.

1. BLECHNUM *linguifolium*. Frondes cordato-lanceolate. Obs. 529. On the inside of a well near Worcester.
- Scolopendrium vulgare. Smith brit. iii. 1133; engl. t. 1150.
- Scolopendrium Phyllitis. Roth germ. iii. 47.
- Asplenium Scolopendrium. L. suec. n. 941; sp. 1537. Curt. lond. i. 67. t. Bot. arr. iii. 51. Walc. t. Huds. 452. Lightf. ii. 661. Woodv. iv. 155. t. 272. Thornt. 883. t. Bolt. fil. t. 11.
- Lingua cervina officinarum. Vaill. paris. 118. Boerh. i. 23. In Holland.
- Hemionitis. Fuchs. fol. ed. 294, cop. in 292. c. 112,
- Phyllitis, sive Lingua cervina vulgi. Bauh. J. iii. pars ii. 756, &
- Phyllitis. Dod. 464. Cam. epit. 579. Math. 831. Raii hist. i. 134; syn. 116. Dalech. ii. 1219. Ger. by Johns. 1138, cop. in
- Phyllitis, sive Lingua cervina vulgaris. Park. theatr. 1046.
- Scolopendria vulgaris. Trag. 549.
- SCOLOPENDRIUM. Pharm. austriaco-prov. 65.—Berg. ii. 842. Lew. disp. by Dunc. 239. Linn. 272. Vog. 82.
- Scolopendria vulgaris. Schrod. 677.
- Phyllitis. Herm. i. 569. Rutt. 389.

*Lingua cervina.* *Alst.* ii. 73. *Dale* 63. *Geoffr.* iii. 733. *Lew.* ii. 69. *Mill. Jos.* 271. *Murr.* v. 478.

*Spielm.* 383.

*Scolopendre.* *Chom.* ii. 485.

2. BLECHNUM *squamulosum*. Frondes pinnatifido-pinnate. *Obs.* 7315. In the garden of Mr. Knowlton, who dug up the roots near Malham Tarn in the West riding of Yorkshire, on limestone.

*Scolopendrium Ceterach.* *Smith brit.* iii. 1134; *engl. t.* 1244. *Roth germ.* iii. 48.

*Asplenium Ceterach.* *L. sp.* 1538; *mant.* 505. *Lightf.* ii. 661. On the hill of Kinnoul near Perth.—*Bot. arr.* iii. 51. *Bolt. fil. t.* 12. *Asso n.* 995. *Walc. t. Host austr.* 555. *Scop. carn.* ii. 291. *Roth germ.* i. 446. About Erlangen and Herborn in the circle of the Upper Rhine.

*Asplenium, sive Ceterach officinarum.* *Rupp. ab Hall.* 347.

*Asplenium.* *Dalech.* ii. 1215.

*Scolopendria vera.* *Trag.* 551, *repr. in*

*Scolopendron.* *Cord. fol.* 171. *p. 2.*

*Asplenium.* *Blackw. t.* 216. *Dod.* 465, *repr. in Lob. ic.* i. 807,

*Asplenium.* *Lob. obs.* 470, &

*Asplenium, sive Ceterach.* *Ger. by Johns.* 1140, & *cop. in Park. theatr.* 1046. & *Hist. ox. s.* 14. *t. 2. row 3. f. 4. Bauh. J.* iii. 749. *Raii syn.* 118. *Tourn. paris.* 395. *Vaill. paris.* 17. *Gou. hort.* 526; *monsp.* 441. *Boerh.* i. 25.

Frondes covered underneath with stipulae, pinnate, apparently pinnatifid; pinnae alternate, ovate, obtuse, truncate at the base, sessile, approximate, apparently confluent. Stipulae? ovate, attenuate, reticular,

membranaceous, with roundish meshes, forming a pleasing object for the microscope. *Bracteae*, none discernible at least in its present and even earlier state. *Capsules* in linear masses; masses patulous, 10 to 12 on a pinna. *Obs.* 7315. 20 Apr.

*Native of Europe from Spain to Paris, Holland, Saxony, and Perthshire.*

*CETERACH.* *Alst.* ii. 73. *Berg.* ii. 842. *Gcoffr.*

iii. 292. *Lew.* i. 317. *Linn.* 272. *Murr.* v. 480.

*Spielm.* 378. *Vog.* 127.

*S. verum.* *Schrod.* 677.

*Asplenium.* *Dale* 63. *Herm.* i. 566. *Mill.* *Jos.* 62.

*Ceterac.* *Chom.* i. 85.

## 968. LICHEN.

*Receptacle orbicular and globose.* *Obs.* 8382. 8383.

*L.*

I. *LICHEN saxatilis.* Imbricate. Leaves sinuate, scabrous and slightly lacunose on the upper surface, hispid underneath. Scutellae rufous above. *Obs.* 8378. Specimen gathered by Broughton in Britain.—*L. suec.* *n.* 1075; *sp.* 1609. *Willd. ber.* *n.* 1019. *Lightf.* ii. 816. *Bot. arr.* iii. 187. *Smith engl.* *t.* 603.

*Lichenoides vulgatissimum cinereo-glaucum lacunosum et cirrosum.* *Dill. musc.* 188. *t.* 24. *f.* 83.

*Lichenoides crusta foliosa superne cinereo glauca inferne nigra et cirrosa, scutellis nigricantibus.* *Dill. ap. Raii syn.* 72.

*L. opere phrygio ornatus.* *Vaill. paris.* t. 21. f. 1.  
No scutellae.

*L. pulmonarius,* foliis eleganter divisis inferne nigerimis et cirrhosis superne lacunatis e glauco cinereis, receptaculis florum fusco-virentibus. *Mich. gen.* 90. *ord.* 22. t. 49. f. 1.

*LICHEN saxatilis.* *Geoffr. suite* iii. 414.

*Usnea.* *Linn.* 275. *Murr.* v. 496. *Vog.* 141.

2. *LICHEN pullus.* Imbricate. Segments lobate, olivecoloured. Scutellæ smooth. *From Schreb.* *lips.* 131, *Neck. gallo-belg.* 510; *meth.* 94, & *Lichenoides olivaceum,* scutellis laevibus. *Dill. musc.* 182. t. 24. f. 77.

*L. olivaceus* β. *Bot. arr.* iii. 185. *Poll.* iii. n. 1101.

*Lichenoides crusta foliosa scutellata, pullum.* *Dill.* ap. *Raii syn.* 72.

*L. crustae modo arboribus adnascens, pullus.* *Tourn.* *paris.* 344. *Vaill. paris.* 116. *Boerh.* i. 16.

*Muscus crustae modo arboribus adnascens, pullus.* *Raii hist.* i. 116; *syn. ed.* ii. 23.

*LICHEN arboreus pullus.* *Dale* 59.

*Lichen.* *Boerh.* i. 35. n. 4.

3. *LICHEN pulmonarius.* Foliaceous, laciniate, lacunose and glabrous above, tomentose underneath. Scutellæ on and near the margin. *Obs.* 8375. Specimen gathered by Broughton in Britain.—*L. suec.* n. 1087; sp. 1612; a *Gmel.* ii. 1371. *Bot. arr.* iii. 199. *Poll.* iii. n. 1108. *Lightf.* ii. 831. *Weis* 64. *Gou, hort.* 533; *monsp.* 455. *Smith engl.* t. 572.

*L.* foliis oblongis divisis, superficie reticulata et punctata. *L. lapp. n.* 444.

*Lichenoides pulmoneum reticulatum vulgare, marginibus peltiferis.* *Dill. musc.* 212. *t.* 29. *f.* 113.

*Lichenoides peltatum arboreum maximum.* *Dill. ap.*  
*Raii syn.* 76.

*Pulmonaria fungosa.* *Dalech.* ii. 1327.

*Pulmonaria.* *Fuchs.* 608. *c.* 246, *cop. in Trag.* 524.  
*Dod.* 471, *repr. in*

*Muscus pulmonarius, sive Pulmonaria officinarum.*  
*Lob. obs.* 647; *ic.* ii. 248,

*Pulmonaria III.* *Clus. pann.* 675, &

*Hepatica terrestris.* *Ger. by Johns.* 1565, & *cop.*  
*in*

*L. sive Hepatica vulgaris.* *Park. theatr.* 1315.

*L. arboreus, sive Pulmonaria arborea.* *Bauh. J.* iii.  
*pars* ii. 759. No fig.—*Boerh.* i. 17. In Holland.

*Muscus arboreus pulmonarius.* *Raii hist.* i. 116;  
*syn. ed.* ii. 22.

Depressed, ascending at the margin, yellowish brown, when moistened deep reddish buffcoloured and sometimes brownish olive; sometimes ashcoloured when moistened buffcoloured; prominences between the pits sometimes smooth, sometimes sprinkled with mealy spots, sometimes closely beset with mealy spots touching each other. *Scutellae* orange red, when moistened more deeply coloured and appearing finely crenate, rather paler underneath, from the size of a pin's head to  $1\frac{1}{2}$  line in diameter, slightly concave, sometimes flat, and slightly convex; generally in the sinuses of the segments, sometimes at right angles with the plane of the leaf. *Obs.* 8376. On rocks at the foot of Malvern hills in Worcestershire.—

*Obs.* 8375, gathered by Dr. Cutler in New England.

Native of Europe from the south to Lapland, and of New England.

*LICHEN arboreus.* *Geoffr.* iii. 715.

*Muscus pulmonarius.* *Dale* 59. *Mill.* *Jos.* 301. *Vog.* 109.

*Pulmonaria arborea.* *Pharm. austriaco-prov.* 59.—

*Berg.* ii. 859. *Chom.* i. 86. *Linn.* 276. *Murr.*

v. 520. *Schoepf* 157. *Schrod.* 657. *Spielm.* 391.

*Pulmonaria.* *Herm.* i. 554. *Neum.* ii. 154.

Oak Lungs. *Und.* i. 320. 324.

4. *LICHEN prunastri.* Foliaceous, laciniate; segments nearly erect, lacunose; underneath concave and whitish. *Obs.* 8379. Specimen gathered on *Prunus spinosa*.—*L. suec.* n. 1092; sp. 1614. *Bot. arr.* iii. 199. *Willd. ber.* n. 1030. *Smith engl. t.* 859.

*L. cinereus vulgatissimus*, cornua damae referens. *Vaill. paris.* 115.

*L. qui* *Muscus arboreus ramosus.* *Vaill. paris. t.* 20. f. 11. 12.

*L. cinereus*, cornua damae referens. *Tourn. paris.* 483. *Boerh.* i. 17. n. 24.

*Lichenoides cornutum bronchiale molle subtus inca-*  
num. *Dill. musc.* 160. t. 21. f. 55.

*Lichenoides arboreum ramosum majus et mollius*,  
colore candicante. *Dill. ap. Raii syn.* 75.

*Muscus arboreus platyphyllus Proteus.* *Doody ap.*  
*Raii syn. ed.* ii. 333. *under n.* 1.

*MUSCUS arboreus.* *Cod. med. p.* lxxix.—*Spielm.* 386.

5. *LICHEN islandicus.* Foliaceous, ascending, laci-

niate; margin ciliate, elevated. *L. suec.* n. 1085; sp. 1611. *Fl. dan. t.* 155. *Huds.* 539. *Lightf.* ii. 829. *Bot. arr.* iii. 196. *Woodv.* iii. 566. *t.* 205. *Thornt.* 885. *t.* *Smith engl.* *t.* 1320.

*L.* foliis oblongis laciniatis marginibus conniventibus ciliatis. *L. lapp.* n. 445.

*Lichenoides rigidum*, eryngii folia referens. *Dill.* ap. *Raii syn.* 77; *musc.* 209. *t.* 28. *f.* 111.

*L. pulmonarius minor angustifolius*, spinis tenuissimis ad margines ornatus, receptaculis florum transverse oblongis rubris vel ex rubro-ferrugineis. *Mich. gen.* 85. *t.* 44. *f.* 4.

*L. terrestris*, foliis eryngii. *Buxb.* ii. 11. *t.* 6. *f.* 1.

*Muscus islandicus*. *Raii hist.* i. 114.

*Muscus islandicus purgans Bartholini*. *Doody ap.* *Raii syn. ed.* ii. 333. Found by Newton on the mountains of Wales.

*Coralloides cornua damae* referens. *Tourn. paris.* 423.

*LICHEN islandicus*. *Pharm. austriaco-prov.* 45.

—*Cramer diss.* 7. *Crichton in med. journ.* x. 230.

*Delaferrionnays in phys. journ.* x. 379. *Ebeling*, account from in *med. comment.* vi. 371. *Fritze*, account from in *phys. journ.* ix. 20. *Lew.* ii. 57; *disp. by Dunc.* 343. *Linn. am.* v. 67. *Murr.* v. 499. *Pears. R.* i. 86; *ed.* ii. 297. *Phys. journ.* ix.

488. *Ploucq. bibl.* i. 304. 327. *Quar. anim.* 38.

47. 80. 86. 112; *febr.* 46. 157. 315. 320. 400.

412. 434. *Reece*, account from in *chir. rev.* x.

408; *phys. journ.* viii. 568; xi. 90. *Regnault*, account from *ib.* viii. 463. 564; xi. 283; *chir. rev.*

ix. 491. *Richter*, account from *ib.* i. 98; *med. comment. dec. II.* ix. 211. *Stichel*, account from in *med. rev.* i. 573. *Stoll aph.* n. 192; *med. i.* 118.

186; ii. 27. 181. 301. 330. 357. 397; iii. 36.  
78. 81. 84. *Thomann, account from in med. rev.*  
v. 121. *Van Troil, account from in phys. journ.*  
ix. 24.

Lichen. *Pharm. lond. noviss.—Lew. disp. by Rother.* 187. *Stoll med. ii. 96. 98. 324. 369; iii. 94.*

Muscus islandicus. *Berg. ii. 855. Linn. 276. Mesa in act. hafn. i. 49.*

Muscus catharticus. *Vog. 108.*

Iceland Moss. *Hufeland, account from in ann. med. iv. 276.*

6. **LICHEN aphthosus.** Foliaceous, creeping, flat, lobate, above glabrous with scattered warts, underneath smooth towards the margin, venoso lacunose below; lobes obtuse. Shields marginal, ascending. *Obs. 8380.* Specimen gathered by Broughton in Britain.—*L. suec. n. 1098; sp. 1616. Lightf. ii. 847.* Found by Yalden at the foot of the Pentland hills near Edinburgh.—*Huds. 547.* On Dartmoor in Devonshire, on Ingleborough hill and other places in Yorkshire, and in Westmorland.—*Bot. arr. iii. 202. Fl. dan. t. 767. f. 1. Smith engl. t. 1119.*

*Lichenoides digitatum laete virens, verrucis nigris notatum. Dill. musc. 207. t. 28. f. 106.*

1½ inch long, thin, above olive tawny whether dry or moist, underneath obsoletely tomentose, blackish fuscous at the base and to three fourths of the length with oval and linear whitish and tawny lacunae; towards the margin tawny. Warts nearly orbicular, roughish, of various sizes to the 4th of the 10th of an inch broad, tawny and fuscous, when moistened

olivecoloured. *Shields* from 1 to 4 tenths of an inch broad, on attenuate lobes; rufous, margin rugose. *Obs.* 8380.

*MUSCUS cumatilis.* *Linn.* 277. *Murr.* v. 523. *Vog.* 109.

7. **LICHEN caninus.** Creeping, lobate, flat; lobes obtuse, veined and villose underneath. *Shields* marginal, ascending. *L. suec.* n. 1100, sp. 166. *Bot. arr.* iii. 203. *Woodw.* iv. 157. & 274. *Thorn.* 884. *t. Fl. dan.* t. 767. f. 2.  
*L.* foliis planis subrotundis lobatis obtusis, calice plano lacinula propria adnato. *L. lapp.* n. 441.  
*Lichenoides digitatum cinereum, lactucae foliis sinu-*  
*osis.* *Dill. musc.* 200. *t. 27. f. 102.*  
*L. pulmonarius saxatilis digitatus.* *Vaill. paris.* 116.  
*t. 21. f. 16.*  
*L. pulmonarius saxatilis digitatus major.* *Tourn.*  
*paris.* 482.  
*Lichenoides peltatum terrestre cinereum majus.* *Dill.*  
*ap. Raii syn.* 76.  
*L. terrestris cinereus.* *Raii hist.* i. 117; *syn.* 23.  
**LICHEN cinereus.** *Dale* 59.  
*L. terrestris.* *Mill. Jos.* 267. *Spielm.* 387.  
*L. cinereus terrestris.* *Alst.* i. 353. *Carth.* iv. 143.  
*Lew.* ii. 55; *disp. by Rother.* 184. *Monro* iii.  
*157. Rutty* 285. *Sloane in ph. tr. abr. by Lowth.*  
*iii. 285; by Hutt.* iv. 232.  
*L. terrestris cinereus.* *Ploucq. bibl.* i. 642.  
*Muscus caninus.* *Linn.* 277. *Murr.* v. 524. *Schoepf*  
*158. Vog.* 108.  
*Ashcoloured ground Liverwort.* *Und.* i. 320.

8. **LICHEN pyxidatus.** Stem erect, cylindric, cyathi-

form at the end, with roundish tubercles on the margin. *Huds.* 551.

✉ *fuscus*. Tubercles brown.

*L. pyxidatus*. *L. suec.* n. 1111; sp. 1619. *Huds.* 551a. *Bot. arr.* iii. 210 a. *Walc. t. Smith engl.t.* 1893.

*L. caule simplici, calice turbinato margine tenui.*  
*L. lapp.* n. 428.

*Coralloides scyphiforme, tuberculis fuscis.* *Dill.*  
*musc.* 79. *t.* 14. *f.* 6.

*Lichenoides tubulosum pyxidatum cinereum.* *Dill.*  
*ap. Raii syn.* 68.

*L. pyxidatus major.* *Tourn. paris.* 344. *Vaill. paris.*  
115. *t.* 21. *f.* 8. *Boerh.* i. 18.

*L. pyxidatus major rugosus.* *Vaill. paris.* 115. *t.* 21.  
*f.* 7.

*MUSCUS pyxidatus.* *Ger. by Johns.* 1560, *cop.*  
*in Park. theatr.* 1308. *Raii hist.* i. 113; *syn. ed.*  
ii. 22.—*Alst.* i. 353. *Dale* 59. *Mill. Jos.* 301.  
*Murr.* v. 529. *Spielm.* 387. *Will. conv.* 222.

✉ *cocciferus*. Tubercles scarlet. *Obs.* 8382. Specimen gathered in the Highlands.—*Huds.* 553. *Bot. arr.* iii. 212.

*L. cocciferus.* *L. suec.* n. 1109; sp. 1618.

*L. caule simplici, calice turbinato margine carnosò*  
*colorato prolifico.* *L. lapp.* n. 429.

*Coralloides scyphiforme, tuberculis coccineis.* *Dill.*  
*musc.* 82. *t.* 14. *f.* 7.

*Lichenoides tubulosum pyxidatum, tuberculis amoene*  
*coccineis.* *Dill. ap. Raii syn.* 69.

*L. pyxidatus, acetabulorum oris coccineis et tumentibus.* *Tourn. paris.* 484. *Vaill. paris.* 115. *t.* 21.  
*f.* 4.

*L. pyxidatus* prolifer, acetabulorum fimbriis tumentibus coccineis. *Boerh.* i. 18.

*Muscus* multiformiter pyxidatus, apicibus coccineis. *Plot ap. Raii syn. ed.* ii. 21.

*MUSCUS* pyxidatus. *Linn.* 277. *Murr.* v. 529. *Schoepf* 158. *Vog.* 110.

9. LICHEN *Roccella*. Foliaceo-fruticulose, solid, subramose. Tuberles flat and roundish. *Obs.* 8383. Specimen from the drysalters.—*L. sp.* 1622.

*Coralloides corniculatum* fasciculare tinctorium, fuciferetis facie. *Dill. musc.* 120. *t.* 17. *f.* 39.

*Fucus capillaris* tinctorius. *Bauh. J.* iii. 796. *Raii hist.* i. 74.

*Fucus marinus*, dictus *Roccella tinctorum*. *Raii hist.* i. 74. *Bauh. J.* iii. *pars* ii. 796. No fig.

*ROCELLA*. *Berg.* ii. 860. *Linn.* 278. *Murr.* v. 533.

*Fucus*. *Dale* 56.

*Archill*. *Lew. in Neum.* ii. 241.

10. LICHEN *plicatus*. Pendent. Branches matted. *Scutellae* radiate. *L. suec.* n. 1122; *sp.* 1622. *Bot. arr.* iii. 222. *Smith engl.* *t.* 257. *Huds.* 560. *Lightf.* ii. 889.

*Usnea vulgaris*, loris longis implexis. *Dill. musc.* 56. *t.* 11. *f.* 1.

*Muscus arboreus*, *Usnea officinarum*. *Raii hist.* i. 114; *syn.* 64.

*Muscus arboreus* *quercinus*. *Stap.* 156, *cop. from* *Muscus arboreus*. *Dalech.* ii. 1323. *Dod.* 468, *repr. in*

*Muscus quernus*. *Lob. obs.* 643, *repr. in ic.* ii. 242, & *Ger.* by *Johns.* 1558, & *cop. in*

*Muscus arboreus vulgaris et quercinus.* Park. theatr.

1312, &

*Muscus quercuum et aliarum arborum.* Bauh. J. i.  
pars ii. 88, has no scutellae, and is an equally good  
representation of *L. barbatus*.

*Muscus arboreus villosus.* Raii syn. ed. ii. 22. Bauh.  
J. iii. 763. No fig.

*Fungi et Tubera omnis generis.* Trag. 940, on the  
inner branch.

*LICHEN plicatus.* Quar. anim. 38.

*Muscus arboreus.* Alst. i. 353. Linn. 278. Mill.  
Jos. 300. Murr. v. 536. Schoepf 158. Schrod.  
630. Vog. 108.

*Muscus quernus.* Herm. i. 554.

*Muscus albus quernus.* Spielm. 386.

*Muscus.* Dale 59.

## 969. PEZIZA.

*Receptacle smooth, on the upper surface of the pileus.*

*Obs.* 596, from *P. coccinea*.—*L.*

1. PEZIZA Auricula. Concave, rugose, resembling  
the human ear. *L. a* Murr. 979. Bot. arr. iii.  
441.

Tremella Auricula. *L. sp.* 1625; suec. n. 1137.

I genus perniciosorum fungorum. Clus. hist. ii. 276,  
repr. in

Fungus sambucinus, sive Auricula Judae. Ger. by  
Johns. 1581, & cop. in

Fungus auriculae Judae. Bauh. J. iii. 840.

AURICULAE JUDAE. Pharm. austriaco-prov.

21.—*Alst.* i. 351. *Berg.* ii. 871. *Dale* 58. *Herm.* i. 243. *Linn.* 279. *Murr.* v. 583. *Spielm.* 376. *Vog.* 301.

*Fungus sambucinus*, sive *Auricula Judae*. *Geoffr.* ii. 770.

*Fungus membranaceus*, auriculam referens, sive *sambucinus*. *Rutty* 211.

*Fungus membranaceus*. *Chom. suppl.* 9.

P. *Auricula*. *Schoepf* 159?

### 969\*. CLAVARIA.

Smooth, oblong, of one surface, without a pileus.  
*Obs.* 761. From *C. Hypoxylon*.—*L.*

1. *CLAVARIA coraloides*. Branches crowded, very much branched, unequal. *L. suec.* n. 1268; sp. 1652. *Bot. arr.* iii. 454. *Huds.* 640. *Bolt. fung.* t. 113.

*Corallo-Fungus flavus*. *Vaill. paris.* 41. t. 8. f. 4.

*Fungus ramosus flavus et albidus*. *Bauh. J.* iii. 837. *Raii syn.* 16.

*BARBA CAPRINA*. *Berg.* ii. 868.

### 970. PHALLUS.

*Receptacle* reticulate, on the upper surface of the pileus. *Obs.* 1772. *L.*

1. *PHALLUS Mitra*. Pileus somewhat conic and of various shapes, with flexuose gyrations. Stipes solid. *Berg. mat. med.* n. 548.

P. *Gigas*. *L. à Gmel.* ii. 1448.

*PHALLUS* Mitra. *Berg.* ii. 870.

2. *PHALLUS esculentus*. Pileus ovate, cellular. Stipes naked, rugose. *L. a Murr.* 978; *suec. n.* 1262; *sp.* 1648. *Bot. arr.* iii. 447. *Bolt. fung. t.* 91. *Fl. dan. t.* 53.

I generis esculentorum fungorum 3 species. *Clus. hist.* ii. 264, *repr. in*

Fungi favaginosi, sive Fungi rugosi favis mellis similes. *Lob. ic.* ii. 274, &

Fungus faviginosus. *Ger. by Johns.* 1583, & *cop. in*

Fungus rugosus, vel cavernosus, sive Merulins niger et albus. *Bauh. J.* iii. 836, and the entire plant *cop. in*

Fungus favaginosus. *Park. theatr.* 1317. *Raii syn.* 11.

Fungus spongiosus. *Dalech.* ii. 1587.

*PHALLUS esculentus*. *Berg.* ii. 869. *Bry.* 375.

*Pears. R.* i. 88. *Spielm.* 55.

*Boletus esculentus vulgaris*. *Geoffr.* iii. 197.

3. *PHALLUS impudicus*. Volvate, stipitate. Pileus cellular. *L. sp.* 1648; *suec. n.* 1261. *Bot. arr.* iii. 447. *Bolt. fung. t.* 92. *Fl. dan. t.* 175. *Curt. lond. iii. 53. t.*

*P. Adriani Junii*. *Sterb. t.* 10. *B. C. at p.* 276.

Fungus virilis penis arrecti facie. *Lob. ic.* ii. 275, *repr. in*

Fungus virilis penis effigie. *Ger. by Johns.* 1583, & *cop. in*

*P. hollandicus*. *Park. theatr.* 1322, &

Fungus phalloides. *Bauh. J.* iii. 843. *f. 2. at p.* 845. *f. 1 at p.* 843, *cop. from*

*P. batavicus integer.* *Dalech.* ii. 1399.

*Phalli batavici separatae partes.* *Dalech.* ii. 1399.

*Fungi phalloidis genus.* *Bauh. J.* iii. 845.

*Fungus phalloides.* *Raii cat. ea.* ii. 122. t; *hist.* i. 103; *syn.* 12.

**PHALLOIDES.** *Dale* 58.

4. **PHALLUS Mokusin.** Volute. Stipes pentagonal.  
Pileus acute, quinquepartite; segments connivent.  
*L. fil. suppl.* 452. *Pers. fung.* 245.

**970\*. HELVELLA.**

*Receptacle smooth, on the under surface of the pileus.*

*Obs. 7638. Bot. arr. ed. i. 774. L.*

1. **HELVELLA pineti.** Without a stipes. *L. sp.*  
1649. *Retz. scand. n.* 1940.  
Elvela acaulis. *Kram.* 305.  
Agaricus acaulis utrinque planiusculus. *L. lapp. n.*  
517; *suec. n.* 1243.  
*HELVELLA pineti.* *Quar. anim.* 121.

**971. MERULIUS.**

*Receptacle veined, on the under surface of the pileus.*

*Obs. 727. Pers.*

Forms the connecting link between Agaricus and Helvella.

1. **MERULIUS Chantarellus.** Pileus fleshy, glabrous,

depressed. *Obs.* 727. In a wood, where found 3 years successively in the same place. July.

*M. Cautharellus.* *Pers. fung.* 488. *L. a Gmel.* ii. 1429. *Bot. arr.* iii. 281.

*Agaricus Cantarellus.* *L. a Murr.* 974.

*Agaricus Cautharellus.* *L. sp.* ii. 1639.

*Elvela pediculata pileata, pileo subtus reticulato.* *Guett.* i. 12.

*Fungus augulosus et velut in laciniis dissecus.* *Tourn. paris.* 334. *Vaill. paris.* 60. t. 11. f. 14. 15.

*Fungus luteus sive pallidus, Chantarelle dictus, se contorquens, esculentus.* *Bauh. J.* iii. 832. *Raii syn. 2.*

*Fungi esculenti xiv generis species ii Clusii aut ei similis.* *Raii syn. 2.*

*Fungi.* *Trag.* 940, those at the base of the tree may be the plant.

(*Fungus minimus flavescens infundibuli forma.* *Vaill. paris.* 60. t. 11. f. 9. 10, has a pileus chestnut-coloured above and yellowish brown underneath.

*Fungus pileolo per maturitatem instar agarici intybacei laciniato.* *Vaill. paris.* 60. t. 11. f. 11. 12. 13, has a pileus brownish mousecoloured above and ashcoloured underneath.)

*AGARICUS Chantarellus.* *L. suec.* n. 1207. *Fl. dan.* t. 264. *Huds.* 609. *Schaeff.* 35. n. 73. t. 82, representing it in the different stages of its growth; — *Bry.* 369. *Willd. ber.* n. 1118.

*Chantarelle.* *Berg.* ii. 866.

## 972. AGARICUS.

*Receptacle lamellar.* *Obs.* 708. *L.*

R r 4

1. *Stipitate, volvate, velate.*

1. AGARICUS *vernus*. White, acrid. Pileus flat, moistish, depressed in the middle. Stipes solid, bulbous at the base, cylindric. Lamellae numerous, divided. *From L. a Gmel.* ii. 1397, & *AMANITA verna*. *Pers. fung.* 250.

2. AGARICUS *vernalis*.—White. Stipes solid, bulbous at the base, slightly attenuate. Pileus globose, then hemispheric, at length flat. *From Schaeff. & Sibth. Bolt. fung.* 48. n. 55. t. 48.

*Amanita bulbosa*. *Pers. fung.* 250.

AGARICUS *bulbosus*. *Schaeff.* 61. n. 129. t. 241, *Bot. arr.* iii. 332. *Sibth. ox. n.* 938.—*All. ped. n.* 2668.

3. AGARICUS *caesareus*. Lamellae yellow. Stipes solid, yellowish. Vellum yellowish, permanent. Pileus yellow, striate at the margin. *From Schaeff.* 64. n. 135. t. 247. *Scop. carn.* ii. n. 1466. *Kelz. scand.* n. 1831. *Host. austr.* 637. *L. a Gmel.* ii. 1397. n. 1. *Gunn.* n. 1000. *All. ped. n.* 2673. (*With. in bot. arr.* iii. 330, is *A. xerampelinus*. ed. IV. iv. 210.)

*Amanita caesarea*. *Pers. fung.* 252,

A. *stipitatus*, lamellis solitariis, stipite volvato apice annulo latissimo cincto. *Ger. L.* 14.

A. *ovinus auritus*. *Schreb. lips. consp.* 169. n. 1029.

A. *caesarens*, amplissima volva exceptus aureus, pileolo hemisphaericō in margine striato, petiolo annulato crasso annulo latissimo cincto. *Gled.* 85.

*Amanita flavus volvatus*, annulo latissimo. *Hall. hist.* n. 2430. *Leers n.* 1062.

Fungus planus orbicularis aureus. *Tourn. paris.* 334.  
449. *Mich. gen. t.* 77. *f. 1. A to E.*

*FUNGI LUTEI magni dicti Jaseran, speciosi.*  
*Bauh. J.* iii. 831, *cop. in*

Fungus ovinus. *Sterb.* 64. *t. 4. D. E.* (F seems a  
different species.)

XVII genus esculentorum fungorum. *Clus. hist.* ii.  
272. 273.

4. AGARICUS *muscarius*. Lamellae white, slightly  
adhering to the stipes, as broad as the thickness of  
of the flesh, the shorter solitary. Stipes medul-  
laceous in the middle. Pileus convex, striate at  
margin. *Obs.* 7200. In a wood. 1 Oct.

α *sanguineus*. Pileus scarlet red, with whitish frag-  
ments of the volva. *Obs.* 7200.

XII generis perniciosorum fungorum 4 species. *Clus.*  
*hist.* ii. 280, *repr. in*

Fungi lethales, sive non esculenti. *Ger. by Johns.*  
1581. *f. 2, & cop. in*

Fungus *muscarius*. *Park. theatr.* 1321, &

Fungi venenati quinque *muscarii* dicti. *Bauh. J.* iii.  
841.

Pileus  $3\frac{1}{2}$  inches broad ; flesh white and orange-  
coloured next the skin. Lamellae lanceolate, attenu-  
ate towards the base, the shorter of various lengths  
from one sixth to three fourths of the length of the  
longest. Seeds ashcoloured. Stipes cylindric,  $3\frac{1}{4}$   
inches long, white. *Obs.* 7200.

AGARICUS *muscarius*. *L. sp.* 1640; *suec. n.*  
1235. *Scop. carn.* ii. 415. *Huds.* 612. *Lightf.* ii.  
1010. *With. in bot. arr.* iii. 309. *var. 2.—Lew.*  
*disp. by Dunc.* 328. *Murr. v.* 555. *Ploucq. bibl.*  
i. 406.

2. *Stipitate, velate.*

5. **AGARICUS procerus.** Lamellae whitish, crenulato-erose, as broad as the thickness of the flesh, distinct from the stipes, uniting at the base into a cup. Stipes medullaceous in the middle, whitish with brownish scales. Vclum permanent, distinct from the stipes. Pileus squamose. *Obs.* 1965. In a meadow.—*Scop. carn.* ii. n. 1464. *Schaeff.* 12. n. 20. t. 22. 23. *Huds.* 612. *Fl. dan.* t. 722. *Roth germ.* i. 531. *Curt. lond.* iv. 39. t. *Sibth. ox.* n. 939. *Bot. arr.* iii. 376. *Pers. fung.* 257. *L. a Gmel.* ii. 1399. n. 20.

**A. annulatus.** *Lightf.* ii. 1025.

**A. acetabulosus.** *Schreb. lips. consp.* n. 1045.

**A. pileo papillari amplissimo in margine fornicate lacero et filamentoso, petiolo annulato procero inferioris tumido pilei acetabulo inserto.** *Gled.* 114.

Fungus pileolo lato, longissimo pediculo variegato.

*Raii syn. 3.*

(Fungus major, pediculo longo modice crasso, lamellis albis creberrimis superne ad margines apparentibus.

*Raii syn. 4,* is A. integer.)

*Stipes* bulbous at the base. *Pileus* at first ovate, afterwards conical sometimes convex, whitish, at length brown. *Seeds* whitish and yellowish whitish. *Obs.* 1965.

**AGARICUS procerus.** *Willd. ber.* n. 1101.

Fungus quercinus διψασθε. *Col. ecphr.* i. 337. t. 336. *Raii syn. 3.*

XVIII genus esculentorum fungorum. *Clus. hist.* iii. 274, cop. in

Fungi longissimo pediculo, candicantes sed maculati esculenti. *Bauh. J.* iii. pars ii. 826, &

Fungus coronatus aut marmoreus. *Sterb.* 77. t. 7.  
f. A. The scales of the pileus represented as the  
remains of a volva.

6. AGARICUS *excoriatus*. Lamellae whitish, distinct  
from the stipes, uniting at the base into a cup.  
Stipes fistular, whitish, smooth. Ring often disap-  
pearing. Pileus smooth. *From Schaeff.* 10. n. 17.  
t. 18. 19, and *Sibth. ox.* n. 940. *L. a Gmel.* ii.  
1399. n. 24.—*All. ped.* n. 2697.

7. AGARICUS *arvensis*. Lamellae crowded, at first  
whitish then fleshcoloured then rufous at length  
blackish brown, twice as narrow as the thickness of  
the flesh. Stipes medullaceous in the middle. Ve-  
lum adhering to the stipes. Pileus convex, whitish,  
where bruised turning yellowish. *Obs.* 1895. On  
the side of a road, and under firs on Lineall common  
between Kidderminster and Hartlebury in Wor-  
cestershire, June to Oct. 31.—*Schaeff.* 73. n. 158.  
t. 311.

A. *edulis*. *Pers. fung.* 418. *Link in tracts* 35.

Fungus totus albus *edulis*. *Vaill. paris.* 75, may be  
the plant in its earliest stage.

8. AGARICUS *campestris*. Lamellae crowded, at first  
roseo-rufous then rufous at last atro-rufous. Stipes  
solid, white. Pileus convex, white, subsquamose.  
*Obs.* 708. In pastures.—*L. suec.* n. 1203; sp.  
1641. *Bot. arr.* iii. 342. *Sibth. ox.* n. 941. *Scop.*  
*carn.* ii. n. 1478. *Poll.* iii. n. 1164. *Mill. J. ill.*  
i. t. 106. *Gou. hort.* 540. *monsp.* 460  $\alpha$ . *Huds.*  
610. *Fl. dan.* t. 714.

A. *caulescens*, petiolo sordido lacero, pileo albo mem-

branaceo, lamellis rufescentibus. *L. lapp.* n. 482.

A. pediculo annulato, pileo superne albo inferne rubente. *Guett.* i. 22.

A. caulescens, pileo convexo squamato albido, lamellis rufis. *L. suec.* ed. i. n. 1045. *Dalib.* 379.

Fungus campestris albus superne inferne rubens. *Bauh. J.* iii. 824. *Raii hist.* i. 87; *syn. 2. Magn. monsp.* 102; *hort.* 82.

(Fungus pileolo lato orbiculari candidante. *Tourn. paris.* 335; *ed. II.* ii. 161. *Vaill. paris.* 61, is arranged by the latter under the division with naked stipites.)

**AGARICUS campestris.** *Bry.* 367. *Pears. R.* i. 87. *Spielm.* 55. *Willd. ber.* n. 1097.

Fungus campestris esculentus vulgatissimus. *Geoffr.* iii. 503.

Fungus. *Dale* 57.

Champignon. *Berg.* ii. 864.

9. **AGARICUS mutabilis.** Lamellae tawny, crowded. Stipes terete, above the ring smooth and whitish, below brown and squamose. Velum filamentose. Ring permanent, imperfect. Pileus yellow, variable. In clusters. *Schaeff.* 6. n. 9. t. 9. *Bot. arr.* iii. 385.—*All. ped.* n. 2681.

10. **AGARICUS varius.** Lamellae flexuose, purplish, yellowish at the margin; Stipes solid, thickish, whitish above, somewhat rufous below, tuberous at the base. Velum filamentose. Pileus convex, flattish, bay. From *Schaeff.* 20. n. 37. t. 42, & *L. a Gmel.* ii. 1402. n. 48.—*All. ped.* n. 2721.

11. **AGARICUS sylvaticus.** Lamellae dirty flesh-

coloured. Stipes fistular, dirty white, often curved, tuberous at the base. Velum membranaceous, whitish. Ring permanent, membranaceous, whitish. Pileus squamose, strawcoloured, at first nearly globular at last flattish, not very fleshy. *From Schaeff.* 62. *n.* 130. *t.* 242.—*All. ped.* 2727.

12. AGARICUS *violaceus*. Lamellae numerous, fixed to the stipes, violetcoloured and brownish purple at length whitish. Stipes solid, bulbous at the base. Velum filamentose, fugacious, ferruginous. Pileus convex, slightly umbonate, smooth, glabrous, at length slightly concave in the middle; margin deflex. *Obs.* 2000. In thickets.—*L. a Gmel.* ii. 1401. *n.* 43; *suec.* *n.* 1226; lamellae dirtcoloured; *sp.* ii. 1641. *Huds.* 611. *Bot. arr.* iii. 325. *Willd. ber.* *n.* 1116. Lamellae violetcoloured.—*Lightf.* ii. 1018. Lamellae dull purple.—*Schaeff.* 2. *n.* 3. *t.* 3. Lamellae tawny.—*Bry.* 371. Lamellae when young of a beautiful violet.

*g purpurascens.* Lamellae pale brownish purple and brownish white. *Obs.* 2000.

A. *caerulescens.* *Schaeff.* 17. *n.* 29. *t.* 34. Lamellae bluish.

A. *bulbosus.* *Huds.* 611.

13. AGARICUS *bulbosus*. Glabrous, somewhat bay. Lamellae distant. Stipes solid, rather long, bulbous and ovate at the base. Velum fugacious. Pileus campanulate, broad, thin at the margin. *From Pers. fung.* 295. *Sow.*—*Hull in phys. journ.* xii. 512.

14. AGARICUS *torminosus*. Juice acrid, saffron-

coloured. Lamellae yellow, branched. Stipes short, thick, brickcoloured. Velum pilose. Pileus hemispheric, depressed in the middle, brickcoloured, with alternate paler concentric bands; margin vaulted, pilose, striate. *From L. a Gmel.* ii. 1412. n. 146, &—*Schaeff.* 7. n. 12. t. 12.

3. *Stipitate, not velate.*

15. AGARICUS *deliciosus*. Juice acrid, saffroncoloured. Lamellae brickcoloured, branched. Stipes cylindric, short, thick, somewhat fistular, spotted. Pileus hemispheric, depressed in the middle, brickcoloured with alternate paler concentric bands; margin vaulted. Flesh porous. *From Schaeff.* 7. n. 11. t. 11. *L. suec.* n. 1211; sp. 1641. *Huds.* 613. *Bot. arr.* iii. 298. *Northumb. guide* ii. n. 1598. *Sibth. ox.* n. 977.—*Berg.* ii. 865. *Bry.* 370. *Dufresnoy*, account from *in ann. med. iv.* 190, & *new med. journ.* i. 113. *Willd. ber.* n. 1119.
16. AGARICUS *piperatus*. Lamellae fleshcoloured white. Pileus flattish, lactescent; margin deflex. *L. suec.* n. 1195; sp. 1641. *Huds.* 613. *Ketz. scand.* n. 1810. *Bot. arr.* iii. 299.—*Dufresnoy*, account from *in ann. med. lustr. I.* iv. 190, & *new med. journ.* i. 113.
17. AGARICUS *cinnamomeus*. Lamellae yellowish rufous. Pileus dirty yellow. *L. suec.* n. 1205; sp. 1642. *Huds.* 615. *Bot. arr.* iii. 364.  
 A. caulescens flavus, pileo plano. *L. lapp.* n. 494.  
*AGARICUS cinnamomeus.* *Bry.* 371.

18. AGARICUS *clypeatus*. Lamellae white. Stipes long, cylindric, white. Pileus hemispheric, viscid, acuminate. *L. suec.* n. 1216; *sp.* 1642. *Huds.* 619. *Lightf.* ii. 1020. *Schaeff.* t. 52. f. 7. 8. 9. (*Bolt.* t. 57, *Sibth. ox.* n. 1028, is *A. acuminatus* *Schaeff.*)

*A. caulescens*, pileo hemisphaerico sordido umbilico prominente, lamellis albis, stipite longo cylindraceo albo. *Dalib.* 373.

Fungus *clypeatus* in medio protuberans. *Vaill. paris.*

68. Lamellae whitish, at length ashcoloured. Stipes solid.

*AGARICUS clypeatus*. *Perciv. T.* ii. 188.

19. AGARICUS *crassipes*. Lamellae whitish at length brownish. Stipes variable, solid, attenuate downwards, sulcate, brown. Pileus convex, variable, incise, brown. *From Schaeff.* n. 77. t. 87. 88. *Dicks.* i. 15. *Stackh. in bot. arr.* iii. 308.—*All. ped.* n. 2713.

20. AGARICUS *nitens*. Lamellae yellowish white, thick, branched, Stipes solid, yellowish white, curved, thickish at the base. Pileus convex, at length infundibuliform, viscid, yellowish white. *Schaeff.* 60. n. 126. t. 238. *With. in bot. arr. ed. IV.* iv. 153.—*All. ped.* n. 2676.

21. AGARICUS *oreadeus*. Lamellae cinnamon white and dirty buffcoloured, distinct from the stipes, narrower than thickness of the flesh, every fourth entire. Stipes solid, tough, whitish, compactly tomentose, inserted a little way from the center of the pileus. Pileus convex, slightly acuminate in the middle, of

the same colour as the lamellae, glabrous, tough when drying and dry. *Obs.* 1122. In fields parks commons and on the sides of roads, among grass, on gravel and gritstone. June to Nov.—*Obs.* 1903. On a fairy ring near Stourbridge.

- A. orcadensis. *With.* in *bot. arr.* iii. 335. *Silh. ox.* n. 1015. *Reh. ed.* ii. n. 1138. *Northumb. guide* ii. 86. n. 1633.  
 A. albellus. *Schaeff.* 34. n. 69. t. 78.  
 A. coriaceus. *Lights.* ii. 1020.  
 (A. collinus. *Schaeff.* t. 220, has a fistular stipes.  
 A. farinulentus. *Schaeff.* t. 205, has a fistular stipes, and lamellae brown tinged with black.  
 A. niveus. *Schaeff.* t. 232, has a fistular stipes and decurrent lamellae.)

Mostly growing in patches. Root somewhat bulbous, covered with short matted black fibres. Stipes erect, from  $\frac{1}{4}$  to 3 inches long, cylindric and thicker at the base, composed of silky fibres. Volva and velum none. Pileus at first hemispheric, sometimes at last nearly flat, uneven, when fully grown striate at the margin, often of a deeper hue in the middle, smooth, not clammy, somewhat brittle, from 2 lines to 3 inches broad. Flesh white, in taste resembling that of *A. campestris*. Lamellae lanceolate, very entire, thickish, rather thinly set, about 98, of 4 sizes, those of the larger size about 30.

**AGARICUS pratensis.** *Huds.* 616. *Reh.* n. 938. —*Bry.* 368.

22. **AGARICUS maialis.** Lamellae slightly decurrent, membranaceous, acuminate each way, white. Stipes solid, thick, short, white. Pileus convex, fleshy, dry, white. From *L. a Gmel.* ii. 1420, & *J. Bauh.*

Fungus pileolo rotundiori, Muceron dicti. *Vaill. paris.* 61.

*FUNGI verni*; Muceron dicti, odori et esculenti. *Bauh. J.* iii. 823. *Tourn. paris.* 449; *ed. II.* ii. 363.

Fungi verni, Mouceron dicti. *Spielm.* 55.

Fungus vernus et esculentus. *Geoffr.* iii. 504.

Mouceron. *Berg* iii. 867. Pileus fleshcoloured olive.

23. AGARICUS *candidus*. Lamellae whitish, thick, branched, connected. Stipes whitish, short, thick, solid, afterwards medullaceous in the middle, at length hollow. Pileus flat, depressed at the center, whitish, squamose; scales hairy. *Schaeff.* 54. n. 113. *t. 225.* *All. ped. n.* 2663.

24 AGARICUS *brunneus*. Lamellae brownish. Stipes fistular, slender, brittle. Pileus hemispheric, tumid in the middle, furrowed, brownish. *From Schaeff. t. 32.—All. ped. n.* 2694.

25. AGARICUS *esculentus*. Lamellae white. Pileus convex, claycoloured. Stipes fistular, slender, dirty strawcoloured. *L. a Gmel.* ii. 1420. *Jacq. in L. a Murr.* 976. *Host austr.* 641. *Roth germ.* i. 530.—*Willd. ber. n.* 1111.

26. AGARICUS *alliaceus*. Lamellae whitish. Stipes fistular, shining, black. Pileus convex, opaque, glabrous, pale brown. *From Jacq. vind.* 196. 299, & *in L. a Murr.* 976; *austr. t.* 82. *Roth*

*germ.* i. 529. *Scop. carn.* ii. *n.* 1561. *Relh. n.* 1091; *ed. ii. n.* 1171. *With. in bot. arr. ed. IV.* iv. 271. *Northumb. guide ii. n.* 1668—*Willd. ber. n.* 1112.

27. **AGARICUS obliquus.** Stipes white. Pileus concave, oblique, reflex, white. *From LEPIOTA parasitica nivea confertim enata et superne excavata, limbo oblique reflexo.* Browne, *Patr.* 78.

4. *Without a stipes.* L.?

28. **AGARICUS juglandicus.**

A. *coriaceus juglandicus.* Gron. *virg.* 175.

**AGARICUS coriaceus juglandis.** Schoepf 159.

Punk. Clayt. *in ph. tr. abr. by Hutt.* viii. 331.

## 973. BOLETUS.

*Receptacle porous. Obs. 7220, from B. versicolor.*

—L.

### 1. *Stemless.*

1. **BOLETUS laricinus.**—Cushionlike, somewhat conic, unequal, glabrous. Flesh very white. Pores just perceptible, very short. *From Pers. fung.* 532. Schreb. *ap. L. mat. med.* 278.  
 B. purgans. *L. a Gmel.* ii. 1436. *Pers. fung.* 531. *Agaricuum larignum.* *Lob. adv.* 449, *repr. in Manna e ramis laricis.* *Lob. adv.* 24, *Larix.* *Lob. ic.* ii. 230. *f. 2, &*

*Larix cum Agarico suo.* *Ger. by Johns.* 1365.

*Agaricus ex larice.* *Park. theatr.* 249.

*AGARICUS.* *Dalech.* ii. 1704. *Dod.* 477.—*Alst.* i. 349. *Boulduc in ac. sc. dbr.* by *Southw.* iii. 230. *Carth.* ii. 445. *Dale* 58. *Herm.* i. 244. *Lew.* i. 37. *Linn.* 278. *Mill.* *Jos.* 17. *Monro* iii. 8. *Quar. anim.* 91. *Spielm.* 640. *Vog.* 298.

*Agaricum.* *Geoffr.* ii. 771. *Rutty* 11. *Schrod.* 756.

*Agaricus albus.* *Pharm. austriaco-prov.* 15.—*Lew.* *disp. by Dunc.* 329. *Murr.* v. 573.

*Agaricus optimus.* *Berg.* ii. 861.

*Agaricus, sive Fungus laricis.* *Chom.* i. 26; *suppl.* 13.

Female Agaric. *Neum.* ii. 106.

2. *BOLETUS ignarius.* Cushionlike, smooth. Pores very fine. *L. suec. n.* 1256; *sp.* 1645. *Fl. dan.* t. 953. *Scop. curn.* ii. *n.* 1594. *Huds.* 625. *Lightf.* ii. 1034. *Bolt. fung.* t. 80. *Woodv.* iv. 159. *t.* 274. *Thornt.* 888. *t.*

*B. unguatus.* *Schaeff.* *t.* 137. 138.

*Boleti orbiculati.* *Trag.* 940. On the trunk.

*BOLETUS ignarius.* *Pharm. edin.*—*Coste & Willem. in med. comment.* v. 298. *Lew. disp. by Dunc.* 169.

*Agaricus quercinus.* *Lew.* i. 39.

*Agaricus quernus.* *Murr.* v. 561.

*Agaricus quercus.* *Spielm.* 415.

*Agaricus praeparatus.* *Berg.* ii. 862.

*Fungus ignarius.* *Vog.* 299.

*Agaric.* *Ford, James in ph. tr. abr.* by *Hutt.* x. 546. 563. *Thornhill ib.* 621. *Wats. ib.* 579.

Agaric of Oak. *Latterman ib.* 566. *Sharp ib.* 478.  
*Warner. ib.* 479. 480. 546.

**3. BOLETUS sanguineus.** Thin, red, glabrous above. Pores minute. *Obs.* 8943. Specimen gathered by Broughton in the parish of Clarendon in Jamaica, on trunks of decayed trees.—*L. sp.* 1646; *a Murr.* 977. *Pers. fung.* 541.

*Poria miniata superne glabra.* *Browne, Patr.* 76.

Semicircular, with concentric depressions near the margin; margin acute. *Flesh* of a leathery texture, fawn-coloured with layers of red,  $1\frac{1}{2}$  tenth of an inch thick. *Pores* angular, distinguishable by the naked eye, 4 times shorter than the thickness of the flesh, red, broader than the interstices. *Obs.* 8943.

**BOLETUS sanguineus.** *Swartz. obs.* 408. *t. 11.*  
*f. 4.*

**4. BOLETUS suaveolens.** Semielliptic, snowy white; convex above, very finely villose, underneath tubulo-porous; pores circular and angular. *From Jacq. quoted in Murr. appar. v. 569. L. a Gmel.* ii. 1437; *suec. n.* 1255; *sp.* 1646. *Bot. arr.* iii. 420. *Pers. fung.* 530.

*B. albus.* *Huds.* 626.

*B. suberosus.* *Walc. t.*

**BOLETUS suaveolens.** *Fritze, account from in phys. journ. ix. 23.*

*Fungus salicis.* *Murr. v. 569. Vog. 302.*

## 974. LYCOPERDON.

A *Fungus* containing seeds within. *Obs.* 2066. *L.*

**1. LYCOPERDON Tuber.** Globular, solid, muri-  
cate, without a root. *L. suec. n.* 1281; *sp.* 1653.

*Tuber gulosoruni.* *L. a Gmel.* 1481.

*Tuber cibarium.* *Bot. arr.* iii. 458. *Cycl. botany*  
*t. 2. Sibth. ox. n.* 1125.

*Tubera.* *Raii syn.* 28. *Dalech.* ii. 1585. *Bauh. J.*  
*iii. 849. Dod.* 477, *repr. in Lob. ic. ii.*, &

*Tubera terrae.* *Ger. by Johns.* 1583, & *cop. in*

*Tubera terrae edibilia.* *Park. theatr.* 1319.

*TUBER.* *Spielm.* 56. *Vog.* 304.

*Tabera.* *Dale* 58.

*L. Tuber.* *Berg.* ii. 871. *Bry.* 374. *Pears. R.* i.  
*88. Quar. anim.* 100.

*Tubera terrae.* *Robins. in ph. tr. abr. by Lowth.* ii.  
*624. t. 8. at p. 662. f. 157. 158; by Hutt.* iii. 554.  
*t. 14. f. 1. 2.*

**2. LYCOPERDON cervinum.** Globular, rather solid,  
fariniferous at the center, without a root. *L. a*  
*Murr.* 981; *sp.* 1653.

*Tuber cervinum.* *Bot. arr.* iii. 459.

*Tubera perniciosa terrestria seu cervina.* *Raii syn.*  
*28.*

*Tuberum genus, quibusdam Cervi Boletus.* *Bauh.*  
*J. iii. 851, cop. from*

*TUBERA cervina.* *Lob. ic. ii. 276,* the 2 lower-  
most of which *cop. in Park. theatr.* 1319.—*Geoffr.*  
*ii. 768. Schrod.* 751.

*Boleti cervini.* *Linn.* 279. *Schoepf* 159.

*Boletus cervinus.* *Spielm.* 416. *Vog.* 303.

*Boletus cervi.* *Herm.* i. 241.

*Boletus.* *Dale* 58.

3. LYCOPERDON *Bovista.* Roundish, opening with a rent. *L. suec. n.* 1280; *sp.* 1653. *Bolt. fung. t.* 117.

ꝝ *vulgare.* About an inch broad. *From memory.*—  
*L. suec. a* *Huds.* 642 *a*

*Fungus pulverulentus, dictus Crepitus lupi.* *Bauh.*  
*J.* iii. 848. *Raii hist.* i. 104.

*Crepitus lupi, sive Fungus ovatus.* *Raii syn.* 26.

*Lycoperdon.* *Latterman* in *ph. tr. abr.* by *Hutt.* x.  
566. *Lew.* ii. 77. *Parsons* in *ph. tr. ib.*

*Bovista.* *Pharm. suec.*—*Spielm.* 417. *Vog.* 298.

*Crepitus lupi.* *Pharm. austriaco-prov.* 33.—*Dale*  
57. *Linn.* 280. *Murr.* v. 584.

*L. Bovista.* *Lew. disp.* by *Dunc.* 343. *Phys.*  
*journ.* i.

*Fungus pulverulentus.* *Geoffr.* iii. 507.

*Fungus orbicularis.* *Herm.* i. 246.

*Fungus rotundus orbicularis.* *Chom.* ii. 624.

*Fuzball.* *Biss. ess.* 303. 121.

ꝝ *maximum.* From 4 to 8 inches broad. *From me-*  
*mory.*

*L. Bovista,* *L. suec. n.* 1280 *β*; *sp.* 1653.

*L. Proteus.* *Bot. arr.* iii. 465, *var.* 1. *Sibth. ox. n.*  
1129 *ε*

*Fungus maximus rotundus pulverulentus, dictus ger-*  
*manis Psofist.* *Bauh.* *J.* iii. 848. No fig.—  
*Raii hist.* i. 105; *syn. ed.* ii. 16; *ed.* iii. 26, where  
for *Bofist* read *Pfotist*.

XXVI generis perniciosorum fungorum 3 species.  
*Clus. hist.* ii, 288, *repr. in*

Fungus orbicularis. *Dod.* 476, &

Lipi crepitus. *Lob. ic.* ii, & the fig. representing the outer skin cracked, *cop. in*

Lipi crepitus, sive Fungus ovatus. *Park. theatr.* 1323.

**LYCOPERDON** maximum. *Dale* 57.

Crepitus lupi. *Berg.* ii. 873. *Schoepf* 159.

Fungi pulverulenti alia species *Geoffr.* iii. 507.

4. **LYCOPERDON carcinomale.** Clavate. Stipes cylindric, straight. *L. fil. suppl.* 453.—*Schreb. ap. Linn.* 280. *Thunb. ap. L. fil. suppl. ib.*

## 975. TREMELLA.

Gelatinous. Fructifications scarcely visible. From *L.*

1. **TREMELLA Nostoc.** Plaited, undulate. *L. suec.* n. 1136; sp. 1625. *Huds.* 564. *Lightf.* ii. 898. *Bot. arr.* iii. 226. *Fl. dan. t.* 885. f. 1. *Corradori*, account from *in phys. journ.* v. 397.

*Byssus gelatinosa*, fugax terrestris. *L. lapp.* n. 530. *T. terrestris sinuosa pinguis et fugax.* *Dill. musc.* 52. t. 10. f. 14.

*Ulva terrestris pinguis & fugax.* *Dill. ap. Raii syn.* 64.

*Muscus fugax membranaceus pinguis.* *Magn. monsp.* 180.

*Nostoc ciniflonum.* *Tourn. paris.* 506. *Vaill. paris.* 144.

**NOSTOCH.** *Geoffr. suite i.* 92. *Vog.* 134.

## 976. ULVA.

*Fructifications* in a semitransparent membrane. *L.*

1. *ULVA Lactuca*. Palmate, proliferous, membranaceous; segments attenuate downwards. *L. suec.* n. 1157; *sp.* 1683. *Bot. arr.* iii. 228. *Roth germ.* iii. 538. *Smith engl. t.* 1551.  
*U. labyrinthiformis.* *L. sp.* 1632.  
*U. marina, lactucae similis.* *Dill. ap. Raii syn.* 62.  
*Tremella marina vulgaris, lactucae similis.* *Dill. musc.* 42. *t. 8. f. 1,* representing it as it appears at a distance in the water.  
*Muscus marinus Plinii.* *Dalech.* ii. 1368.  
*Lactuca marina, sive intybacea.* *Bauh. J.* iii. 801, *imit. from*  
*Fucus marinus prior.* *Dod.* 474, which *repr. in*  
*Bryon lactucae foliis Plinii.* *Lob. obs.* 647, & *ic.* ii. 247, *cop. in*  
*Fucus marinus, Lactuca marina dictus.* *Park. theatr.* 1293, & *repr. in*  
*Lichen marinus.* *Ger. by Johns.* 1566. *Raii kist.* i. 77; *syn. ed.* ii. 10.  
*ULVA Lactuca.* *Bry.* 117.  
*Lichen marinus.* *Dale* 56.

## 977. CONFERVA.

Filamentose, terete. *L.*

1. *CONFERVA rivularis.* Filaments simple, equally thick throughout, very long. *L. suec.* 1161; *sp.*

1633; *mant.* 509. *Bot. arr.* iii. 261. *Smith engl.*  
*t.* 1654.

*C. fluviatilis sericea vulgaris et uitans.* *Dill. musc.*  
*12. t. 2. f. 1.*

*C. Plinii.* *Lob. obs.* 654, *cop. in Dalech.* i. 1023,  
*repr. in*

*Conferva.* *Ger. by Johns.* 1570, & *cop. in*  
*Alga aquatilis capillacea, sive C. Plinii, aliis Linum*  
*aquaticum.* *Park. theatr.* 1261.

*CONFERVA rivularis.* *Murr.* v. 550.

*Conferva.* *Vog.* 127.

2. *CONFERVA rupestris.* Filaments jointed, very  
much branched, green. *L. suec.* n. 1176; *sp.*  
1637. *Bot. arr.* iii. 271. *Fl. dan.* t. 948. *Smith*  
*engl.* *t.* 1699.

*C. marina trichodes ramosior.* *Dill. musc.* 28. *t.* 5.  
*f. 29.*

*Muscus marinus capillaceus* *Dioscoridis.* *Park.*  
*theatr.* 1289.

*MUSCUS marinus.* *Dale* 56. *Diosc. l.* 4. *c.* 99.

## 978. FUCUS.

*Capsules unilocular.* *Seeds mostly enveloped in*  
*mucus.* *From Gmel. S. fuc.* 7, & *Stackh.* ii. *p.*  
*i. to xvii.* *Roth germ.* iii. 438. *L.*

Capsules have not been hitherto discovered in all  
the species.

1. *Capsules aggregate, embedded in the frons, open-*  
*ing by an orifice.*

1. *FUCUS nodosus.* Frons compressed, dichotomous,

- : linear, dilating into solitary bladders. Leaves distichous. *Obs.* 8948. Specimen gathered on the coast of the isle of Wight.—*L. a. Murr.* 967; *sp.* 1628; *suec. n.* 1149. *Huds.* 584. *Gmel. S. fuc.* 78. *t. 1. B. f. 1. Bot. arr.* iii. 251. *Lightf.* ii. 918. *Stackh.* 35 *t. 10. Roth germ.* i. 522; iii. 454. *Fl. dan.* *t. 146. Smith engl.* *t. 570.*
- F.** caule compresso dichotomo, medio ramorum in vesiculam dilatato. *Roy.* 514.
- F.** caule tereti compresso dichotomo, foliolis oppositis minimis, vesicula in media parte singuli rami. *L. lapp. n.* 464. *Guett.* ii. 401.
- F.** maritimus nodosus. *Raii syn.* 48.
- F.** sive Alga marina angustifolia vesiculas habens. *Raii syn. ed.* ii. 3; *hist.* i. 70.
- Quercus marina tertia. *Ger. by Johns.* 1568.
- Leaves when the fruit is ripe oval, after shedding the seeds probably falling off. *Obs.* 8948.
- FUCUS** nodosus. *Mitchill, account from in chir. rev.* viii. 498.

- 2. FUCUS vesiculosus.** Frons flat, costate, dichotomous, dilatato-linear, with bladders in the substance of the frons; the fruit bearing segments tuberculate. *Obs.* 6216. Specimens gathered by Mrs. Zachary on the sea-shore at Weymouth.—*L. a. Murr.* 966; *suec. n.* 1145; *sp.* 1626. *Good. & Woodw. in lin. tr.* iii. 144. *Huds.* 576. *Bot. arr.* iii. 241. *Lightf.* ii. 904. *Smith engl.* *t. 1066. Gou. hort.* 536; *monsp.* 457. *Stackh.* i. 3. *t. 2; 12. t. 6. 9. f. c. c.*
- F.** Quercus marina. *Gmel. S. fuc.* 60.
- F.** sive Alga marina latifolia vulgatissima. *Raii syn.* 40.

*Quercus marina.* Russ. sea water t. 1. f. 1. Clus. hist. i. 21, repr. in Lob. ic. ii. 255, & Ger. by Johns. 1567, & cop. in .

*Quercus marina herbacea.* Park. theatr. 1293.

Seeds obovate, attenuate below, rufous, squeezed out of the capsules through open orifices, intermixed with short whitish hairs. Obs. 6218. Specimen gathered by Mrs. Foley at Parkgate in Cheshire.

*FUCUS.* Pharm. lond. noviss.

*Quercus marina.* Dale 56. Lew. ii. 259.

*SODA.* Murr. iv. 287; v. 537.

3. *FUCUS serratus.* Frons flat, dichotomous, costate, serrato-dentate. Fructifications terminal, tuberclose. L. a Murr. 966; sp. 1626; suec. n. 1144. Gmel. S. fuc. 57. Huds. 576. Bot. arr. iii. 241. Stackh. i. 1. t. 1. Roth. germ. i. 521; iii. 441. Smith engl. t. 1221.

F. folio plano dichotomo serrato laciniato. L. lapp. n. 462. Guett. ii. 402.

F. sive Alga latifolia major dentata. Raii syn. 42; hist. i. 71.

*FUCUS serratus.* Mitchill, account from in chir. rev. viii. 498.

4. *FUCUS esculentus.* Stem with lateral veinless leaves and a terminal lanceolate leaf. From Smith engl. t. 1759. Fructifications on the veinless leaves.—L. a Murr. 970; mant. 135. Bot. arr. iii. 243. Lightf. ii. 938. t. 28. Fl. dan. t. 417. Huds. 578, where after Fl. dan. insert 417. Gmel. fuc.

F. tetragonus. Good. & Woodw. in lin. tr. iii. 140.

*FUCUS esculentus.* *Bry.* 101. *Pears. R.* i. 87.

5. *FUCUS fimbriatus.* Stem with lateral veinless leaves, and a terminal ensiform leaf. *From Gmel. S. fuc.* 200. *t. 29. f. 1, &*

*FUCUS teres.* *Good. & Woodw. in lin. tr.* iii. 140, who do not appear to have discovered fructifications.

## 2. *Capsules distinct.*

6. *FUCUS Helminthochorton.*—Filaments terete, cartilaginous, capillary, branched, very much crowded, matted, jointed; articulations linear, opaque; internodia short, slightly transparent. Capsules hemispheric, lateral, scattered, sessile. *Roth.*

*Ceranium Helminthochortos.* *Roth. catalect.* ii. 168.

*Confervaria Helminthochorton.* *L. a Gmel.* ii. 1394. *n.* 38.

*Corallina minima bifida.* *Barrel.* 120.

*Muscus coralloides bifidus.* *Barrel. t.* 1276. *f. 3.*

*HELMINTHOCHORTON.* *Lew. disp. by Dunc.* 341. *Murr. v.* 543.

*Confervaria dichotoma.* *Lew. disp. by Dunc. jun.* 401.

7. *FUCUS pinnatifidus.* Frons, flat, veinless, cartilaginous, bipinnatifid, linear; terminal segments cuneiform. *Obs.* 4318. Specimen from Mr. Robson.—*Huds.* 581. *Bot. arr.* iii. 247. *Stackh.* ii. 48. *t.* 11. *Northumb. guide* ii. 71.—*Smith engl.* *t.* 1202. *Lightf.* ii. 953.

8. *FUCUS ciliatus.* Frons veinless, coriaceo-membra-

paceous, pinnatifid; segments lanceolate; margin and both surfaces with subulate processes. *From Huds.* 580, & *Smith engl.* t. 1069. Capsules globular, on the processes.—*L. mant.* 136; *a Murr.* 970. n. 41. *Northumb. guide* ii. 69. *Bot. arr.* iii. 246.

*F. holosetaceus.* *Gmel. S. fuc.* 177. t. 21. f. 2.

**FUCUS membranaceus rubens angustifolius,** marginibus ligulis armatis. *Doody ap. Raii syn. ed.* ii. 339. *Raii syn.* 47.

9. **FUCUS natans.** Stem filiform, branched. Leaves lanceolate, costate, dentate. Bladders globular pedunculate. *Obs.* 8385. Specimen gathered by Broughton near the shores of Jamaica.—*L. a Murr.* 965; *sp.* 1628. *Gou. hort.* 536; *monsp.* 458. *Host austr.* 632. *Northumb. guide* ii. 68. n. 1450. *Huds.* 572. *Bot. arr.* iii. 234.

*F. Sargasso.* *Gmel. S. fuc.* 92.

*F. caule tereti ramosissimo, frondibus lanceolato-linearis serratis, fructificationibus globosis, pedunculo et acumine filiformibus.* *Roy.* 513.

*F. caule tereti ramosissimo, foliis lanceolato-serratis, fructificationibus globosis pedunculatis subaristatis.* *All. nic.* 234.

*Sargassum litoreum.* *Rumph.* vi. 190. t. 76. f. 2.

*F. folliculaceus, serrato folio.* *Raii hist.* i. 72.

*Lenticula marina, serratis foliis.* *Lob. obs.* 653, *repr.* in *ic.* ii. 256, & *Ger.* by *Johns.* 1615, & a branch cop. in *Park. theatr.* 1281, outer fig.

**FUCUS natans.** *Schocpf* 158.

*Vitis marina.* *Dale* 56.

3. *Seeds dispersed in the substance of the frons.*

10. **FUCUS edulis.** Frons veiuless, flat, smooth, ob-

cuneiform, sometimes bifid, thick, succulent, entire at the margin. *Obs.* 8384. Specimen gathered by Mrs. Stokes at Barmouth in Merionethshire. The account of its texture in a recent state from *Stackh.* ii. 57. *t.* 12; *in bot. arr. ed. IV.* iv. 99. *Smith engl.* *t.* 1307.

11. ***Fucus palmatus***. Frons veinless, flat, cuneiform, palmate and bifid, membranaceous, proliferous; segments cuneiformi-oblong. *Obs.* 8949. Specimen gathered on the shores of the isle of Wight. —*L.* *sp.* 1630; *mant.* 508. *Huds.* 579. *Stackh.* ii. 54. *t.* 12. *Lightf.* ii. 933. *t.* 27. *Smith engl.* *t.* 1306. *Bot. arr.* iii. 245. *Good. & Woodw. in lin. tr.* 163. *Roth germ.* iii. 449.

*F. dulcis*, *Gmel. S. fuc.* 189. *t.* 26.

*F. foliis planis palmatis*. *Roy.* 515.

***FUCUS palmatus***. *Bry.* 100. *Pears. R.* i. 87.

12. ***Fucus saccharinus***. Frons flat, ecostate, mostly simple, ensiform. Stem terete, very short. *L. a Murr.* 970; *suec. n.* 1151; *sp.* 1630; *mant.* 508. *Huds.* 578. *Bot. arr.* iii. 243. *Fl. dan.* *t.* 416. *Lightf.* ii. 940. *Gmel. S. fuc.* 194. *t.* 27. 28. *Stackh.* 31. *t.* 9. *Smith engl.* *t.* 1376.

*F. caule tereti brevissimo, folio maximo ensiformi saepius simplici*. *L. lapp. n.* 460.

*F. folio singulari longissimo lato in medio rugoso, qui balteiformis dici potest*. *Raii syn.* 39.

*F. folio singulari longissimo lato in medio rugoso*. *Raii hist.* i. 74.

*F. phasganoides*. *Johns. in Ger. by Johns.* 1570, inner stem, *cop. in*

*F. maximus polyschides*. *Park. theatr.* 1292.

*FUCUS* saccharinus. *Bry.* 100. *Pears.* *R.* i. 87.  
*Schoepf* 158.

13. *FUCUS digitatus*. Frons palmate, flat, veinless ;  
segments ensiform. Stem terete. *Huds.* 579. *L.*  
*mant.* 134. *Bot. arr.* iii. 244. *Stackh.* i. 5. t. 3.  
*Fl. dan.* t. 39. *Smith engl.* t. 2274.

*F. arboreus polyschides edulis.* *Raii syn.* 46.

*F. arboreus polyschides.* *Raii hist.* i. 75; *syn. ed.*  
ii. 6.

*F. polyschides.* *Johns. in Ger. by Johns.* 1570,  
inner stem, *cop. in*

*F. maximus polyschides.* *Park. theatr.* 1292, inner  
stem.

*FUCUS digitatus.* *Bry.* 100. *Pears.* *R.* i. 87.

## APPENDIX.

## I. PLANTS OMITTED.

*Pentandria. Monogynia.*

## 979. BONPLANDIA.

*Calyx* quinquepartite. *Petals* 5, inserted into the receptacle. *Nectaria* 5, covering the germen. *Capsule* quinquelocular; cells monospermous. *Lew. disp. by Dunc. jun. 172. Willd.*

*Cusparia febrifuga. Pharm. lond. noviss.—Humb. & Bonpl.*

**ANGUSTURA.** Bark. *Pharm. edin.—Hull phlegm.* 277. *Lew. disp. by Dunc. 145; by Rother. 95; by Dunc. jun. 172. Murr. J. i. 183; account from in phys. journ. xi. 566. Pears. R. i. 170; ed. ii. 367. Woodv. iv. 162.*

*Cortex Angusturae. Aik. in Lew. ii. 488. Dunc. in med. comment. dec. II. v. 184. Ewer in med. journ. x. 154. Williams ib. 158.*

*Cusparia. Bark. Pharm. lond. noviss.*

*Angustura bark. Brande in med. journ. xi. 38; account from in med. comment. dec. II. x. 197. Chish. 181; account from in med. comment. dec. II. x. 113. Ferro, account from in chir. rev. i.*

74. *Jacks.* Rob. *fev.* 320. 326. *Lempr.* ii. 228. *Leits.* in *med. soc.* iv. 191. *Murr.* vi. 172. *Pears.* *R.* account from in *med. rev.* ii. 507. *Wilkinson* in *med. facts* ii. 52; in *med. journ.* xi. 331. *Willich,* *A.* in *phys. journ.* i. 510. *Winterb.* in *med. facts* vii. 41. *With.* in *med. comment.* dec. II. vi. 367.

### *Pentandria. Digynia.*

980. HERACLEUM *gummiferum.* *Pharm. lond.* noviss.—*Willd.*

*AMMONIACUM.* Gum Ammoniac. Gum Resin. *Pharm. lond. edin.*—*Chalm.* ii. 108. *Chem.* i. 182. *Cull.* ii. 368. *Dale* 119. *Geoffr.* ii. 602. *Heb.* 132. *Herm.* i. 630. *Hill* 759. *Lew.* i. 69; *disp.* by *Dunc.* 136; *jun.* 163. *Linn.* 283. *Mill.* *Jos.* 30. *Monro, Don.* *sold.* ii. 33. *Murr.* vi. 190; *J.* i. 332; ii. 37. *Neum.* ii. 49. *Pears.* *R.* i. 141. 289. *Russell, James,* account from in *phys. journ.* viii. 471. *Rutty* 226. *Und.* i. 316. *Wintr.* in *Mead mon.* i. 213; ii. 226. *Woodw.* iv. 161.

Gummi ammoniacum. *Alst.* ii. 436. *Bang in act.* *haun.* i. 6. 9. 10. 11. 16. 21. 96. *Berg.* ii. 889. *Callisen in act.* *haun.* i. 73. *Carth.* iii. 329. *For-dyce, G. pract.* 235; *W. fragm.* 47. 56. *Holyoke in med. pap.* 26. *Mead. mon.* i. 116. 117. *Monro* ii. 380. *Ploucq. bibl.* i. 135. 234. 369.

*Quar. febr.* 164. 205. 244. 284. 288. 324. 334. 346;  
*anim.* 12. 41. 44. 47. 110. 113. 115. 177. 242.  
 250. 296. 305. *Richter, account from in chir. rev.*  
 i. 99. *Schrod.* 709. *Spielm.* 197. *Stoll med.* iii.  
 88. 143. 152.

Gum Ammoniac. *Cull. pract. n.* 1066. *Darw.* ii.  
 359. *Fordyce, G. fev.* v. 92. *Und. i.* 217.

Ammoniac. *Bree* 255. 284; *account from in chir. rev.* v. 30.

## 2. PLANTS UNASCERTAINED,

whose generic characters have not been determined.

981. **TLAHUELILOCA** quahuitl. *Hern.* 56, no fig. 455. t.

**CARANNA.** *Raii hist.* ii. 1847.—*Alst.* ii. 408. *Berg.* ii. 890. *Carth.* iii. 351. *Dale* 324. *Dalech.* ii. 1792. *Gcoffr.* ii. 530. *Herm.* i. 656. *Lew.* i. 277. *Linn.* 283. *Mill.* *Jos.* 110. *Mon. a Clus.* 8; ap. *Clus. exot.* 298. *Monro* ii. 358. *Murr.* vi. 198. *Rutty* 94. *Schrod.* 719. *Spielm.* 312. *Vog.* 323.

Carannae Garciae nomine data resina. *Bauh. J.* i. pars. ii. 329.

Caranna Monardi. *Chom.* ii. 633.

Caragne. *Pom.* i. 265. (The fig. is a Palm.)

982. CANINGA. *Herm.* 43. No fig. *Pis. mant.*

No fig.

*CASSIA caryophyllata.* *Berg.* i. 395. *Carth.* iii. 242. *Dale* 295. *Geoffr.* ii. 173. *Herm.* i. 197. *Lew.* i. 301. *Linn.* 146. *Murr.* iii. 314. *Spielm.* 250. *Vog.* 287.

*Cassia cariophyllata, seu Cinnamomum americanum.*

*Chom.* ii. 402.

Canelle giroflee. *Pom.* i. 131.

983. CASSAMUNIAR officinarum. *Raii hist.* iii.

*app.* 243. *n.* 21. *Pet. gaz. t.* 27. *f.* 1.

Zerumbet officinarum. *Pet. gaz. t.* 22. *f.* 3, from a drawing sent by Camel.

Risagone, vel Cassamuniar. *Raii hist.* iii. 649.

*CASSUMUNIAR.* *Alst.* i. 405. *Mill. Jos.* 122. *Murr.* vi. 151. *Vog.* 218.

Cassumuniar. *Dale* 251. *Geoffr.* ii. 29. *Rutty* 107.

Cassumunar. *Lew.* i. 309; *disp.* 121. *Monro* iii. 50.

Zedoaria radice lutea. *Bryn. prod.* ii. 107.

Rizagon. *Grew mus.* 386.

984. PAU DE SANGUE. *Moor trav.* 113, quoted by Fotherg. *J. in med. obs.* i. 361.

*KINO.* Resin. *Pharm. lond.* & noviss. Gum resin.

*Pharm. edin.*—*Berlinghieri*, account from *in med.*

*rev.* viii. 326. *Cull.* ii. 43. *Hull phlegm.* 281.

*Lew.* ii. 27; *disp. by Dunc.* 242; *junc.* 292. *Pem-*

- berton*, account from *in chir. rev.* xiii. 16.  
*Valentine*, account from *ib. xi.* 240. *Woodv.* iv. 166.  
*Gummi Kino.* *Monro* ii. 398. *Murr.* vi. 202; *J. i.* 219. *Pears. R. ed.* ii. 347. *Ploucq. bibl.* i. 349.  
*Gummi rubrum astringens gambiense.* *Fotherg. Ant. in med. soc.* ii. 93; *J. in med. obs.* i. 361. *Perciv. T.* ii. 195; account from *in med. comment. dec. II.* v. 201.  
*Gum Kino.* *Darw.* ii. 100. *Home, F. clin.* 323. *Und.* i. 360.

985. COATLIS. *Hern.* 119. No fig.

**LIGNUM NEPHRITICUM.** *Alst.* ii. 46.  
*Berg.* i. 344. *Carth.* iv. 283. *Geoffr.* ii. 237.  
*Herm.* i. 232. *Lew.* ii. 131; *disp. by Rother.* 203;  
*in Neum.* ii. 162. *Linn.* 132. *Mill. Jos.* 267.  
311. *Murr.* ii. 400. *Schrod.* 634. *Spielm.* 654.  
*Vog.* 283.

*Lignum nephriticum caeruleo et flavo tingens.* *Bauh.* *J. i. pars i.* 492.

*Lignum peregrinum aquam caeruleam reddens.* *Chom.* i. 280.

*Guilandina Moringa.* *Bry.* 32.

986. NARDUS. *Garc. a Clus.* 133, repr. in *Garc. ap. Clus. exot.* 201, *abr. in*

*Nardus indica vulgaris.* *Bauh. J. iii. pars ii.* 203,  
lower fig. which cop. in

*Spica Nardi.* *Stap.* 1018, lower fig. &

*Nardus indica.* *Park. theatr.* 1595; *abr. ib. cop. in*

*Dalech.* ii. app. 16, & repr. in *Ger.* by Johns. 1080. The drug.—*Cord.* fol. 2. p. 1. No fig.—fol. 200. p. 1, cop. in *Bauh. Casp. theatr.* 194, &

*Spica Nardi indica.* *Dalech.* i. 921.

*Nardus Dioscoridis.* *Lob. adv.* 43, repr. in

*Spica Nardi.* *Lob. ic.* i. 83. The drug, from the shop of Martinelli at Venice.—*Stap.* 1018, upper fig. cop. from

*Nardus indica vulgaris.* *Bauh. J.* iii. pars ii. 203, upper fig.

*NARDUS indica.* *Cod. med.* p. lxxxi.—*Blane in ph. tr. abr. by Hutt.* xvi. 658; account from in *med. comment. dec.* II. vi. 114, & *med. facts* i. 153, (but the plant which he supposed to produce it is *Andropogon Jwarancusa.*) *Carth.* iii. 88. *Chom.* i. 340. *Dale* 257. *Diosc. l.* i. c. 6. *Geoffr.* ii. 107. *Lew.* ii. 126; disp. by *Rother.* 202. *Mill.* *Jos.* 308. *Monro* iii. 183. *Neum.* ii. 217. *Rutty* 343.

*Spica nardi.* *Berg.* ii. 824. *Vog.* 227.

*Spica nardi indica.* *Herm.* i. 42. *Linn.* 264.

*Spica indica.* *Alst.* i. 523. *Murr.* v. 445. *Schrod.* 686. *Spielm.* 299.

*Petit Nard indic.* *Pom.* i. 187. t.

*Grand Nard indic.* *Pom.* i. 187. t.

*Nardus.* *Theophr.* 1004. *l.* 9. *c.* 7. (*Plin.* 305. *l.* 12. *c.* 12, describes the plant, not the drug. His description does not accord with *Valeriana* or *Andropogon.*)

(*Nardus syriaca.* *Diosc. l.* 1. *c.* 16, seems from the

description of  $\pi\omega\lambda\nu\kappa\mu\kappa\sigma$  and  $\mu\kappa\rho\sigma\tau\pi\pi\sigma\tau\alpha\chi\mu\pi$  to be the produce of a different plant.)

987. ARUNDEL TREE. *Monro* ii. 303.

*OLEUM nucis indicae*, Arundulum dictum. *Monro* ii. 303.

988. MYROBALANUS indica. *Raii hist.* ii. 1531.

Myrobalani indae nigrae sine nucleis. *Bauh. J.* i. pars i. 201. 204. (The branch from Tabernaemontanus probably that author's invention.)

Myrobalaia indica. *Acosta* 271. *Garc. a Clus.* 116; repr. in *Clus. exot.* 195, & *Ger. by Johns.* 1500, & cop. in *Park. theatr.* 247.

*MYROBALANI nigri*. *Rutty* 337.

Myrobalani indicac. *Lew.* ii. 118. *Murr.* vi. 235.

Myrobalani indae. *Herm.* i. 349. *Spielm.* 420. *Vog.* 272.

Myrobalani indicae, seu nigrae. *Geoffr.* ii. 329.

Myrobalanus indica. *Mill. Jos.* 303. *Raii hist.* ii. 1531.

Myrobalanus inda. *Alst.* ii. 300. *Dale* 305.

Myrobalanus indica nigra. *Linn.* 231.

Myrobalani nigrae octangulares. *Lew. disp.* 179.

989. MYROBALANUS citrina. *Pluk. mant.* 152.

Myrobalaia citrina. *Acosta, Chr.* 270.

*Myrobalana flava.* *Garc. a Clus.* 116, repr. in *Clus. exot.* 195, &

*M. flava.* *Ger. by Johns.* 1500, & cop. in *Park. theatr.* 247.

*MYROBALANI citrinae.* *Bauh. J. i. pars i.* 201, the 3 upper figures, drupes; the branch in fruit said to be cop. from Tab. the descr. at 205.—*Geoffr. ii.* 328. *Herm. i.* 349. *Lew. ii.* 117. *Linn.* 283. *Murr. vi.* 235. *Spielm.* 420. *Vog.* 272.

*Myrobalani citrini.* *Schrod.* 771.

*Myrobalanus citrina.* *Pharm. austriaco-prop.* 51.—*Alst. ii.* 30. *Lew. disp. by Dunc.* 344; *jun.* 406. *Park. theatr.* 247.

*Myrobalanus citrina flava.* *Dale* 305.

*Myrobalanus citrina & flava.* *Mill. Jos.* 303.

*Myrobalani terrestres citrini.* *Rutty* 337.

*Myrobalani.* *Quar. anim.* 96. *Stoll med. i.* 127. 134; *iii.* 435. 264. 274. 287. 293.

*Myrabolans citrins.* *Chom. i.* 54.

990. SCHADJARET EL MURR. *Forsk. p. cx;*  
80.

*MYRRHA.* Myrrh. Gum resin. *Pharm. lond.* & *noviss. edin.*—*Alst. ii.* 449. *Bang in act. huun.* i. 21. *Baylies in med. pap.* 44. *Bell, B. surg.* i. 74. *Carth. iii.* 305. *Chom. i.* 184; *suppl.* 62. *Cull.* ii. 193. *pract. n.* 918. *Dale* 325. *Fordyce, G.* *pract.* 309, 315; *W. fragm.* 47. *Geoffr. ii.* 635.

*Griffith* hec. 2. *Heb.* 90. 94. *Herm.* i. 677. *Hill* 757. *Lew.* ii. 119; *disp. by Dunc.* 263: *jun.* 323. *Linn.* 283. *Mead mon.* i. 47. 100. 119. *Meza in act.* *haun.* i. 49. *Mill. Jos.* 305. *Monro* ii. 387. *Murr.* vi. 212; *J.* i. 333. *Neum.* ii. 55. *Pears.* *R.* i. 147. 294; *ed.* ii. 332. 388. *Perciv.* *T. in med. journ.* iv. 64. *Ploucq. bibl.* i. 558. *Quar. anim.* 11. 30. 89. 177. 189. 277; *febr.* 209. *Reid, T. phthis.* 211. *Rutty* 338. *Spielm.* 221. *Und.* i. 108. 134. 259. 344; ii. 62. 105. *Vog.* 328. *Wintr. in Mead. mon.* i. 212. 233. 266. *Woodv.* iv. 167.

*Myrrha rubra.* *Berg.* ii. 892.

*Myrrh.* *Bree* 255. 284. *Chalm.* i. 92. 222; ii. 88. 93. 208. *Jacks. Rob. fev.* 321. *May* 28. 45. 52. *Pears.* *R. account from in med. rev.* ii. 507. *Perciv.* *T.* ii. 349. 350. 391. *Thomas, account from in med. rev.* viii. 105. *Und.* i. 304; ii. 144.

991. **TACAMAHACA** foliis crenatis, Sadelhouts, *Lignum ad ephippia conficiendum aptum.* *Pluk. alm.* 360; *phyt. t.* 228. *f. 2.*

*Tecomahaca.* *Hern.* 55. *t.*

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Poisonous species of Angustura bark. *Jameson in chir. rev.* xiv. part ii. p. xcix. *Kinglake ib. p. lxxii.*

Bark sold under the name of Angustura bark. *Chir. rev. ib. p. xlvi.*

995. BALSAMUM RAKASIRI. *Carth.* iii. 415. *Lew. disp. by Rother.* 110. *Murr. vi.* 231. *Vog.* 309.

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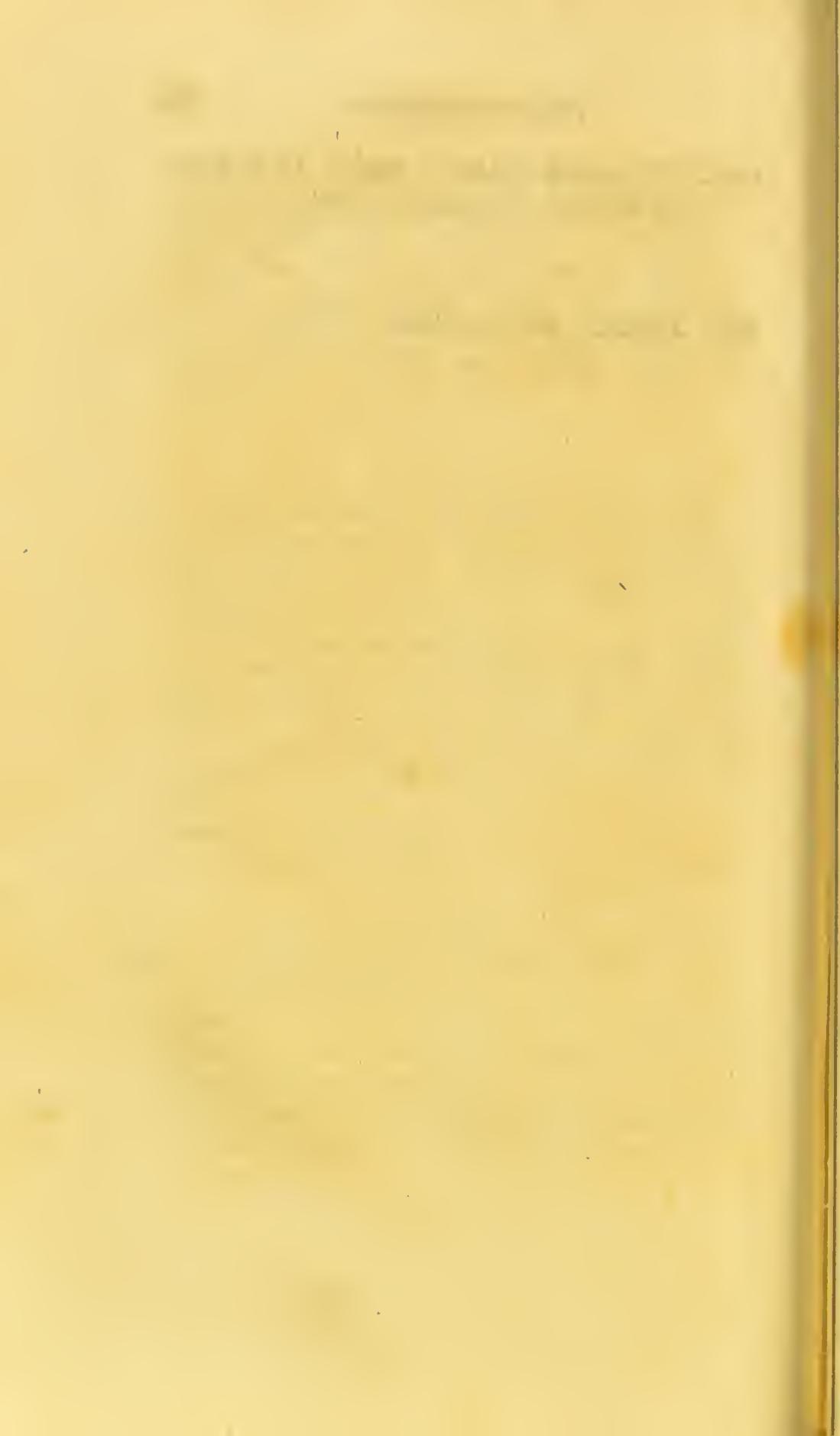
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## ADDITIONS.

## ADDITIONS.

In ii. 479. after n. 2 insert

## 436\*. BOSVELLIA.

*Calyx* inferior, mostly quinquedentate. *Petals* mostly 5. *Nectarium* shorter than the germen, erenate. *Filaments* inserted into the neetarium. *Capsule* mostly trilocular; eells mostly monospermous. *Seeds* alate. From *Roxb.* and *Colebrooke in as. res.* ix. 379.

1. BOSVELLIA *serrata*. Leaves pinnate; folioles serrate, tomentose. Racemi simple, axillary. *From Roxb. in as. res. ix. 379. t. at p. 377.*

*OLIBANUM.* See iv. 513, where erase *Juniperus lycia*.

In iii. 40, after n. 8 insert

9. MENISPERMUM? *Calumba.* Leaves quinquelobate. Racemi compound. *From Colombia. Berry in as. res. x. 385. t. 5.* Male plant.

*CALUMBA.* See iv. 666.

## ALTERATION.

In iii. 170, n. 4. erase the 2 first paragraphs and substitute

ACACIA nilotica. Spines stipular, in pairs, patent. Leaves bipinnate, quinquejugate and sexjugate; foliations deceinjugate to quatuordecimjugate; folioles linear, rounded at the end, glabrous. Petioles pubescent, with a gland at the innermost and outermost foliations. Capitula globose, pedunculate, axillary, aggregate. Branches smooth. Peduncle with a bractea. Obs. 8977. Specimen from Dr. Wright.—*L.* sp. ii. 1506; *mant.* 503; *a Murr.* 917. n. 42. *Hort. kew.* iii. 442. *Woodv.* ii. 187. t. 67, *abr.* in *Thorn.* 862. t.

ERRATA.

## ERRATA.

Page	VOL. I.	Page
61.	l. the last read utrinque	178. $\alpha$ read minor
87.	l. 16, read calyx	213. n. 1, read diffusum.
119.	l. 1, read fugax	306. After par. 1, insert par. 5, and all in that page and in the 2 first paragraphs of p. 307.
141.	l. 6 from the bottom, read Dens	347. n. 1. after the second line insert <i>Origanum Syriacum.</i>
161.	l. 5, read Hystrix.	362. l. 7. add of the corolla.
189.	l. 17, read Ptelea.	433. n. 3. l. 3, read In.
207.	l. 18, read umbellatum.	451. l. 13, after 403 insert —
225.	n. 92. Monetia. Erase the whole ar- ticle.	
369.	l. 9, read laciinis.	
412.	n. 167, read Strychnos.	
456.	Hedera. For Pomum, &c. Obs. 4176. read Berry unilocular, with from 2 to 5 seeds. Obs. 8956.	
	VOL. II.	VOL. IV.
73.	n. 2. read spinulifolium.	124. n. 2. l. 2, after from, insert <i>LEONTODON sinense.</i>
80.	l. 8. read Lob.	330. n. 2. l. 2. after From, insert <i>Polyphema Campeden.</i>
163.	n. 6. to par. 4, prefix (and at the end of the paragraph add is Ailanthus glandulosa.)	419. l. 9 from the bottom and the follow- ing paragraph belong to $\alpha$ .
305.	n. 4. read trisetiferus.	514. l. 5 from the bottom, read Thulia.
448.	n. 2. l. 7, read bist.	589. n. 956, read <i>Polytricum.</i>
489.	n. 1. read pentandra.	608. l. 4, read <i>Filix.</i>
556.	l. 7 from the bottom, read Aceto- sella.	677. <i>Bunium</i> add 146. 147. <i>Bystropogon</i> read iii.
		678. <i>Cerastium</i> read 562.
	VOL. III.	679. <i>Clethra</i> read ii.
8.	l. 4, read s. 13.	691. Insert <i>Cynosurus</i> i. 149. 150. <i>Datura</i> read 383.
24.	l. 11, The 1st division of the species includes the first 5 species. The subsequent divisions I neglected to insert.	682. <i>Elephantopus</i> read 163. Insert <i>Eugenia</i> iii. 72 to 76.
		685. Insert <i>Hypericum</i> iv. 96. <i>Illicium</i> <i>ferniculatum</i> , i. 487.
		687. Insert <i>Ligustrum</i> i. 14.

THE END.

