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An Account of Divers Rare Plants, Lately Observed in Several Curious Gardens about London, and Particularly the Company of Apothecaries Physick Garden at Chelsey. By Mr. James Petiver, F. R. S.

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than they imagine and that this Phenomenon will cur have an end, 'till the Mine of Sulphur is entirely confumed.

II. An Account of divers Rare Plants, lately obferved in Jeveral Curious Gardens about London, and particularly the Company, of Apothecaries Phylick Garden at Chelfey. By Mr. James Petiver, F.R.S.

#### SECT I. Rare English Plante

Olypody of the Wall. Polypodium murale, pinnulis ferratis. Polypodium alterum C. B. in Matthiot pag: 887. Fig. Polypodium Quercinum Gerard, p. 974. Fig. Polypodium 2. Tabern. Hiltor. 478. Fig. Polypodium 2. Filicula Ejuld. Icon. 799. Fig. 1. Tabernemontanus's N.B. Figure, which Caspar Banhine upon Matthiolas and Gerard have coppy'd, feems to relemble this Plant in its fomewhat waved Wings, and tip. But the Polypodium minus Dodon. Pemptad. 464. Polypodium Quercinum Jonfton. 1132. Polypodium 2 Matthioli Lugd. Hiftor. 1220. which Cafpar Baubine makes to be the fame with this. viz. Polypodium minus C. B. pin. 2. 359. 'is not like it, but a less and Denderer fort of the Common. Dr John Salvadore, a very Curious Botanift, fent this lately from Barcelona by the Name of Polypodium majus ferrato folio Burrslier Icon. Instit. Rei Herb, Tourn. 540. I gatliered this Plant & May 24. A. D. 1709, on the Walls of Places Windfor Caffle, in the Apartment of the Reverend Dr. Manningham, then Dean of that Place, and now Bishop of Chickefter, whole Son, a very Nice Botanift, first ob-Ggga ferved

ferved and shewed it me there; and hath since sent it to Chelfey Garden.

2 Names,

Diffinition.

Dilcovery

and Place.

Jagged Welfb Polypody Ray Hift. Plant. 126. 2. Syn. 22. 2. Edit. 2. p. 45. Polypodium Cambrobritannicum. lobis foliorum protunde dentatis Bobart. Hift. Oxon. 562. 8. Sect. 14. Tab. 2. Tig. 8. Polypodium Cambrobritannicum, pinnulis ad margines laciniatis Ray Hift. Plant, 136. 2. Synopf: 22. 2. Edit.2. p. 45. Hilix ampliffima, lobis toliorum laciniatis Cambrobritannica, Pluk. Tab. 20. Fig. r. Dr. Hans Sloane first fent a Specimen of this (then rare) Plant to Mr Ray, which he deferibes in his Hifory. It differs from the common Polypody, in having its Ale or Wings deeply jagged or torn : I never yet observed any Seed on this Fern. Mr. Jacob Bobart. Botanick Professor at Oxford, gives a very lively Figure of this elegant Plant, which he fays was first discover'd A. D. 1668. by Richard Kayle of Briftol, on a Rock, in a Wood near Dennis Powis Caftle by Caerdiff in Glamoreanfhire.

Orton Flowring Fern, or Small Ofmund. Ray Hift. Plant. 153. 3. Ofmunda Westmorlandica, folijs tenuiffime diffectis, Mus. Petiver. 792. to whole various Synonyms I thither refer you. Dr. Plukenet has figured this in his Phytographia, Tab. 3. Teon 2. and Mr Jacob Bobart very elegantly in his 3d Volume Plantar. Histor. Oxoniens. Sect. 14. T.4. p. 593. 4. Mr John Ray, that Patron of Botany, first observed this in England, about the Parish of Orton, where it grows plentifully, and in other places in Westmoreland. Mr Edward Lhwyd hath also found it on Snowdon Hill in North Wale. Mr John Robinson, alias Fitz-Roberts, a Curious Naturalist, sent up feveral of these Plants from Kendal, which were set in Chelfea Garden and elsewhere, but after a Winter or two, they often go off.

Rough-

3 Names,

1 mar

Rough ear'd Fox-tail Grafs, Ray Hift. Pl. 1265. 7. Sym. 239. ed 251. 5. Gramen Alopecuroides aspera spica C. B. phyt.1 2. Pl. LI. Gr. Alop. Spica alpera C.B. 4. 6. prodr. 10. F. Theatr. 56.F. 6. Gr. Al. fp. alp. brevi Park. 1558 Fig.6. Gramen echinatum Dalechampij Hiftor. Lugdun 432. Fig. Gramen xi fonston in Gerard, 1. 1. c. 22. p. 30. Gramen cum candà Leporis aspera, five spica murina Chabrei 185. Icon 6. I. B. 3. 1. 18. p. 474. Fig. It grows in the dry Borders of fowed Grounds about Montpelier and Narbon. Place. Mr Jezreel Jones gathered it about Lisbon. That Confummate Botanist Dr. William Sherard, now Conful at Smyrna, was the first who found it in our own Dominions, viz. in the Island of Jersey, where it grows very common in all the fandy Grounds. The laft and the preceding Summer it spiked very plentifully in Chelsen Garden.

Welfh Sorrell, Mr Petiver's English Herbal, Tab. 3. Fig. 4. Ray H. Pl. 180. 11. Syn. edit. 2. p. 57. 10 Acetofa Names. Cambrobritannica montana Park. 745. 12. Acetofa Cochlearia folio, montana Lhwyd. Acetofa Britannica rotundifolia fructu & semine compresso P. Blair. Acetosa rotundifolia repens Eboracensis, folio in medio deliquium patiente Moris H. Oxon. 583. 10. Sect. 5. Tab. 28. fig. 10. Pluk. Phyt. Tab. 252 fig. 2. Mr Ray takes this to be the fame with the Acetofa scutata repens C. B 114. 10. Prodr. 55. 3. Park. 744. 6. This rare Plant Mr John Parkinson, that accurate Botanist and Apothecary in his Where and Theatrum Botanicum tells you, was found about 80 by who have Years ago on a Mountain in Wales, by Mr. Moris dijcover'a Lloyd of Prisierworth, and about 20 Years fince it hath in England been again observed by his Namesake, that celebrated and known Naturalist Mr Edward Lbwyd, on the Mountains Snowdon and Caderidris; and foon after by Mr Tho. Lawfon and Mr John Fitz-Roberts, two other expert Botanists, in Westmorland, where the Curious Dr. Richard Richardson tells me he has also found it, as well as in Wales.

Wales, but not as yet in Torksbire, where he lives. Mr Patrick Blair, a Curious Botanist and Anatomist, hath observed it in divers places in Scotland.

Ferfey Cudweed. English Herbal, Tab. 18. Fig. 5. Ray Hilt. Plant, 284. 17. & 296. 7. Syn. ed. 82. 2. Gnaphalium Platean 2 Clus. H. 329. Fig. Gnaphal. majus lato oblongo folio C.B. 263. 9 Pluk, Phyt. T. 31. F 6. Gnaphalium oblongo folio Jonft. 643. Icon. Gnaphalium supinum oblongo folio Park. 686. Fig. 6. Gnaphalium ad Stechadam citrinam accedens, Chabr. 371. Ic. 2. I. B. 2.1. 26. p. 160. Fig. Elychry um Sylvestre latifolium, capitulis conglobatis C. B. 264 8. Phyt. 514 7. By this last Name Monfieur Vaillant, a very Curious Botanist, and Secretary to Dr. Fagon the French King's Chief Phylician, fent it me from Paris, where he gathered it wild. Dr. Sloane in his Voyage to Jamaica, found it about Funchall in the Madera Illands, where he observed it to sport very much in the shape of its Leaves, Flowers, and Stature. ) Dr. Sherard hath found it nearer home, viz, in the Ille of Ferfey on dry Banks and Walls very common.

Common Yellow Öxe-eye. English Herbal, Tab. 19. Fig. 7. Ray Hift. Plant. 341. 9. Syn. 56. edit. 90. Buphthalmum vulgare Jenst. 747. Fig. 3. Buphthalmum Dioscoridis C. B. phyt. 226. 5. Buphthalmum Tanaceti minoris folijs C. B. pin. 135. 1. Buphthalmum Matthiol. vulg. Millefolij folijs Park. 1370. Chamæmelum Chryfanthemium quorundam Chabr. 363. Icon. 2. J. B. 2. 1. 26. p. 1.22. Fig. Its Leaves are like Tansey, but smaller and hoary 3. By which and its flort rim'd yellow *Flowers*, its easily known from others. It grows in divers parts of Germany and Italy. Mr Ray found this on a Bank near the River Tees, not far from Sogburn in the Bishoprick of Durefm.

Welsh Yellow Poppy Ray Hift. Pl. 856.9. Syn. 122. 6: ed. 180.6. Argemone Cambrobritannica Iutea Park 369. fig. 4. opt. Argemone Iuteum perenne, Isciniato Iolio Cam-

6 Names,

Places.

CharaEter

Place.

8 Names. Cambrobritannieum Ray Syn. 122. 6. edit. 2. p. 180. 6. Its long finocith Heads, Yellow Flowers, and Leaves not Character: unlike Celandine, diftinguish it from all others. Mr John Parkinson, that laborious Botanist, first found this elegant Plant in Wales; fince which the Inquisitive Mr. Ray and Mr Lonyd; have both observed it in divers other Places in those Parts. It Flowers and Heads in Chelsey Garden most part of the Summer.

Oermander Whitlowgrafs Ray 790. 4. Syn. cd. 165. 2: Alyflon Veronica folio Elem. Botan. 790. Burfa Paftoris Names. major loculo oblongo C.B. 108. Prodr. 50. Fig. Physicity 11 6. descr. Bursa P. sublongo loculo affinis pulchra planta I B. 2. 1.22. p. 938. Fig. Chabr. 295 18.5. Draba minima muralis discoides Col. 274. Fig. Thlaspi Veronice folio Park. 843. F. 13. Its Leaves refemble our mi'd Ger-Likenefs. mander, the Flowers white and Imall, and the Podd longer Time. than those of Whalowgrafs. It Flowers and Sceds in March Place. and Aphill Grows about Mompelier, and in the Hedges between Luca and Pifa. Mr Ray found this on the fides of the Mountains in feveral Paris of Craven, Torkshire : from whence Dr. Richard fon in those Parts, has been pleased to fend it to Chelfey Garden. Mr Thomas Pool of Nottingham, a Cutious Boranift, has obferved it about Crumford in Darby shire. 10

Small Sea Cranesbill. Ray 1056 3. Syn. 154. 1. ed. 216. Names. Geränium minimum procumbens, folijs Betonicæ Mor. H. Ox. Sett. v. p. 512.8. Geranium pufillum fupinum mari. timum Altheæ aut Betonicæ folio noftras Ray 1056. 3. Syn. 154. 1. edit. 216. Pluk. Tab. 31. Fig. 4. The first When d fordifcovery of this Plant is owing to Dr. Moriffon, that vered. learned Botanist, who found it in Stoney places about Place. Chadder in Somerfeißire 5 and fince by Mr. Ray on the Sea Coasts of Cornival and Water plentifutly.

SECT.

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#### SECT. II. European Plants, not Engliff.

11 Names,

Place.

Names.

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S Oft, fhort-ear'd Fox-tail. Ray Hift. Pl. 1265.6. Alopecuros Dod. Pempt. 541. fig. Ger. 81. fig. Jonft. 87. Fig. Alopecuros genuine Park. 1166. Fig. 1. Gr. Alopecuros spica brevi Chabr. 186. Ic. 2. I B. 2.1. 18. p. 474. Fig. Gr. Alop. sp. breviore GB. Phyt. 26. Cxx. Gr. Alopecuroides spica rotundiore C. B. 4. 1. Theatr. 56.1 This pretty soft headed Grass is one of the Ornaments of Chelfey Garden. Grows wild in Sicily, Italy, Nanbone, and about Montpelier.

Great Spanish Cowquakes. Ray H. Pl. 1274.4. Gramen Tremulum maximum C. B. 2. 1. Prodr. 9. Fig. Phyt. 10.38. Theatr. 24. Fig. 2. Gr. Tremul. max. Hispanicum Park. 1165. Fig. 5. Phalaris pratensis altera Jonst. 87. Fig. opt. 3. Grows in Spain, Sicily, and some Parts of Italy. Its a very elegant and ornamental Plant in Gardens; and if well dryed never decays.

Canary Graís. Ray Hift. Plant. 1248. 1. Phalaris Dod. 510. Fig. Chabr. 179. Ic. 2 I. B. 2. 1. 18. p. 442. Fig. C. B. Phyt. 55. Theatr. 534. Fig. Ger. 80. Fig. 1. Jonf: 86. Fig. 1. Phalaris major, femine albo C. B. pin. 28. Phalaris vulgaris Park. 1163. Fig. 1. Its call'd Canary grafs, becaufe brought from thence, and is the common Food of those Birds. It grows not only in the Canary Iflands, but in Spain, Tuscany, Montpelier, &c. amongst Corn. This is a beautiful Corn grass, and often found scatter'd in many Old Gardens.

Star-headed Succory. Ray Hift. Plant. 256. cap. 4. Rhagadiolus Elem. Botan. 382. Inftit. Rei Herbar. 479. Rhagadiolus alter Cafalpin. 151. Hieracium filiquâ falcatâ C. B. 128. Phyt. 2. 12. 19. falcatum Lobelij Ger 225. Fig. 9. Jonfl. 298. Fig 8. Hieracium falcatum feu stellatum Park. 796. Fig. 2. Hieracium Stellatum Chabr. 320. 4. I B. 2. 1. 24. p. 1014. This is manifestly distinguish'd from

13 Names.

Place.

14

from all Succory and Hawkwieds, in having ftarty Character Podlike Heads and finall yellow Flowers like Nipplewort. Grows about Montpelier, Bononia, and near Petracks Place. Tomb at Padua.

Greater Spanish hoary Hawkweed. Ray H. Pl. 221. 2. 15 Hieracium lanatum Sonchi vel Erigerontis facie H. Levd. Names. 314. villosum, Sonchus lanatus Dalechampij dicum. Ray Hift. Plant. 231. 2. Sonchus lanatus Dalechampij Lugd. 1116. Fig. I. B. 2. l. 24. p. 1026. Fig. flore aureo Erigerontis Chabr. 317. 2. Ic. Sonchus villofus luteus C. B. Phyt. 205. xi. Sonchus villofus luteus major C. B. pin. 124. Park. 809. Fig. 1. Dalechamp and Parkinfons Fi-N.B gures, were they more procumbent, would better refem. ble this Plant than those of I. B. and Chabrens. Grows place. about Mompelier and Meffinia in Sicily plentifully. Dr. Salvadore hath alfo found it near Barcelona. This Flowered in Chelsea Garden from July till Autumn.

Greater Španish bearded Hawkweed. Ray H. Pl. 232. 7. <sup>16</sup> Hieracium medio nigrum Beticum majus. Park 792. 6. <sup>Names.</sup> Hieracium medio nigrum, A. majore Jonst. 1625. The peculiarity of this Plant is to have a bearded Head, <sup>Charatter.</sup> with Brimstone Flowers and black in the middle. This pretty Hawkweed was first brought into our English Gardens about the Year 1620 from Spain by Mr William Boel, a Fleming, who communicated the Seeds of this and several other Spanish and Portugueze Plants to Mr. Coys, Goodyer, Jonston, and Parkinson, all eminent Botanists in those Days.

Hoary Bucksborn Chamomil. Chamæmelum Coronopi folio tomentofo. The largest of these Leaves refemble our Wart or Swines Cress, but are very hoary; its a low Described Plant with hollow Stalks, especially when dry. The Flowers of the fize and shape of the Single Sweet Chamomil the Branches leafy, but the Flowers when full grown, stand on Stalks void of Leaves two and sometimes three Inches bare. Chelsea Physick Garden is obliged to Mr Ja-H h h cob Bobart, Botanick Professor of Oxford, for this elegant Plant, and divers others he has been pleafed to fend thither.

18 Roman Wormwood Ray H. Pl. 367. 5. Absinthium An-Names. ftriacum Sophiæ folio. Nobis Abfinthium Ponticum vulgare Chabr. 374. Ic. 3. Clus. 239. Fig. opt. fol. inferius albo I. B. 2. l. 26, p. 175. Fig. Absinthium Ponticum tenuifolium incanum C. B. 138. 4. Phyt. 235. 6. leu Romanum vulgare. Park. 98. Ic. opt. 2. Absinthium tenuifolium Ponticum Galeni. Jonft. 1096. Fig. 2. The lower Leaves of Diffinction. this Wormwood fo much refemble those of the Sophia Chirurgorum, or Flixmeed, that its very easie to diffinguin it from the other forts. Grows in divers parts of Germany, and near Vienna, in Stoney Places. Flowers and Seeds towards Autumn.

19 Nanes.

Bur-Cumin. Ray Hift. Pl. 402. 6. Cuminoides vnigare El. Bot. 250. Inft. Rei Herb. 301. Cuminum Sylvestre Dod. 300, Fig. Ger. 908. Fig. opt. 1. Jonft. 1067. Ic. 1. Park. 372. Ic. 3. capitulis globofis C. B. 146. 3. Phyt. 252, 2. Cuminum Sylv. 1. valde odoratum, globulofum I.B. 2.1.27. p. 23. Fig. Chabr. 384. Ic. 6. This is a very fingular Herb. and not easie to describe; its lower Leaves like Honewort, but deeper cut; its flewsey Heads grow in round clusters, with elegant feathered Seed. Tabernæmontanus his Figure, which Gerard has coppied, is much the fineft Icon. and by which you will have a good Idea of it. Grows in Narbone and other Paris of France. I have also had it from fome of the Mediterranean Isles.

Annise Dale 210. Anis Pomet. l. 1. p. 13. F. Lemery 44. Anifum C. B. Phyt. 2. 9. Ger. 880. Fig. 1. Jonft. 1025. Fig. Park.911. Ic. Anifum vulgare Clus. 1. 6. p. 202. Fig. Anisum Herbarijs C. B. 159. 1. Anisum Veteribus Chabr. 396. Icon. 1. I. B. 3. 1. 29. p. 92, Fig. The first or lower Leaves of this Umbel are often fingle and round, which few or none of the Figures express. Mr Ray fays it fowed

Place.

Place.

20

N. E.

N.B.

fowed plentifully in the Isle of Malta, where they make Place. great profit of it, and call it there Sweet Cumin.

Aleppo Ziziforum or Rose Basil. Ray Vol. 3. p. 299. 18. 21 Clinopodium humile Syriacum breviori folio Ziziforum. Names. Bob. H. Ox. p. 374. 5. S. xi. Tab. 8. Fig. 2. Clinopodium fistulosum pumilum, India Occid. summo caule floridum Pluk. Phytograph. Tab. 164. fig. 4. Clinopodium Alpinum Roseum Satureiæ folijs Boccon. Mus. Plant. rar. 135. This Icon feems to be taken from a shriveled Tab. 95. Specimen, which the Author found on the Mountains of Norcia. Mr Bobarts Figure which Dr. Plukenet copied, very Form. well refembles this Plant, which from a ftringy Root rarely rifes a foot high; its two lower Leaves refemble our great Stone Bafill (or Clinopodium majus) with four more at the top; in the midft of these stand a tuft of purplish Flowers, set in long pipey husks, rough or hairy as is the whole Plant. The Learned Dr. Huntington first fent this elegant Plant from Aleppo to Oxford. from whence our Physick Garden has been adorned with it.

Purple, long-leav'd Arch-angel. Ray 559. 2. Laminm 2.2. folio oblongo C. B. Phyt. 437. 2. Lamium fl. rubro Park. Names. 606. 4. Lamium purp. non fætens, folio oblongo C. B. Galeoplis five Urtica iners, fl. purpurascente ma-231.2. jore, fol. non maculato I B. 3. 1. 28. p. 321. Fig. This Plant is like the common white Arch-angel, but that the Flowers are purple and curioufly speckled. J. B. hath observed this in Italy, also about Geneva and Basil. Parkinfon fays, it is found in fome places with us; place. but the Herbarists of this Century have not yet met with it. It hath Flowred several Summers in Chelsea Garden, and I prefume from the Phylick Garden at Oxford, Mr 7acob Bobart having formerly fent me Specimens of it.

Hemp Mallow. Ray H. Pl. 605. 6. Alcea Cannabina 23 C. B. 316. v. Phyt. 634. 6. Chabr. 308. Ic. 1. Alcea fruticofa Cannabina. Jonft. 934. Fig. Alcea fruticofa Canna-H h h 2 bini

bini folio Clus. l. iv. p. xxv. Fig. opt. Alcea Pentaphyllea Park. 202. Fig. Alcea Pentaphylli folio vel Cannabina. I. B. 2. J. 22. p. 958. Hig. Grows 6 or 7 foot high ; its Hemp-like Leaves, eafily diffinguish it from all others. Mr Ray has observed this at Mompelier, as also in Italy and Sicily.

24 Names.

Curled Mallow. Manve frise Gall. Ray 597. 1. Malva crifpa Ger. 785. Fig. 2. Jonft. 931. Fig. 2. opt. I. B. 2.1. Malva crispatis oris Lob. Ic. 2. 651. 23. D. 952. Fig. Malva crispis folijs Park. 298. Fig. opt. folij. Maiva Distinction: folijs crispis C. B 315. 5. Phyt. 628. 4. The curled Leaves and small whitish Flowers, clustering about its Stalks, diftinguish it from others. This has been fo old an Inhabitant in Gardens, that its Native place is scarce known.

Grafs-leaved Crowfoot. Ray H. Pl. 587. 1. Ranunculus 25 Gramineus Park. parad. 218. 11. Fig. p. 221. 1. Gramineus Lobelij Ger. 808. Fig. 10 opt. Gramineus minimus C. B. phyt. 327. 28. Gramineus fl. luteo fimplici Park. 236. Fig. Ranunculus 9. Jonst. 953. mont. folijs Gramineo C. B. 180. v. Pumilus Gramineis folijs I. B. 2. p. 850. Fig. Minimus Gramineis folijs Chabr. 470. Ic. 4. This has long blueish graffey Leaves, with a fingle yellow Flower and firingey Root, by which its known from the other narrower leaved Crowfeet. Grows in Meadows about Montpelier, Narbone, and Provence. It Flowers in our Gardens in April and May.

Dr. Covell's Venus Looking-glass. Speculum Veneris fl. ampliffimo Thracicum. Ray H. Pl. 742: 2. The Leaves are broad and long like our great Stitchwort, and those about the Flower are hairy edg'd; by which and the specious largeness of its Flowers, it differs from the rest. We owe the first Discovery of this beaut ful and ornamental Plant to that Reverend, Curteous and Curious Gentleman Dr. John Covell, Master of Christ Church in Cambridge, who in his Travels to Constantinople found this 

Place .

Names.

Time.

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Difcovery and Place. in Thrace, and brought Seeds of it over, which he gave to Mr Peter Dent, an Eminent Apothecary and Botanist in the University, who communicated the same to Mr Ray, who raised the Plant, as we have lately done at Chelsey Garden, where it makes a beautiful Show.

Dasse Rocket. Ray H. Pl. 807.6. Eruca Bellidis folio 27 Moris. H. Oxon. 231. 18. The Leaves of this Plant may Names. be taken for the great Dasse, were it not for its biting Radiss taste, the Flowers are yellow, and Pods long like the Common; both these appear from May till August. Time.

Dented leaved Hedge Mustard. Erysimum folio dentato, 28 fl. minimo: The Root-leaves of this Plant are long, Name. narrow, and toothed like the Dandelion, but more flightly; these on the Stalk are much less, and only serrated, the Flomers pale, yellow, and very small; these are followed by stender Pods above 3 Inches long, and when ripe seem joynted; they stand off from the Stalk on very short Pedicles.

Sciatica Creffes. Ray Hift. Plant. 827. 1. Iberis C. B. 29 Phyt. 153. Iberis Cardamantica. Ger. 197. Jonft. 253. Names. Fig. opt. Iberis latiore folio C. B. 97. 2. Park. 854. Fig. 2. The Root-leaves ftand on long footftalks, are half an Defcription. Inch broad, two or three long, notch towards the point, but on the Stalks they are long, narrow pointed, and plain, with Pedicles, both of a Crefley laft. The Flowers place. Imall and white, the capfules cordated. Grows common in Highways, and untilled places both in Germany, Italy, Sicily, &c.

Boccones Spangle-Mustard. Ray H. Pl. 837. Thlaspidium Raphani folio El. Bot. 183. I. R. H. 214. Thlaspi Names. biscutatum Raphani aut Irionis folio Boac. rar. Pl. 45. Tab. 23. This differs from the common, in having auriculated, or rather small wing'd Radifo-like Leaves. Its an annual Plant, and Flowers in our Gardens from Midsummer till near Christmas. Signior Paul Boccore a Corious Place. Botanist, first found this Herb about Marseilles and in

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the Island of Sicily, in rough and uncultivated places plentifully.

31 Names:

German Milk-Vetch. Ray H. Pl. 916.2. Altragaloides Dod. pempt. 551. Fig. Jonft. 1239. Fig. 4. Astragaloides altera Herbariorum Lob. Ic. 2. p 78. 2. Belg, 2. p. 92. Astragalus Herbariorum Park. 1086. Fig. 8. Astra-Fig. galus major Fuck/io Chabr. 151. Ic. 5. I. B. 2. 1. 17. pag. 324. Fig. Orobus Pannonicus 2 Clus. l. vi. p. 220. Fig. Orobus Sylvaticus folijs Viciæ C. B. 252. 6. Grows opt. wild on the hilly Woods about Geneva, and in divers places of Germany. This has the face of a Vetch, but grows upright; its Howers and Pods refemble our Wood. Pea, but differs much in its Leaves.

Broad or Flat Buttons. Ray Hift. Pl. 961.2. Medica lata Park. parad. 339.8. folliculo lato Park. parad 336. Fig. 8. Medica orbiculata I. B. 3.1. 17. p. 384. F. Chabr. Trifolium scutellatum, fructu latiore, folio 166. Ic. 1. obtuso C. B. Phyt. 659. 19. I. B. and Chabreus, their N. B. Icons very well refemble this Plant, but the Leaves do not always end blunt, as the Figures express, tho' they This differs from the next in being flat head-Distinction. often do. ed, and having but ? or 4 twirls in each; they are fingle, double, and fometimes 4 or 5 in a clufter. Found on the Euganian Mountains and about Mompelier. Mr Ray has observed it in Sicily.

Round Snails or Barbary Buttons. Ray H. Pl. 961. 1. 33 Medica Cochleata vulgaris Park. parad. 338. 5. Fig. 337. 5. Medica Scutellata I. B. 2. l. 17. p 248. Fig. Chabr. 165. Trifolium Cochleatum Jonft. 1199. Fig. 1. Ic. opt. 6. Cochleatum 1. Dod. Pempt. 575. Fig. Cochleatum fructu latiore C. B. 329. 3. Cochleat. fr. latiore folio acuto C.B. The largest of these Leaves are somewhat Phyt. 659. 19. like those of Roles, and pointed, but the smaller often Description These Buttons are round, generally grow fingle, obtufe. Place. and have each 6 or 7 twirls. Found about Mompelier very common amongst Corn.

Great

Character.

Place.

32

Names.

Names

Place.

Great Hedghogs. Medica magno fructu, aculeis fur-34 Names. fum & deorfum tendentibus I. R. H. 411. Medica Cochleata spinosa major, dicarpos seu capsula spinis longioribus furfum & deorfum tendentibus Mor. H. Ox. 152. 8 & 9. Tab. 15. Fig. 8 & 9. Medica Cochleata spinosa, echinis magnis utrinfo; turbinatis cum spinulis reflexis. Ray H. Pl. 962. 10. Medica spinosa altera Park. parad. 339. 7. Fig. 337. 7. Majoris Batica species 1. spinulis intortis Goodyeri Jonst. 1200. Cochleata capsulà majore fpinola, spinis surfum atque deorsum tendentibus Flor. Noriberg 116. Trifolium Cochleatum spinosum majus. Thefe Described fpinis furfum & deorfum tendentibus Hort. Blæs. Leaves are like those of Melilot. and lightly crenated as the Sun Spurge the Fruit as big as a small Nutmeg, and often 3 or 4 together, thick fet with long Spines, which lye both ways, viz. up and down, close to the head, by which its known from all others. Grows about Nar- Place: bone, flowering early in the Spring.

Hard Bur Hedgehogs. Medica Cochleata fructu duro, fpinis brevibus rigidis. The Fruit of this refembles our Xanthium or Leffer Burdock, and about the fame fize; its Heads close and hard, with ftiff fhort prickles fomewhat crooked, and often grow 4 together.

Hard Warty Hedgehog. Medica Cochleata fructu duro 36 verrucofo. Medica magna turbinata. Chabr. 166. Ic. 2. Names. The fingle Fruit at the bottom of the Figure is very like  $N_{c} B_{c}$ thefe Heads. Its Fruit fomewhat lefs than the laft, and hath Warts inftead of Prickles grow often fingle, and are rarely more than two.

Horfe-fhoes. Ray H. Pl. 966. 31. Lunaria radiata Italorum Lob. obf. 498. Fig. 3. Lunaria radiata Italorum, Nome-Medica lunata five falcata Lob. Icon. 2. 38. id. Belg. 2. 43. Fig. Medica lunata I. B. 2. l. 17. p. 386. Fig. Park. 1116. Fig. 8. id. parad. 337. Fig. 9. Medica lunata five falcata Chabr. 167. Ic. 2. Sylv. altera lunata Lugd. 503. Fig. Trifolium filiquâ lunatâ Jonft. 1207. Fig. 1. Trifolium Description, folinm siliquâ falcată C. B. 330. 3. Phyt. 660. 28. The Pods of this elegant Plant refemble a Half moon, or Horfe-floe; they are very thin and transparent, the edges are finely fet with hairy thin Spinulæ, and grow fometimes two together.

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Names.

Charalter.

Sooty Clover. Ray H. Plant. 943. 1. Trifolium Alpaltites five bituminolum Park. 716. Fig. 2. Aspalt. Bitumin. odoratum I. B. 2. l. 17. p. 366. Fig. Aspalt. rot. & longioribus folijs Lugd. 504. Fig. Trifolium bituminofum Dod. 566. Fig. Ger. 1019. Fig. Jonft. 1187. Fig. Irifolium bitumen redolens C. B. 327. 1. The ftrong footy finell of its Leaves and bluish Flowers, distinguish it from others.

Grows wild all over France, Spain and Italy. Pi.102.

Clipeated Candy Clover. Trifolium Clipeatum argenteum.

39 P. Alpin. Exot. 306. Fig. Park. 1108. Fig. 2. The Leaves Name. of this rare Clover are not fo pointed as in the Figure, Defeription, but rounder and more approaching to our Common white Trefoil, as does its Flowers. The Seed Veffels are ele-

Place, Time.

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Names.

Midsummer, and ripens Seed in Autumn. Knotted Bitter Vetch. Ray Hift. Plant. 915. 1. Ervum Chabr. 148. Ic. 6. Orobus five Ervum multis I. B. 2. 1. 17. p. 321. Fig. Orobus Lugd. 468. Fig. Orobus filiquis articulatis, semine majore C. B 346. 1. Orobus receptus Herbariorum Jonft. 1225. Fig. Orobus vulgaris Herbari. orum Park. 1078. Fig. opt. 1. Its blunt-pointed Vetch-Distinction. like Leaves, yellow Flowers and knotty Pods, diffinguish this from other Pulse. Its common about Geneva and Mompelier, as also in Spain and Italy.

gantly represented in Alpinus, and by which you will prefently know it from all others. This is a Candy Plant.

and thrives well in Chelfey Garden. It Flowers about

41 Nomes.

Saw Verch. Ray Hift. Pl. 939. 16. Pelecinus vulgaris El. Bot. 331: I. R. H. 417. Aftragalus purpureus, annuus peregrinus, filiquis utrinque ferræ fimilibus Moris H. Ox. 107. 6. Tab. 9. Fig. 6. Lunaria radiata Chabrei 156. Ic. 1. Lunaria radiata Robini I. B. 2. l. 17. p. 348. Fig. Securidica dica peregrina Clus. l. vi. p. 238. Fig. opt. Park. 1089. F. 5. Securidica filiquis planis utrinque dentatis C. B. 349. 3. Securidica filiquis planis dentatis Jonst. 1234. Fig. 6. The Leaves grow often alternate with lunulated tips; its Pods Distinction. elegantly ferrated on both fides, diftinguish it from Place. all others. Grows pretty common about Messina in Sicily.

Small Sickle-Vetch. RayH. Pl. 936. pl 7. Securidica minor Names. Lob. Ad. 402.0bf. 523. Fig. 2. Sec. minor. Aftragalus Monfpel. Hedyfarum alterum Dodon. Lob. Ic. 2. 77. 1. Belg. 2. p. 90. Ic. 1. minor lutea Jonft. 1234. Fig. 5. Securidica altera feu minor I. B. 2. 1. 17. p. 347. Fig. Chabr. 155. Ic. 4. lutea minor, corniculis recurvis C. B. 349. 2. Aftragalus Mompelianus Clus. 1. 6. p. 234. Fig. Hedyfarum alterum Dod. 546. Fig. 2. Hedyfarum minus Park. 1088. Fig. 2. Ics crooked Pods very much refemble a Sickle, Diftinttion. or Reaping Hook, by which it is eafily diftinguilh'd. Mr Place. Ray has gathered this about Melfina and Mompelier.

Caffubian Vetch. Ray Hift. Plant. Vol. 3 p. 448.5. 43 Vicia multiflora Caffubica frutescens, Lentis siliquâ Breynij Names. Prodr. 1. p. 45. Lens Ungarica Schuyl Cat. H. Leyd. 45. Description. This has a woody Stalk, with hoary Leaves and a handfome spikey tuff of Purple reddish Flowers, succeeded by short Pods, which hang downwards. We are obliged to that celebrated Botanist Jacobus Breynius for the Place. first Knowledge of this Plant, who discovered it, by the sides of Woods in Cassura, bordering on Prussia.

Mallow Cranes-bill. Ray H. Pl. 1055. I. Geranium 44 Altheæ folio C. B. 318. 3. Geranium Altheoides majus Names. Park. 709. Fig. 6. Geran. Malvaceum I. B. 3. 1. 30. p. 472. N. B. Geran. Malacoides Ger. 798. Fig. 2. Jonft. 943. F. 2. Lob. Ic. 662. I. Obf. 738. Belg. 808. Thefe laft Figures Defcription. very well answer this Plant. Its Root-Leaves are whole and not unlike Violets; the Stalk-Leaves less or more cut, as they approach the top. The Flowers grow umbellicated, and fometimes fix or eight in a Tuft. Place. I i i Found

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Found about Geneva and Mompelier, flowring early in the Spring.

Pyrænean Cranes bill. Geraninm Columbinum perenne Pyrænaicum maximum El. Bot. 231. I. R. H. 268. Geran.

Pyrænaicum maximum El. Bor. 231. 1. R. H. 208. Geran. Col. perr. Pyren. latifolium, magno flore Schol. Botan. 227. This in all Parts is much larger than our Common great Doves foot Cranes-bill. It Flowers and Seeds with us in Gardens from Midfummer till Autumn. Monfieur Tournefourt, the King of France's late Botanick Professor, first discovered this on the Pyrænean Mountains which divide France from Navarre.

Candy Long Cranes-bill. Ray H. Pl. 1056. 4. Geranium Creticum Ger. 798. Fig. 1. Jonft. 943. 1. Park 710. Fig. Geran. Creticum annuum hematodes Lob. Ic. 662. 2. Belg. 809. Fig. Geranium latifol. acu longiffimâ C. B. 319. 7. Geran. Speciofum annuum, longiffimis roftris Creticum I.B. 3. 1. 30. p. 479. Fig. Lobells Figure and those from him, very exactly refemble this Plant, whose Leaves are fomewhat like those of Tordylinm. This grows not only in Candy, but also about Messina, where Mr Ray observed it.

Italian long Cranesbill. Ray H. Pl. 1056. 5. Geranium Apulum odorum. Park. 709. 3. Ger. Apulum Coriandri folio Col. 136. c. 40. Geran. Apul. Coriandri folio, alterum odorum Ejusd. 135. Fig. Geranium maximum angustifolium, acu longistima C. B. Phyt. 629. xx. Geranium Cienta folio acu longifimà C. B. 319. 1. Prodr. 128. That most accurate Botanist Fabius Columna, is the only one who has given us a Figure of this Plant, which he has done to the nicest Perfection, both in the Leaves, Howers, and the natural twifting of its Bills. The lower Leaves are not unlike the jagged Celandine, and those on the Stalks are much more deeper cut. Iε grows about Mompelier in Ditches and Borders of Fields, as also in Italy, where the Curious Columna first obferved it.

Place,

45 N.unes,

Place

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N B

Lieaves.

A668 ..

N. B.,

46 Names

Tall Roman Catch-Fly. Ray H. Pl. Vol. 3. p. 488.65! 48 Lychnis vilcola altifima, flore mulcolo, Ocymastri facie Name. 48 Triumphet. novæ Plantar. Icon. & descript. p. 58. Fig. The Root is as thick as ones Thumb, from whence rife Defcription. divers Stalks 2 or 4 foot high, with opposite Chickweed like Leaves, it branches very much towards the top. each ending in fingle, whitifh, deep cut Flowers, which quickly turn into fmall Pear-fashioned Seed Vessels, close fhut till ripe, and then open with a ferrated Orifice like all the reft. It grows in the Clifts about the Convent of Place. the Brutin Carthusians, call'd St. Bartholomeo di Trisulti. where it was not long fince difcovered by John Baptift Triumfetti, Reader and Super Intendant of the Phylick Garden at Rome. I have observed this elegant Plant in Time. Chelfer Garden, where it Flowers and Seeds from July till Autumn.

Candy Plantain, Ray H. Pl. 881. 12. Holoftenm five Leontopodium Creticum C. B. 190. 4. Prodr. 98. C. 12. Names. 49 defcr. Holesteum Creticum alterum C. B. pin. 190. 5. Holosteum Creticum sive Leontopodium Creticum. Park. 499. Fig. 5. Leontopodium Alpin. Exot. c. 51. p. 114. Fig. Belli Epist. ad Clus. p. 200. Leontopodium legitimum Imperati 672. Fig. Leontopodium Creticum C. B. Phyt. 512. 2. defcr. & Fig. in append. Leontopodium Cretic. Clus. l. v. p. 111. Fig. & L. Cret. aliud. Ejufd. 112. Fig. Plantago Cretica minima tomentosa, caule adunco Tourne. Coral. 5. Parkinfon, that accurate and knowing Botanift. is of the Opinion that all Clusius his Figures are only differ-N. E. ing states of the fame Plant, which I am also inclined to believe, not only of his, but also those of Alpinus, Bauhine, and Imperatus, which are all different both from Clustus and one another, which may arife from a peculiarity it has, especially in dry Seasons, to thrink or fend its Head towards its Root, the Flower Stalks being fhort and extream woolly; for which reafon I look upon Rawelfs Plantain, which the Hift. Lugd. app. 21. Filii2 gures

gures under the Name of Planta rara Plantagini longe fimilis, (which fome would have the fame with this) to be another Plant, it rather refembling the Plantago angustifolia, paniculis Lagopi C. B. Prodr. 98. 4. which I know grows also in those Parts. This long-loss Herb I found in her Grace the Dutchess of Beaufort's Garden at Chelfey, whose Nursing Care scarce any Plant (tho' from the most distant Climates) can wirhstand. I do not remember that any Garden in all Europe has yet boassed of this rare Plant, in the many Catalogues hitherto publish'd.

Rawolphs Sea Lavander. Ray H. Pl. 397. 10. Limonium peregrinum folijs Asplenij C.B. 192.7. Limonium folijs Alplenij C. B. Phyt. 356. 4. Rawolphij Park. parad. 251. Fig. 6. Rawelphij f. peregrinum Clus. Curæ poster. 33. Fig. elegans genus Rawolphij Belg. 314. Fig. H. Lugd. app. 35. Fig. Quibusdam rarum I. B. Vol. 3. p. 862. Fig. Rarum Rawolphij Chabr. 508. Ic. opt. 3. peregrinum Rawolphij Park 1235. Fig. Cichoria globulare Imperati 660. Fig. The Leaves of this Herb are more like those of Somthiftles (but much smaller) than Spleenwort; its Flowers of a glorious blue, and much larger than the common Limoniums, growing coyled like Vipers Buglos. This rare Plant I faw in Flower, with the Dutchels of Beaufort at Chelfey. Ramolph first found this in Syria, who travelled into those Parts about the Year 1573. Since that, Angerius Clutius observed it at Malaga, and William Boel about Cales. I have also had it from both these Parts of Spain. Mr Ray observed it on the Sea Coasts of Sicily and its Neighbouring Shores.

#### EUROPEAN Trees and Shrubs.

5 I

Holm Oak. Ray Hift. Plantar. 1391. 1. Bot. Monspel. 140. Pl. 1. Ilex arbor Lob. Icon. 2. p. 154. 1. Obs. 582. F.g. opt. 3. Ilex arborea Chabr. 57. Icon. 1. I. B. Vol. 1. I.

50 Names:

Character.

Place.

1. 1. 7. p. 95. c. 2. Fig. Ilex major Clus. 23. Fig. opt. 1 & 2. Ilex Tab. Icon. 968. 2. Hift. Vol. 2. p. 675. Fig. 2. Ilex Glandifera Gerar. 1161 Fig. Ilex major Glandifera Dod. 829. Fig. Jonft. 1344. Fig. 1 & 2. Ilex major aculeata & absque aculeis Park. 1895. Fig. 1 & 2. Ilex folio rotundiore molli modiceq; finuato folio. Smilax Theophrafti C. B. 425. 3. This Tree sports mightily in N, Eits Leaves, as I B. Mr Ray, and other Authors, take notice of; they are most prickley whilst young, and as the Trees grow old, they grow plainer. The hoarinefs of Leaves underneath diftinguishes it from the Cork. These Place, grow frequently near the Sea Coafts in Spain, Italy, Narbone, &c. It is ever green.

The Cork Tree. Ray Hift. Pl. 1393. c. 7. Suber. Chabr. 32 57. Ic. 5. Suber latifolia Lob. Icon. 159. id. Belg. 2. p. 190. Names. Fig. Suber latifolium Ger. 1163. Fig. 1. I. B. 1. 1. 7. p. 103. Fig. Tab. Icon. 967. 1. id. Hift. 2. p. 674. Fig. 3. Suber latifolium perpetuo virens C. B. 422. Suber Hifpan. latif. perpetuo virens Clus. 21. Fig. Suberifer latifolia, Ilex glande echinato Adv. 432. Fig. Phallos five Suber Dod. 830. Fig. mediâ. Grows in many Parts of Spain, Place. and all over Portugal; It is ever green, as are almost all of this kind.

Great broad Alatern. Ray H. Pl. 1608. 1. Alaternus 1. Clus. 50. Fig. Hifp. 57. Fig. Ger. 1212. Fig. Tab. Ic. 53 Nanivi. 1042. 2. id. Hift. 2. p. 749. Fig. 1. Alaternus prior Clusi Lugd. 159. Hig. 1. Phylica elatior C. B. 477. 1. Bourgespine Monspeliensium Adv. 421. Fig. 2. Lob. obs. 566. Fig. 1. Spina Burgi Monspelienshum Chabr. 42. Ic. 6 I.B. 1. ]. 5. p. 542. Fig. Lobel in his Observations makes the NE Alaternus 2. Clus. 50. the Bourge Spine Monsp. contrary to the Botan Monspel. p. 203. which fays, it is the I. Clus. as above. The largeness of the Tree, and broadness of its Leaves, diffinguish it from Clusius his 2d fort, Place. This grows wild in Spain, Portugal, and about Montpelier.

Narrow

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Names

Narrow, knagged Alatern. Alaternus folijs angustioribus, hinc inde dentatis. This grows a tail strait free, with upright Branches; pointed, narrow Leaves, here and there dented.

The Mastick Tree. Ray H. Pl. 1579. Bot. Monsp. 153. Lentifeus Clus. 14 Fig. Hisp. 85. Fig. Dod. 875. Fig. Char. 23. Ic. 5. I. B. 1: 1. 3. p. 285. Fig. Ger. 1243. Fig. Jonst. 1432. Fig. Tab. 2. p. 729 leon. 1026. 2. Lentifeus vulgaris C. B. 399. 1. Lentifeus Dioscoridis Lob. Icon. 2 p. 96. 2. Belg. 2. p. 111. Obs. 530. Fig. 1. From this Tree we have that celebrated Gum, or rather Rosin call'd MASTICK, which 'tis faid the ifland of Chio (where Hippscrates was born) is the only place that yields it; aitho it grows plentifully also in Italy, Spain, and Mompelier.

The Oriental Plane-tree. Ray H. Pl. 1706. Platanus C.B. 431. I. Chabr. 62. Ic. opt. 2. I. B. I. 1. 8. p. 170. Fig. Clus. 9. Fig. Dod. 842. Fig. Matth. 127. Fig. 2. Ger. 1304. Fig. Lob. lcon. 2. p. 198. 2. Belg. 2. p. 232. Fig. Adv. 442. F. Tab. 2. p. 981. Icon. 972. 2. Platanus Orientalis verus Park. 1427. Fig. 1. This in its Native Soil grows to be a very large and fhady Tree. Bellonius has obferved 'em on Mount Athos fo thick about as to cut the Trunks into large Boats with little charge or trouble. Its Burry Fruit and large Maple like Leaves, diftinguish it from other Trees. In Chelfey Garden it bears Fruit yearly, which hang on the Trees most part of the Winter, long after the Leaves are fallen.

Common Spirea or Theophrastus's Willow. Ray H. Pl. 1699. c. 13. Spirea C.B. 475. Spirea Theophrasti forte Clussi 84. Fig. Chabr. 44. Ic. 6. I. B. 1. I. 5. p. 559. Fig. Park. 1437. Fig. Spirea Salieir folio El. Bot. I. R. H. 618. Frutex spicatus, folijs Salignis serratis C. B. 475. This ornamental Shrub is common in most Gardens and easily known by its Willow or rather Almond like serrated Leaves, with Spikes of thick set, small, fresh coloured 5 leaved Flowers; each Spike about a Finger thick and long; these towa os Autumn turn into dry starry Seed Vessels full of yellowish Dust. It Flowers in July and Angust.

III. Au

Sam.



37 Nan.es.

Time.