

CATALOGUE

[23 July 1859]

OF

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(10) 13:310)

HYMENOPTEROUS INSECTS

IN

THE COLLECTION

OF THE

BRITISH MUSEUM.

BY

FREDERICK SMITH, V.P. ENT. SOC.

PART VII.

DORYLIDÆ AND THYNNIDÆ.

LONDON:

PRINTED BY ORDER OF THE TRUSTEES.

1859.

P R E F A C E.

THE object of the present Catalogue is to give a complete list of all the known genera and species of DORYLIDÆ and THYNNIDÆ, including those which have been previously recorded, together with descriptions of such as appear to be hitherto undescribed.

The letters B.M. in the margin indicate the species contained in the Collection of the British Museum.

JOHN EDWARD GRAY.

1st June, 1859.

CATALOGUES

OF

THE ZOOLOGICAL COLLECTION IN THE BRITISH MUSEUM.

I. VERTEBRATA.

List of Mammalia. By Dr. J. E. GRAY, F.R.S., F.L.S. &c. 1843.
2s. 6d.

Catalogue of the Mammalia. By Dr. J. E. GRAY, F.R.S. &c.

Part 1. Cetacea. 12mo, 1850. 4s., with Plates.

Part 2. Seals. 12mo, 1850. 1s. 6d., with Woodcuts.

Part 3. Hoofed Quadrupeds. Section I. (*Ungulata furcipes*). 12mo. 1852, with Plates of Genera, 12s.

This work contains the description of the genera and species, and figures of the chief characters of the genera.

List of Mammalia and Birds of Nepaul, presented by B. H. Hodgson, Esq., to the British Museum. By Dr. J. E. GRAY and G. R. GRAY. 12mo. 1846. 2s.

Catalogue of Mammalia and Birds of New Guinea. By Dr. J. E. GRAY, F.R.S., and G. R. GRAY, F.L.S. 8vo. 1858. 1s. 6d. With Figures.

List of Genera and Subgenera of Birds. By G. R. GRAY, F.L.S. 12mo, 1855. 4s.

List of Birds. By G. R. GRAY, F.L.S., F.Z.S. &c.

Part 1. Raptorial. Edition 1, 1844; edition 2, 1848. 3s.

Part 2. Passeres. Section I. Fissirostres. 1848. 2s.

Part 3. Gallinæ, Grallæ and Anseres. 1844. 2s. (Out of print.)

Part 3. Section I. Ramphastidæ. 1855. 6d.

Part 4. Columbæ. 1856. 1s. 9d.

List of British Birds. By G. R. GRAY, F.L.S. &c. 12mo. 1850. 4s.

List of the Eggs of British Birds. By G. R. GRAY, F.L.S. &c. 12mo. 1852. 2s. 6d.

Catalogue of Shield Reptiles. By Dr. J. E. GRAY, F.R.S. &c.

Part 1. Testudinata. 4to. 1855. £1 : 10s. With figures of all the new species, and of the skulls of the different genera.

Catalogue of Reptiles. By Dr. J. E. GRAY, F.R.S., V.P.Z.S. &c.

Part 1. Tortoises, Crocodiles and Amphisbænians. 1844. 1s.

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Part 3. Snakes (*Crotalidæ*, *Viperidæ*, *Hydridæ* and *Boidæ*). 12mo. 1849. 2s. 6d.

CATALOGUE
OF
HYMENOPTERA.

DIV. II. ACULEATA.

Tribe HETEROGYNA, *Latr.*

Family 5. DORYLIDÆ, *Shuck.*

Genus 1. DORYLUS.

Vespa, pt., *Linn. Mus. Lud. Ulric. Reg.* p. 409 (1764).

Mutilla, pt., *Linn. Syst. Nat.* i. 967 (1766).

Dorylus*, *Latr. Hist. Nat. Ins.* xiii. 260 (1802).

SECT. 1.—*Peduncle cup-shaped, much smaller than the second segment.*

I. DORYLUS HELVOLUS.

B.M.

Vespa helvola, *Linn. Mus. Lud. Ulric. Reg.* 412. 5.

Mutilla helvola, *Linn. Syst. Nat.* i. 967. 8.

Fabr. Mant. i. 313. 18.

Christ. Naturg. der Bienen, &c., 151.

Dorylus helvolus, *Fabr. Ent. Syst.* ii. 365. 1; *Syst. Piez.* 427. 1.

Coqueb. Icon. dec. 2. pl. 16. f. 1.

* This genus at present consists of males only. Dr. Savage considers the other sexes as constituting the genus *Anomma*; this, however, requires confirmation.

Dorylus helvolus, *Latr. Hist. Nat.* xiii. 260; *Gen. Crust. et Ins.* iv. 124.

Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 315. 2 (1840).
Westw. Arc. Ent. i. 79. 2.

Hab. Cape of Good Hope (Port Natal).

2. DORYLUS AFFINIS. B.M.

Dorylus affinis, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 316. 3 (1840).

Westw. Arc. Ent. i. 79. 3.

Hab. Africa (Gambia).

SECT. 2.—Peduncle cup-shaped, nearly as large as the following segment.

3. DORYLUS NIGRICANS. B.M.

Dorylus nigricans, *Illig. Mag.* i. 188. 18.

Fabr. Syst: Piez. 427. 2.

Latr. Gen. Crust. et Ins. iv. 124; *Nouv. Dict. d'Hist. Nat.* 2nd ed. 9. 556.

Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 271. 1 (1840).

Westw. Arc. Ent. i. 79. 1.

Hab. Sierra Leone.

SECT. 3.—Peduncle quadrate; mandibles slender and much acuminated.

4. DORYLUS GLABRATUS. B.M.

Dorylus glabratus, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 317. 4 (1840).

Westw. Arc. Ent. i. 79. 4.

Hab. Africa (Gambia).

5. DORYLUS JUVENCULUS. B.M.

Dorylus Juvenculus, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 318. 5 (1840).

Westw. Arc. Ent. i. 80. 5.

Hab. Barbary.

6. DORYLUS LABIATUS. B.M.

Dorylus labiatus, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 319. 6 (1840).

Westw. Arc. Ent. i. 80. 6.

Hab. India (Poonah and Assam).

7. DORYLUS HINDOSTANUS. Plate I. fig. 1.

Length 1 inch.—Rufo-fuscous, smooth, and covered with fine glittering downy pile: mandibles slender and acuminate at the apex; the face, base of the mandibles, the coxae, and apex of the abdomen with long curling pale yellow hair; face and forehead slightly prominent; the ocelli in an equilateral triangle, the face deeply sulcated in front of the anterior one; the antennæ setaceous, the scape about half the length of the flagellum. Thorax gibbous in front, the scutellum transverse; the metathorax abruptly truncated, the margin of the truncation fringed with pale hairs; wings hyaline, nervures brown, the radial nervure extending a little beyond the inner angle of the marginal cell; the legs castaneous. Abdomen elongate and cylindrical, the peduncle quadrate-convex; compressed beneath into a subtriangular form; the peduncle much narrower than the following segment; the terminal segment very pilose.

Hab. India (Punjaub).

This species is most closely allied to the *D. Juvenculus*, Shuck., but may be distinguished by the different form of the under side of the peduncle; its forehead is less convex, and its peduncle narrower in proportion to the following segment.

SECT. 4.—*Peduncle quadrate; mandibles broad and nearly triangular.*

8. DORYLUS ORIENTALIS.

B.M.

Dorylus Orientalis, Westw. Proc. Zool. Soc. 1835, p. 72.

Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 320. 7 (1840).

Westw. Arc. Ent. i. 80. 7.

Hab. India (Bengal).

9. DORYLUS LONGICORNIS.

B.M.

Dorylus longicornis, Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 321. 8 (1840).

Westw. Arc. Ent. i. 80. 8.

Hab. India (Bengal).

10. DORYLUS ATTENUATUS.

Dorylus attenuatus, Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 322. 9 (1840).

Westw. Arc. Ent. i. 80. 9.

Hab. Africa (Gambia?). (Coll. F. Smith.)

11. DORYLUS ATRICEPS.

Dorylus atriceps, Shuck. *Ann. Nat. Hist.* 1st ser. v. 323. 10 (1840).
Westw. Arc. Ent. i. 80. 10.

Hab. Africa (Gambia). (Coll. F. Smith.)

SECT. 5.—*Peduncle cup-shaped, as large as the following segment; the mandibles broad and nearly triangular.*

12. DORYLUS ATRATUS.

Length 9 lines.—Black, with a silky brown pubescence; elongate and cylindrical: head as wide as the thorax; the ocelli in a triangle on the vertex, which is very convex; antennæ short and setaceous, the scape more than half the length of the flagellum. Thorax: the mesothorax with an impressed longitudinal line on each side, two-thirds of its entire length, terminating at the base of the scutellum; wings blackish brown, with a slight violet iridescence, the nervures black; the recurrent nervure inserted a little beyond the middle of the first submarginal cell; femora elongate, triangular, much narrowed at the apex. Abdomen cylindrical; the peduncle cup-shaped, nearly as large as the second segment, its posterior margin rounded; beneath compressed into an angular form, and densely pubescent.

Hab. Old Calabar. (Coll. F. Smith.)

Genus 2. RHOGMUS.

Rhogmus, Shuck. *Ann. & Mag. Nat. Hist.* 1st ser. v. 323. 4 (1840).

1. *RHOGMUS FIMBRIATUS*. Plate I. fig. 2. B.M.

Rhogmus fimbriatus, Shuck. *Ann. & Mag. Nat. Hist.* 1st ser. v. 325. 1 (1840).
Westw. Arc. Ent. i. 80. 1.

Hab. Africa (Gold Coast; Gambia).

Genus 3. LABIDUS*.

Labidus, Jurine, *Hym.* p. 282 (1808).

SECT. 1.—*Peduncle of the abdomen subtriangular and concave above.*

1. *LABIDUS FARGEAVII*.

Labidus Fargeavii, Shuck. *Ann. Nat. Hist.* 1st ser. v. 198. 1 (1840).

* The females of this genus are not known. Mr. Shuckard has indicated their probable connexion with the genus *Typhlopone*.

Labidus Fargeavii, *St. Farg. Hym.* i. 229, nec *Jurine*.

Westw. Arc. Ent. i. 74. 1.

Hab. Brazil (St. Catherine).

2. LABIDUS JURINII.

Labidus Jurinii, *Shuck. Ann. Nat. Hist.* 1st ser. v. 198. 2 (1840).

Westw. Arc. Ent. i. 75. 3.

Hab. South America (Demerara); Brazil.

3. LABIDUS BURCHELLII. Plate I. fig. 3.

Labidus Burchellii, *Westw. Arc. Ent.* i. 74. 2. pl. 20. f. 1.

Hab. Brazil (Santos).

4. LABIDUS LATREILLII.

Labidus Latreillii, *Jurine, Hym.* p. 282.

Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 199. 3 (1840).

Westw. Arc. Ent. i. 75. 4.

Latr. Gen. Crust. et Ins. iv. 123; *Nouv. Dict. d'Hist. Nat.* 2nd ed. xvii. 141.

Hab. Brazil; Demerara?; Cayenne.

5. LABIDUS SERVILLEI.

Labidus Servillei, *Westw. Arc. Ent.* i. 75. 5. pl. 20. f. 2.

Hab. Brazil (Para).

6. LABIDUS ATRICEPS.

Length 7 lines.—Body reddish, pubescent; head black; the face anteriorly, and the ridges between the antennæ at their base, the mandibles and antennæ, rufo-testaceous; the ocelli of glassy brightness, and placed in a triangle on the vertex. The anterior wings fulvo-hyaline, with the nervures brownish red; the thorax punctured above, not very closely so; on each side an impressed line runs from the scutellum nearly to the anterior margin of the mesothorax; the posterior tibiæ as wide as the femora, narrowed at the base, two-thirds of their length towards the apex of the same width, and narrowed from thence to the base; the basal joint of the tarsi broadest at the base. Abdomen curved; the peduncle of a subtriangular shape above, concave, with the margins raised, and smooth and shining. The insect covered with a fulvous pubescence.

Hab. Brazil (Ega, on the Amazons).

I have scarcely a doubt of this being the *Labidus Latreillii*, although in one particular it somewhat differs. In the original description of the ‘*Nouveau Dictionnaire d'Hist. Nat.*’ the tibiæ

are described as increasing in thickness to their extremity, the spur at their apex broad at the base, as is also the basal joint of the tarsi. In the insect described, the tibiæ are of equal thickness two-thirds of their length; in other respects they perfectly agree.

7. LABIDUS MOROSUS.

Male. Length 9 lines.—Brown-black, covered with fine brown silky pubescence: the ocelli placed in a curve on the vertex, not smaller than in the other species, the space between the posterior pair smooth and shining and slightly concave; the antennæ, mandibles, and legs rufo-testaceous; the mandibles long and very slender. Thorax oblong-ovate, gibbous in front and at the scutellum; wings brown, the nervures brown-testaceous; the marginal cell acute at the base and apex, extending beyond the second submarginal cell one-third of its length; the second submarginal cell narrow, receiving the recurrent nervure one-third from its base; the legs slender, covered with long hair. Abdomen with the margin of the segments slightly constricted, and rufo-testaceous; the apex of the abdomen and the ventral segments with long fine hair; the peduncle transverse; concave above, the lateral posterior angles prominent and obtuse; the apical segment compressed vertically; the apical ventral plate furnished with two acute, stout, curved spines.

Hab. Mexico.

This species in some respects resembles *Labidus D'Orbignii*, described in Shuckard's 'Monograph'; but the size of the ocelli, form of the peduncle, and different neuration of the wings appear to characterize a distinct species.

8. LABIDUS AMPLIPENNIS.

Male. Length 7 lines.—Rufo-testaceous: the head fuscous; the ocelli large, glassy bright, placed on the hinder margin of the vertex in a slight curve; the face anteriorly, the labrum, and antennæ rufo-testaceous. Thorax very gibbous in front, as also at the scutellum; the metathorax perpendicularly truncate; wings ample, one-fourth longer than the entire insect; the nervures testaceous; the marginal cell lanceolate, acute at the apex, nearly as long as the first and second submarginals united; the first submarginal oblique-quadrata, its width half that of the lower margin of the second submarginal, the latter narrowed towards the marginal cell; the legs slender. Abdomen shining; the peduncle quadrate, slightly concave above, and of the same width as the abdomen; the apical segment fusco-ferruginous.

Hab. Bogota.

9. LABIDUS PILOSUS.

B.M.

Length $9\frac{1}{2}$ lines.—Rufo-testaceous: the head blackish, excepting the anterior margin of the face, the mandibles, and antennæ, which are of the same colour as the body. The thorax of a darker colour above than the abdomen, punctured and shining; the sides, the metathorax, and the legs with long pale pubescence; the wings hyaline, the nervures ferruginous; the mesothorax not gibbous in front. Abdomen covered with dense shining silky pile; the peduncle transverse, subtriangular, with the sides slightly rounded.

Hab. Brazil (St. Paul's). (Coll. H. W. Bates.)

10. LABIDUS MEXICANUS.

Length 6 lines.—Pale rufo-testaceous, covered with pale shining pubescence: eyes large, black, and prominent; the ocelli glassy bright; on each side of the anterior one an elevated carina, which passes between the antennæ to the anterior margin of the face, forming a deep smooth channel; the antennæ shorter than the thorax, stout, and tapering to a point at their apex. Thorax very gibbous in front and at the scutellum; the wings wanting. Abdomen: the margins of the segments slightly constricted; the peduncle transverse, the lateral margins not elevated, slightly convex in the middle.

Hab. Mexico (Orizaba).

SECT. 2.—*Peduncle of the abdomen more or less convex, transverse-quadrata.*

11. LABIDUS ILLIGERI.

Labidus Illigeri, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 397.

Append. (1840).

Westw. Arc. Ent. i. 76. 8.

Hab. Brazil.

12. LABIDUS HARTIGII.

Labidus Hartigii, *Westw. Arc. Ent.* i. 75. 6. pl. 20. f. 3.

Hab. Brazil (Rio Janeiro and Sapé).

13. LABIDUS ESENBECKII.

Labidus Esenbeckii, *Westw. Arc. Ent.* i. 75. 7. pl. 20. f. 4.

Hab. Brazil (Rio Vendinha).

14. LABIDUS HALIDAI.

Labidus Latreillii, Halid. Linn. Trans. xvii. 328 (nec Jurine).
Labidus Halidai, Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 200.

4 (1840).

Westw. Arc. Ent. i. 76. 9.

Hab. Brazil (St. Paul's). (Coll. W. W. Saunders, Esq.)

15. LABIDUS SWAINSONII.

Labidus Swainsonii, Shuck. Ann. & Mag. Nat. Hist. 1st ser. v.
201. 5 (1840).

Westw. Arc. Ent. i. 76. 11.

Hab. Brazil (Para); Mexico. (Coll. F. Smith.)

16. LABIDUS FONSCOLOMBII.

Labidus Fonscolombii, Westw. Arc. Ent. i. 76. 10.

Hab. Brazil.

17. LABIDUS HOPEI.

Labidus Hopei, Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 258. 6
(1840).

Westw. Arc. Ent. i. 76. 12.

Hab. Brazil.

18. LABIDUS D'ORBIGNII.

Labidus D'Orbignii, Shuck. Ann. & Mag. Nat. Hist. 1st ser. v.
259. 7 (1840).

Hab. South America.

19. LABIDUS GRAVENHORSTII.

Labidus Gravenhorstii, Westw. Arc. Ent. i. 76. 13.

Hab. Brazil (Rio Vendinha).

20. LABIDUS SPINOLÆ.

Labidus Spinolæ, Westw. Arc. Ent. i. 77. 14.

Hab. Brazil (Meia Ponte, Caisara).

21. LABIDUS GUERINII.

Labidus Guerinii, Shuck. Ann. & Mag. Nat. Hist. 1st ser. v. 397.
Append. (1840).

Westw. Arc. Ent. i. 77. 15.

Hab. South America.

22. LABIDUS WALKERI.

Labidus Walkeri, *Westw. Arc. Ent.* i. 77. 17.

Hab. Brazil (Meia Ponte).

23. LABIDUS KLUGII.

Labidus Klugii, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 260. 8 (1840).

Westw. Arc. Ent. i. 77. 18.

Hab. St. Vincent's.

24. LABIDUS ROMANDII.

Labidus Romandii, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 261. 9 (1840).

Hab. Brazil.

25. LABIDUS ERICHSONII.

Labidus Erichsonii, *Westw. Arc. Ent.* i. 77. 19.

Hab. Brazil.

26. LABIDUS PERTII.

Labidus Latreillii, *Perty, Del. An. Art.* p. 138. t. 27. f. 11 (nec *Jurine*).

Labidus Pertii, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 262. 11 (1840).

Westw. Arc. Ent. i. 78. 21.

Hab. Brazil.

Genus 4. ÆNICTUS *.

Enictus, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 266 (1840).

1. ÆNICTUS AMBIGUUS.

Enictus ambiguus, *Shuck. Ann. & Mag. Nat. Hist.* 1st ser. v. 268 (1840).

Westw. Arc. Ent. i. 79. 1.

Hab. India (Poonah). (Coll. F. Smith.)

2. ÆNICTUS CERTUS. Plate I. fig. 4.

Enictus certus, *Westw. Arc. Ent.* i. 79. 2, and *Mus. Linn. Soc.*

Hab. —? (Coll. Linn. Soc.)

* Males only of this genus are known.

3. *ÆNICTUS INCONSPICUUS.* Plate II. fig. 15a.

Ænictus inconspicuus, *Westw. Trans. Ent. Soc. Lond.* iv. 238.
pl. 14. figs. 4, 4 a-g.

Hab. South Africa. (Coll. W. W. Saunders, Esq.)

4. *ÆNICTUS PUBESCENS.*

Length $3\frac{1}{2}$ lines.—Rufo-testaceous, densely clothed with pale pubescence: the head black and shining; the mandibles and antennæ rufo-testaceous; the ocelli in a curve on the vertex, and situated on the sides of a central elevation; the mandibles long and curved. The thorax obscure ferruginous; wings hyaline and iridescent, the nervures and stigma dark brown. Abdomen densely clothed with long decumbent silky pubescence; the peduncle deeply concave above and channeled in the middle, slightly rounded at the sides, the peduncle of the same width as the second segment, the terminal segment obtuse.

Hab. Northern India. (Coll. F. Smith.)

This species closely resembles *Ænictus ambiguus*, from which it differs in being covered with dense long pale silky pubescence; the anterior margin of the prothorax is much more obtuse, and is notched in the middle; the peduncle is of a different form, for which refer to Plate II. fig. 17.

Family 6. THYNNIDÆ, Erichs.

Genus 1. THYNNUS.

Thynnus, *Fabr. Syst. Ent.* 360 (1775).

Myzine, pt., *Oliv. Encycl. Méth.* viii. (1811).

Tiphia, pt., *Fabr. Syst. Ent.* 354 (1775).

Myrmecodes, *Latr. Nouv. Dict. d'Hist. Nat.* xx. 2nd ed.

Mutilla, pt., *Lamarck, Hist. Nat.* iv. 2nd ed.

Thynnoides, *Guér. Voy. Coq. Zool.* ii. 232 (1830).

Agriomyia, *Guér. Voy. Coq. Zool.* ii. 218 (1830).

Lophocheilus, *Guér. Voy. Coq. Zool.* ii. (1842).

Enteles, *Westw. Arc. Ent.* ii. 143 (1843-45).

Catocheilus, *Guér. Mag. Zool.* (1842).

Erione, *Westw. Arc. Ent.* ii. 144 (1843-45).

In this Catalogue the *Thynnidae* are divided generically on the differences of neuration in the anterior wings. After a careful examination of several extensive collections of *Thynnidae*, that in particular of the British Museum, we find that the palpi differ in the number of joints in the males and females of the

same species; the wing-system alone, therefore, appears to form distinctive and satisfactory divisions of this remarkable family of Hymenoptera.

The immense variety of form observable in the apterous females of this genus renders it impossible to found any generic divisions upon such peculiarities. The relative proportions of the head, thorax, and abdomen vary greatly, the former being sometimes wider than the thorax, sometimes of the same width, and frequently narrower. The thorax is oblong-quadrata, narrowed anteriorly into a neck, or deeply strangulated in the middle, with various intermediate gradations. The abdomen, although usually wider than the head and thorax, is sometimes of the same width.

The very great dissimilarity existing between the winged males and the apterous females renders it a matter of impossibility to unite the sexes of a species with a certainty of correctness, without a positive observation of the living insects; but much has been done in this respect by Robert Bakewell, Esq., for some years resident in Australia, whose collection has been most liberally placed at my disposal for examination, and from which many new species have been presented to the Museum Collection.

Species of Australia.

I. THYNNUS DENTATUS.

Thynnus dentatus, *Fabr. Syst. Ent.* p. 360. 1 ♂; *Ent. Syst. ii.* 244. 1; *Syst. Piez.* p. 231. 1.

Latr. Gen. Cr. et Ins. iv. pl. 3. f. 1, & tom. i. t. 13. f. 2, 3,
4 ♂; *Encycl. Méth.* p. 382. f. 8.

Guér. Voy. Coq. Zool. ii. 222.

Klug, Berl. Abhandl. (1842) 15. 1.

Don. Ins. New Holl. pl. 41. f. 1.

Ræmer, Gen. Ins. t. 35. f. 8.

Lamarck, Anim. sans Vert. t. 4. f. 109.

Hab. Australia.

The Fabrician description of this species is not sufficiently minute in structural details to distinguish the insect amongst the multitude of species now brought together:—

“ *Statura et magnitudo Vespæ vulgaris.* Antennæ porrectæ, fuscæ, basi piceæ. Labium flavum, dentatum. Maxillæ flavæ, apice nigrae. Thorax niger, striga antica, lobo postico scutelloque flavis. In medio dorsi lineolæ duæ impressæ, abbreviatæ. Abdomen glabrum, atrum, primo segmento basi, 2, 3, 4, punctis duobus flavis, reliquis immaculatis. Anus denticulis septem parvis serratus.” — *Fabr. Syst. Ent.*

EXPLANATION OF THE PLATES.

PLATE I.

Fig.

1. *Dorylus Hindostanus.*
2. *Rhogmus fimbriatus.*
3. *Labidus Burchellii.*
4. *Ænictus certus.*
5. Node of the abdomen of *Dorylus helvolus.*
6. Node of the abdomen of *Dorylus affinis.*
7. Node of the abdomen of *Dorylus nigricans.*
8. Node of the abdomen of *Dorylus glabratus.*
9. Node of the abdomen of *Dorylus Juvenculus.*

Fig.

10. Node of the abdomen of *Dorylus labiatus.*
11. Node of the abdomen of *Dorylus orientalis.*
12. Node of the abdomen of *Dorylus longicornis.*
13. Node of the abdomen of *Dorylus attenuatus.*
14. Node of the abdomen of *Dorylus atriceps.*
15. Node of the abdomen of *Dorylus atratus.*
16. Node of the abdomen of *Dorylus Hindostanus.*

In this Plate the nodes of the abdomen are figured in profile, and are reversed, to show the form of the scale, or flattened process, in the different species, which apparently forms a good distinctive specific character.

PLATE II.

1. Anterior wing of *Labidus Jurinii.*
2. Anterior wing of *Labidus Panzeri.*
3. Anterior wing of *Labidus Illigeri.*
4. Anterior wing of *Labidus atriceps.*
5. Anterior wing of *Labidus Hopei.*
6. Anterior wing of *Labidus Klugii.*
7. Anterior wing of *Labidus Romandii.*
8. Anterior wing of *Labidus Swainsonii.*
9. Anterior wing of *Labidus Guerinii.*
10. Anterior wing of *Labidus Servillei.*
11. Anterior wing of *Labidus Burchellii.*
12. Anterior wing of *Labidus Halidaii.*

HYMENOPTERA.

P. I.

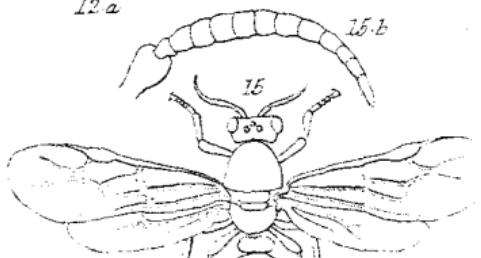
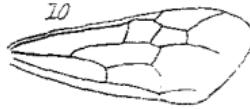
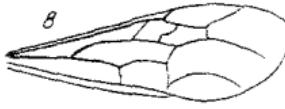
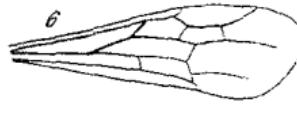
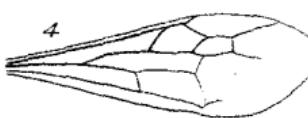
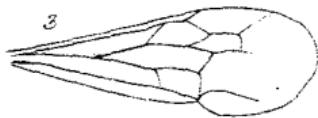


PLATE II. (*continued*).

- | | | | |
|------|--|------|---|
| Fig. | | Fig. | |
| 12a. | Node of the abdomen of
<i>Labidus Halidaii</i> . | 15a. | <i>Aenictus inconspicuus</i> . |
| 13. | Anterior wing of <i>Labidus morosus</i> . | b. | Antennae of ditto. |
| 13a. | Node of the abdomen of
<i>Labidus morosus</i> . | c. | Node of the abdomen
of ditto. |
| 14. | Anterior wing of <i>Labidus amplipennis</i> . | 16. | Node of the abdomen of
<i>Aenictus ambiguus</i> . |
| 14a. | Node of the abdomen of
<i>Labidus amplipennis</i> . | 17. | Node of the abdomen of
<i>Aenictus pubescens</i> . |

PLATE III.

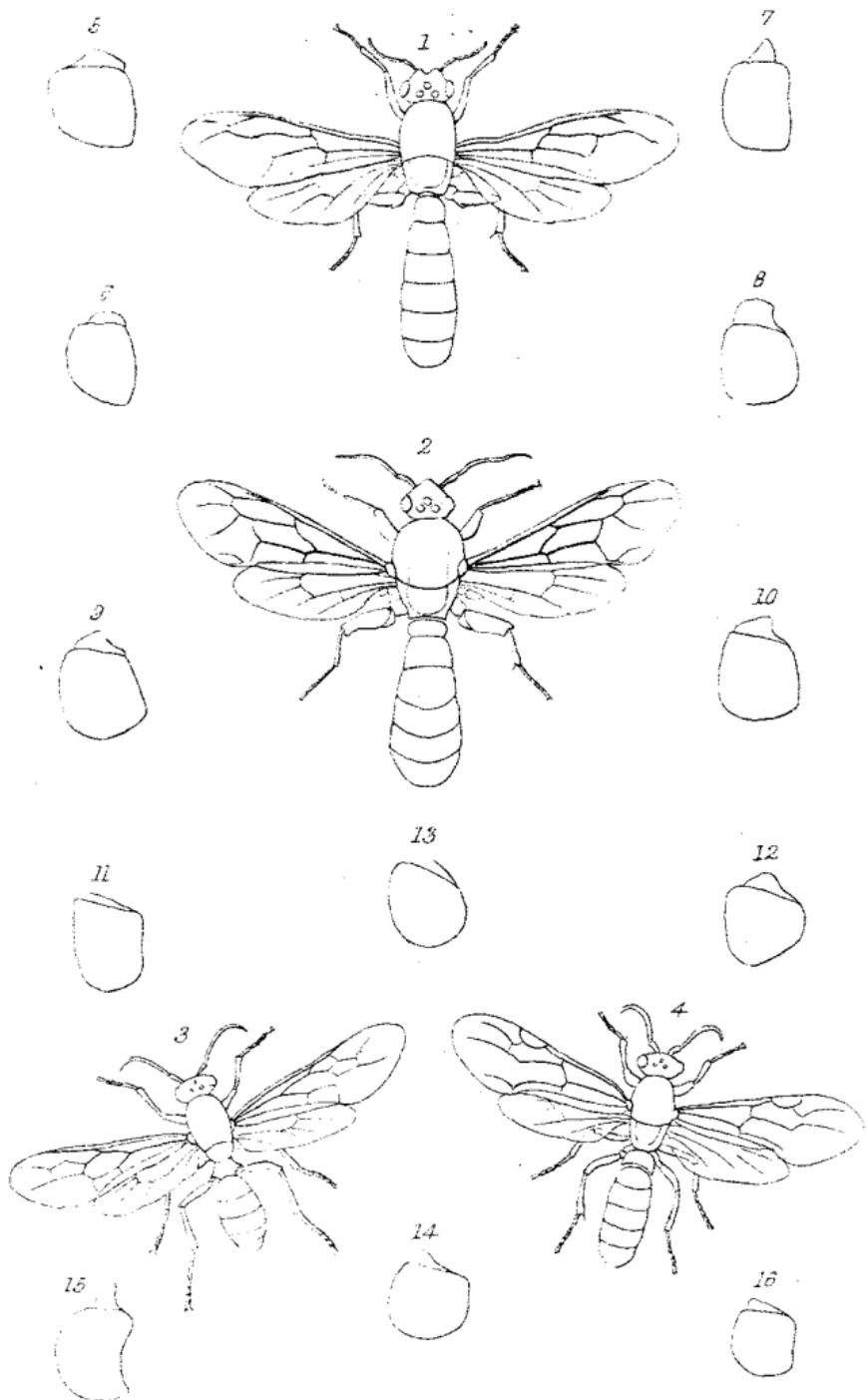
- | | | | |
|----|--|-----|---|
| 1. | <i>Thynnus variabilis</i> ♂. | 9. | Maxillary palpi of <i>Aelurus clypeatus</i> . |
| 2. | <i>Thynnus variabilis</i> ♀. | 10. | <i>Tachypterus crassicornis</i> ♂. |
| 3. | Labial palpi of <i>Thynnus variabilis</i> . | 11. | Labial palpi of <i>Aelurus clypeatus</i> . |
| 4. | Maxillary palpi of <i>Thynnus variabilis</i> . | 12. | Maxillary palpi of <i>Aelurus clypeatus</i> . |
| 5. | Anterior wing of <i>Anthobosca</i> . | 13. | <i>Ariphron bicolor</i> ♀. |
| 6. | <i>Aelurus basalis</i> ♂. | 14. | Wing of <i>Rhagigaster</i> . |
| 7. | <i>Aelurus nasutus</i> ♀. | 15. | <i>Oncorhinus xanthospilos</i> ♂. |
| 8. | Labial palpi of <i>Aelurus clypeatus</i> . | 16. | <i>Thynnus (Agriomyia) haematodes</i> ♂. |

INDEX.

- abdominalis* (*Ælurus*), 53.
abdominalis (*Agriomyia*), 53.
adustus (*Thynnus*), 43.
Ælurus, 53.
Ænictus, 9.
æthiops (*Thynnus*), 50.
affinis (*Dorylus*), 2.
affinis (*Thynnus*), 12.
agilis (*Thynnus*), 19.
Agriomyia, 10.
albo-maculatus (*Thynnus*), 27.
albo-pictus (*Thynnus*), 26.
ambiguus (*Ænictus*), 9.
ambiguus (*Labidus*), 9.
amplipennis (*Labidus*), 6.
amplipennis (*Thynnus*), 53.
analis (*Rhagigaster*), 61.
analis (*Thynnus*), 49.
anilitatis (*Thynnus*), 37.
annulatus (*Thynnus*), 14.
Anthobosca, 59.
anthracinus (*Thynnus*), 50.
apicalis (*Rhagigaster*), 63.
apicalis (*Thynnus*), 47.
aptera (*Myzine*), 12.
apterus (*Rhagigaster*), 61.
apterus (*Thynnus*), 12.
Ariphon, 58.
assimilis (*Thynnus*), 19.
ater (*Thynnus*), 47.
atratus (*Dorylus*), 4.
atriceps (*Labidus*), 5.
attenuatus (*Dorylus*), 3.
attenuatus (*Thynnus*), 42.
aurifrons (*Ælurus*), 54.
Australasiae (*Anthobosca*), 59.
australis (*Thynnus*), 14.
barbatus (*Ælurus*), 57.
basalis (*Ælurus*), 55.
basalis (*Thynnus*), 23.
Bethylus, 60.
bicolor (*Ariphon*), 58.
bicolor (*Diamma*), 65.
bicolor (*Thynnus*), 40.
bidentatus (*Thynnus*), 32.
binotatus (*Rhagigaster*), 61.
brevicornis (*Thynnus*), 39.
Brownii (*Thynnus*), 14.
Burchellii (*Labidus*), 5.
calcaratus (*Thynnus*), 40.
carbonarius (*Thynnus*), 23.
carinatus (*Thynnus*), 29.
castaneus (*Rhagigaster*), 63.
Catocheilus, 10.
Cerceroides (*Thynnus*), 34.
certus (*Ænictus*), 9.
chalybeus (*Trachypterus*), 64.
clitellatus (*Thynnus*), 50.
clypeatus (*Ælurus*), 58.
cognatus (*Thynnus*), 28.
collaris (*Thynnus*), 40.
combustus (*Ælurus*), 55.
combustus (*Thynnus*), 32.
comparatus (*Rhagigaster*), 69.
compressus (*Thynnus*), 43.
confusus (*Thynnus*), 13.
connectens (*Thynnus*), 45.
consanguineus (*Thynnus*), 24.
consobrinus (*Thynnus*), 48.
constrictus (*Thynnus*), 19.
cornutus (*Thynnus*), 47.
Crabroniformis (*Anthobosca*), 59.

HYMENOPTERA.

PL. I.



- Crabroniformis (*Thynnus*), 36.
 crassicornis (*Tachypterus*), 64.
 crassipes (*Thynnus*), 44.
 cryptoides (*Thynnus*), 33.
 decipiens (*Thynnus*), 18.
 decorus (*Thynnus*), 51.
 dentatus (*Ælurus*), 57.
 dentatus (*Thynnus*), 11.
 depressus (*Thynnus*), 11, 23.
 Diamma, 60, 65.
 dilatatus (*Thynnus*), 43.
 dimidiatus (*Rhagigaster*), 62.
 dimidiatus (*Thynnus*), 17, 47.
 dispar (*Erione*), 41.
 dispar (*Thynnus*), 41.
 distinctus (*Thynnus*), 40.
 diversus (*Thynnus*), 41.
 D'Orbignii (*Labidus*), 8.
 Dorylidæ, 1.
Dorylus, 1.
 elegans (*Thynnus*), 51.
 emarginatus (*Thynnus*), 16.
 Enteles, 10.
 ephippiger (*Rhagigaster*), 61.
 Erichsonii (*Labidus*), 9.
 Erione, 10.
 Esenbeckii (*Labidus*), 7.
 fallax (*Thynnus*), 35.
 Fargeavii (*Labidus*), 4.
 fasciatus (*Thynnus*), 47.
 fasciatus (*Trachypterus*), 64.
 fenestratus (*Thynnus*), 18.
 fervens (*Ælurus*), 58.
 fervens (*Thynnus*), 31.
 fervidus (*Thynnus*), 18, 53.
 fimbriatus (*Rhognus*), 4.
 fimbriatus (*Thynnus*), 42.
 flavescens (*Thynnus*), 68.
 flavilabris (*Thynnus*), 17, 18.
 flavipennis (*Thynnus*), 21.
 flaviventris (*Thynnus*), 16.
 flavo-fasciatus (*Thynnus*), 45.
 flavo-guttatus (*Thynnus*), 12.
 flavopictus (*Thynnus*), 21.
 Fonscolombii (*Labidus*), 8.
 frontalis (*Thynnus*), 48.
 fulvifrons (*Ælurus*), 56.
 fulvipes (*Thynnus*), 22.
 fumipennis (*Thynnus*), 22.
 glabratus (*Dorylus*), 2.
 gracilis (*Thynnus*), 22.
 gratiosus (*Thynnus*), 52.
 Gravenhorstii (*Labidus*), 8.
 gravidus (*Thynnus*), 18.
 Grayii (*Thynnus*), 14.
 Guerinii (*Labidus*), 8.
 Guerinii (*Thynnus*), 17.
 haematoches (*Thynnus*), 59.
 haemorrhoidalis (*Rhagigaster*), 62.
 haemorrhoidalis (*Thynnus*), 49.
 Halidaii (*Labidus*), 8.
 Hartigii (*Labidus*), 7.
 helvola (*Mutilla*), 1.
 helvola (*Vespa*), 1.
 helvolus (*Dorylus*), 1.
 Hindostanus (*Dorylus*), 3.
 histrio (*Thynnus*), 50.
 Hopei (*Labidus*), 8.
 humilis (*Thynnus*), 19.
 hyalinatus (*Thynnus*), 16.
 ichneumoneus (*Thynnus*), 48.
 ichneumoniformis (*Thynnus*), 39.
 Illigeri (*Labidus*), 7.
 incanus (*Ælurus*), 53, 69.
 inconspicuus (*Ænictus*), 10.
 inconstans (*Thynnus*), 26.
 insignis (*Thynnus*), 15.
 integer (*Rhagigaster*), 60.
 intermedius (*Thynnus*), 49.
 interruptus (*Thynnus*), 48.
 intricatus (*Thynnus*), 30.
 iridipennis (*Thynnus*), 38.
 Iswara, 65.
 jucundus (*Thynnus*), 25.
 Jurinii (*Labidus*), 5.
 Juvenculus (*Dorylus*), 2.
 Klugii (*Labidus*), 9.
 Klugii (*Thynnus*), 17.
 labiatus (*Dorylus*), 2.
 labiatus (*Thynnus*), 22.
 Labidus, 4.
 laetus (*Thynnus*), 51.
 leviceps (*Thynnus*), 44.
 leevifrons (*Thynnus*), 45.
 lateralis (*Thynnus*), 50.
 Latreillii (*Labidus*), 5.
 Latreillii (*Thynnus*), 48.
 Leachiellus (*Thynnus*), 17.
 lepidus (*Thynnus*), 49.
 longiceps (*Thynnus*), 46.

- longicornis (*Dorylus*), 3.
 Lophocheilus, 10.
 lucidus (*Thynnus*), 36.
 luctuosus (*Thynnus*), 26.
 luteus (*Iswara*), 65.
 maculatus (*Thynnus*), 24.
 maculipennis (*Thynnus*), 47.
 maculosus (*Thynnus*), 16.
 mandibularis (*Rhagigaster*), 61.
 marginalis (*Thynnus*), 24.
 marginilabris (*Thynnus*), 24.
 maurus (*Thynnus*), 37.
 melleus (*Thynnus*), 24, 67.
 Mexicanus (*Labidus*), 7.
 minutus (*Thynnus*), 35.
 modestus (*Thynnus*), 19.
 moerens (*Ælurus*), 53.
 moestus (*Thynnus*), 36.
 molitor (*Thynnus*), 43.
 monilicornis (*Thynnus*), 39.
 Morio (*Rhagigaster*), 61.
 morosus (*Labidus*), 6.
 Mutila, 1, 10.
 Myrmecodes, 10.
 Myrmecodes (*Mutila*), 16.
 mystacinus (*Thynnus*), 49.
 Myzine, 10.
 nasutus (*Ælurus*), 58.
 niger (*Thynnus*), 30.
 nigra (*Anthobosca*), 59.
 nigricans (*Dorylus*), 2.
 nigriceps (*Thynnus*), 46.
 nitidus (*Rhagigaster*), 63.
 nitidus (*Thynnus*), 30.
 obscuripennis (*Thynnus*), 13.
 obscurus (*Thynnus*), 23.
 obtusus (*Rhagigaster*), 62.
 odyneroides (*Thynnus*), 24.
 Olivieri (*Thynnus*), 12, 18.
 Oncorhinus, 64.
 optimus (*Thynnus*), 29.
 orientalis (*Dorylus*), 3.
 ornatus (*Thynnus*), 49.
 pallidipennis (*Thynnus*), 47.
 pedestris (*Thynnus*), 16.
 Pertii (*Labidus*), 9.
 petiolatus (*Thynnus*), 36.
 philanthoides (*Thynnus*), 51.
 picipes (*Thynnus*), 17.
 pilosulus (*Ælurus*), 56.
 pilosus (*Labidus*), 7.
 plagiatus (*Thynnus*), 52.
 planifrons (*Thynnus*), 46.
 Psammatha, 64.
 pubescens (*Ænictus*), 10.
 pubescens (*Thynnus*), 49.
 pugionatus (*Thynnus*), 22.
 pulchellus (*Thynnus*), 25.
 pulchralis (*Thynnus*), 68.
 punctatus (*Thynnus*), 44.
 purpureipennis (*Thynnus*), 18.
 quadratus (*Thynnus*), 42.
 quadricinctus (*Thynnus*), 50.
 reflexus (*Rhagigaster*), 62.
 Rhagigaster, 60.
 Rhogmus, 4.
 Romandii (*Labidus*), 9.
 rotundiceps (*Thynnus*), 46.
 rubellus (*Ælurus*), 56.
 rubellus (*Thynnus*), 25.
 rubripes (*Thynnus*), 22.
 ruficeps (*Thynnus*), 48.
 ruficornis (*Rhagigaster*), 61.
 ruficornis (*Thynnus*), 34.
 rufipes (*Thynnus*), 46.
 rufiventris (*Thynnus*), 13.
 Scoliaformis (*Thynnus*), 48.
 scutellaris (*Thynnus*), 51.
 sedulus (*Thynnus*), 35.
 senex (*Ælurus*), 54.
 senex (*Thynnus*), 19.
 senilis (*Thynnus*), 25.
 serripes (*Thynnus*), 44.
 Servillei (*Labidus*), 5.
 sexmaculatus (*Thynnus*), 32.
 Shuckardi (*Thynnus*), 17.
 signatus (*Thynnus*), 44.
 similis (*Thynnus*), 15.
 simillimus (*Thynnus*), 15.
 sphegeus (*Thynnus*), 50.
 Spinolæ (*Labidus*), 8.
 sulcatus (*Thynnus*), 42.
 sulcifrons (*Thynnus*), 43.
 Swainsonii (*Labidus*), 8.
 Tachypterus, 64.
 tarsatus (*Thynnus*), 51.
 tenuatus (*Thynnus*), 24.
 Thynnidae, 10.
 Thynnus, 10.
 Tiphia, 10.

- tricolor (*Thynnus*), 46.
 trifasciatus (*Thynnus*), 49.
 trifidus (*Thynnus*), 24.
 tristis (*Rhagigaster*), 63.
 tristis (*Thynnus*), 34.
 trisulcatus (*Thynnus*), 45.
 trivialis (*Thynnus*), 34.
 trochanterinus (*Thynnus*), 23.
 truncatus (*Thynnus*), 38.
Tryphonooides (*Thynnus*), 34, 68.
 tuberculatus (*Thynnus*), 41.
 tuberculiventris (*Thynnus*), 17.
 umbripennis (*Thynnus*), 31.
 unicolor (*Rhagigaster*), 61.
 varia (*Myrmecoda*), 48.
 variabilis (*Thynnus*), 12.
 variegatus (*Thynnus*), 24.
 varipes (*Anthobosca*), 59.
 varipes (*Thynnus*), 67.
 varius (*Thynnus*), 48.
 versicolor (*Thynnus*), 50.
 Vespa, 1.
 vestitus (*Thynnus*), 15.
 vigilans (*Thynnus*), 28.
 villosus (*Thynnus*), 40.
 vinculatus (*Thynnus*), 49.
 vitripennis (*Thynnus*), 41.
 volatilis (*Thynnus*), 33.
 vulpinus (*Ælurus*), 54.
 vulpinus (*Thynnus*), 50.
 Walkeri (*Labidus*), 9.
 Wallisii (*Thynnus*), 14.
 Westwoodii (*Thynnus*), 24.
Xanthorrhœi (*Thynnus*), 28.
 xanthospilos (*Oncorhinus*), 65.
 zonatus (*Thynnus*), 12.

THE END.