

Cambridge University Press

978-1-108-06246-6 - The Tourist's Flora: A Descriptive Catalogue of the Flowering Plants and Ferns of the British Islands, France, Germany, Switzerland, Italy, and the Italian Islands

Joseph Woods

Excerpt

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DICOTYLEDONES.

THALAMIFLORÆ.

I. RANUNCULACEÆ.

STAMENS more than 10 (except occasionally in *Myosurus* and *Ceratocephalus*). Anthers adnate. Germens more than one (except in *Delphinium peregrinum*, and sometimes in *D. Ajacis*). Leaves sheathing at base. In *Nigella* the seed-vessels are more or less united.

The Ranunculaceæ are divided into the following Tribes:—

1. CLEMATIDÆ.—Seeds solitary. Estivation valvular. Gen. 1, 2.
2. ANEMONEÆ.—Seeds solitary. Estivation imbricate. Petals 5, without a nectariferous pore at the base Gen. 3-5.
3. RANUNCULÆ.—Seeds solitary. Estivation imbricate. Petals with a nectariferous pore or scale at the base Gen. 6-8.
4. HELLEBOREÆ.—Seeds several in each carpel. Anthers extrorse Gen. 9-18.
5. PÆONIEÆ.—Seeds several. Anthers introrse Gen. 19-21.

Tribe I. CLEMATIDÆ.

1. CLEMATIS.

A. *Invol.* 0. *Carpels with feathery tails.*

1. **integrifolia.** Stem erect. L. ovate or ovato-lanceolate, quite entire. Stalks 1-flowered. Fl. nodding. **p.** 6, 7. *Moist meadows.* Austr. Carn. Pyr.

2. **recta.** Stem erect. L. pinnate. Lts. stalked, ovato-lanceolate, quite entire. **p.** 5, 6. *Dry hills.* mdt. Fr. It. s. e. G.

3. **Flammula.** Stem climbing. L. bipinnate. Lts. entire and three-lobed. **S.** 7, 9. *Dry hills.* Coasts of Mdt.

4. **Vitalba.** Stem climbing, angular. L. pinnate. Lts. ovato-lanceolate, inciso-dentate, acuminate, truncato-cordate at base. Pan. not exceeding L. **S.** 7. *Hedges and thickets.*

B. *Involucre* 0. *Tails of Carpels not bearded.*

5. **Viticella.** Stems climbing. L. compressed. Lts. ovate, margin entire. Stalks solitary, 1-flowered. **S.** 5-8. *Thickets.* Trieste and n. e. It.

C. *Involucre of one L. Carpels with bearded tails.*

6. **cirrrosa.** Stalks 1-flowered, nodding. L. somewhat cordate, dentate, simple, or ternate. **S.** 9-11. Sic. Cors. Calab. Bari.

7. **balearica.** Stalks 1-flowered. L. ternate. Lts. stalked, three-lobed, inciso-dentate. **S.** 10. *Thickets.* Bari.

2. ATRAGENE.

1. **alpina.** Lts. serrate. Pet. spatulate. **w.** 7-8. *Rocky woods.* Alps.

Tribe II. ANEMONEÆ.

3. THALICTRUM.

A. *Carpels three-edged, winged, not striate, stalked.*

1. **aquilegifolium.** Pan. corymbose. Fr. smooth. Stipels at the ramifications of the L.-stalk. **p.** 5-7. *Mountain woods.*

B. *Carpels furrowed and stalked.*

2. **alpinum.** Stem quite simple. Rac.

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3. THALICTRUM.

simple, terminal. Fruit-stalks reflexed. Carpels with a hooked point. **p. 6.** *Mountain pastures.* Br. Pyr. e. Alps.

3. **calabricum.** Stem nearly simple, leafy at base, nearly naked above. Fr. erect. Carpels with a straight, subulate point. **p. 5, 6.** *Woody hills.* Sic.

C. *Carpels furrowed, sessile.*

i. **Pan. broad.** *Fl. scattered. L. ternately pinnate.*

4. **foetidum.** Viscido-pubescent. Stalks of Lts. nearly terete, the ultimate almost capillary. "Stigmate cum lateribus suis retrorsum accumbentibus."—KOCH. Stam. drooping. **p. 6, 7.** *Rocks.* Mt. Ventous. Pennine Alps. Boh.

β. acutilobum, DC.

γ. alpestre, GAU. without hair.

5. **sylvaticum.** Stem straight or slightly serpentine, somewhat pruinose. Stalks of Lts. compresso-terete. Stam. pendulous. **p. 6, 7.** *Woods.* B. de Boul. Palatinate. Sil.

6. **minus.** Stem zigzag. Stalks of Lts. with prominent lines. Stipels 0. Branches of Pan. nearly horizontal. Stam. pendulous. **p. 5, 6.** *Hills and dry pastures.*

β. pubescens, SCHL. L. with glandular hairs.

γ. Jacquinianum, KOCH. Primary divisions of L. stipelled.

7. **majus.** Stem nearly straight. Partial stalks of Lts. with prominent lines, the lower very widely spreading. Stipels 0. Branches of Pan. erecto-patent. Stam. pendulous. **p. 5-7.** *Meadows and margins, scattered.*

8. **elatum.** Stem and branches deeply furrowed, pruinose. L. dull. Stipels 0. Pan. diffuse with straight branches. Fl. in whorls or in imperfect umbels. Flower-stalks and Stam. porrect. R. fibrous. **p. 6, 7.** *Dry hills.* Fiume.

9. **lucidum.** Stem straight. L. green, stipelled; the Auricles adpressed. Branches of Pan. nearly erect. Stam. porrect. *Between T. minus and T. flavum. The Fl. and Carpels are much smaller than in the former, and the scattered Fl. and somewhat triangular outline of the L. distinguish it from the latter.* **p. 6, 7.** France, rare.

ii. **Pan. broad.** *Fl. scattered. L. pinnately decomposed.*

10. **simplex.** Stem furrowed. Lts. dull, oblongo-cuneate. Auricles of upper L. ovato-oblong, acuminate. Branches of Pan. race-

mose. Fl. nodding. R. creeping. **p. 6, 7.** *Grassy hills.* Harz. Vallais. Dau. n. It. Occ.

11. **galioides.** Resembles 10. Lts. linear, shining. **p. 7.** *Meadows and heaths.* Strasb. e. Alps. Rare.

iii. **Pan. contracted.** *Fl. crowded. L. ternately pinnate. Lts. somewhat cordate, obtusely trifid, glaucous beneath.*

12. **angustifolium.** Stem furrowed. Auricles of upper L. ovate, acuminate. Stam. erect. R. fibrous. **p. 6, 7.** *Moist meadows.* Fr. G. *The Sheaths and Stalks of the lower L. are almost always pubescent.*

β. nigricans, DC. Lts. entire, except the terminal one.

13. **flavum.** Stem furrowed. Auricles oblong or acuminate, broader than the middle of the sheath. Lower ramifications of petiole stipelled. Fl. and Stam. porrect. R. creeping. **p. 6, 7.** *Moist meadows and banks.*

β. nigricans, JACQ.

14. **rufinerve.** "Stem furrowed, shining. Lts. quite smooth, glaucous beneath. Auricles of the upper L. ovato-acuminate. Stipels 0. Pan. fastigiate. Branches erect. Fl. crowded on the tops of the branches. Fl. and Stam. porrect. R. creeping. **p. 6, 7.** At Blisten, near Spa. *All L. with a broad triangular outline.*"—KOCH.

15. **exaltatum.** Stem furrowed, shining. L. and sheaths sprinkled with sessile glands. Auricles of L. rounded, narrower than the diameter of the sheath. Fl. crowded at the tops of the branches. Stam. porrect. **p. 7, 8.** *Sandy shores of the Adda.*

D. *R. grumose!* *Sep. exceeding Stam.*

16. **tuberosum.** Fl. solitary, or in a loose Corymb. Bracts sessile. **p. 6.** *Barren hill pastures.* Carcassone, &c. Pyr.

4. ANEMONE.

A. *Carpels with bearded tails. Pet. 6.*

i. *Bracts palmate, sessile.*

1. **vernalis.** L. pinnate, nearly hairless. Lts. cuneato-lanceolate, trifid. Fl. erect. Invol. very villous. Pet. straight, elliptic-oblong. **p. 6-8.** *High pastures.* Alps. Pyr. Sil. Prussia.

2. **Halleri.** L. pinnate, villous. Lts. pinnatifid; divisions linear-lanceolate. Flower erect. Pet. ovato-lanceolate. **p. 7, 8.** *Very high pastures.* Alps.

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RANUNCULACEÆ.

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3. **patens**. L. ternate, divisions somewhat tripartite. Segments oblong, incise at top. **p.** 4. *Open hills and heaths*. e. Ger.

4. **Pulsatilla**. L. bipinnate, triply pinnatifid. Lts. multipartite. Segments linear, acute. Fl. nodding. Pet. spreading. **p.** 4, 5. *Open hills*.

B. lilacina, Sw. Fl. erect, somewhat before the L.

ii. Bracts ternate, stalked.

5. **alpina**. L. ternately decomposed. Lts. stalked, pinnately inciso-serrate. Bracts like the L. Tail many times longer than carpel. Fl. white. **p.** 6-8. *Mountain meadows*. m. Europe.

B. millefoliata, BERT. Lts. very numerous, small, ovate, pinnatifido-incise.

γ. sulphurea. L. very villous. Lts. lanceolate, acuminate. Fl. yellow.

B. Carpels without tails.

i. Bracts sessile, divided.

6. **coronaria**. L. ternate. Lts. multifid. Segments linear, mucronate. Pet. 6, oval, approximate. **p.** 3. *Meadows and cultures*. Fr. It.

7. **pavonina**. L. tripartite. Segments cuneate, inciso-dentate. Pet. 10-12, sometimes numerous, lanceolate, very acute. **p.** 3. Prov. Nice. Tuscany.

β. fulgens. Pet. obversely lanceolate. *Vyds. Gasc. About Nice*, A. pavonina is abundant, but always with many Petals and no Stamens. *Fulgens* is scurcer, with 6 large obtuse Pet. In gardens I have seen both Fl. from one root.

8. **hortensis**. L. tripartite. Segments cuneate, inciso-dentate. Pet. 10-12, oblong, obtuse. **p.** 3, 4. *Thickets and pastures*. s. Eur.

9. **palmata**. L. cordato-orbicular, obtusely lobed, toothed. Bracts trifid. Pet. 10-12. **p.** 2. *Open pastures*. Hyères. Sard. Sic.

ii. Bracts stalked.

10. **narcissiflora**. L. palmato-partite, villous. Div. inciso-dentate. Segments linear, acute. Bracts trifid at the top. Fl. in umbels. **p.** 5-7. *Calc. mns.* m. Eur.

11. **baldensis**. R. fusiform. L. three times ternate. Lts. stalked, multipartite. Segments linear. Bracts multifid. Pet. 8-10. *pink.* **p.** 6, 7. *Rocky*. Penn. Alps. Mte. Baldo. Tyrol.

12. **sylvestris**. Root fibrous. L. 3-5-nate. Lts. inciso-dentate at top. Pet. 6, white. Fl. solitary. Fruit very hirsute, with a small, very short style. **p.** Spring and Autumn. *Shade*. Alps. Piedm. G.

13. **trifolia**. L. ternate. Lts. ovato-lanceolate, acute, dentate, sessile. Pet. 5, elliptic, obtuse. **p.** 4-6. *Shady hills*. s. Fr. n. It.

14. **nemorosa**. R. horizontal. L. 3-5-nate. Lts. trifid, inciso-dentate, lanceolate, acute, somewhat stalked. Pet. 6, elliptic, white or purplish, very rarely bluish. **p.** 4, 5. *Shade*.

15. **apennina**. L. twice ternate. Lts. stalked, lanceolate, inciso-dentate, acute. Bracts ternate, inciso-dentate. Pet. 12-14, oblongo-linear, blue. **p.** 4. *Woods*.

16. **ranunculoides**. L. 3-5-nate. Lts. somewhat trifid, inciso-dentate. Bracts hardly stalked, tripartite 6, inciso-dentate. Scape usually 2-flowered. Pet. 5, 6, elliptic, yellow, downy beneath. **p.** 5, 6. *Shady hills*. m. Europe.

iii. Bracts sessile, undivided, almost close to Fl.!

17. **Hepatica**. L. cordate, three-lobed. Lobes very entire, ovate, acute. Stalks somewhat hairy. **p.** 2-4. *Shade*. m. and s. Europe.

5. ADONIS.

A. annual.

1. **autumnalis**. Cal. hairless. Pet. 6-8, concave! connivent, hardly exceeding Cal., scarlet. Carpels in an oblong head; point terminal, acute. **a.** 6-8. *Corn.* s. e. Eng. Fr. It. Istria.

2. **flava**. Cal. hairless, loose at the base. Pet. flat, oblong, twice as long as Cal., orange or yellow. Carpels in an oblong head. **a.** 6, 7. *Cult.* s. Fr. n. It. Sw.

3. **micrantha**. Cal. hairless, firm at base. Pet. flat, oblong, equalling Cal. Carpels few, in a short, ovate head, crowned with straight conical styles. Fl. small, orange or yellow. *Corn.* s. F.

4. **æstivalis**. Cal. hispid at base. Pet. oblong, obtuse, twice as long as Cal. Carpels in an oblong head, reticulato-tubercled. Style terminal. **a.** 6, 7. *Corn.* m. Eur.

5. **flammea**. Cal. hispid at base. Pet. flat, oblong, acute, exceeding Cal. Carpels in a cylindrical head, not toothed. Styles lateral. Fl. large, orange. **a.** 6-9. *Corn.* Germ. Fr.

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5. ADONIS.

6. **dentata**. Cal. hispid at base. Pet. flat, oblong, hardly exceeding Cal., *flame-coloured*. Carpels tuberculoso-dentate. **a.** 6-7. *Corn. Provence.*

B. *Perennial. Carpel with a hooked point.*

7. **vernalis**. Lower L. reduced to sheathing scales; upper sessile, multifid. Segments quite entire. Carpels velvety. Pet. 10-12, somewhat eroso-dentate at the top. **p.** 4, 5. *Dry hills. Fr. G. Sw. It.*

8. **pyrenaica**. Root L. ternate, on long stalks. Lts. multipartite. Uppermost L. sessile, multifid. Segments linear, quite entire. Carpels smooth, in an ovate head. Pet. 8-10, toothless. **p.** 7. *Val. d'Eynes in e. Pyr.*

9. **distorta**. "Stem flexuose. Root L. tufted, their stalks longly dilated at the base. Pet. obversely lanceolate, spatulate. Carpels wrinkled, in a spherical head. **p.** 7, 8. *High mns. Central Apenn.*"—BERTOL. *The much longer dilated part of the L.-stalk seems the chief distinction from 8.*

Tribe III. *RANUNCULÆÆ.*

6. MYOSURUS.

1. **minimus**. Scape as long as L.; a Spur at base of each Sepal. **a.** 5. *Cult. occ.*

7. CERATOCEPHALUS.

1. **falcatus**. "Carpels channeled between the protuberances."—KOCH. Horns of the Pericarp falcate. **a.** 4, 5. *Corn. Coasts of Mdt. Vienna. Ulm.*

2. **orthoceras**. "Carpels crested between the protuberances."—KOCH. Horns straight. **a.** 3, 4. *Prag.*

8. RANUNCULUS.

A. Nect. a naked pore. Carpels transversely wrinkled. Pet. white, claw usually yellow.

i. Rec. hairless. Sp. 1, 2.

ii. Rec. hairy. Sp. 3-7.

B. Nect. membranous. Carpels not wrinkled, the narrow keel prolonged into a Beak. Fl. white.

i. L. divided, not nerved. Sp. 8-15.

ii. L. nearly or quite entire, nerved. Sp. 16-22.

C. Nect. a fleshy scale. Carpels bordered. Fl. yellow.

i. L. undivided. R. fibrous. Sp. 23-28.

ii. L. entire, or slightly lobed. R. grumose. Sp. 29-32.

iii. L. divided. R. grumose. Stem scape-like. Sp. 33-42.

iv. L. compound, or deeply divided. R. fibrous. Stem leafy.

a. Carpels without spines, tubercles, or wrinkles.

* Fruit-stalks not furrowed. Sp. 43-50.

** Fruit-stalks furrowed. Sp. 51-56.

b. Carpels wrinkled, on an oblong head. Sp. 57.

c. Carpels tubercled. Sp. 58-61.

d. Carpels spinous. Sp. 62-65.

A. *Nect. a naked pore. Carpels transversely wrinkled, not margined. Pet. white, claw mostly yellow.*

i. *Rec. hairless. L. all reniform, 3-5-lobed.*

1. **Lenormandi**. Carpels acuminate. Pet. twice Cal. *The Stipules are said to be large, and more detached from leaf-stalk than in 2.* **p.** 5, 6. *Running water, occ.*

2. **hederaceus**. Carpels obtuse. Pet. hardly exceeding Cal. **p.** 5-8. *Running water.*

ii. *Rec. hairy. Lower L. divided into capillary segments.*

3. **tripartitus**. Carpels obtuse. Pet. hardly exceeding Cal. Segments of lower L. spreading in all directions. Stip. of upper L. nearly free. **p.** 5-7. *Peaty pools. n. Fr.*

4. **aquatilis**. Carpels apiculate. Segments of lower L. spreading in all directions. Stip. of upper, 3-5-lobed L. united to stalk for 2-3rds of their length. **p.** 5-7. *Still water. Carpels about 40.*

β. *cæspitosus.* Carpels 25-30.

γ. *Baudotii.* Carpels about 100.

δ. *Petiveri.* Stip. attached for 1-3rd of their length. Claws yellow.

ε. *hololeucos.* Claws white.

ζ. *pauvistamineus.* Sta. about 12.

5. **fruitans**. Carpels apiculate. Segments of L. elongated, parallel. L. on long stalks. Pet. 5-12. **p.** 6, 7. *Running water.*

6. **circinnatus**. Segments of lower L. on a plane; outline circular. L. nearly or quite sessile. **p.** 6-8. *Pools and ditches.*

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7. **Bachii**. Carpels apiculate, in oblong heads! Segments of lower L. nearly parallel. **p.** Sayn.—WIRTGEN.

B. *Nect. membranous. Carpels not wrinkled, the narrow keel prolonged into a Beak.*

i. L. divided, not nerved. Fl. white.

8. **rutifolius**. Cal. smooth. Pet. 8–10, with a darker claw. Root L. bipinnate. Lts. tripartite. Stem 1–3-flowered. **p.** 7, 8. *Snowy.* e. Alps.

9. **anemonoides**. Cal. smooth. Pet. linear, oblong. Root L. biternate. Lts. tripartito-multifid; divisions linear. Stem with 1 or 2 L. **p.** 3, 4. *Pine-woods.* Upper Sty. and lower Austria.

10. **Seguieri**. Cal. smooth. Pet. rounded, obovate. Root L. palmato-multifid; outline cordato-subrotund; divisions acuminate. Stem 1–3-flowered. Beak of Fr. slender, hooked. **p.** 7, 8. *Very high Alps. Rare.*

11. **aconitifolius**. Cal. smooth. L. palmato-partite, divisions trifid, acuminate, incisoserrate. Stem many-flowered. Beak of Fr. slender, hooked. **p.** 5–8. *Woody mns.*

a. Root L. 3–5-part. Bracts lanceolate, serrate. Stem slender, hairless.

β. *heterophyllus*, LAP. Root L. tripartite. Bracts lanceolate, serrate. Stem stout, villous.

γ. *platanifolius*. Root L. 5–7-partite. Segments acuminate. Bracts linear, entire.

δ. *dealbatus*, LAP. L. hoary beneath.

12. **Traunfellneri**. Cal. smooth. Stalk furrowed. Root L. tripartite; outline reniform; middle division trifid; lateral deeply cloven. Stem with 1 Fl. and usually 1 linear undivided Leaf. **p.** 6. *Stony.* e. Alps.

13. **alpestris**. Cal. smooth. Stalk furrowed. Root L. cordato-subrotund, 3–5-cleft. Divisions obovate, inciso-crenate at top. Stem with 1 Fl. and one 3-cleft, or linear undivided L. **p.** 7, 8. *High.* Alps. Jura. Pyr.

14. **crenatus**. Cal. smooth. Stalk furrowed. Root L. subrotund or reniform, undivided, or three-lobed at top; upper crenatures larger. Stem with about 1 Fl., and 1 linear, undivided L. **p.** 8. *High moist granite rocks.* Styria.

15. **glacialis**. Cal. covered with dark hairs. Root L. ternate, tripartito-multifid. Stem 1–5-flowered. Beak of Fr. straight. **p.** 7, 8. *Snowy.* Alps.

ii. *Outer L. nearly or quite entire, nerved. Fl. white, except in gramineus.*

16. **lacerus**. L. cuneate, lacinate at top. Stem smooth, branched, many-flowered. Cal. adpressed. Pet. white. **p.** 6, 7. *Rich pastures.* Alps of Dau. Vallais. *Perhaps a hybrid.*

17. **magellensis**. Root L. reniformi-semicircular, obtusely toothed, the upper teeth larger. Scape 1-flowered. Beak of Carpels subulate, recurved. **p.** 7. Abr.

18. **parnassifolius**. Root L. cordate, quite entire. Stem L. few, sessile; upper lanceolate. Style recurved. **p.** 6, 7. *Snowy.* Alps. Pyr.

19. **amplexicaulis**. L. ovato-lanceolate, acuminate, amplexicaul. Flower-stalks hairless. **p.** 6, 7. *High wet rocks.* Alps. Pyr.

20. **pyrenæus**. L. lanceolate, not amplexicaul. Flower-stalks cottony at top. Styles slender, hooked. **p.** 6, 7. *Very high moist.* Alps. Pyr.

β. *bupleurifolius*, LAP. L. lanceolate. Stem 1-flowered.

γ. *plantagineus*, ALLIONI. L. elliptico-lanceolate. Stem many-flowered.

21. **angustifolius**. L. lineari-lanceolate, not amplexicaul. Flower-stalks hairless. Styles straight, conical. **p.** 6, 7. *Very high.* Mt. Louis in Pyr.

22. **gramineus**. L. lineari-lanceolate, quite entire. Stem and flower-stalks hairless. Beak very short, recurved. **p.** 5, 6. *Warm sands.* m. and s. Fr. Vall. n. It. Sard.

C. *Nect. a fleshy scale. Carpels bordered. Fl. yellow.*

i. L. undivided, R. fibrous.

23. **lateriflorus**. Fl. sessile, axillary, or opposite L. Carpels grained, with a long beak. **a.** 3–5. *Marshes.* Cal. Sic.

24. **nodiflorus**. Flower sessile, opposite L. Carpels grained. Beak very short. **a.** 5, 6. *Wet.* Fontainebleau. Anjou.

25. **ophioglossifolius**. Fl. stalked, in a terminal Pan. Carpels somewhat tubercled, with a short point. Lower L. cordate. Stem hollow. **a.** 5, 6. *Wet.* w. and s. F. It.

26. **Flammula**. Fl. stalked, in a terminal Pan. Carpels smooth, with a short point. Lower L. ovate or lanceolate. **p.** 6–9. *Wet.*

β. *reptans*. L. narrow, lanceolate, quite entire. Stem creeping.

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8. RANUNCULUS.

27. **Lingua**. Flower stalked, in a terminal Pan. Carpels smooth, with broad ensiform Beak. L. lanceolate, all nearly sessile, subserrate. p. 7. *Wet. Occ.*

28. **fontanus**. Flower-stalks solitary, opposite L. Carpels smooth. Beak very short. Stem hollow, creeping. Root L. cordate, all obtusely crenate. p. 6, 7. *Aspramonte in Cal. Nebrodes.*

ii. *L. entire, or slightly lobed. R. grumose.*

29. **bullatus**. L. all radical, obovate, dentate, somewhat nerved. Scape 1-flowered. p. 9, 10. *Dry hills. Sic. Cors. Jap.*

30. **Ficaria**. Lower L. subrotundo-cordate, repand; upper angular. Sep. usually 3. Pet. numerous. p. 4, 5. *Moist meadows and woods.*

31. **Thora**. No root L. Lower L. subrotundo-reniform, nearly sessile, crenate, upper incise. Stem 1-3-flowered. p. 5, 6. *High pastures. Jura. Pyr. Alps. Sil. Apen.*

32. **hybridus**. Root L. solitary on long stalks, inciso-lobate at top. Floral L. lanceolate. Stem 1-3-flowered. p. 5, 6. *High calc. stony. e. Alps. Abr.*

iii. *L. divided. R. grumose. Stem scapelike, nearly naked.*

33. **flabellatus**. Primary L. slightly lobed, broader upwards, others tripartite. Segments trifido-incise. Carpels beaked, in oblong heads. p. 4, 5. *Hill pastures. Capri. Sic.*

34. **spicatus**. All root L. peltato-cordate, with 3-5 approximate lobes. Floral L. 3-cleft. Segments linear, entire. Carpels in a cylindrical head. Beak recurved. p. 4, 5. *Sic.*

35. **monspeliacus**. Outer root L. cordate, 3-5-lobed; inner ternate. Stem erect, few-flowered. Cal. reflexed. Carpels in an oblong head. Beak compressed, straight. p. 5, 6. *Rocky, open. md. F.*

36. **illyricus**. Outer root L. cuneate, entire or three-cleft at top; inner ternate. Cal. reflexed. Carpel in an oblong head. Beak ensiform. p. 5, 6. *Rocky hills. s. e. G. It.*

37. **chaerophyllus**. Outer L. ternate. Segments once or twice tripartite. Neck of R. covered with fibres. Stem 1-5-flowered. Carpels somewhat rough, in an oblong head. Beak curved at top. p. 5, 6. *Dry. s. and w.*

F. It. *Bertoloni says the primary L. are semicircular.*

38. **garganicus**. Root L. ternate and biternate. Neck of R. naked. Carpels smooth or finely grained, in an oblong head. Beak ensiform, curved at top. p. 5, 6. *Mte. Gargano.*

39. **millefoliatus**. L. bipinnate. Segments pinnatifid, outer less divided. Neck of R. naked. Cal. spreading. Carpels finely dotted, in an oblong head. Beak very short, revolute. p. 4, 5. *Dry pastures. It.*

40. **Agerii**. Primary L. reniform, three-lobed; next trifid, both coarsely crenate; latter L. ternate. Segments pinnatifid. Cal. at last reflexed. Carpels somewhat grained, in an ovate head. Beak straight. p. 4, 5. *Bologna.*

41. **palustris**. Root L. broadly cordate, tripartite. Segments distant, 2 and 3-cleft, acutely inciso-serrate. Cal. spreading. Carpels smooth, in a globular head. Beak short, hooked. p. 5, 6. *Cors.*

42. **Balbisii**. Root L. thick, broadly cordate, three-lobed, with coarse, blunt, unequal teeth. Cal. reflexed. Carpels smooth, in a globular head. Beak very short, recurved. p. 5-7. *Hills. Mt. Gennargentu.*

iv. *L. compound, or deeply divided. R. fibrous. Stem leafy.*

a. *Carpels without spines, tubercles, or wrinkles.*

* *Fr.-stalks not furrowed.*

43. **auricomus**. Carpels velvety. Beak curved almost from the base. Sheaths from R. all, or nearly all, leaf-bearing. Root L. stalked, reniform, deeply three-cleft. p. 4, 5. *Shade.*

44. **cassubicus**. Carpels velvety. Sheaths from R. all, or nearly all, leafless. Root L. stalked, reniform, crenate. p. 3, 4. *Moist shade. Sil.*

45. **montanus**. Carpels smooth, (as in all the following species of this section.) Rec. hairy. Root L. palmate; segments obovate, trifid. Lower stem L. 5-part. Divisions oblongo-linear, palmato-divergent. p. 4. *High. Alps. Pyr.*

46. **Villarsii**. Rec. hairy. Root L. palmate. Segments obovate, trifid, acutely dentate. Stem L. digitato-partite. Divisions linear, not divergent. p. 6. *Mountain pastures. w. and s. Alps. Carn.*

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47. **acris**. Rec. hairless. Beak of Fr. very short, somewhat curved. Lower L. palmato-partite. Segments somewhat rhomboid, acutely inciso-dentate; upper tripartite. Segments linear. Hairs of stem adpressed. **p.** 6, 7. *Meadows*.

β. tuberosus. Fil. hairy.

48. **velutinus**. Rec. hairless. Beak of Fr. very short, or wanting. Lower L. tripartite. Segments cuneiform, inciso-dentate. Hairs of stem spreading. **p.** 4-6. *Meadows*. It.

49. **lanuginosus**. Rec. hairless. Beak of Fr. about half as long as carpel, hooked. Carpels not nerved. Root L. trifid. Segments broad, inciso-dentate. Hairs of stem reflexed. **p.** 5-7. *Woody hills*. m. and s. Eu.

50. **bruttius**. Rec. hairless. Beak of Fr. about half as long as carpel, revolute. Carpels nerved. L. ternate. Lts. on nearly equal stalks, 2 and 3-partite. Segments lanceolate, acuminate, incise, irregularly serrate. Cal. spreading. **p.** 6. Cal.

** *Fr.-stalk furrowed. Rec. hairy.*

51. **polyanthemus**. Beak merely hooked. Cal. spreading. Root L. 3-5-partite, inciso-multifid. Segments nearly linear. No runners. Hairs of stem spreading. **p.** 5-7. *Shady meadows and woods*. G. rare. n. F.

52. **nemorosus**. Beak curled round at the top. Cal. spreading. Root L. 3-5-partite. Segments obovate, trifid, dentate. Hairs of stem spreading. No runners. **p.** 5, 6. *Shady hills*. Fr. Sic. G. *I apprehend, from the description, that this is the R. Thomasii of Bert.*

53. **repens**. Carpels finely dotted. Cal. spreading. L. ternate, three-lobed, trifid, incise. Plant with Runners. **p.** 5-7. *Moist meadows, woods, &c.*

54. **bulbosus**. Cal. reflexed. Stem bulbous at base. Root L. ternate, tripartite, trifid, or incise. **p.** 5-7. *Meadows. The root, according to Bert., is sometimes tuberosus.*

55. **neapolitanus**. Cal. reflexed. Stem somewhat bulbous at base. R. tuberosus. Root L. trifid, acutely inciso-dentate. **p.** 4, 5. Apulia. Ischia. *Var. of R. bulbosus, according to Cosson.*

56. **heucherifolius**. Cal. reflexed. Stem bulbous at base. R. tuberosus. Root L. rounded, cordate, inciso-lobate, acutely dentate. Carpels sometimes grained, and with short

hairs. **p.** *Woods and moist pastures*. Pal. *The root L. appears to be peltato-cordate. Quære, if not rather belonging to Division C. iii. ?*

b. Carpels in an oblong head, wrinkled.

57. **sceleratus**. Lower L. stalked, tripartite; segments obtusely crenate; upper trifid, inciso-dentate. Cal. reflexed. **a.** 6-9. *Wet.*

c. Carpels tubercled.

58. **angulatus**. Style ensiform, about a line long. Root L. reniform, lobed, crenate; upper tripartite, inciso-serrate. Fruit-stalks furrowed. Cal. reflexed. **p.** 4, 5. *Nebrodes.*

59. **hirsutus**. Beak very short. L. ternate, lobed, incise. Middle Lt. stalked. Cal. reflexed. Fruit-stalk furrowed. **a.** 7-9. *Meadows, fields, and waste.*

β. parvulus. Very small.

60. **cordigerus**. Beak very short. Root L. cordate, undivided, or three-lobed. Stem L. incise or simple. Stem nearly naked, 1-2-flowered. Mte. Coscione in Cors.

61. **trilobus**. Beak very short. Root L. subrotund, others tripartite. Segments divergent, cuneate, toothed at top. Stem erect. Fl. solitary, terminal, or opposite L. **a.** 4. *Moist fields*. Perp. Toul. s. It. and Islands. *Rare.*

d. Carpels spinous.

62. **arvensis**. Stem erect. Fl. in Pan. Root L. tripartite. Stem L. multifid. Segments linear. *Spines of Carpels long and strong.* **a.** 6, 7. *Fields.*

β. tuberculatus. Spines short and blunt.

γ. inermis. "Spines entirely wanting."—**Bonn.**

63. **subapetalus**. Stem erect. Fl. solitary, opposite L. Lower L. subrotund, lobed, upper 3-5-cleft. Pet. 2 or 3, small or wanting. Beak of Fr. somewhat hooked. *Hedges*, near junction of Arve and Rhone.

64. **parviflorus**. Stem procumbent. L. circular, 3-lobed, incise. Flower-stalks opposite L. Cal. at last reflexed. Tubercles of Carpels numerous, each ending in a fine prickle. **a.** 5, 6. *Dry banks*. s. and w. Eu.

65. **muricatus**. Stem procumbent. L. nearly circular, 3-lobed, coarsely toothed. Flower-stalks opposite L. Prickles of Carpels strong. Beak straight. **a.** 4, 5. *Cult. and waste*. s. Eu.

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Tribe IV. *HELLEBOREÆ*.9. *CALTHA*.

1. **palustris**. Pet. deciduous. Stem erect. L. cordate, rounded, crenate. **p.** 3, 4. *Marshes*.

2. **radicans**. Pet. deciduous. Stem creeping. L. cordato-triangular, serrato-crenate. **p.** 5, 6. *Sides of lakes and rivulets*. Sc.

10. *TROLLIUS*.

1. **europæus**. Pet. 15, converging in a globe. Nect. 5-10, like smaller Pet. **p.** 5, 6. *Cool hills*. n. and m. Eu.

11. *ERANTHIS*.

1. **hyemalis**. Pet. 6-8, oblong. **p.** 2. *Base of mountains*. Fr. Ger. Sw. It. *occ.*

12. *HELLEBORUS*.

1. **niger**. Scape leafless, 1-2-flowered, with 2-3 oval bracts. Root L. pedate, *quite smooth*. **p.** 12-4. *Subalpine woods*. m. Eur.

2. **purpurascens**. Stem few-flowered, bearing entire or cloven, sessile floral L. Root L. digitate. Lts. cuneate at base, 3-5-lobed at top. Pet. subtund. **p.** 2, 3. *Woods*. Apen. of Tusc.

β. Bocconi. Stem exceeding L.

3. **viridis**. Stem few-flowered, leafless, except at the branches. Root L. digitate. Stem L. nearly sessile, palmate. Pet. ovato-subrotund. **p.** 3, 4. *Woods and thickets, occ.*

4. **odorus**. Stem few-flowered, naked, except at the branches. L. palmate, with prominent veins. Stigma horizontally recurved. **p.** 3, 4. *Mountain woods*. Salz. Carn.

5. **dumetorum**. Stem few-flowered, naked, except at the branchings. L. palmate. (Pedate, KOCH, in 3, 4, 5.) Secondary veins immersed. **p.** 3, 4. *Thickets*. Trieste. Sty.

6. **foetidus**. Stem many-flowered, leafy. Lower L. pedate, smooth; upper trifid, on a dilated stalk. Bracts oval. **p.** 3, 4. *Calc. thickets*. n. Eur.

7. **lividus**. Stem many-flowered, leafy. L. ternate, smooth, glaucous beneath. Lts. ovato-lanceolate. **p.** 1-3. Cors. Sard.

13. *ISOPYRUM*.

1. **thalictroides**. Caps. 1-3. Sep. 5.

9. *CALTHA*.

Pet. obtuse, lower stalks dilated at the base into membranous auricles. **p.** 4, 5. *Shade*. Pyr. Dauph. Sav. Austr. Boh. n. It.

14. *GARIDELLA*.

1. **Nigellastrum**. Nectaries sessile, spreading. Sta. 10-12. **p.** *Vines and olives*. Prov.

15. *NIGELLA*.

1. **arvensis**. Anthers apiculate. Styles 5-7, spirally rolled back. Caps. smooth, united beyond the middle into an obconical fruit. Invol. 0. **a.** 7-2. *Fields*. m. and s. Eu.

2. **sativa**. Anthers not apiculate. Caps. muricate, united to the top into an ovate Fr. Invol. 0. **a.** 6-8. *Fields*. Mtp. Erfurt.

3. **damascena**. Anthers not apiculate. Caps. smooth, united to the top into a subglobose Fr. Fl. surrounded by a leafy Invol. **a.** 6-8. *Fields*. Coasts of Mdt.

16. *AQUILEGIA*.

1. **vulgaris**. Spur hooked. Caps. villous. Stem leafy, many-flowered. Styles not exceeding Sta. L. biternate, nearly smooth. **p.** 5, 6. *Shade*.

β. Haenckiana. L. more deeply divided. Upper Carth. Laybach.

γ. atrata. Sta. porrect, much exceeding the very dark Fl. Sw.

2. **viscosa**. Spur curved. Caps. villous. Stem nearly naked, few-flowered. Styles not exceeding Sta. L. biternate, viscoso-pubescent. **p.** *Open*. Mdt. Fr.

3. **alpina**. Spur slightly incurved, half as long as the lamina. Stem leafy, 2-3-flowered. Lts. biternate. Segments linear. **p.** 7, 8. *High shade*. m. Alps.

4. **pyrenaica**. Spur straight, nearly equalling the lamina. Stem nearly naked, 1-3-flowered. Lts. once or twice ternate. Segments linear. **p.** 7, 8. *High meadows*. Pyr. Italy. Sw. Pyr. Carn. Mountains of Carrara.

17. *DELPHINIUM*.

A. *Pet. united; 1 inner Spur. L. divided into linear segments. Germe* 1.

1. **Consolida**. Stem erect, with divaricate branches. Flower-stalks much exceeding floral L. Caps. smooth. **a.** 6, 7. *Fields*. m. and s. Eur.

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2. **paniculatum**. "Stem erect, branched, paniced. Rac. few-flowered. Stalks much longer than floral L. a. 6, 7. *Fields*. I. of Osero."—Koch.

3. **pubescens**. Branches divaricate. Fl. in a scattered Rac. Flower-stalks exceeding floral L. Caps. hairy. a. 6, 7. *Fields*. mdt. Fr. *More branched from base than 1*.

4. **Ajaxis**. Stem erect, nearly simple. Fl. in a long, dense Rac. Flower-stalks hardly so long as floral L. a. 6-8. *Fields*. It. *rare*.

B. *Pet. 4, separate; inner Spurs 2, outer longer than Fl. Germ. 3-5.*

i. *Pet. not bearded. L. multifid. Segments linear.*

5. **cardiopetalum**. "Erect, somewhat branched. L. hairless, membranous, ternate. Divisions multifid. L. of the branches, and the lower floral L. multifid. Pet. hafted, blade circular, cordate at base. a. 7, 8. *Banks of the Garonne*."—Duby.

6. **halteratum**. "Downy, stem erect. Branches spreading. L. tripartite. Lowest floral L. in many divisions; upper undivided. Upright rac. straight, spike-like. Flower-stalks short. Accessory Pet. cordato-orbicular, much shorter than the haft. a. 4-7. *Waste ground*. Rome. Naples. Sic."—BERT.

7. **gracile**. "Hairless. Stem with a few, somewhat spreading branches. L. tripartite, linear. Lowest floral L. somewhat trisect; upper undivided. Flower-stalks short. Accessory Pet. ovate, cuneate at base. a. 4, 5. *Sandy shores*. Sard."—BERT.

8. **longipes**. Hairless. Stem with crowded branches. L. tripartite. Lower floral L. somewhat trisect; upper undivided. Flower-stalks long, straight. Accessory Pet. blunt, or emarginate. a. 4-6. *Sandy shores*. Sard.—BERT.

9. **peregrinum**. Erect, branched. L. hairless; lower multifid; upper and floral L. linear, entire. a. 5, 6. *Waste ground*. Toulon. It.

ii. *Accessory Pet. bearded.*

10. **velutinum**. Downy. L. palmato-5-partite, multifid. Leaf-stalks dilated into a long sheath. Accessory Pet. with obtuse segments. Fr. tomentose. p. 6. *Woody hills*. It. *occ.*

11. **hybridum**. Leaf ternate-multipartite. Divisions linear, their stalk dilated into a sheath at the base. Two linear bracts in the middle of the flower-stalk. p. 6, 7. *Stony woods*. Trieste, &c. [L. smooth; leaf-stalks

very little dilated. Flower-stalks long; bracts and bracteoles very short.—BERT.]

12. **emarginatum**. L. 5-7-partite; segments inciso-dentate. Leaf-stalk dilated into a short sheath. Accessory Pet. with obtuse segments. Bracts linear, longer than flower stalk. Fr. hairless. p. 5, 6. Palermo.

13. **elatum**. L. 5-7-lobed; segments incise. Leaf-stalk not sheathing. Sepals ovate. Segments of accessory Pet. obtuse. Two linear bracteoles near Fl. p. 5, 6. *Grassy*. Pyr. Alps of Prov. and Pdm. s. e. G.

a. *intermedium*, DC. Outline of L. cordato-subrotund. Fr. somewhat hairy.

β. *palmatifidum*, DC. Outline of L. reniform.

γ. *cuneatum*, DC. Segments of L. more cuneate than in the preceding.

14. **montanum**. L. palmato-partite; segments cuneate at base, pinnatifido-laciniate above. Sep. lanceolate, acuminate. Accessory Pet. crenulate, acuminate. p. 7. Ven. Alps. *Bertoloni quotes to this D. elatum a of Koch.*

C. *Pet. 4, Separate, beardless. Spur shorter than Fl.*

15. **Requieni**. "Spur nearly as long as Fl. Flower-stalk hairy, with a bract in the middle. I. of Hyères. Cors."—Duby.

16. **pictum**. Spurs somewhat shorter than Sep. Flower-stalk with a bract at the base, hardly longer than Fl. L. palmate. Segments oblongo-lanceolate, sometimes trifid. a. 4-6. *Pastures*. Sard. mdt. Fr.

17. **Staphysagria**. Spur very short. Flower-stalk with three bracts at the base, twice as long as Fr. L. palmato-5-fid; segments entire or trifid. a. 6, 7. mdt. Fr. Istria. It.

18. ACONITUM.

A. *Spur of Nect. slender, curled round. Helmet concave, cylindric. Fl. usually yellow.*

1. **Anthora**. Spur with a rectangular bend. Cal. permanent. p. 8, 9. *High rocky thickets*. Alps. Jura. Pyr.

a. *Jacquini*, RCHB. Divisions of L. very narrow, linear, straight.

β. *eulophum*, RCHB. Divisions of L. very narrow, linear, falcate.

γ. *nemorosum*, M.B. Divisions of L. linear-lanceolate.

c

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18. ACONITUM.

2. **Lycototum**. Spur evenly curved. Cal. deciduous. L. palmate. p. 6, 7. *Mountain thickets*. m. and s. Eur.

a. *vulparia*, RCHB. Spur spiral. Helmet somewhat enlarged at summit.

β. *Thelyphonum*, RCHB. Spurspiral. Helmet conical.

γ. *Myototum*, RCHB. Spur forming a ring. Helmet not much longer than wide.

δ. *pallidum*, RCHB. Spur-hooked.

ε. *pyrenæum*, DC. Segments of L. twice trifid, inciso-dentate.

B. *Spur of Nect. thick and blunt. Fl. blue, or rarely white.*

3. **Napellus**. Nect. bent horizontally. Fl. in Rac. Young carpels divaricate. Seeds obtusely wrinkled on the back. p. 6-8. *Moist woods and pastures.*

The supposed varieties of Napellus may be arranged as follows:—

* Spur with a head.

† Fil. hairless.

‡ Flower-stalks erect, covered with curled hairs.

Helmet gaping, hemispherical. a. [*Napellus*.]

Helmet semicircular, closed.

Flower-stalks long. β. *pyramidalis*.

Flower-stalks shorter than Fl. γ. [*bernhardianum*.]

Helmet deeper than a semicircle.

‡‡ Flower-stalks smooth. δ. *multifidum*.

Helmet gaping. ε. *hoppeanum*.

Helmet semicircular. ζ. *angustifolium*.

Helmet deeper than semicircular.

[η. *acutum*.]

†† Fil. hairy.

‡ Flower-stalks erect, smooth.

Helmet gaping. θ. *cæcum*.

Helmet incumbent (Koch). ι. *amœnum*.

‡‡ Flower-stalks covered with curled hairs.

Helmet low, spreading in front.

[κ. *autumnale*.]

Helmet semicircular, label short.

[λ. *neubergense*.]

Helmet semicircular, label long.

[μ. *eminens*.]

** Spur short, not curved or dilated at top.

† Fil. smooth. ν. *koellianum*.

†† Fil. hairy.

Helmet beaked. ξ. *hians*.

Helmet truncate.

Flower-stalks nearly erect. Helmet open.

Flower-stalks somewhat spreading. Helmet deep. ο. *strictum*.

Flower-stalks with spreading hairs. ρ. π. *latum*.

Flower-stalks with curled hairs. σ. [i] *formosum*.

[τ. *tauricum*.]

4. **paniculatum**. Nect. arched from the claw. Fl. at last in a divaricate Pan. Young Carpels divaricate. Back of seeds with winged wrinkles. p. 7, 8. *High moist. Alps.*

a. *cernuum*, RCHB. Pan. covered with short, spreading hairs. Helmet hemispherical.

β. *molle*, RCHB. Helmet deep, with a short beak.

γ. *hebegynum*, DC. Helmet narrow, with a longer beak.

5. **variegatum**. Nect. erect, or obliquely inclined. Rac. at last paniced. Young Carpels parallel. Back of seeds with winged wrinkles. p. 7, 8. *Mts. Alps. e. G.*

a. *Cammarum*, RCHB. Helmet straight.

β. *nasutum*, FISCHER. Helmet inclined forwards. Beak deflexed.

γ. *rostratum*, BEHNH. Helmet curved forwards.

δ. *variegatum*, RCHB. Helmet curved forwards. Beak bent upwards.

6. **intermedium**. Nect. arched from the claw, inclined obliquely. Young Carpels incurved, connivent at top. Back of seeds with sharp wrinkles. p. 6-8. *Woody mts. Alps of Berne and e. Alps.*

Tribe V. PÆONIACEÆ.

19. ACTÆA.

1. **spicata**. Berry subglobose. Style 1. Pet. equalling Sta. Rac. ovate. L. 2-3-ternate. p. 5-6. *Calcareous thickets.*

20. CIMICIFUGA.

1. **foetida**. Germens on short stalks. L. ternately bipinnate. p. 7, 8. *Shade, at Sloun, and the mountainous shores of the Weichsel near Grandenz in Moravia.*

21. PÆONIA.

1. **corallina**. L. twice-ternate. Lts. ovate,