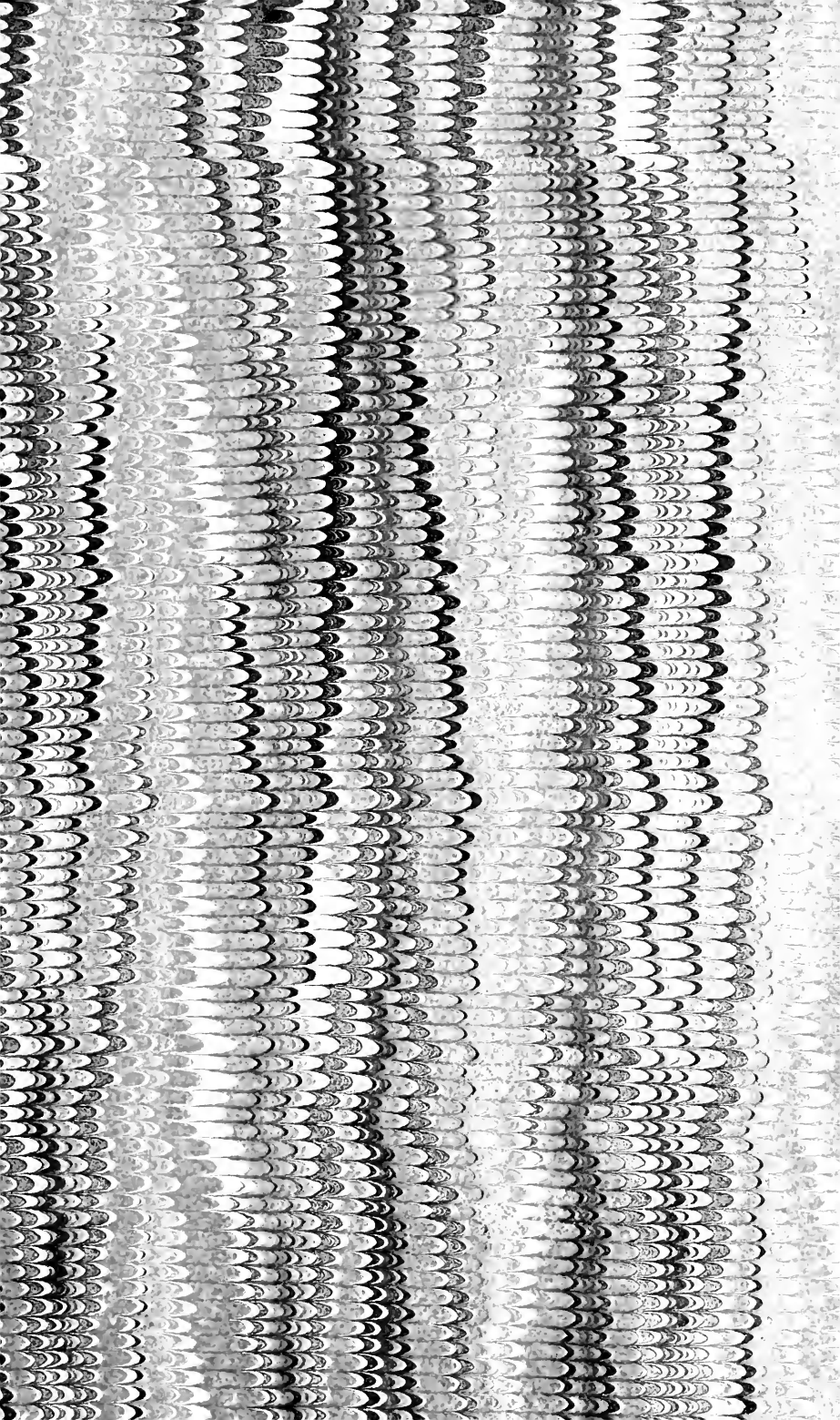




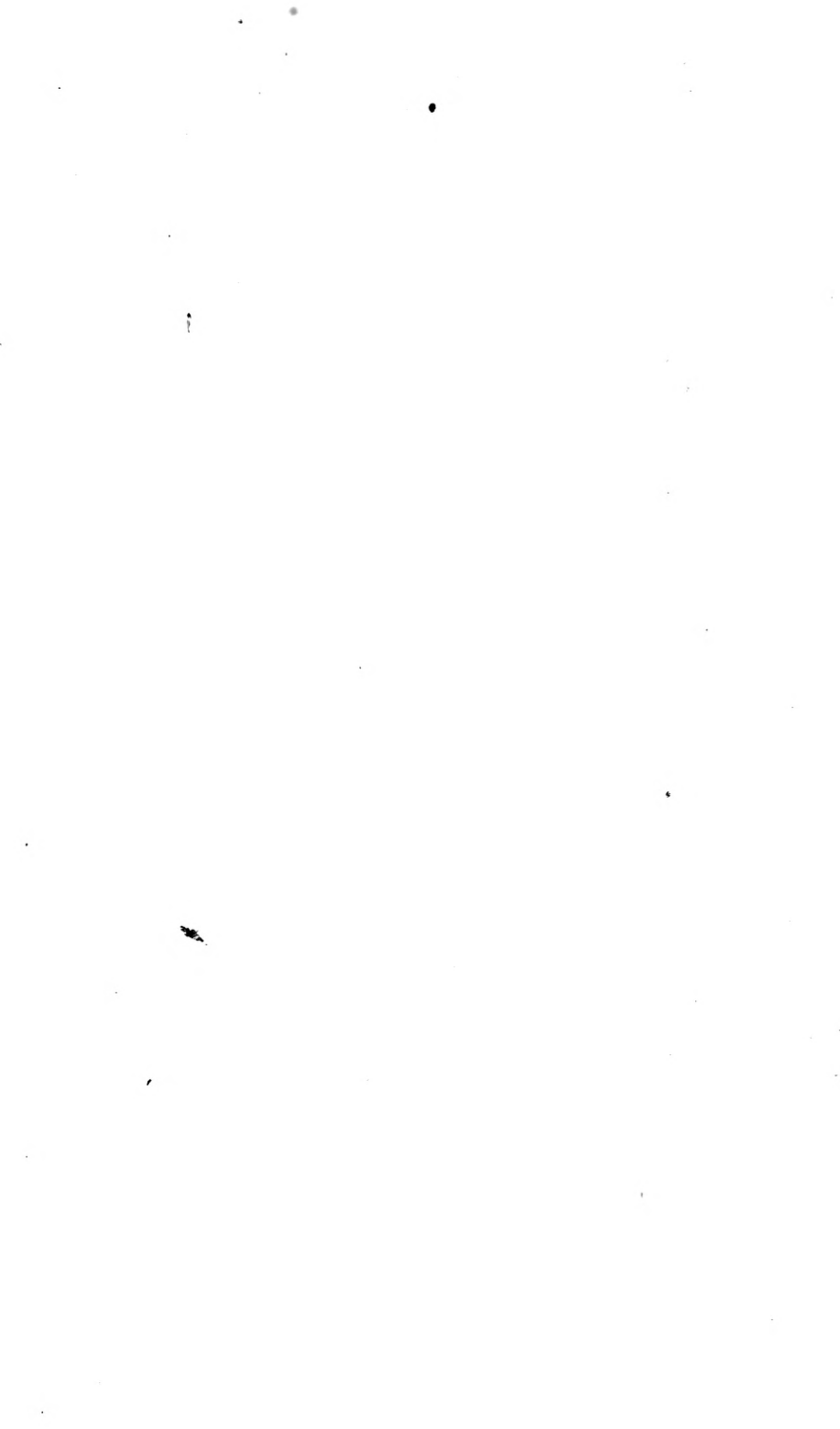
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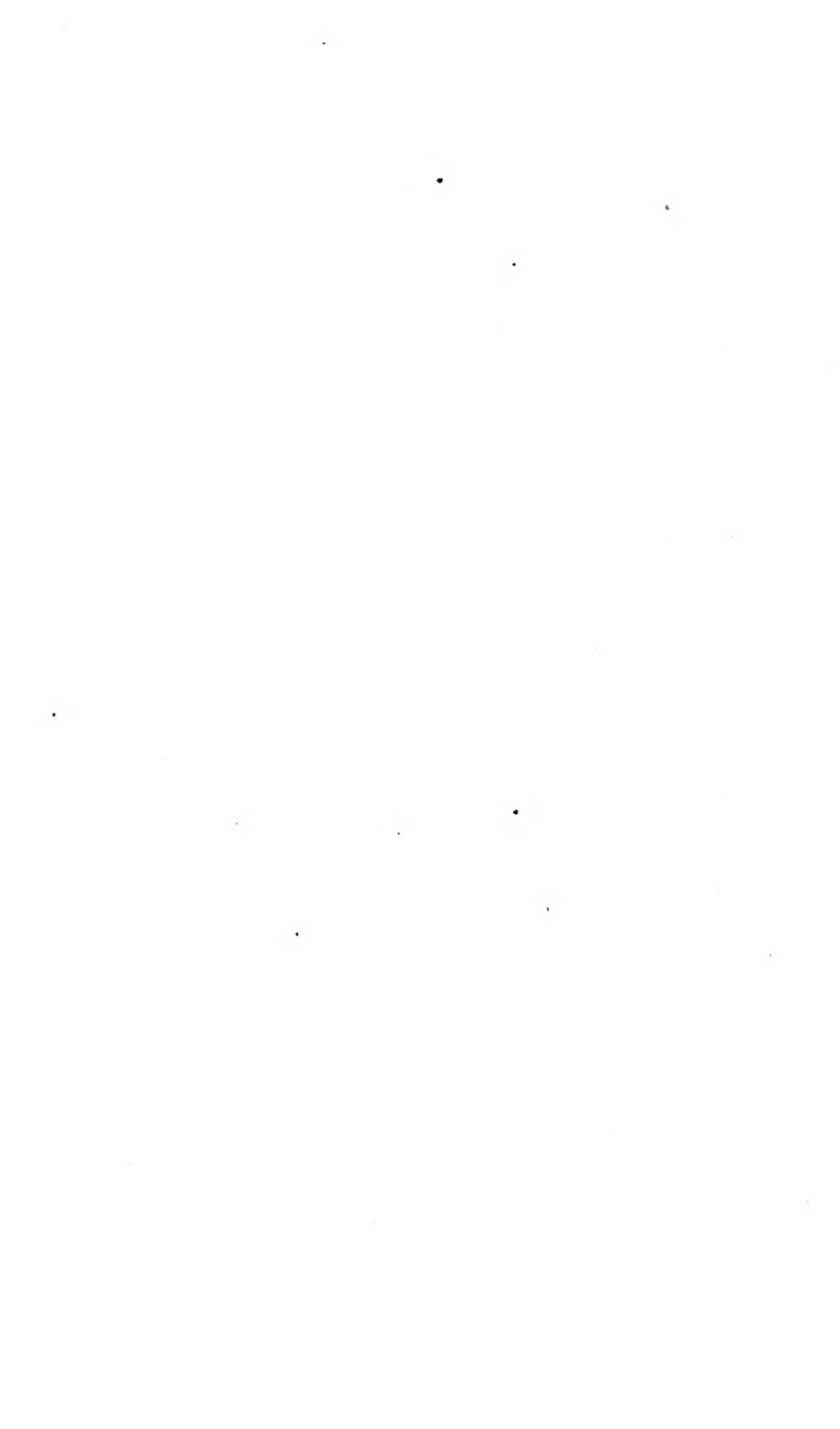


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DEPARTMENT OF THE INTERIOR

BULLETINS

OF THE

UNITED STATES

GEOLOGICAL SURVEY

No. 71



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1892

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J. W. POWELL, DIRECTOR

INDEX

TO THE KNOWN

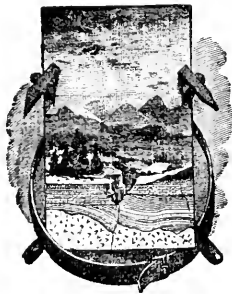
FOSSIL INSECTS OF THE WORLD

INCLUDING

MYRIAPODS AND ARACHNIDS

BY

SAMUEL HUBBARD SCUDDER



WASHINGTON
GOVERNMENT PRINTING OFFICE
1891

CONTENTS.

Letter of transmittal.....	7
I. PALEOZOIC FOSSILS	9
Myriapoda.....	9
Arachnida.....	18
Palæodictyoptera.....	30
The orthopteroid series.....	30
The neuropteroid series.....	70
The hemipteroid series.....	92
The coleopteroid series.....	96
Others.....	98
II. MESOZOIC FOSSILS	98
Myriapoda.....	98
Arachnida.....	99
Hexapoda.....	100
Orthoptera.....	101
Neuroptera.....	130
Hemiptera.....	165
Coleoptera.....	177
Diptera.....	221
Lepidoptera.....	227
Hymenoptera.....	228
Tracks and foot-prints.....	233
III. CENOZOIC FOSSILS	237
Myriapoda.....	237
Arachnida.....	244
Hexapoda.....	301
Orthoptera.....	301
Neuroptera.....	318
Hemiptera.....	380
Coleoptera.....	450
Diptera.....	595
Lepidoptera.....	671
Hymenoptera.....	682
Index of genera.....	735

LETTER OF TRANSMITTAL

DEPARTMENT OF THE INTERIOR,
U. S. GEOLOGICAL SURVEY,
CAMBRIDGE, MASS., *July 7, 1890.*

SIR: With the view of furthering study in the too neglected field of fossil insects, I transmit herewith for publication the card catalogue of described fossil insects which I have used for twenty years and kept constantly up to date, and which has greatly facilitated my own researches. It is believed to be practically complete. At least where insects are figured, and in many other cases where they are the first or only references from a given locality, entries are given where only the genus, the family, or even the order is mentioned. This has been done because the early literature of fossil insects is essentially vague and general, but it should not for that reason be wholly overlooked; and to-day our knowledge of the occurrence of insects of a particular locality, even when of recent discovery, is not infrequently confined to statements of a general nature, which, if not brought to view or mind in a list like this, would be lost sight of, while their recognition may lead to further local investigation, to the earlier benefit of science.

It is in no sense a systematic catalogue, and except occasionally in the notes contains no immediate results of investigation. No questions of synonymy are settled. The entries are made as the authors quoted gave them, with only the corrections of spelling required; it follows that the same insect appears at several points, to which the student is referred by full cross-references, and that more than one insect may (though probably rarely does) figure under one name. In one or two such instances, where the same name has been given by inadvertence to two totally different creatures, the later one is separated from the earlier.

For convenience' sake, the entries are grouped into large sections, nearly identical with those I have employed in my systematic review of fossil insects (Bulletin 31, U. S. Geological Survey), by which method the insects from the Primary, Secondary, and Tertiary rocks are kept distinct; but otherwise the entries are purely alphabetical under the orders. It should be noticed, however, that the vague references to groups higher than genera are brought together at the beginning of each alphabet, first the most vague, and then those which permit some alphabetization. In these cases the primary or secondary alphabet-

ization is first by authors, second by dates, and in all cases where under one entry there is more than one date the order therein is chronological.

In a previous bulletin (Bulletin 69, U. S. Geological Survey) is given a complete bibliography of the literature from which these entries are taken, and the two works are thus complementary to each other.

I am, very truly, yours,

SAMUEL H. SCUDDER.

Hon. J. W. POWELL,

Director United States Geological Survey.

INDEX TO DESCRIBED FOSSIL INSECTS.

BY SAMUEL HUBBARD SCUDDER.

I.—PALEOZOIC FOSSILS.

MYRIAPODA.

1. *Acantherpestes brodiei*. (Euphoberidæ.)

Locality: Coalbrookdale, England. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 156-157. Pl. 11, *fig.* 5.
1885. " Zittel, Handb. palaeont., i, th. ii: 729.
1886. " Zittel-Barrois, Traité de paléont., ii: 728.
1886. " Bull. U. S. geol. surv., No. 31: 16.
1890. " Foss. ins. N. A., i: 208-209. Pl. 8, *fig.* 5.

See also *Euphoberia ferox*, *Eurypterus ferox*.

2. *Acantherpestes inequalis*. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 424-425. Pl. 33, *figs.* 2, 4.
1890. " Foss. ins. N. A., i: 400-401. Pl. 25, *figs.* 2, 4.

3. *Acantherpestes major*. (Euphoberidæ.)

Locality: Mazou Creek, Ill. Horizon: Carboniferous.

1868. Meek-Worth. Geol. surv. Ill., iii: 559 (hypothetical).
1882. Scudder. Mem. Bost. soc. nat. hist., iii: 150-156. Pl. 10, 11, *figs.* 1-4, 6-8, 10, 11; *fig.* 5 on p. 151.
1883. Laccoe. List pal. foss. ins., 15-16.
1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 729. *Fig.* 827 a-c on p. 728.
1886. " Zittel-Barrois, Traité de paléont., ii: 728. *Fig.* 914 a-c on p. 727
1886. " Bull. U. S. geol. surv., No. 31: 16.
1887. Woodward. Geol. mag., (3), iv: 2. *Fig.* 3.
1889. Lesley. Dict. foss. Penns., i: 1, i. *Figs.*
1889. Miller. N. A. geol. and pal., 572. *Fig.* 1067.
1890. Scudder. Mem. Bost. soc. nat. hist., iv: 424.
1890. " Foss. ins. N. A., i: 202-208. 400. Pl. 7a, 8, *figs.* 1-4, 6-8, 10, 11; *fig.* 5 on p. 203.

See also *Euphoberia major*.

4. *Amynilyspes wortheni*. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 178. Pl. 13, *figs.* 1-4, 9.
1883. Laccoe. List pal. foss. ins., 16.
1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 729. *Fig.* 899.
1886. " Zittel-Barrois, Traité de paléont., ii: 728. *Fig.* 916.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 16.
 1889. Lesley. Dict. foss. Penns., i: 25, v. *Fig.*
 1889. Miller. N. A. geol. and pal., 572. *Fig.* 1068.
 1890. Scudder. Foss. ins. N. A., i: 230. *Pl.* 10, *figs.* 1-4, 9.

5. *Anthracerpes typus*.

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1865. Meek-Worth. Proc. acad. nat. sc. Philad., 1865: 51.
 1866. " Worth., Geol. surv. Ill., ii: 409-410. *Pl.* 32, *figs.* 1, 1a.
 1882. Scudder. Mem. Bost. soc. nat. hist., iii: 180.
 1883. Lacoe. List pal. foss. ins., 16.
 1889. Lesley. Dict. foss. Penns., i, p. v.
 1889. Miller. N. A. geol. and pal., 572.
 1890. Scudder. Foss. ins. N. A., i: 232.

6. *Archidesmus macnicoli*. (Archidesmidae.)

Locality: Forfarshire, Scotland. Horizon: Lower Devonian.

1882. Peach. Proc. roy. phys. soc. Edinb., vii: 182-186. *Pl.* 2, *fig.* 2, 2 a-d.
 1882. " Foss. myr. Forfarsh., 5-9. *Pl.*, *figs.* 2, 2 a-d.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 728. *Fig.* 896.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 727. *Fig.* 913.
 1886. " Bull. U. S. geol. surv., No. 31: 15.

7. *Archiulus* ———. (2 sp.). (Archiulidae.)

Locality: Joggins, Nova Scotia. Horizon: Carboniferous.

1883. Scudder. Phil. trans., 1882: 649.

8. *Archiulus* ———. (Archiulidae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 437. *Pl.* 37, *fig.* 1.
 1890. " Foss. ins. N. A., i: 413. *Pl.* 29, *fig.* 1.

9. *Archiulus (Julus) brassi*. (Archiulidae.)

Locality: Lehbach, Germany. Horizon: Lower Dyas.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 730. *Fig.* 901.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 729. *Fig.* 917.

See also *Julus brassi*.

Archiulus dawsoni. See *Xylobius dawsoni*.

10. *Archiulus glomeratus*. (Archiulidae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 436-437. *Pl.* 37, *figs.* 2, 3.
 1890. " Foss. ins. N. A., i: 412-413. *Pl.* 29, *figs.* 2, 3.

11. *Archiulus xylobioides*. (Archiulidae.)

Locality: Joggins, Nova Scotia. Horizon: Carboniferous.

1868. Scudder. Dawson, Acad. geol., 2d ed., 496.
 1869. " Quart. journ. geol. soc. Lond., xxv: 441 (undescrib.).
 1873. " Mem. Bost. soc. nat. hist., ii: 236-238.
 1878. " Suppl. note foss. Myr., 1. *Figs.* 5-7.
 1878. " Mem. Bost. soc. nat. hist., ii: 561-562. *Figs.* 5-7.

1878. Dawson. Acad. geol., suppl. 2d ed., 56. *Fig. 11 e-g.*
 1880. " Chain of life, 145. *Fig. 126 b.*
 1883. Lacoë. List pal. foss. ins., 16-17.
 1889. Lesley. Dict. foss. Penns., i, p. vii.
 1889. Miller. N. A. geol. and pal., 573. *Fig. 1069.*
 1890. Scudder. Foss. ins. N. A., i: 26-28, 31-32. *Figs. 5-7.*

12. *Arthropleurion inermis.*

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna saræp. foss., ii: 48-49 (*Arthropleurion*). *Pl. fig. 2, 30.*
 1882. Scudder. Mem. Bost. soc. nat. hist., iii: 180.
 1890. " Foss. ins. N. A., i: 232.

Arthropleurion inermis. See *Arthropleurion inermis.*

13. *Chonionotus lithanthracis.* (Euphoberidæ.)

Locality: Jüegersfreude, Germany. Horizon: Carboniferous.

1854. Jordan. Palaeontogr., iv: 12-13. *Pl. 2, fig. 3.*
 1867. Goldenberg. Vorweltl. fauna steinl. Saarbr., 21.
 1873. " Faun. saræp. foss., i: 21. *Pl. 1, fig. 19.*
 1882. Scudder. Mem. Bost. soc. nat. hist., iii: 180. *Pl. 11, fig. 9.*
 1885. " Zittel, Handb. palæont., i, th. ii: 729 (*lithanthracis*).
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 728.
 1886. " Bull. U. S. geol. surv., No. 31: 16.
 1890. " Foss. ins. N. A., i: 232. *Pl. 8, fig. 9.*

14. *Eileticus æqualis.* (Eoscolopendridæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 421. *Pl. 38, figs. 6-9.*
 1890. " Foss. ins. N. A., i: 397. *Pl. 30, figs. 6-9.*

15. *Eileticus anthracinus.* (Eoscolopendridæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 179. *Pl. 13, figs. 5, 6.*
 1883. Lacoë. List pal. foss. ins., 17.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 729.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 728.
 1886. " Bull. U. S. geol. surv., No. 31: 16.
 1889. Miller. N. A. geol. and pal., 573.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 420-421. *Pl. 38, fig. 5.*
 1890. " Foss. ins. N. A., i: 231, 396-397. *Pl. 10, figs. 5, 6; Pl. 30, fig. 5.*

16. *Eojulus fragilis.* (Archilulidæ?)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1885. Kušta. Neue foss. arthrop. Rakonitz, 4-5. *Fig.*
 1885. " Sitzungsab. k. böhm. gesellsch. wiss., 1885: 593-594. *Fig.*

17. *Euphoberia* ———. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 435.
 1890. " Foss. ins. N. A., i: 411.

18. Euphoberia anguilla. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 177. *Pl. 12, fig. 20.*
 1883. Lacoe. List pal. foss. ins., 17.
 1889. Lesley. Dict. foss. Penns., i, p. xxiii.
 1889. Miller. N. A. geol. and pal., 573.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426, 435-436. *Pl. 36, fig. 3.*
 1890. " Foss. ins. N. A., i: 229, 402, 411-412. *Pl. 9, fig. 20; Pl. 28, fig. 3.*

19. Euphoberia armigera. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1868. Meek-Worth. Amer. journ. sc. arts, (2), xlvi: 25-27.
 1868. " Worth., Geol. surv. Ill., iii: 556-558. *Figs. A-D.*
 1876. Roemer. Lethæa geogn. (Euphoberia). *Pl. 47, fig. 19.*
 1879. Nicholson. Manual palæont., 2d ed., i: 404. *Fig. 255.*
 1882. Scudder. Mem. Bost. soc. nat. hist., iii: 160-167. *Pl. 12, figs. 1-3, 5, 6, 13; Pl. 13, figs. 7, 8, 10; figs. 6, 7 on p. 161.*
 1883. Lacoe. List pal. foss. ins., 17.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 729. *Fig. 898.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 728. *Fig. 915.*
 1889. Nicholson. Man. palæont., 3d ed., i: 584. *Fig. 439.*
 1889. Miller. N. A. geol. and pal., 573. *Figs. 1070, 1071 (not 1072).*
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426, 427. *Pl. 34, figs. 2, 4, 8; Pl. 35, fig. 3.*
 1890. " Foss. ins. N. A., i: 212-219, 402, 403. *Pl. 9, figs. 1-3, 5, 6, 13; Pl. 10, figs. 7, 8, 10; Pl. 26, figs. 2, 4, 8; Pl. 27, fig. 3: figs. 6, 7 on p. 213.*

20. Euphoberia brownii. (Euphoberidæ.)

Locality: Kilmaurs, Scotland. Horizon: Carboniferous.

1871. Woodward. Geol. mag., viii: 102-104. *Pl. 3, fig. 6 a-c.*
 1882. Scudder. Mem. Bost. soc. nat. hist., iii: 167-168. *Pl. 12, figs. 7, 8, 21.*
 1890. " Foss. ins. N. A., i: 219-220. *Pl. 9, figs. 7, 8, 21.*

21. Euphoberia carri. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 171-174. *Pl. 12, figs. 4, 9-12, 14-19; Pl. 13, figs. 16-18.*
 1883. Lacoe. List pal. foss. ins., 18.
 1889. Lesley. Dict. foss. Penns., i, p. xxiv.
 1889. Miller. N. A. geol. and pal., 573.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426, 429.
 1890. " Foss. ins. N. A., i: 223-226, 402, 405. *Pl. 9, figs. 4, 9-12, 14-19; Pl. 10, figs. 16-18.*

22. Euphoberia cuspidata. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426, 429-430. *Pl. 34, figs. 3, 7.*
 1890. " Foss. ins. N. A., i: 402, 405-406. *Pl. 26, figs. 3, 7.*

23. Euphoberia ferox. (Euphoberidæ.)

Localities: Tipton, N. Staffordshire, Coalbrookdale, Sedgley, Grassington, Coseley, Yorkshire, England. Horizon: Carboniferous.

1845. Brodie. Foss. ins. sec. rocks Engl., 105, 115 ("caterpillar"). *Pl. 1, fig. 11.*
 1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., xvii-xviii ("caterpillar").

1868. Meek-Worth. Amer. jouru. sc. arts, (2), xlvi: 26-27.
 1873. Woodward. Geol. mag., x: 109-112. *Figs.* 8, 10.
 1873. " Brit. foss. arthur., 6-9. *Figs.* 8, 10.
 1882. Scudder. Mem. Bost. soc. nat. hist., iii: 157-158. *Pl.* 12, *fig.* 23.
 1887. Woodward. Geol. mag., (3), iv: 6-10. *Pl.* 1, *figs.* 1-13; *figs.* 1-3 in text.
 1887. " Geol. mag., (3), iv: 116-117. *Figs.* 1, 2 in text.
 1890. Scudder. Foss. ins. N. A., i: 209-210. *Pl.* 9, *fig.* 23.

See also *Acantherpestes brodiei*, *Eurypterus ferox*.

24. *Euphoberia flabellata*. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 174-177. *Pl.* 13, *fig.* 15.
 1883. Lacoë. List pal. foss. ins., 18.
 1889. Miller. N. A. geol. and pal., 573.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426.
 1890. " Foss. ins. N. A., i: 226-229, 402. *Pl.* 10, *fig.* 15.

25. *Euphoberia granosa*. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 168-170. *Pl.* 12, *figs.* 22, 24-26;
Pl. 13, *fig.* 13; *fig.* 8 in text.
 1883. Lacoë. List pal. foss. ins., 18.
 1889. Lesley. Dict. foss. Penns., i, p. xxiv.
 1889. Miller. N. A. geol. and pal., 573. *Fig.* 1072.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426, 427-428. *Pl.* 34, *figs.* 5, 6; *Pl.*
 36, *fig.* 2.
 1890. " Foss. ins. N. A., i: 220-222, 402, 403-404. *Pl.* 9, *figs.* 22, 24-26;
Pl. 10, *fig.* 13; *Pl.* 26, *figs.* 5, 6; *Pl.* 28, *fig.* 2; *fig.* 8 on p. 220.

26. *Euphoberia horrida*. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 158-160. *Pl.* 13, *figs.* 11, 12, 14.
 1883. Lacoë. List pal. foss. ins., 18.
 1889. Lesley. Dict. foss. Penns., i, p. xxiv.
 1889. Miller. N. A. geol. and pal., 573.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426.
 1890. " Foss. ins. N. A., i: 210-212, 402. *Pl.* 10, *figs.* 11, 12, 14.

27. *Euphoberia hystriosa*. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426. *Pl.* 33, *figs.* 1, 3.
 1890. " Foss. ins. N. A., i: 402. *Pl.* 25, *figs.* 1, 3.

28. *Euphoberia major*. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1868. Meek-Worth. Amer. jouru. sc. arts, (2), xlvi: 25-27.
 1868. " Worth., Geol. surv. Ill., iii: 558-559. *Fig.*
 1872? Woodward. Monogr. Merost., 172. *Fig.*
 1873. " Geol. mag., x: iii. *Fig.* 11.

See also *Acantherpestes major*.

29. *Euphoberia simplex*. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426, 432-433. *Pl.* 35, *figs.* 2, 6, 7.
 1890. " Foss. ins. N. A., i: 402, 408-409, *Pl.* 27, *figs.* 2, 6, 7.

30. Euphoberia spinulosa. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426, 430-432. *Pl. 34, fig. 1; Pl. 35, figs. 1, 4, 5; Pl. 36, figs. 7, 8.*
1890. " Foss. ins. N. A., i: 402, 406-408. *Pl. 26, fig. 1; Pl. 27, figs. 1, 4, 5; Pl. 28, figs. 7, 8.*

31. Euphoberia tracta. (Euphoberidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 426, 433-435. *Pl. 36, figs. 1, 4-6.*
1890. " Foss. ins. N. A., i: 402, 409-411. *Pl. 28, figs. 1, 4-6.*

Euphorberia armigera. See *Euphoberia armigera*.**32. Eurypterus ferox.** (Euphoberidæ.)

Locality: Tipton, N. Staffordshire, England. Horizon: Carboniferous.

1863. Salter. Quart. journ. geol. soc. Lond., xix: 86-87. *Fig. 8 on p. 84.*
- See also *Euphoberia ferox*, *Acantherpestes brodiei*.

33. Ilyodes divisa. (Eoscolopendridæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 422-423. *Pl. 38, fig. 1.*
1890. " Foss. ins. N. A., i: 398-399. *Pl. 30, fig. 1.*

34. Ilyodes elongata. (Eoscolopendridæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 423. *Pl. 38, fig. 2.*
1890. " Foss. ins. N. A., i: 399. *Pl. 30, fig. 2.*

35. Julus brassi. (Archiulidæ?)

Locality: Lehbach, Germany. Horizon: Lower Dyas.

1868. Dohrn. Verhandl. naturh. ver. preuss. Rheinl., (3), v: 335-336. *Pl. 6, fig. 2 a-b.*
1877. Goldenberg. Fauna saræp. foss., ii: 33, 51.
1882. Scudder. Mem. Bost. soc. nat. hist., iii: 148.
1885. " Zittel, Handb. palæont., i, th. ii: 730.
1886. " Zittel-Barrois, Traité de paléont., ii: 729.
1886. " Bull. U. S. geol. surv., No. 31: 17.
1890. " Foss. ins. N. A., i: 200.

See also *Archiulus* (*Julus*) *brassi*.**36. Julus constans.** (Archiulidæ?)

Locality: Nyřan, Bohemia. Horizon: Permian.

1879. Fritsch. Fauna d. gaskohle Böhmens, i: 31.

37. Julus costulatus. (Archiulidæ?)

Locality: Nyřan, Bohemia. Horizon: Permian.

1879. Fritsch. Fauna d. gaskohle Böhmens, i: 31.

38. Julus pictus. (Archiulidæ?)

Localities: Kounová, Zaboř, Bohemia. Horizon: Permian.

1879. Fritsch. Fauna d. gaskohle Böhmens, i: 31.

39. Kampecaris forfarensis. (Archidesmidæ.)

Locality: Forfarshire, Scotland. Horizon: Lower Devonian.

1856. Page. Adv. text book geol., 135 (genus only). *Fig. 4.*
 [1865. Salt.-Woodw. Chart foss. Crust.]
 1882. Peach. Proc. roy. phys. soc. Edinb., vii: 179-182. *Pl. 2, figs. 1, 1 a-f.*
 1882. " Foss. myr. Forfarsh., 3-5. *Pl., figs. 1, 1 a-f.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 728.
 1886. " Zittel-Barrois, Traité de paléont., ii: 727.
 1886. " Bull. U. S. geol. surv., No. 31: 15.

40. Latzelia primordialis. (Gerascutigerida.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 419. *Pl. 38, fig. 3.*
 1890. " Foss. ins. N. A., i: 395. *Pl. 30, fig. 3.*

41. Palæocampa anthrax. (Protosygnatha.)

Locality: Morris, Ill. Horizon: Carboniferous.

1865. Meek-Worth. Proc. acad. nat. sc. Philad., 1865: 52.
 1866. " Worth., Geol. surv. Ill., ii: 410-411. *Pl. 32, fig. 3.*
 1868. " Worth., Geol. surv. Ill., iii: 565.
 1868. Scudder. Geol. mag., v: 218.
 1882. " Amer. jour. sc., (3), xxiv: 161-170.
 1883. Lacoe. List pal. foss. ins., 18-19.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 283-291, 293-297. *Pl. 26, figs. 1-9.*
 1885. " Zittel, Handb. palæont., i, th. ii: 726. *Fig. 894ab.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 725. *Fig. 911ab.*
 1886. " Bull. U. S. geol. surv., No. 31: 14.
 1889. Miller. N. A. geol. and pal., 573.
 1889. Nicholson. Man. palæont., 3d ed., i: 583. *Fig. 438.*
 1890. Lesley. Dict. foss. Penns., ii: 579. *Fig.*
 1890. Scudder. Foss. ins. N. A., i: 247-255, 257-260. *Pl. 12, figs. 1-9.*

42. Palæojulus dyadicus.

Locality: Chemnitz, Saxony. Horizon: Dyas.

1872. Geinitz. Sitzungsab. naturw. gesellsch. Isis, 1872: 128-131. *Pl. 1, figs. 4-7.*
 1877. Goldenberg. Fauna saraep. foss., ii: 34, 51.
 1878. Sterzel. Neues jahrb. min., 1878: 729-731 (Cyclopteris).
 1878. Geinitz. Neues jahrb. min., 1878: 733.
 1878. Sterzel. Zeitschr. deutsch. geol. gesellsch., xxx: 417-426. *Pl. 19, figs. 1-11.*
 1880. " Zeitschr. deutsch. geol. gesellsch., xxxii: 1-2.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 730.
 1886. " Zittel-Barrois, Traité de paléont., ii: 729.
 1886. " Bull. U. S. geol. surv., No. 31: 17.

[Not a Myriapod.]

43. Palenarthrus impressus. (Eoscolopendridæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 422. *Pl. 38, fig. 4.*
 1890. " Foss. ins. N. A., i: 395. *Pl. 30, fig. 4.*

44. Trichiulus ammonitiformis.

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1883. Scudder. MSS.
 1883. Lacoe. List pal. foss. ins., 19.

1884. Scudder. Mem. Bost. soc. nat. hist., iii : 292-293. *Pl. 27, fig. 4.*
 1886. " Mem. Bost. soc. nat. hist., iii : 438 (fern).
 1889. Miller. N. A. geol. and pal., 573.
 1890. Scudder. Foss. ins. N. A., i : 256-257, 330. *Pl. 13, fig. 4.*
 [Not a Myriapod.]

45. *Trichiulus nodulosus.*

Locality : Mazon Creek, Ill. Horizon : Carboniferous.

1883. Scudder. MSS.
 1883. Lacoe. List pal. foss. ins., 19.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii : 292. *Pl. 27, figs. 1, 3.*
 1886. " Mem. Bost. soc. nat. hist., iii : 438 (fern).
 1889. Miller. N. A. geol. and pal., 573.
 1890. Scudder. Foss. ins. N. A., i : 256, 330. *Pl. 13, figs. 1, 3.*
 [Not a Myriapod.]

46. *Trichiulus villosus.*

Locality : Mazon Creek, Ill. Horizon : Carboniferous.

1883. Scudder. MSS.
 1883. Lacoe. List pal. foss. ins., 19.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii : 291-292. *Pl. 27, fig. 2.*
 1885. " Zittel, Handb. palaeont., i, th. ii : 729. *Fig. 900.*
 1889. Miller. N. A. geol. and pal., 574.
 1890. Scudder. Foss. ins. N. A., i : 255-256, 330 (fern). *Pl. 13, fig. 2.*
 [Not a Myriapod.]

47. *Xylobius dawsoni.* (Archiulidæ.)

Locality : Joggins, Nova Scotia. Horizon : Carboniferous.

1868. Scudder. Dawson, Acad. geol., 2d ed., 496.
 1869. " Quart. journ. geol. soc. Lond., xxv : 441 (undescrib.).
 1873. " Mem. Bost. soc. nat. hist., ii : 235-236.
 1878. " Mem. Bost. soc. nat. hist., ii : 561. *Fig. 4.*
 1878. " Suppl. note foss. Myr., 1. *Fig. 4.*
 1878. Dawson. Acad. geol., suppl. 2d ed., 56 (*Archiulus*). *Fig. 11d.*
 1883. Lacoe. List pal. foss. ins., 19.
 1889. Miller. N. A. geol. and pal., 574.
 1890. Scudder. Foss. ins. N. A., i : 25-26, 31. *Fig. 4.*

Xylobius farctus. See *Xylobius fractus.*

48. *Xylobius fractus.* (Archiulidæ.)

Locality : Joggins, Nova Scotia. Horizon : Carboniferous.

1868. Scudder. Dawson, Acad. geol., 2d ed., 496.
 1869. " Quart. journ. geol. soc. Lond., xxv : 441 (undescrib.).
 1873. " Mem. Bost. soc. nat. hist., ii : 234-235.
 1878. " Mem. Bost. soc. nat. hist., ii : 561. *Fig. 3.*
 1878. " Suppl. note foss. Myr., 1. *Fig. 3.*
 1878. Dawson. Acad. geol., suppl. 2d ed., 56 (*farctus*). *Fig. 11c.*
 1880. " Chain of life, 145 (*farctus*). *Fig. 126c.*
 1882. Scudder. Mem. Bost. soc. nat. hist., iii : 148.
 1883. Lacoe. List pal. foss. ins., 19.
 1889. Miller. N. A. geol. and pal., 574.
 1890. Scudder. Foss. ins. N. A., i : 24-25, 31, 200. *Fig. 3 on p. 31.*

49. Xylobius frustulentus. (Archiulidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 438-439. *Pl. 37, figs. 4-6.*
 1890. " Foss. ins. N. A., i: 414-415. *Pl. 29, figs. 4-6.*

Xylobius mazonius. See *Xylobius mazonus*.**50. Xylobius mazonus.** (Archiulidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 730. *Fig. 902b.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 729. *Fig. 918b.*
 1889. Miller. N. A. geol. and pal., 574 (mazonius).
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 439-440. *Pl. 37, figs. 7-11.*
 1890. " Foss. ins. N. A., i: 415-416. *Pl. 29, figs. 7-11.*

51. Xylobius sigillariæ. (Archiulidæ.)

Localities: Joggins, N. S., Bradley, Cooper's Bridge, Hendersfield, England; Kilmaurs, near Glasgow, Scotland. Horizon: Carboniferous.

1859. Dawson. Quart. journ. geol. soc. Lond., xvi: 271-273. *Figs. 4-9.*
 1863. " Can. nat. and geol., viii: 280. *Pl. 6, figs. 57-61.*
 1865. Lyell. Elem. geol., 6th ed., 509. *Fig. 562 a-c.*
 1867. Woodward. Trans. geol. soc. Glasg., ii: 234-237. *Pl. 3, figs. 11-13, 11a=13a.*
 1867. Binney. Proc. lit. phil. soc. Manch., vi: 59.
 1867. " Geol. mag., iv: 132.
 1868. Scudder. Geol. mag., v: 216.
 1868. " Amer. nat., i: 630. *Pl. 16, fig. 4.*
 1868. " Dawson, Acad. geol., 2d ed., 495-496.
 1869. " Quart. journ. geol. soc. Lond., xxv: 441.
 1872. Packard. Guide ius., 3d ed., 78. *Pl. 1, fig. 4.*
 1873. Scudder. Mem. Bost. soc. nat. hist., ii: 232-233.
 1877. Goldenberg. Fauna sarap. foss., ii: 34.
 1877. Nicholson. Life-hist. earth, 182. *Fig. 124 a-c.*
 1878. Scudder. Mem. Bost. soc. nat. hist., ii: 561. *Fig. 1.*
 1878. " Suppl. note foss. Myr., 1. *Fig. 1.*
 1878. Dawson. Acad. geol., suppl. 2d ed., 56. *Fig. 11a.*
 1879. Nicholson. Man. paleont., 2d ed., i: 403. *Fig. 254.*
 1880. Dawson. Chain of life, 145. *Fig. 126a.*
 1882. Scudder. Mem. Bost. soc. nat. hist., iii: 148.
 1883. Lacoe. List pal. foss. ins., 19-20.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 730. *Fig. 902a.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 729. *Fig. 918a.*
 1889. Miller. N. A. geol. and pal., 574. *Figs. 1073, 1073a.*
 1889. Nicholson. Man. paleont., 3d ed., i: 585. *Fig. 440.*
 1890. Scudder. Foss. ins. N. A., i: 22-23, 31, 200. *Fig. 1 on p. 31.*

See also *X. woodwardii*.**52. Xylobius similis.** (Archiulidæ.)

Locality: Joggins, N. S. Horizon: Carboniferous.

1868. Scudder. Dawson, Acad. geol., 2d ed., 496.
 1869. " Quart. journ. geol. soc. Lond., xxv: 441 (undescribed).
 1873. " Mem. Bost. soc. nat. hist., ii: 233-234.
 1878. " Mem. Bost. soc. nat. hist., ii: 561. *Fig. 2.*
 1878. " Suppl. note foss. Myr., 1. *Fig. 2.*

1878. Dawson. Acad. geol., suppl. 2d ed., 56. *Fig. 11b.*
 1883. Lacoë. List pal. foss. ins., 20.
 1889. Miller. N. A. geol. and pal., 574.
 1890. Scudder. Foss. ins. N. A., i: 23-24, 31. *Fig. 2.*

53. *Xylobius woodwardii*. (Archinulidæ.)

Locality: Kilmaurs, Huddersfield, England. Horizon: Carboniferous.

1869. Scudder. Quart. journ. geol. soc. Lond., xxv: 441 (undescrib.).
 1873. " Mem. Bost. soc. nat. hist., ii: 238-239.
 1882. " Mem. Bost. soc. nat. hist., iii: 148.
 1890. " Foss. ins. N. A., i: 28-29, 200.

See also *X. sigillariæ*.

ARACHNIDA.

54. ————.

Locality: Wettin, Germany. Horizon: Carboniferous.

1886. Kliver. Palaeontogr., xxxii: 112-113. *Pl. 14, figs. 14, 14 a-b.*

55. ————.

Locality: Bohemia. Horizon: Carboniferous.

1852. Reuss. Geogn. verhältn. Böhmens, 59.

56. ————. (Anthracomarti.)

Locality: Steinbachtal, Saarbrück, Germany. Horizon: Carboniferous.

1886. Kliver. Palaeontogr. xxxii: 110-112. *Pl. 14, fig. 11.*
 1886. Karsch. Palaeontogr. xxxii: 111-112.

57. ————. (Eoscorpionidæ.)

Locality? Horizon: Carboniferous.

1889. Nicholson. Man. palaeont., 3d ed., i: 573. *Fig. 430 c-d.*

58. ————. (Palæophonoidæ.)

Locality: Lesmahagow, Scotland. Horizon: Upper Silurian.

1885. Peach. Nature, xxxi: 297 (scorpion). *Fig. 2.*
 See also *Palæophonus* ————, *Palæophonus caledonicus*.

59. ————. (Scorpiones.)

Locality: Chomle, Bohemia. Horizon: Carboniferous.

1837. Buckland. Geol. and mineral., ii: 79. *Pl. 46'', fig. 13.*
 1838. " Géologie, éd. Agassiz, ii: expl. pl. 46'', p. 6. *Pl. 46'', fig. 13.*

60. ————. (Scorpiones.)

Locality: Scotland. Horizon: Carboniferous.

1882. Peach. Trans. roy. soc. Edinb., xxx: 406-407. *Pl. 22, figs. 4-6; Pl. 23, figs. 13-15, 17-21.*

61. ————. (Scorpiones.)

Locality: Joggins, N. S. Horizon: Carboniferous.

1883. Scudder. Phil. trans., 1882: 650.

62. Anthracomartus ———. (Architarboidea.)

Locality: Petrovic near Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. česke společn. nauk, 1888: 199.

63. Anthracomartus affinis. (Architarboidea.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1885. Kušta. Sitzungsber. böhm. gesellsch. wiss., 1884: 399-400. *Pl.*, fig. 2.

1885. " Neue arachniden, 4-5. *Pl.*, fig. 2.

64. Anthracomartus carbonis. (Architarboidea.)

Locality: Mons, Belgium. Horizon: Carboniferous.

1885. Scudder. Comptes rend. soc. ent. Belg., (3), lxii: 84-85.

1885. " Anthr. carb., 1-2.

See also *Brachypyge carbonis*.

Anthracomartus hageni. See *Termes hageni*, etc.

65. Anthracomartus krejčíi. (Architarboidea.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1883. Kušta. Sitzungsber. böhm. gesellsch. wiss., 1883: 340-345. *Pl.*, figs. 1-3.

1883. " *Anthracomartus krejčíi*, 3-7. *Pl.*, figs. 1-3.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 17.

See also *A. minor*.

66. Anthracomartus minor. (Architarboidea.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1884. Kušta. Sitzungsber. böhm. gesellsch. wiss., 1884: 191.

1884. " *Thelyphonus bohemicus*, 7 (name only).

1884. " Sitzungsber. böhm. gesellsch. wiss., 1884: 393-399. *Pl.*, fig. 1.

1885. " Neue arachniden, 3-4. *Pl.*, fig. 1.

1885. " Neue foss. arthrop. Rak., 6 (printed *krejčíi* but corrected in MSS. to *minor*).

See also *A. krejčíi*.

67. Anthracomartus pustulatus. (Architarboidea.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 18.

1889. Lesley. Dict. foss. Penn., i, p. v.

1889. Miller. N. A. geol. and pal., 570.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 452-453. *Pl.* 40, figs. 5, 8.

1890. " Foss. ius. N. A., i: 428-429. *Pl.* 32, figs. 5, 8.

68. Anthracomartus socius. (Architarboidea.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. česke společn. nauk, 1888: 198-199, 204-205. *Pl.* fig. 4.

69. Anthracomartus trilobitus. (Architarboidea.)

Locality: Fayetteville, Ark. Horizon: Carboniferous.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 17-18.

1885. " Comptes rend. soc. ent. Belg., (3), lxii: 85. *Fig.* on p. 84.

1885. " Anthr. carbonis, 2. *Fig.* on p. 1.

1886. Harvey. Proc. acad. nat. sc. Philad., 1886: 231-232.
 1889. Lesley. Dict. foss. Penns., i, p. v.
 1889. Miller. N. A. geol. and pal., 570.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 451-452. *Pl. 39, figs. 7-10.*
 1890. " Foss. ins. N. A., i: 427-428. *Pl. 31, figs. 7-10.*

70. Anthracomartus völkelianus. (Architarboidæ.)

Locality: Neurode, Schlesien. Horizon: Carboniferous.

1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 556-558, 560, 561. *Pl. 21, figs. 1, 2.*
 1884. Scudder. Proc. Amer. acad. arts sc., xx: 17.
 1885. " Zittel, Handb. palaeont., i, th. ii: 736. *Fig. 911.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 735. *Fig. 927.*

71. Anthracoscorpio juvenis. (Eoscorpoidæ.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. česke spolecn. nauk, 1888: 202-203, 206.
 See also Cyclophthalmus senior, etc.

72. Aranea ———.

Locality: Coalbrookdale, England. Horizon: Carboniferous.

1834. Prestwich. Lond. Edinb. phil. mag., iv: 376.

73. Architarbus elongatum. (Architarboidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 449-450. *Pl. 40, fig. 4.*
 1890. " Foss. ins. N. A., i: 425-426. *Pl. 32, fig. 4.*

74. Architarbus rotundatum. (Architarboidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1868. Scudder. Worth., Geol. surv. Ill., iii: 568 (rotundatus). *Fig. 4.*
 1872. Woodward. Geol. mag., ix: 386. *Pl. 9, fig. 2.*
 1872. " Arachn. coal meas., 2. *Pl. 9, fig. 2.*
 1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.
 1883. Lacoë. List pal. foss. ins., 20.
 1884. Scudder. Proc. Amer. acad. arts sc., xx: 17.
 1885. " Zittel, Handb. palaeont., i, th. ii: 736. *Fig. 910.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 735. *Fig. 926.*
 1886. " Bull. U. S. geol. surv., No. 31: 24.
 1889. Lesley. Dict. foss. Penns., i, p. vii.
 1889. Miller. N. A. geol. and pal., 570. *Fig. 1064.*
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 449.
 1890. " Foss. ins. N. A., i: 425.

75. Architarbus silesiacum. (Architarboidæ.)

Locality: Glatz, Silesia. Horizon: Carboniferous.

1879. Roemer. Jahresh. schles. gesellsch. vaterl. cult., lvi: 54-55 (silesiacus).
 1884. Scudder. Proc. Amer. acad. arts sc., xx: 17.
 1885. " Zittel, Handb. palaeont., i, th. ii: 736.
 1886. " Zittel-Barrois, Traité de paléont., ii: 735.
 1886. " Bull. U. S. geol. surv., No. 31: 24.

76. Architarbus subovale. (Architarboidæ.)

Localities: Burney and Padiham, Lancashire, England. Horizon: Middle carboniferous.

1872. Woodward. Geol. mag., ix: 385-387 (subovalis). *Pl. 9, fig. 1ab.*
 1872. " Arachn. coal meas., 1-3. *Pl. 9, fig. 1ab.*
 1876. Roemer. Lethæa geogn. *Pl. 47, fig. 2.*
 1877. Houghton. Journ. geol. soc. Ireland, n. s., iv: 222-223. *2 figs.*
 1879. Nicholson. Manual palæont., 2d ed., i: 401. *Fig. 252B.*
 1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.
 1884. Scudder. Proc. Amer. acad. arts sc., xx: 17.
 1885. " Zittel, Handb. palæont., i, th. ii: 736.
 1886. " Zittel-Barrois, Traité de paléont., ii: 735.
 1886. " Bull. U. S. geol. surv., No. 31: 24.
 1889. Nicholson. Man. palæont., 3d ed., i: 576. *Fig. 432b.*
 See also *Curculioides antsticii*, *Hevila antsticii*.

77. Arthrolycosa antiqua.

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1874. Harger. Am. journ. sc., (3), vii: 219-223. *Fig.*
 1883. Lacoë. List pal. foss. ins., 20.
 1884. Scudder. Proc. Amer. acad. arts sc., xx: 15.
 1885. " Zittel, Handb. palæont., i, th. ii: 735. *Fig. 909.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 734. *Fig. 925.*
 1886. " Bull. U. S. geol. surv., No. 31: 24.
 1889. Beecher. Am. journ. sc., (3), xxxviii: 219-223. *3 figs.*
 1889. Lesley. Dict. foss. Penn., i: 37, vii. *Fig.*
 1889. Miller. N. A. geol. and pal. *Fig. 1065.*
 1890. McCook. Amer. spiders, ii: 455-456. *Figs. 381-382.*

78. Brachypyge carbonis. (Architarboidæ.)

Locality: Mons, Belgium. Horizon: Carboniferous.

1878. Woodward. Geol. mag., (2), v: 433-436. *Pl. 11.*
 1878. " Fossil crab coal-meas. Belg., 1-4. *Pl. 11.*
 1878. " Bull. acad. roy. Belg., (2), xlv: 410-415. *Pl.*
 See also *Anthracomartus carbonis*.

79. Buthus carbonarius. (Eoscorpoidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1868. Meek-Worth. Am. journ. sc. arts, (2), xlvi: 22-24.
 See also *Eoscorpium carbonarius*.

Calotermes hageni. See *Termes* (*Calotermes*) *hageni*.

80. Centromachus anglicus. (Eoscorpoidæ.)

Locality: England. Horizon: Carboniferous.

1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 25.
 See also *Eoscorpium anglicus*.

81. Centromachus euglyptus. (Eoscorpoidæ.)

Locality: Scotland. Horizon: Carboniferous.

1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 21.
 See also *Eoscorpium euglyptus*.

82. Centromachus glaber. (Eoscorpoidæ.)

Locality: Scotland. Horizon: Lower Carboniferous.

1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 25.

See also *Eoscorpium glaber*.

83. Centromachus inflatus. (Eoscorpoidæ.)

Locality: Scotland. Horizon: Lower Carboniferous.

1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 25.

See also *Eoscorpium inflatus*.

84. Centromachus tuberculatus. (Eoscorpoidæ.)

Locality: Scotland. Horizon: Carboniferous.

1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 25.

See also *Eoscorpium tuberculatus*.

85. Curculioides ansticii. (Architarboidæ.)

Locality: Coalbrookdale, England. Horizon: Carboniferous.

1837. Buckland. Geol. and mineral., ii: 76. *Pl.* 46'', *fig.* 1.

1838. " Géologie, éd. Agassiz, expl. pl. 46'', pp. 1-2. *Pl.* 46'', *fig.* 1.

1838. Agassiz. Buckl., Géologie, éd. Agassiz, expl. pl. 46'', p. 2 note.

1854. Mantell. Medals of creation, 2d ed., ii: 555.

1881. Scudder. Geol. mag., (2), viii: 300.

1883. " Mem. Bost. soc. nat. hist., iii: 223.

1886. " Bull. U. S. geol. surv., No. 31: 24 (= ? *Architarbus subovale*).

1890. " Foss. ins. N. A., i: 245.

See also *Hevila ansticii*, *Architarbus subovale*.

86. Curculioides prestvicii. (Eophrynoïdæ.)

Locality: Coalbrookdale, England. Horizon: Carboniferous.

1837. Buckland. Geol. and mineral., ii: 76-77. *Pl.* 46'', *fig.* 2.

1838. " Géologie, éd. Agassiz, ii, expl. pl. 46'': pp. 3-4. *Pl.* 46'', *fig.* 2.

1854. Mantell. Medals of creation, 2d ed., 555.

1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.

See also *Duma prestvicii*, *Eophrynus prestvicii*, *Euphrynus prestvicii*.

87. Cyclophthalmus ———. (Eoscorpoidæ.)

Locality: Bohemia. Horizon: Carboniferous.

1882. Peach. Trans. roy. soc. Edinb., xxx: (copy of fig. of *C. senior*). *Pl.* 23, *fig.* 25.

See also *C. senior*, etc.

88. Cyclophthalmus kralupensis. (Eoscorpoidæ.)

Locality: Kralup, Bohemia. Horizon: Carboniferous.

1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 17 note, 20.

See also *C. senior*, etc.

89. Cyclophthalmus senior. (Eoscorpoidæ.)

Localities: Stein-Anjezd Kralup, Chomle, Rakonitz, Bohemia. Horizon: Carboniferous.

1835. Corda. Verhandl. gesellsch. vaterl. mus. Böhm., 1835: 38-43. *Pl.*, *figs.* 1-14.

1837. Buckland. Geol. and mineral., ii: 74-75 (no spec. name). *Pl.* 46', *figs.* 1-7.

1838. Buckland. Géologie, éd. Agassiz, ii: expl. pl. 46' (no spec. name). *Pl.* 46',
figs. 1-7.
1844. Walck.-Gerv. Hist. nat. ins., Apt., iii: 70-72 (no specific name).
1852. Giebel. Deutschl. petref., 635.
1856. " Insect. d. vorwelt, 470-471.
- 1853-56. Bronn. Lethæa geogn., 3^e aull., i, th. ii: 681. *Pl.* 9^e, *fig.* 16.
1874. Fritsch. Arch. naturw. landesdurchf. Böhm., ii, th. ii, No. 1: 9-14. *Pl.* 1,
figs. 1-8; *Pl.* 2, *figs.* 1-6. 2a; *Pl.* 3, *fig.* 4.
1876. Roemer. Lethæa geogn. *Pl.* 47, *fig.* 1.
1877. Nicholson. Life-hist. earth, 181. *Fig.* 123.
1879. " Manual palæont., 2d ed., i: 400. *Fig.* 251.
1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.
1884. Scudder. Proc. Amer. acad. arts sc., xx: 22.
1884. Kušta. Vesmír, xiii: 97-98.
1884. " Sitzungsab. böhm. gesellsch. wiss., 1884: 48-50.
1884. " Nener fundort Cyclophth., 1-3.
1885. " Sitzungsab. böhm. gesellsch. wiss., 1884: 401. *Pl.*, *fig.* 4.
1885. " Nene arachniden, 6. *Pl.*, *fig.* 4.
1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 17 note, 24.
1885. Scudder. Zittel, Handb. palæont., i, th. ii: 740.
1886. " Zittel-Barrois, Traité de paléont., ii: 739.
1889. Nicholson. Man. palæont., 3d ed., i: 579. *Fig.* 435.
- See also *Cyclophthalmus* —, *C. kralupensis*, *C. sternbergi*, *Microlabis sternbergi*, *Anthracoscorpio juvenis*.

90. *Cyclophthalmus sternbergi*. (Eoscorpionidae.)

Locality: Bohemia. Horizon: Carboniferous.

1854. Pietet. Traité paléont., 2^e éd., ii: 407. *Pl.* 41, *fig.* 1.
1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 17 note, 24.
[The same as *C. senior* ?]

See also *Microlabis sternbergi*, *Cyclophthalmus senior*, etc.

91. *Duma prestvicii*. (Eophrynoidea.)

Locality: England. Horizon: Carboniferous.

1856. Giebel. Insect. d. vorwelt, 137.
- See also *Curculioides prestvicii*, *Eophrynus prestvicii*, *Eophrynus prestvicii*.

92. *Eolycosa lorenzi*.

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1885. Kušta. Sitzungsab. k. böhm. gesellsch. wiss., 1885: 592-593. *Fig.*
1885. " Neue foss. arthr., 3-4. *Fig.*
1888. " Věstn. král. české společn. nauk, 1888: 197.

93. *Eophrynus prestvicii*. (Eophrynoidea.)

Locality: Dudley, England. Horizon: Carboniferous.

1871. Woodward. Geol. mag., viii: 385-387. *Pl.* 11, *figs.* 1, 2.
1872. " Rep. Brit. assoc. adv. sc., xli: notice 113.
1879. Nicholson. Manual palæont., 2d ed., i: 401. *Fig.* 252a.
1884. Scudder. Proc. Amer. acad. arts sc., xx: 19.
1885. " Zittel, Handb. palæont., i, th. ii: 737. *Fig.* 913.
1886. " Zittel-Barrois, Traité de paléont., ii: 736. *Fig.* 929.
1886. " Bull. U. S. geol. surv., No. 31: 25.
1889. Lesley. Dict. foss. Penns., i: 37 (unnamed). *Fig.*
1889. Nicholson. Man. palæont., 3d ed., i: 576. *Fig.* 432a.

See also *Curculioides prestvicii*, *Duma prestvicii*, *Eophrynus prestvicii*.

94. Eophrynus salmi. (Eophrynoidea.)

Locality: Ostrau, Moravia. Horizon: Carboniferous.

1877. Stur. Abhandl. geol. reichsanst., viii: no. 2; p. v. note (Euphrynus).
Fig.
1884. Seudder. Proc. Amer. acad. arts sc., xx: 19.
1885. " Zittel, Handb. palaeont., i, th. ii: 737.
1886. " Zittel-Barrois, Traité de paléont., ii: 736.
1886. " Bull. U. S. geol. surv., No. 31: 25.

95. Eoscorpilus ———. (Eoscorpilioidea.)

Locality: River Esk, Scotland. Horizon: Lower Carboniferous.

1882. Peach. Trans. roy. soc. Edinb., xxx: 404-405. *Pl. 23, figs. 11, 11a.*

96. Eoscorpilus anglicus. (Eoscorpilioidea.)

Locality: Mansfield, England. Horizon: Carboniferous.

1876. Woodward. Quart. journ. geol. soc. Lond., 1876: 58. *Pl. 8, figs. 2, 3, 3a, 5.*
1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.
1884. Seudder. Proc. Amer. acad. arts sc., xx: 22.
- See also *Centromachus anglicus*.

97. Eoscorpilus carbonarius. (Eoscorpilioidea.)

Localities: Mazon Creek, Ill.; Sandwell Park Colliery, near Birmingham, England.
 Horizon: Carboniferous.

1868. Meek-Worth. Am. journ. sc., (2), xvi: 22-25.
1868. " Worth., Geol. surv. Ill., iii: 560-562. *Figs.*
1876. Woodward. Quart. journ. geol. soc. Lond., 1876: 57-59. *Pl. 8, fig. 1.*
1880. Dawson. Dawn of life, 150. *Fig. 132 on p. 151.*
1882. Peach. Trans. roy. soc. Edinb., xxx: 412. *Pl. 23, figs. 23-23b.*
1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.
1883. Lacoe. List pal. foss. ins., 21.
1884. Seudder. Proc. Amer. acad. arts sc., xx: 21.
1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 25.
1885. Seudder. Zittel, Handb. palaeont., i, th. ii: 739. *Fig. 916.*
1886. " Zittel-Barrois, Traité de paléont., ii: 739. *Fig. 933.*
1889. Lesley. Dict. foss. Penns., i: 220. *Fig.*
1889. Miller. N. A. geol. and pal., 571. *Fig. 1066.*
1889. Nicholson. Man. palaeont., 3d ed., i: 578. *Fig. 434.*
- See also *Buthus carbonarius*.

98. Eoscorpilus euglyptus. (Eoscorpilioidea.)

Locality: River Esk, Scotland. Horizon: Lower Carboniferous.

1882. Peach. Trans. roy. soc. Edinb., xxx: 402-404. *Pl. 22, figs. 3-3d.*
1884. Seudder. Proc. Amer. acad. arts sc., xx: 22.
- See also *Centromachus euglyptus*.

99. Eoscorpilus glaber. (Eoscorpilioidea.)

Locality: Redhall, River Esk, Dumfriesshire. Horizon: Lower Carboniferous.

1882. Peach. Trans. roy. soc. Edinb., xxx: 400-402. *Pl. 22, figs. 2-2l.*
1884. Seudder. Proc. Amer. acad. arts sc., xx: 22.
- See also *Centromachus glaber*.

100. Eoscorpium inflatus. (Eoscorpionidae.)

Locality: River Esk, Scotland. Horizon: Lower Carboniferous.

1882. Peach. Trans. roy. soc. Edinb., xxx: 405-406. *Pl.* 23, *figs.* 12-12d.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 22.

See also *Centromachus inflatus*.

101. Eoscorpium tuberculatus. (Eoscorpionidae.)

Localities: Blair Point, Redhall, Cramond, Scotland. Horizon: Carboniferous.

1882. Peach. Trans. roy. soc. Edinb., xxx: 398-400. *Pl.* 23, *figs.* 8-8h.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 22.

See also *Centromachus tuberculatus*.

102. Eoscorpium woodianus. (Eoscorpionidae.)

Locality: Illinois. Horizon: Carboniferous.

1882. Peach. Trans. roy. soc. Edinb., xxx: 408-409. *Pl.* 23, *figs.* 24, 24a.

1885. Thorell. K. svensk. vetensk. akad. handl., xxi, No. 9: 25.

See also *Mazonia woodiana*.

103. Eotarus litorale. (Architarboidea.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. české společn. nauk, 1888: 198, 204 (litoralis). *Pl.*, *fig.* 3.

104. Eophrynus prestvicii. (Eophrynoidae.)

Locality: England. Horizon: Carboniferous.

1876. Roemer. Lethaea geogn. *Pl.* 47, *fig.* 12.

See also *Eophrynus prestvicii*, *Duma prestvicii*, *Cureulioides prestvicii*.

Eophrynus salmi. See *Eophrynus salmi*.

105. Geralinura bohémica. (Geralinuridae.)

Locality: Bohemia. Horizon: Carboniferous.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 737. *Fig.* 914.

1886. " Zittel-Barrois, Traité de paléont., ii: 736. *Fig.* 930.

1886. " Bull. U. S. geol. surv., No. 31: 26.

1890. " Mem. Bost. soc. nat. hist., iv: 455-456.

1890. " Foss. ins. N. A., i: 431-432.

See also *Thelyphonus bohémicus*, G. (*Thelyphonus*) *bohémica*.

106. Geralinura (Thelyphonus) bohémica. (Geralinuridae.)

Locality: Bohemia. Horizon: Carboniferous.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 737. *Fig.* 914.

1886. " Zittel-Barrois, Traité de paléont., ii: 736. *Fig.* 930.

See also *Geralinura bohémica*, etc.

107. Geralinura carbonaria. (Geralinuridae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 19-20.

1885. " Zittel, Handb. palaeont., i, th. ii: 737.

1886. " Zittel-Barrois, Traité de paléont., ii: 737.

1886. " Bull. U. S. geol. surv., No. 31: 26.

1889. Miller. N. A. geol. and pal., 571.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 455. *Pl.* 39, *figs.* 1, 3, 4.

1890. " Foss. ins. N. A., i: 431. *Pl.* 31, *figs.* 1, 3, 4.

108. *Geralinura crassa*. (Geralinuridæ.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. české společn. nauk, 1888: 202, 206.

109. *Geralinura noctua*. (Geralinuridæ.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. české společn. nauk, 1888: 200-201, 206. *Pl.*, fig. 6.**110. *Geralinura scudderi*. (Geralinuridæ.)**

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. české společn. nauk, 1888: 201-202, 205. *Pl.*, fig. 5.**111. *Geralycosa fričii*.**

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. české společn. nauk, 1888: 196, 203-204. *Pl.*, fig. 1.**112. *Geraphrynus carbonarius*. (Architarboidæ.)**

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 16-17.

1885. " Zittel, Handb. palæont., i, th. ii: 735.

1886. " Zittel-Barrois, Traité de paléont., ii: 735.

1886. " Bull. U. S. geol. surv., No. 31: 24.

1889. Miller. N. A. geol. and pal., 571.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 446-447. *Pl.* 40, figs. 1, 9, 10, 12.1890. " Foss. ins. N. A., i: 422-423. *Pl.* 32, figs. 1, 3, 10, 12.**113. *Geratarbus laceoi*. (Architarboidæ.)**

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 448. *Pl.* 40, fig. 11.1890. " Foss. ins. N. A., i: 424. *Pl.* 32, fig. 11.**114. *Geratarbus scabrum*. (Architarboidæ.)**

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 448-449. *Pl.* 39, fig. 5.1890. " Foss. ins. N. A., i: 424-425. *Pl.* 31, fig. 5.**115. *Graeophonus carbonarius*. (Geralinuridæ.)**

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 454. *Pl.* 40, figs. 2, 3, 6.1890. " Foss. ins. N. A., i: 430. *Pl.* 32, figs. 2, 3, 6.See also *Libellula carbonaria*.**116. *Hevila ansticii*. (Architarboidæ.)**

Locality: England. Horizon: Carboniferous.

1856. Giebel. Insect. d. vorwelt, 143.

See also *Architarbus subovale*. *Curculioides ansticii*.**117. *Kreischeria wiedeii*. (Eophrynoïdæ.)**

Locality: Zwickau, Germany. Horizon: Carboniferous.

1882. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1882: 238-242. *Pl.* 14, figs. 1, 2.

1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 18-19.
 1885. " Zittel, Handb. palaeont., i, th. ii: 736. *Fig.* 912.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 735. *Fig.* 928.
 1886. " Bull. U. S. geol. surv., No. 31: 25.

118. Kustarachne tenuipes. (Architarboidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 450-451. *Pl.* 40, *fig.* 7.
 1890. " Foss. ins. N. A., i: 426-427. *Pl.* 32, *fig.* 7.

119. Libellula carbonaria. (Gralinuridæ.)

Locality: Cape Breton, Nova Scotia. Horizon: Carboniferous.

1875. Scudder. Proc. Bost. soc. nat. hist., xviii: 113-114 (unnamed).
 1876. " Ent. notes, v: 2-3 (unnamed).
 1876. " Proc. Amer. assoc. adv. sc., xxiv: B 110-111. *Fig.* 1.
 1876. " Can. nat., (2), viii: 88-89. *Fig.* 1 [2].
 1876. " Ins. carb. Cape Breton, [1-2]. *Fig.* 1 [2].
 1878. Dawson. Acad. geol., suppl. 2d ed., 55. *Fig.* 8.
 1880. " Chain of life, 148. *Fig.* 129.
 1883. Lacoe. List pal. foss. ins., 9-10.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 350.
 1885. " Zittel, Handb. palaeont., i, th. ii: 736.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 735.
 1886. " Bull. U. S. geol. surv., No. 31: 25.
 1889. Lesley. Dict. foss. Penns., i: 336.
 1889. Miller. N. A. geol. and pal., 578. *Fig.* 1074.
 1890. Scudder. Foss. ins. N. A., i: 314.

See also *Græophonus carbonarius*.

120. Mazonia ———. (Eoscorpoidæ.)

Locality: Joggins, N. S. Horizon: Carboniferous.

1883. Scudder. Phil. trans., 1882: 650.

Mazonia woodana. See *Mazonia woodiana*.

121. Mazonia woodiana. (Eoscorpoidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1862. Meek-Worth. Worth., Geol. surv. Ill., iii: 563-565. *Figs.* A-D.
 1882. Peach. Trans. roy. soc. Edinb., xxx: 408-409.
 1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.
 1883. Lacoe. List pal. foss. ins., 21.
 1884. Scudder. Proc. Amer. acad. arts sc., xx: 22.
 1889. Lesley. Dict. foss. Penns., i: 382.
 1889. Miller. N. A. geol. and pal., 571 (*woodana*).

See also *Eoscorpium woodianus*.

122. Microlabis sternbergi. (Eoscorpoidæ.)

Compared with *Obisium carcinoides*, Europe.

Locality: Malikowetz bei Chomle, Bohemia. Horizon: Carboniferous.

1839. Corda. Verhandl. gesellsch. vaterl. mus. Böhmi., 1839: 15-18. *Pl.* 1,
figs. 1-5.
 1852. Giebel. Deutschl. petref., 635.
 1853-56. Bronn. Lethæa geogn., 3^e anfl. i, th. ii: 681.
 1856. Giebel. Insect. d. vorwelt, 474.

1870. Hagen. Proc. Bost. soc. nat. hist., xiii: 269.
 1874. Frič. Arch. naturw. landesdurchf. Böh., ii, pt. 2, No. 1: 13-14 (= young *Cyclophthalmus senior*).
 1876. Gerstaecker. Klass. ordn. arthr., Crust., i: 292.
 1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 560.
 See also *Cyclophthalmus senior*, C. sternbergi, etc.

Palæophoneus nuncius. See *Palæophonus nuncius*.

123. Palæophonus ———. (*Palæophonoidæ*.)

Locality: Scotland. Horizon: Upper Silurian.

1889. Nicholson. Man. paleont., 3d ed., i: 578. *Fig.* 433.
 See also ———— (*Palæophonoidæ*) Peach, *Palæophonus caledonicus*.

124. Palæophonus caledonicus. (*Palæophonoidæ*.)

Locality: Logan Water, Scotland. Horizon: Silurian.

1886. Hunter. Trans. geol. soc. Glasg., viii: 169-170 (undeser.).
 1887. " Trans. geol. soc. Edinb., v: 187-189. *Pl.* 4 (ined.).
 See also ———— (*Palæophonoidæ*) Peach, *Palæophonus* ———.

125. Palæophonus nuncius. (*Palæophonoidæ*.)

Locality: Gotland, Sweden. Horizon: Upper Ludlow beds.

1884. Lindström. Comptes rendus, xcix: 984-985 (*Palæophoneus*).
 1884. " La nature, xcix: 33-34. *Fig.*
 1885. Thor.-Lindstr. K. svensk. vetensk. akad. handl., xxi, No. 9. *Pl.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 738. *Fig.* 915.
 1885. Brongniart. Jahrb. geol. reichsanst., xxxv: 652 (*Palæophoneus*).
 1886. Scudder. Zittel-Barrois, *Traité de paléont.*, ii: 738. *Fig.* 931.
 1886. " Bull. U. S. geol. surv., No. 31: 27.
 1887. Lindström. Trans. Edinb. geol. soc., v: 184-186. *Pl.* 3 (ined.).
 1890. Lesley. Dict. foss. Penns., ii: 586. *Fig.*

126. Palæophonus osborni. (*Eoscorpoidæ*.)

Locality: Waterville, N. Y. Horizon: Lower Helderberg.

1885. Whitfield. Science, vi: 87-88. *Fig.*
 See also *Proscorpius osborni*.

127. Palaranea borassifolia. (*Liphistioidæ*.)

Localities: Svina, Radnitz, Bohemia. Horizon: Carboniferous.

- [1854. Reuss. Geogn. verhältn. Böhmens.]
 [1864. " Ziva, 231-233.]
 1869. Frič. Feistm., Arch. naturw. landesdurchf. Böh., i, th. ii, Steink. beck. Radn., 66 (undeser.).
 1874. " Arch. naturw. landesdurchf. Böh., ii, th. ii, i: 8 (*borassifoliæ*). *Pl.* 2, *fig.* 7.
 1884. Scudder. Proc. Amer. acad. arts sc., xx: 92.
 1884. Kušta. Vesmír, xiii: 97-98.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 742.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 742.
 1886. " Bull. U. S. geol. surv., No. 31: 30.

Palaranea borassifoliæ. See *Palaranea borassifolia*.

128. Poliochera punctulata. (Poliocheridæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1884. Scudder. Proc. Amer. acad. arts sc., xx: 16.
 1885. " Zittel, Handb. palaeont., i, th. ii: 735.
 1886. " Zittel-Barrois, Traité de paléont., ii: 734.
 1886. " Bull. U. S. geol. surv., No. 31: 24.
 1889. Miller. N. A. geol. and pal., 571.
 1890. Lesley. Dict. foss. Penns., ii: 730.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 444-445. *Pl.* 39, *figs.* 2, 6.
 1890. " Foss. ins. N. A., i: 420-421. *Pl.* 31, *figs.* 2, 6.

Proscorpius osbornei. See *Proscorpius osborni*.**129. Proscorpius osborni.** (Eoscorpionidæ.)

Locality: Waterville, N. Y. Horizon: Lower Helderberg.

1885. Whitfield. Bull. Amer. mus. nat. hist., i: 181-196. *Pl.* 19, 20.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 739. *Fig.* 915a.
 1886. " Zittel-Barrois, Traité de paléont., ii: 738. *Fig.* 932 on p. 739.
 1886. " Bull. U. S. geol. surv., No. 31: 28.
 1886. Thorell. Amer. nat., xx: 269-274 (*osbornei*).
 1886. Whitfield. Science, vii: 216-217.
 1889. Miller. N. A. geol. and pal., 571.
 1890. Lesley. Dict. foss. Penns., ii: 773-774. *Figs.*
 See also *Palæophonus osborni*.

130. Protolycosa anthracophila. (Liphistioidæ.)

Locality: Kattowitz, Oberschlesien. Horizon: Carboniferous.

1865. Roemer. Geol. mag., ii: 468.
 1866. " Rep. Brit. assoc. adv. sc., 1865: not., 73.
 1866. " Neues jahrb. min., 1866: 136-141. *Pl.* 3, *figs.* 1-3.
 1870. Thorell. European spiders, 221-222.
 1876. Roemer. Lethæa geogn. *Pl.* 47, *fig.* 7.
 1877. Goldenberg. Faun. sarap. foss., ii: 31-33, 51.
 1882. Karsch. Zeitschr. deutsch. geol. gesellsch., 1882: 559.
 1884. Scudder. Proc. Amer. acad. arts sc., xx: 22.
 1885. " Zittel, Handb. palaeont., i, th. ii: 742. *Fig.* 921.
 1886. " Zittel-Barrois, Traité de paléont., ii: 741. *Fig.* 938 on p. 742.
 1886. " Bull. U. S. geol. surv., No. 31: 30.
 1890. McCook. Amer. spiders, ii: 453-455. *Figs.* 378-380.

131. Rakovnicia antiqua.

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1885. Kušta. Sitzungsber. böhm. gesellsch. wiss., 1884: 400-401. *Pl.*, *fig.* 3.
 1885. " Neue arachn., 5-6. *Pl.*, *fig.* 3.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 735.
 1886. " Zittel-Barrois, Traité de paléont., ii: 734.
 1886. " Bull. U. S. geol. surv., No. 31: 24.

132. Scorpio ———. (Scorpiones.)

Locality: Nyran, Bohemia. Horizon: Permian.

1879. Fritsch. Fauna d. gaskohle Böhmens, i: 32.

133. Scudderia carbonaria. (Architarboidæ.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1888. Kušta. Věstn. král. česke společn. nauk, 1888: 196-197, 204. *Pl.*, fig. 2.**134. Termes hageni.** (Architarboidæ.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1877. Goldenberg. *Fanna sarap. foss.*, ii: 50.1885. Scudder. *Handb. palaeont.*, i, th. ii: 736.1886. " *Zittel-Barrois, Traité de paléont.*, ii: 735.1886. " *Bull. U. S. geol. surv.*, No. 31: 25 (vic. *Anthracomartus*).See also *T. (Calotermes) hageni*.**135. Termes (Calotermes) hageni.** (Architarboidæ.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1854. Goldenberg. *Palaeontogr.*, iv: 37 (unnamed). *Pl.* 6, fig. 8.1854. " *Foss. ins. Saarbrücken*, 21 (unnamed). *Pl.* 4, fig. 8.1867. " *Vorweltl. fauna steink. Saarbr.*, 12. *Pl.* 2, fig. 7 (ined.).1873. " *Fanna sarap. foss.*, i: 12. *Pl.* 2, fig. 7.See also *Termes hageni*.**136. Thelyphonus bohemicus.** (Geralinuridæ.)

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1884. Kušta. *Sitzungsb. böhm. gesellsch. wiss.*, 1884: 186-191. *Pl.*, figs. 1-4.1884. " *Thelyphonus bohemicus*, 1-7. *Pl.*, figs. 1-4.1885. " *Sitzungsb. böhm. gesellsch. wiss.*, 1884: 401-402.1885. " *Neue arachn.*, 6-7.1885. " *Neue foss. arthrop. Rak.*, 5-6.1885. " *Sitzungsb. böhm. gesellsch. wiss.*, 1885: 594-595.See also *Geralinura bohemica*, etc.

PALÆODICTYOPTERA.

THE ORTHOPTEROID SERIES.

137. ———.

Locality: Cusel, Rheinpfalz. Horizon: Carboniferous.

1867. Dohrn. *Palaeontogr.*, xvi: 134. *Pl.* 8, fig. 4.See also *Termitidium rugosum*.**138. ———.** (Palæoblattariæ.)

Locality: Löbejün, Saxony. Horizon: Carboniferous.

1886. Kliver. *Palaeontogr.*, xxxii: 114-115. *Pl.* 14, figs. 13, 13a.**139. ———.** (Palæoblattariæ.)Compared with *Petrablattina sepulta*.

Locality: Sydney, Cape Breton. Horizon: Lower Carboniferous.

1879. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 128. *Pl.* 6, fig. 11.1890. " *Foss. ins. N. A.*, i: 148. *Pl.* 6, fig. 11.

140. ———. (Paleoblattariæ.)Compared with *Archimylaeris parallela*.

Locality: Cannelton, Pa. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 128. Pl. 6, fig. 13.
 1890. " Foss. ins. N. A., i: 148. Pl. 6, fig. 13.

141. ———. (Protophasmida.)

Locality: Claxhengeh, Durham, England. Horizon: Carboniferous.

1867. Kirkby. Geol. mag., iv: 389. Pl. 17, fig. 8.
 1881. Scudder. Geol. mag., (2), viii: 300.
 1883. " Mem. Bost. soc. nat. hist., iii: 223.
 1890. " Foss. ius. N. A., i: 245.

Acridites ———. See I, NEUROPT., Idem.**142. Adelophthalmus (Eurypterus) granosus.** (Paleoblattariæ.)

Locality: Jägersfreunde bei Saarbrück, Germany. Horizon: Carboniferous.

1854. Jordan. Jordan-Meyer, Palaeontogr., iv: 8-12. Pl. 2, figs. 1-2.
 See also *Polyzosterites granosus*.

143. Ædœophasma anglica. (Protophasmida.)

Locality: Near Liverpool, England. Horizon: Carboniferous.

1885. Scudder. Geol. mag., (3), ii: 265-266.
 1885. " Zittel, Handb. palaeont., i, ii: 758. Fig. 941.
 1886. " Zittel-Barrois, Traité de paléont., ii: 757. Fig. 957.
 1886. " Bull. U. S. geol. surv., No. 31: 41.

Anthracoblattina abnormis. See *Blattina (Anthracoblattina) abnormis*.**144. Anthracoblattina camerata.** (Paleoblattariæ.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1883. Kliver. Neue blatt. Saarbrück., 3-4. Pl. 1, figs. 1, 1a.
 1883. " Palaeontogr., xxix: 251-252. Pl. 34, figs. 1, 1a.

145. Anthracoblattina dresdensis. (Paleoblattariæ.)

Locality: Klein Opitz, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 92-93. Fig.
 1890. " Foss. ins. N. A., i: 112-113. Fig.

See also *Blattina dresdensis*.**146. Anthracoblattina incerta.** (Paleoblattariæ.)

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1883. Kliver. Neue blatt. Saarbrück., 5-6. Pl. 1, figs. 2, 2a.
 1883. " Palaeontogr., xxix: 253-254. Pl. 34, figs. 2, 2a.

Anthracoblattina lubnensis. See *Blattina (Anthracoblattina) lubnensis*.**147. Anthracoblattina porrecta.** (Paleoblattariæ.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 93-94. Pl. 4, fig. 5.
 1890. " Foss. ins. N. A., i: 113-114. Pl. 4, fig. 5.

See also *Blattina porrecta*, B. (*Anthracoblattina porrecta*).

148. Anthracoblattina remigii. (Palæoblattariæ.)

Locality: Cusel, Rheinpfalz. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 95-96. Pl. 4, fig. 2.

1890. " Foss. ins. N. A., i: 115-116. Pl. 4, fig. 2.

See also *Blattina remigii*.

149. Anthracoblattina rückerti. (Palæoblattariæ.)

Locality: Stockheim, Oberfranken. Horizon: Dyas.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 96-97. Pl. 4, fig. 1.

1890. " Foss. ins. N. A., i: 116-117. Pl. 4, fig. 1.

See also *Blattina rückerti*.

150. Anthracoblattina scudderii. (Palæoblattariæ.)

Locality: Wemmetweiler, Germany. Horizon: Carboniferous.

1881. Goldenberg. Zeitschr. ges. naturwiss., (3), vi: 186-187. Figs. 1-2, on p. 185.

1883. Kliver. Neue blatt. Saarbrück., 10. Pl. 2, fig. 7.

1883. " Palaeontogr., xxix: 258. Pl. 35, fig. 7.

1886. " Palaeontogr., xxxii: 104. Pl. 14, fig. 4.

151. Anthracoblattina sopita. (Palæoblattariæ.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 89-91. Pl. 4, fig. 8.

1890. " Foss. ins. N. A., i: 109-111. Pl. 4, fig. 8.

See also *Blattina didyma*, etc.

152. Anthracoblattina spectabilis. (Palæoblattariæ.)

Localities: Löbejün, Weissig?, Germany. Horizon: Upper Carboniferous, Lower Dyas?

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 88-89. Pl. 2, fig. 8.

1890. " Foss. ins. N. A., i: 108-109. Pl. 2, fig. 8.

See also *Blattina spectabilis*, *Blattina* (*Anthracoblattina*) cf. *spectabilis*.

153. Anthracoblattina wagneri. (Palæoblattariæ.)

Locality: Löbejün, Saxony. Horizon: Carboniferous.

1886. Kliver. Palaeontogr., xxxii: 114. Pl. 14, figs. 12, 12a.

154. Anthracoblattina winteriana. (Palæoblattariæ.)

Locality: Dudweiler, Germany. Horizon: Middle Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 94-95. Pl. 4, fig. 12.

1890. " Foss. ins. N. A., i: 114-115. Pl. 4, fig. 12.

See also *Blattina winteriana*.

155. Archæoptilus ingens. (Protophasmida.)

Locality: Chesterfield, Derbyshire, England. Horizon: Carboniferous.

1881. Scudder. Geol. mag., (2), viii: 295, 300.

1883. " Mem. Bost. soc. nat. hist., iii: 217-219, 223. Pl. 17, figs. 10-12.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 60.

1885. " Rev. scient., (3), xxxvi: 277.

1885. " Geol. mag., (3), ii: 487.

1885. " Trans. geol. soc. Manch., xviii: 280.

1885. " Foss. ins. prim. rocks, 11.

1885. " Jahrb. geol. reichsanst., xxxv: 656.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 757.

1886. Scudder. Zittel Barrois, *Traité de paléont.*, ii: 756.
 1886. " Bull. U. S. geol. surv., No. 31: 40.
 1890. " Foss. ins. N. A., i: 239-241, 245. *Pl.* 11, *figs.* 10-12.
 See also *Dietyonera ingens*.

156. Archæoptilus lucasi. (Protophasmida.)

Locality: Commeny, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 60.
 1885. " Rev. scient., (3), xxxvi: 277.
 1885. " Geol. mag., (3), ii: 4-7.
 1885. " Trans. geol. soc. Manch., xviii: 280.
 1885. " Foss. ins. prim. rocks, 11.
 1885. " Jahrb. geol. reichsanst., xxxv: 656.

157. Archegogyllus priscus. (Protophasmida?)

Locality: Talbidge, Ohio. Horizon: Carboniferous.

1868. Scudder. Proc. Bost. soc. nat. hist., xi: 402-403.
 1868. " Entom. notes, i: 8-9.
 1883. Lacoe. List pal. foss. ins., 5.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 323. *Pl.* 29, *figs.* 2, 3.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 60.
 1885. " Rev. scient., (3), xxxvi: 277.
 1885. " Geol. mag., (3), ii: 4-7.
 1885. " Trans. geol. soc. Manch., xviii: 279.
 1885. " Foss. ins. prim. rocks, 11.
 1885. " Jahrb. geol. reichsanst., xxxv: 656.
 1885. Scudder. Zittel, *Handb. palæont.*, i, ii: 758.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 758.
 1886. " Bull. U. S. geol. surv., No. 31: 41.
 1886. Brauer. Ann. naturhist. hofmus., i: 113.
 1889. Lesley. Dict. foss. Penns., i: p. vi.
 1890. Miller. N. A. geol. and pal., 575.
 1890. Scudder. Foss. ins. N. A., i: 2-7. *Pl.* 15, *figs.* 2, 3.

Archimulacris acadicus. See *Archimylacris acadica*.

158. Archimylacris acadica. (Palæoblattaria.)

Locality: Pictou, N. S. Horizon: Middle Carboniferous.

1868. Scudder. Dawson, *Acad. geol.*, 2d ed., 388 (*Archimulacris acadicus*). *Fig.* 153.
 1868. Scudder. Amer. nat., i: 630. *Pl.* 16, *fig.* 2.
 1868. " Geol. mag., v: 177.
 1872. Packard. Guide ins., 3d ed., 78. *Pl.* 1, *fig.* 2.
 1879. Scudder. Mem. Bost. soc. nat. hist., iii: 84-85. *Pl.* 6, *figs.* 8, 14.
 1879. Nicholson. Manual palæont., 2d ed., i: 407. *Fig.* 258.
 1880. Dawson. Dawn of life, 146. *Fig.* 127a.
 1883. Lacoe. List pal. foss. ins., 5.
 1889. Lesley. Dict. foss. Penns., i: p. vi.
 1889. Miller. N. A. geol. and pal., 575. *Fig.* 1075 (not 1074).
 1890. Scudder. Foss. ins. N. A., i: 104-105. *Pl.* 6, *figs.* 8, 14.

159. Archimylacris parallela. (Palæoblattaria.)

Locality: Cannelton, Pa. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 85-87 (*parallela*). *Pl.* 6, *fig.* 6.
 1883. Lacoe. List pal. foss. ins., 5.

1889. Lesley. Diet. foss. Penns., i: 37. *Fig.*
 1889. Miller. N. A. geol. and pal., 575.
 1890. Scudder. Foss. ins. N. A., i: 105-107. *Pl. 6, fig. 6.*

160. Archimylacris paucinervis. (Palæoblattariæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1883. Scudder. Mss. (paucinerve).
 1883. Lacoe. List pal. foss. ins., 5.
 1889. Lesley. Diet. foss. Penns., i: p. vi.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 411-414. *Pl. 31, fig. 5.*
 1890. " Foss. ins. N. A., i: 387-390. *Pl. 23, fig. 5.*

161. Blatta ———. (Palæoblattariæ.)

Locality: Claxhough, Durham. Horizon: Carboniferous.

1867. Kirkby. Geol. mag., iv: 389. *Pl. 17, figs. 6-7.*
 See also *Blattidium mantidioides*, etc.

162. Blatta americana. (Palæoblattariæ.)

Locality: Bristol, R. I. Horizon: Carboniferous.

1884. Clark. Proc. Newp. nat. hist. soc., ii: 12 (undescrib.).
 See also *Mylacris packardii*.

163. Blatta germari. (Palæoblattariæ.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1856. Giebel. Insect. d. vorwelt, 321.
 See also *Blattina* ——— Germ., *Blattina germari*, *Gerablattina germari*.

164. Blatta gracilis. (Palæoblattariæ.)

Locality: Lebach, Germany. Horizon: Lower Dyas.

1856. Giebel. Insect. d. vorwelt, 321.
 See also *Blattina gracilis*, *Petrablattina gracilis*.

165. Blatta helvetica. (Palæoblattariæ.)

Locality: Erbignon, Switzerland. Horizon: Carboniferous.

1876. Heer. Prim. world Switz., i: 20. *Pl. 16C, Figs. a, b.*
 1877. Woodward. Geol. mag., (2), iv: 79. *Figs. 1a, b.*
 See also *Blattina helvetica*, *Progonoblattina helvetica*.

166. Blattidium mantidioides. (Palæoblattariæ.)

Locality: England. Horizon: Upper Carboniferous.

1877. Goldenberg. Fauna saræp. foss., ii: 20.
 See also *Blatta* ——— Kirkby, *Etoiblattina mantidioides*.

167. Blattina ———. (Palæoblattariæ.)

Locality: Belgium. Horizon: Carboniferous.

1877. Andrä. Sitzungsab. niederrhein. gesellsch., 1876: 28.

168. Blattina ———. (Palæoblattariæ.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1851. Germar. Verstein. steink. Wettin, 87. *Pl. 31, fig. 9.*
 See also *Blatta germari*, etc.

169. Blattina ———. (Palæoblattariæ.)

Locality: Lubná, Bohemia. Horizon: Carboniferous.

1883. Kušta. Sitzungsab. k. böhm. gesellsch. wiss., 1883: 214. *Fig. 3.*
 1884. “ Vesmír, xiii: 97-98. *Fig. 5.*

Blattina ———. See *Gerablattina balteata*.

170. Blattina (Anthracoblattina) abnormis. (Palæoblattariæ.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1880. Geinitz. Blatt. unt. dyas Weissig, 3-16. *Pl. 39, figs. 1-3.*
 1880. “ Verhandl. leop-carol. akad. naturf., xli: 423-436. *Pl. 39, figs. 1-3.*
 See also *Anthracoblattina sopita*, *Blattina didyma*, etc.

171. Blattina affinis. (Palæoblattariæ.)

Locality: Löbejün, Saxony. Horizon: Carboniferous.

1869. Goldenberg. Neues jahrb. f. mineral., 1869: 159. *Pl. 3, fig. 3.*
 1877. “ Fauna saræp. foss., ii: 19.

See also *Etoblattina affinis*.

172. Blattina anaglyptica. (Palæoblattariæ.)

Locality: Germany. Horizon: Carboniferous.

1842. Germar. Münst., Beitr. petref., v: 92. *Pl. 13, fig. 2.*
 1851. “ Verstein. steink. Wettin, 84. *Pl. 31, fig. 4.*
 1852. Giebel. Deutschl. petref., 637.
 1856. “ Insect. d. vorwelt, 314-315.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287.
 1877. Goldenberg. Fauna saræp. foss., ii: 19.

See also *B. anthracophila*, *B. anaglyptica* var. *labachensis*, *B. labachensis*, *Etoblattina anaglyptica*, *Etoblattina anthracophila*.

173. Blattina anaglyptica var. *labachensis*. (Palæoblattariæ.)

Locality: Labach, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 16. *Pl. 2, fig. 15 (ined.)*
 1873. “ Fauna saræp. foss., i: 16. *Pl. 2, fig. 15.*
 1877. “ Fauna saræp. foss., ii: 19.

See also *B. anaglyptica*, etc.

174. Blattina anthracophila. (Palæoblattariæ.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1842. Germar. Münster, Beitr. z. petref., v: 92-93. *Pl. 13, fig. 3.*
 1852. Giebel. Deutschl. petref., 637.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287 (= *B. anaglyptica* ?)
 1873. E. Geinitz. Neues jahrb. f. mineral., 1873: 694. *Pl. 3, fig. 2.*
 1873. “ Verstein. unter. dyas Weissig, 4. *Pl. 3, fig. 2.*
 1876. Roemer. Lethæa geogn. *Pl. 56, fig. 2a.*

See also *B. anaglyptica*, etc., *Etoblattina anthracophila*.

175. Blattina (Etoblattina) bituminosa. (Palæoblattariæ.)

Locality: Lubná, Bohemia. Horizon: Carboniferous.

1883. Kušta. Sitzungsab. k. böhm. gesellsch. wiss., 1883: 213-214. *Fig. 1.*
 1884. “ Vesmír, xiii: 97-98. *Fig. 3.*

176. *Blattina bretonensis*. (Palæoblattariæ.)

Locality: Sydney, Cape Breton. Horizon: Carboniferous.

1874. Scudder. Can. nat., vii: 271-272. *Fig. 1.*
 1878. Dawson. Acad. geol., suppl. 2d. ed., 55. *Fig. 5.*
 1880. " Dawn of life, 146. *Fig. 127b.*

See also *Mylacris bretonensis*.

177. *Blattina carbonaria*. (Palæoblattariæ.)

Compared with *Hormetica tuberculata*. S. Amer.

Localities: Weissig, Wettin, Germany. Horizon: Carboniferous.

1851. Germar. Verstein. steink. Wettin, 85-86. *Pl. 31, fig. 6a-b.*
 1856. Giebel. Insect. d. vorwelt, 315.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287, No. 3.
 1875. E. Geinitz. Neues jahrb. f. mineral., 1875: 5.
 1875. " Neue aufschl. dyas Weissig, 5.
 1877. Goldenberg. Fauna saræp. foss., ii: 19.

See also *Etoblattina carbonaria*, etc.; also I, NEUROPT., *Blattina carbonaria*.

178. *Blattina (Etoblattina) carbonaria* var. *deichmülleri*. (Palæoblattariæ.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1880. Geinitz. Blatt. unter. dyas Weissig, 19-20. *Pl. 39, fig. 9.*
 1880. " Verhandl. leop.-carol. akad. naturf., xli: 439-440. *Pl. 39, fig. 9.*

See also *Etoblattina carbonaria*, etc.

179. *Blattina clathrata*. (Palæoblattariæ.)

Locality: Manebach, Thüringen. Horizon: Carboniferous.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 288, 294-296. *Pl., fig. 3.*
 1877. Goldenberg. Fauna saræp. foss., ii: 19.

See also *B. latinervis*, *Gerablattina clathrata*.

***Blattina (Etoblattina) deichmülleri*.** See *Blattina (Etoblattina) carbonaria* var. *deichmülleri*.

180. *Blattina didyma*. (Palæoblattariæ.)

Localities: Weissig, Wettin, Germany. Horizon: Carboniferous.

1842. Germar. Münster, Beitr. z. petref., v: 92. *Pl. 13, fig. 1a-b.*
 1848. Giebel. Gæa excurs. germ. *Pl. 5, fig. 26.*
 1851. Germar. Verstein. steink. Wettin, 83. (See also 87 and pl. xxxi: 10.) *Pl. 31, figs. 2-3.*
 1852. Giebel. Deutschl. petref., 637.
 1852. Quenstedt. Handb. petref. *Pl. 24, fig. 16.*
 1854. Pictet. Traité de paléont., 2^e éd., ii: 362. *Pl. 40, fig. 2.*
 1856. Giebel. Insect. d. vorwelt, 314.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287.
 1875. E. Geinitz. Neues jahrb. f. mineral., 1875: 4-5. *Pl. 1, fig. 1.*
 1875. " Neue aufschl. dyas Weissig, 4-5. *Pl. 1, fig. 1.*
 1877. Goldenberg. Fauna saræp. foss., ii: 19.
 1880. E. Geinitz. Blatt. unter. dyas Weissig. *Pl. 39, figs. 4-5.*
 1880. " Verhandl. leop.-carol. akad. naturf., xli. *Pl. 39, figs. 4-5.*

See also *Etoblattina didyma*, *Anthracoblattina sopita*, *Dictyopteris didyma*, *Blattina (Anthracoblattina) abnormis*; also I, NEUROPT., *Blattina carbonaria*, and III, ORTHOPT., *Blatta didyma*.

181. *Blattina dresdensis.* (Paleoblattariæ.)

Locality: Klein-Opitz, Saxony. Horizon: Upper Carboniferous.

1879. Gein.-Deichm. Sitzungsab. naturw. gesellsch. Isis, 1879: 12-13. 2 figs.

See also *Anthracoblattina dresdensis*.

182. *Blattina (Etblattina) elongata.* (Paleoblattariæ.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1880. Geinitz. Blatt. unter. dyas Weissig, 20. Pl. 39, fig. 10.

1880. " Verhandl. leop.-carol. akad. naturf., xli: 440. Pl. 39, fig. 10.

See also *Etblattina elongata*, etc.

183. *Blattina euglyptica.* (Paleoblattariæ.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1851. Germar. Verstein. steink. Wettin, 86-87. Pl. 31, figs. 7a-b, 8.

1856. Giebel. Insect. d. vorwelt, 315.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287.

1869. Goldenberg. Neues jahrb. f. mineral., 1869: 162-163. Pl. 3, figs. 8-9.

1877. " Fauna sarap. foss., ii: 19.

See also *B. euglyptica* var. *weissiana*, *Gerablattina producta*, *Etblattina euglyptica*, *E. dohrnii*.

184. *Blattina euglyptica* var. *weissiana.* (Paleoblattariæ.)

Locality: Brücken, Canton Waldmohr (Rheinpfalz). Horizon: Carboniferous.

1869. Goldenberg. Neue jahrb. f. mineral., 1869: 163. Pl. 3, fig. 10.

1877. " Fauna sarap. foss., ii: 19. Pl. 1, fig. 12.

See also *Blattina euglyptica*, etc., *B. weissiana*, *Gerablattina weissiana*.

185. *Blattina fascigera.* (Paleoblattariæ.)

Locality: Pittston, Pa. Horizon: Carboniferous.

1878. Scudder. Proc. Bost. soc. nat. hist., xix: 238-239.

1878. " Entom. notes, vi: 35-36.

See also *Gerablattina fascigera*.

186. *Blattina flabellata.* (Paleoblattariæ.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1842. Germar. Münster, Beitr. z. petref., v: 92. Pl. 13, fig. 4ab.

1851. " Verstein. steink. Wettin, 84-85. Pl. 31, fig. 5.

1852. Giebel. Deutschl. petref., 637.

1856. " Insect. d. vorwelt, 315.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287.

1877. Goldenberg. Fauna sarap. foss., ii: 19.

1880. E. Geinitz. Blatt. unter. dyas Weissig. Pl. 39, fig. 8.

1880. " Verhandl. leop.-carol. akad. naturf., xli: Pl. 39, fig. 8.

See also *Gerablattina münsteri*, *Etblattina flabellata*, *Blattina (Etblattina) flabellata* var. *dyadica*, *Etblattina flabellata* var. *stelzneri*.

187. *Blattina (Etblattina) flabellata* var. *dyadica.* (Paleoblattariæ.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1880. E. Geinitz. Blatt. unter. dyas Weissig, 17-18. Pl. 39, fig. 7.

1880. " Verhandl. leop.-carol. akad. naturf., xli: 437-438. Pl. 39, fig. 7.

See also *Blattina flabellata*, etc.

188. *Blattina fritschii*. (Palaeoblattariae.)

Locality: Manebach, Thüringen. Horizon: Carboniferous.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287, 293-294. *Pl.*, fig. 2.

1877. Goldenberg. Fauna sarap. foss., ii: 19.

See also *Progonoblattina fritschii*.

189. *Blattina geinitzi*. (Palaeoblattariae.)

Locality: Löbejün, Saxony. Horizon: Carboniferous.

1869. Goldenberg. Neues jahrb. f. mineral., 1869: 160-161. *Pl.* 3, fig. 5.

1877. " Fauna sarap. foss., ii: 19.

See also *Gerablattina geinitzi*.

190. *Blattina germari*. (Palaeoblattariae.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 288.

1877. Goldenberg. Fauna sarap. foss., ii: 19.

See also *Blatta germari*, etc.

191. *Blattina goldenbergi*. (Palaeoblattariae.)

Localities: Ilmenau, Manebach, Germany. Horizon: Carboniferous.

1870. Mahr. Neues jahrb. f. mineral., 1870: 282-284. *Fig.* 1.

1877. Goldenberg. Fauna sarap. foss., ii: 19.

See also *Gerablattina goldenbergi*.

192. *Blattina gracilis*. (Palaeoblattariae.)

Locality: Lebach bei Saarbrück, Germany. Horizon: Lower **Dyas**.

1854. Goldenberg. Palaeontogr., iv: 23. *Pl.* 3, figs. 3, 3a.

1854. " Foss. insect. Saarbrücken, 7. *Pl.* 1, figs. 3, 3a.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 288.

1877. Goldenberg. Fauna sarap. foss., ii: 20, 27-28, 51. *Pl.* 2, fig. 1a.

See also *Blatta gracilis*, *Petrablattina gracilis*.

193. *Blattina heeri*. (Palaeoblattariae.)

Locality: Sydney, Cape Breton. Horizon: Carboniferous.

1874. Scudder. Can. nat., vii: 272. *Fig.* 2, p. 271.

1878. Dawson. Acad. geol. suppl. 2d ed., 55. *Fig.* 6.

1880. " Dawn of life, 146 (hesri). *Fig.* 127c.

See also *Mylacris heeri*.

194. *Blattina helvetica*. (Palaeoblattariae.)

Locality: Erbgignon, Switzerland. Horizon: Carboniferous.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287, 291-293. *Pl.*, fig. 1.

1865. " Urvwelt der Schweiz, 592 note.

1872. " Monde prim. Suisse, 22. *Fig.* 16Cab.

1877. Goldenberg. Fauna sarap. foss., ii: 19.

1879. Heer. Urvwelt der Schweiz, 2^e anl., 24. *Fig.* 34ab.

See also *Blatta helvetica*, *Progonoblattina helvetica*.

Blattina hesri. See *Blattina heeri*.

195. Blattina insignis. (Paleoblattariae.)

Locality: Skalley-Schacht, Hirschbach, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 17. Pl. 2, fig. 11 (ined.).
 1873. " Fauna sarap. foss., i: 17. Pl. 2, fig. 11.
 1877. " Fauna sarap. foss., ii: 20, 51.
 1879. Scudder. Mem. Bost. soc. nat. hist., iii: 19 note 4.
 1880. " Arch. sc. phys. nat., (3), iii: 367 note 2.
 1887. Woodward. Geol. mag., (3), iv. Pl. 12, fig. 3.
 1890. Scudder. Foss. ins. N. A., i: 39 note 4.

See also *Etblattina insignis*, etc.

196. Blattina intermedia. (Paleoblattariae.)

Locality: Wemmetsweiler, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 19, 24-25, 51. Pl. 1, figs. 10, 10a.

See also *Gerablattina intermedia*, etc.

197. Blattina (Gerablattina) intermedia. (Paleoblattariae.)

Locality: Wemmetsweiler, Germany. Horizon: Upper Carboniferous.

1883. Kliver. Neue blatt. Saarbr., 9-10. Pl. 2, figs. 2, 2a.
 1883. " Palaentogr., xxiv: 257-258. Pl. 35, figs. 2, 2a.

See also *Gerablattina intermedia*, etc.

198. Blattina labachensis. (Paleoblattariae.)

Locality: Labach, Germany. Horizon: Upper Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 51.

See also *Etblattina labachensis*, *B. anaglyptica* var. *labachensis*, *Blattina anaglyptica*, etc.

199. Blattina (Etblattina) lanceolata. (Paleoblattariae.)

Locality: Lugau, Saxony. Horizon: Carboniferous.

1881. Sterzel. Ber. naturw. gesellsch. Chemn., vii: 271-273. Pl., figs. 1, 2.

See also *Etblattina lanceolata*.

200. Blattina latinervis. (Paleoblattariae.)

Locality: Manebach, Thüringen. Horizon: Upper Carboniferous.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 288, 296-297 (= *B. clathrata*?). Pl., fig. 4.
 1877. Goldenberg. Fauna sarap. foss., ii: 20.
 1879. Scudder. Mem. Bost. soc. nat. hist., iii: 127-128. Pl. 4, fig. 3.
 1890. " Foss. ins. N. A., i: 147-148. Pl. 4, fig. 3.

See also *Blattina clathrata*, *Gerablattina clathrata*.

201. Blattina lebachensis. (Paleoblattariae.)

Locality: Lehbach bei Saarbrück, Germany. Horizon: Lower Dyas.

1852. Goldenberg. Sitzungs. math.-nat. cl. k. akad. wiss. Wien, ix: 38 (*lebachensis*) (undescri.).
 1854. " Palaentogr., iv: 22-23. Pl. 6, fig. 7.
 1854. " Foss. insect. Saarbr., 6-7. Pl. 4, fig. 7.
 1856. Giebel. Insect. d. vorwelt, 316.
 1877. Goldenberg. Fauna sarap. foss., ii: 20, 27, 51. Pl. 1, fig. 20.

See also *Hermatoblattina lebachensis*.

Blattina lehbachensis. See *Blattina lebachensis*.

202. Blattina leptophlebica. (Palaeoblattariae.)

Locality: Löbejün, Saxony. Horizon: Carboniferous.

1869. Goldenberg. Neues jahrb. f. mineral., 1869: 158-159. *Pl.* 3, *figs.* 1a, 1A.

1877. " Fauna sarap. foss., ii: 19.

See also *Etoblattina leptophlebica*.

203. Blattina ligniperda. (Palaeoblattariae.)

Locality: Lubná, Bohemia. Horizon: Carboniferous.

1883. Kušta. Sitzungsab. k. böhm. gesellsch. wiss., 1883: 214. *Fig.* 2.

1884. " Vesmír, xiii: 97-98. *Fig.* 4.

204. Blattina (Anthracoblattina) lubnensis. (Palaeoblattariae.)

Locality: Lubná, Bohemia. Horizon: Carboniferous.

1883. Kušta. Blatt. lubn. gask., 1-8. *Pl.*, *fig.* 1.

1883. " Sitzungsab. k. böhm. gesellsch. wiss., 1882: 430-437. *Pl.*, *fig.* 1.

1884. " Vesmír, xiii: 97-98. *Fig.* 2.

205. Blattina mahri. (Palaeoblattariae.)

Locality: Ilmenau, Manebach, Thüringen. Horizon: Carboniferous.

1870. Goldenberg. Mahr, Neues jahrb. f. mineral., 1870: 284-285. *Fig.* 2ab.

1877. " Fauna sarap. foss., ii: 19.

See also *Gerablattina mahri*.

206. Blattina cf. mahri. (Palaeoblattariae.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1875. E. Geinitz. Neues jahrb. f. mineral., 1875: 5. *Pl.* 1, *fig.* 2.

1875. " Neue aufschl. dyas Weissig, 5. *Pl.* 1, *fig.* 2.

See also *Etoblattina elongata*, etc.

207. Blattina manebachensis. (Palaeoblattariae.)

Locality: Manebach, Thüringen. Horizon: Carboniferous.

1869. Goldenberg. Neues jahrb. f. mineral., 1869: 160. *Pl.* 3, *fig.* 4.

1877. " Fauna sarap. foss., ii: 19.

See also *Etoblattina manebachensis*, *Blattina (Etoblattina) manebachensis*.

208. Blattina (Etoblattina) manebachensis. (Palaeoblattariae.)

Locality: Manebach, Thüringen. Horizon: Carboniferous.

1883. Kušta. Blatt. lubn. gask., 8. *Pl.*, *fig.* 2.

1883. " Sitzungsab. k. böhm. gesellsch. wiss., 1882: 437. *Pl.*, *fig.* 2.

See also *B. manebachensis*, *Etoblattina manebachensis*.

209. Blattina neuropteroides. (Palaeoblattariae.)

Locality: ? Horizon: Permian.

1864-'65. Göppert. Foss. flora perm. form., 289. *Pl.* 28, *figs.* 17-18.

1864-'65. " Palaeontogr., xii: 289. *Pl.* 28, *figs.* 17-18.

210. Blattina parvula. (Palaeoblattariae.)

Locality: Löbejün, Saxony. Horizon: Carboniferous.

1869. Goldenberg. Neues jahrb. f. mineral., 1869: 161. *Pl.* 3, *fig.* 6.

1877. " Fauna sarap. foss., ii: 19.

See also *Etoblattina parvula*.

211. *Blattina porrecta.* (Palaeoblattariae.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1875. E. Geinitz. Neues Jahrb. f. Mineral., 1875: 6. Pl. 1, fig. 4.

1875. " Neue aufschl. dyas Weissig, 6. Pl. 1, fig. 4.

1877. Goldenberg. Fauna sarap. foss., ii: 20.

See also *Anthracoblattina porrecta*, *Blattina* (*Anthracoblattina*) *porrecta*.

212. *Blattina* (*Anthracoblattina*) *porrecta.* (Palaeoblattariae.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1880. Geinitz. Blatt. unter. dyas Weissig, 21. Pl. 39, fig. 12.

1880. " Verhandl. Leop.-Carol. akad. Naturf., xli: 441. Pl. 39, fig. 12.

See also *Anthracoblattina porrecta*, *Blattina porrecta*.

213. *Blattina primæva.* (Palaeoblattariae.)

Localities: Anerswald bei Saarbrück, Gersweiler, Germany. Horizon: Carboniferous.

1852. Goldenberg. Sitzungsber. math.-nat. cl. k. akad. wiss. Wien, ix: 38 (undescribed).

1854. " Palaeontogr., iv: 22. Pl. 3, fig. 4.

1854. " Foss. insect. Saarbrücken, 6. Pl. 1, fig. 4.

1854-56. Bronn. Lethæa geogn., 3^e anfl., i, ii: 683. Pl. 9^e, fig. 15a.

1856. Giebel. Insect. d. vorwelt, 316.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 288.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 16. Pl. 2, fig. 13 (ined.).

1873. " Fauna sarap. foss., i: 16. Pl. 2, fig. 13.

1876. Roemer. Lethæa geogn. Pl. 47, fig. 18.

1877. Goldenberg. Fauna sarap. foss., ii: 19, 51.

See also *Etblattina primæva*.

214. *Blattina propria.* (Palaeoblattariae.)

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1883. Kliver. Neue blatt. Saarbr. Pl. 2, fig. 3.

1883. " Palaeontogr., xxix. Pl. 35, fig. 3.

See also *Etblattina propria*.

215. *Blattina rarinervis* (piece of wing). (Palaeoblattariae.)

Locality: ? Horizon: Permian.

1864-65. Göppert. Foss. flora perm. form., 289. Pl. 28, figs. 15-16.

1864-65. " Palaeontogr., xii: 289. Pl. 28, figs. 15-16.

216. *Blattina remigii.* (Palaeoblattariae.)

Locality: Cusel, Rheinpfalz. Horizon: Carboniferous.

1867. Dohrn. Palaeontogr., xvi: 133-134. Pl. 8, fig. 3.

1877. Goldenberg. Fauna sarap. foss., ii: 20, 26-27, 51. Pl. 1, fig. 13.

See also *Anthracoblattina remigii*.

217. *Blattina reticulata.* (Palaeoblattariae.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1851-53. Germar. Verstein. steink. Wettin, heft 7: 87-88. Pl. 39, figs. 15ab in heft 8.

1852. Giebel. Deutschl. petref., 637.

1856. " Insect. d. vorwelt, 316.

1877. Goldenberg. Fauna sarap. foss., ii: 19.

See also *Oryctoblattina reticulata*.

218. Blattina rückerti. (Palaeoblattariae.)

Locality: Stockheim, Oberfranken. Horizon: Rothliegende.

1869. Goldenberg. Neues Jahrb. f. Mineral., 1869: 163-164. Pl. 3, fig. 11.

See also Anthracoblattina rückerti.

219. Blattina russoma. (Palaeoblattariae.)

Locality: Löbejün, Saxony. Horizon: Carboniferous.

1869. Goldenberg. Neues Jahrb. f. Mineral., 1869: 159. Pl. 3, figs. 2a, 2A-2B.

1877. " Fauna sarap. foss., ii: 20.

See also Etoiblattina russoma.

220. Blattina scaberata. (Palaeoblattariae.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 19, 25, 51. Pl. 1, fig. 8.

See also Gerablattina scaberata.

221. Blattina sepulta. (Palaeoblattariae.)

Locality: Cape Breton, Nova Scotia. Horizon: Carboniferous.

1876. Scudder. Proc. Amer. Assoc. Adv. Sci., xxiv B: 111. Fig. 2 on p. 110.

1876. " Can. Nat., n. s., viii: 89-90. Fig. 2 [1].

1876. " Ins. Carb. Cape Breton, [2]. Fig. 2 [1].

1878. Dawson. Acad. Geol., suppl. 2d ed., 55. Fig. 7.

See also Petrablattina sepulta.

222. Blattina spectabilis. (Palaeoblattariae.)

Localities: Weissig, Löbejün, Germany. Horizon: Carboniferous.

1869. Goldenberg. Neues Jahrb. f. Mineral., 1869: 161-162. Pl. 3, figs. 7, 7ab.

1875. E. Geinitz. Neues Jahrb. f. Mineral., 1875: 6.

1875. " Neue Anschl. Dyas Weissig, 6.

1877. Goldenberg. Fauna sarap. foss., ii: 19.

See also Anthracoblattina spectabilis, etc.

223. Blattina (Anthracoblattina) cf. spectabilis. (Palaeoblattariae.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1880. Geinitz. Blatt. unter. Dyas Weissig, 17. Pl. 39, fig. 6.

1880. " Verhandl. Leop.-Carol. Akad. Naturf., xli: 437. Pl. 39, fig. 6.

See also Anthracoblattina spectabilis, etc.

224. Blattina splendens (abdomen). (Palaeoblattariae.)

Locality: ? Horizon: Permian.

1864-65. Göppert. Foss. Flora Perm. Form., 289. Pl. 64, fig. 11.

1864-65. " Palaeontogr., xii: 289. Pl. 64, fig. 11.

225. Blattina tischbeini. (Palaeoblattariae.)

Locality: Hirschbach, Germany. Horizon: Middle Carboniferous.

1867. Goldenberg. Vorweltl. Fauna Steink. Saarbr., 16-17. Pl. 2, fig. 16 (ined.).

1873. " Fauna sarap. foss., i: 16-17. Pl. 2, fig. 16.

1877. " Fauna sarap. foss., ii: 19, 51.

1879. Scudder. Mem. Bost. Soc. Nat. Hist., iii: 127. Pl. 4, fig. 10.

1890. " Foss. Ins. N. A., i: 147. Pl. 4, fig. 10.

226. Blattina venosa. (Palaeoblattariae.)

Locality: Wemmuetsweiler, Germany. Horizon: Upper Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 19, 25, 51. Pl. 1, fig. 7.
 1879. Scudder. Mem. Bost. soc. nat. hist., iii: 128. Pl. 4, fig. 6.
 1890. " Foss. ins. N. A., i: 148. Pl. 4, fig. 6.

227. Blattina venusta. (Palaeoblattariae.)

Locality: Frog Bayou, Ark. Horizon: Carboniferous.

1860. Lesquereux. Owen, 2d rep. geol. Ark., 314. Pl. 5, fig. 11.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 287.
 1868. Scudder. Geol. mag., v: 176-177.
 1877. Goldenberg. Fauna sarap. foss., ii: 19.
 See also *Etblattina venusta*.

228. Blattina weissiana. (Palaeoblattariae.)

Locality: Brücken, Canton Waldmohr, Rheinpfalz. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 26, 51.
 See also *B. euglyptica* var. *weissiana*, etc.

229. Blattina weissigensis. (Palaeoblattariae.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1873. E. Geinitz. Neues jahrb. f. mineral., 1873: 692-693. Pl. 3, fig. 1.
 1873. " Verstein. unter. dyas Weissig, 2-4. Pl. 3, fig. 1.
 1875. " Neues jahrb. f. mineral., 1875: 6.
 1875. " Neue aufschl. dyas Weissig, 6.
 See also *Etblattina weissigensis*, *Blattina* (*Etblattina*) *weissigensis*.

230. Blattina (Etblattina) weissigensis. (Palaeoblattariae.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1880. Geinitz. Blatt. unter. dyas Weissig, 21. Pl. 39, fig. 11.
 1880. " Verhandl. leop. carol. akad. naturf., xli: 441. Pl. 39, fig. 11.
 See also *Etblattina weissigensis*, *Blattina weissigensis*.

231. Blattina wemmetsweileriensis. (Palaeoblattariae.)

Locality: Wemmetsweiler, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 19, 24, 51. Pl. 1, fig. 9.
 See also *Hermatoblattina wemmetsweileriensis*, etc.

232. Blattina (Hermatoblattina) wemmetsweileriensis. (Palaeoblattariae.)

Locality: Wemmetsweiler, Germany. Horizon: Carboniferous.

1883. Kliver. Neue blatt. Saarbrücken. Pl. 1, figs. 4, 4a.
 1883. " Palaeontogr., xxix. Pl. 34, figs. 4, 4a.
 See also *Hermatoblattina wemmuetsweileriensis*, etc.

233. Blattina winteriana. (Palaeoblattariae.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1870. Goldenberg. Neues jahrb. f. mineral., 1870: 288-289. Figs. 1-4.
 1877. " Fauna sarap. foss., ii: 19, 25-26, 51. Pl. 1, fig. 11.
 See also *Anthracoblattina winteriana*.

234. *Breyeria borinensis*. (Protophasmida.)Compared with *Attacus aurora*.

Locality: Mons, Belgium. Horizon: Carboniferous.

1875. Borre. Compt. rend. soc. ent. Belg., (2), No. 13: 7-11.
 1875. " Ann. soc. ent. Belg., xviii: 6-10. *Pl. 5, fig. 2; Pl. 6, fig. 2.*
 1875. " Empreint. insect. foss. Mous, 6-10. *Pl. 5, fig. 2; Pl. 6, fig. 2.*
 1875. " Gerv., Jouru. de zool., iv: 291-297.
 1875. Giard. Bull. scient. dép. Nord, vii: 121-127.
 1876. Scudder. Compt. rend. soc. ent. Belg., (2), No. 21: 2 (not a lepidopteron).
 1876. Borre. Compt. rend. soc. ent. Belg., (2), No. 22: 5-6.
 1876. Hagen. Compt. rend. soc. ent. Belg., (2), No. 22: 6 (a *Dietyonera?*).
 1876. Heer. Compt. rend. soc. ent. Belg., (2), No. 22: 6 (a *Libellula?*).
 1876. Bar. Compt. rend. soc. ent. Belg., (2), No. 28: 6 (homopterous).
 1877. McLachlan. Compt. rend. soc. ent. Belg., (2), No. 41: 5-6 (an ephemerid).
 1879. Wallace. Nature, xix: 501, 582 (lepidopteron).
 1879. McLachlan. Nature, xx: 5-6 (neuropteron).
 1879. Eaton. Nature, xx: 315 (ephemerid).
 1879. Borre. Compt. rend. soc. ent. Belg., (2), No. 65: 7-12.
 1879. " Note sur *Breyeria*, 1-6.
 1885. Scudder. Proc. Amer. acad. arts sc., xx: 171.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 64.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 284.
 1885. " Foss. ins. prim. rocks, 16.
 1885. " Jahrb. geol. reichsanst., xxxv: 659.
 1885. Scudder. Zittel, Handb. palaeont., i, ii: 757. *Fig. 940.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 757. *Fig. 956.*
 1886. " Bull. U. S. geol. surv., No. 31: 40.

See also *Pachytylopsis borinensis*.**235. *Breyeria elongata*. (Protophasmida.)**

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 171.
 See also *Dietyonera elongata*, *Goldenbergia elongata*.

236. *Caloneura dawsonii*.

Locality: Commeny. Horizon: Carboniferous.

1885. Brongniart. Ins. foss. terr. prim., 59. *Pl. [4], fig. 2.*
 1885. " Bull. soc. amis sc. Rouen, (3), xxi: 59.
 1885. " Rev. scient., (3), xxxvi: 276.
 1885. " Geol. mag., (3), ii: 487. *Pl. 12, fig. 2.*
 1885. " Trans. geol. soc. Manch., xviii. *Pl., fig. 2.*
 1885. " Jahrb. geol. reichsanst., xxxv: 655.

Calotermes affinis. See *Termes (Calotermes) affinis*.*Calotermes decheni*. See *Termes (Calotermes) decheni*.**237. *Calotermes heeri*. (Protophasmida.)**

Locality: Altenwald, Germany. Horizon: Carboniferous.

1858. Hagen. Catal. Neuropt. Brit. mus., 11 (loc. err.).
 See also *Termes (Eutermopsis) heeri*, etc.

Calotermes humboldtianus. See *Termes* (*Calotermes*) *humboldtianus*, *Dictyoneura humboldtiana*.

238. Dictyoneura ———. (Protophasmida.)

Locality: Saarbrück basin. Horizon: Carboniferous.

1883. Kliver. Neue blatt. Saarbr., 13. Pl. 2, fig. 6.
1883. " Palaeontogr., xxix: 261. Pl. 35, fig. 6.

Dictyoneura absoleta. See *Dictyoneura obsoleta*

239. Dictyoneura affinis. (Protophasmida.)

Locality: Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 170.
See also *Termes affinis*, etc.

240. Dictyoneura anthracophila. (Protophasmida.)

Locality: Gersweiler, Germany. Horizon: Carboniferous.

1854. Goldenberg. Palaeontogr., iv: 35. Pl. 6, fig. 6.
1854. " Foss. i. as. Saarbrücken, 19. Pl. 4, fig. 6.
1854-56. Bronn. Lethæa geogn., 3^{re} anfl. i, ii: 684. Pl. 9^b, fig. 15b.
1856. Giebel. Insect. d. vorwelt, 267.
1857. Hagen. Verhandl. naturh. ver. preuss. Rheinl. Westph., xiv: 44.
1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 11. Pl. 2, fig. 19 (ined.).
1873. " Fauna sarap. foss., i: 14. Pl. 2, fig. 19.
1877. " Fauna sarap. foss., ii: 50.

See also *Litoneura anthracophila*, *Goldenbergia anthracophila*.

Dictyoneura borinensis. See *Breyeria borinensis*.

241. Dictyoneura decheni. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 50.
See also *Termes* (*Eutermopsis*) *decheni*, etc.

242. Dictyoneura elegans. (Protophasmida.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 9-10, 50. Pl. 1, fig. 1.
1885. Brauer. Sitzungsab. akad. wiss. Wien, xci: 281.
See also *Polioptenus elegans*, *Goldenbergia elegans*.

243. Dictyoneura elongata. (Protophasmida.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 10-11, 50. Pl. 1, fig. 2.
1885. Brauer. Sitzungsab. akad. wiss. Wien, xci: 281.
See also *Breyeria elongata*, *Goldenbergia elongata*.

244. Dictyoneura formosa. (Protophasmida.)

Locality: Gersweiler, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 50.
See also *Termes* (*Eutermopsis*) *formosus*, etc.

245. Dictyoneura goldenbergi. (Protophasmida.)

Locality: Commeny, France. Horizon: Carboniferous.

1883. Brongniart. *Naturaliste*, v: 268.
 1883. " *Aperçu ins. foss.*, 7.
 1884. " *Compt. rend. acad. sc.*, xviii: 832-833.
 1884. " *Bull. séances soc. ent. Fr.*, 1884: 225.
 1885. " *Bull. soc. amis sc. Rouen*, (3) xxi: 62 (on pl. wrongly as *monyi*, see Errata). *Pl. 2, fig. 3.*
 1885. " *Rev. scient.*, (3), xxxvi: 277.
 1885. " *Geol. mag.*, (3), ii: 488.
 1885. " *Trans. geol. soc. Manch.*, xviii: 282.
 1885. " *Foss. ins. prim. rocks*, 13.
 1885. " *Jahrb. geol. reichsanst.*, xxxv: 657.
 1885. Scudder. *Proc. Amer. acad. arts sc.*, xx: 173.

246. Dictyoneura gracilis. (Protophasmida.)

Locality: Friedrichsthal, Saarbrück, Germany. Horizon: Carboniferous.

1886. Kliver. *Palaeontogr.*, xxxii: 107-108. *Pl. 14, figs. 7, 8.*

247. Dictyoneura haplophlebia. (Protophasmida.)

Locality: Cape Breton. Horizon: Carboniferous.

1877. Goldenberg. *Fauna saræp. foss.*, ii: 16.
 See also *Haplophlebiium barnesii*.

Dictyoneura humboldtana. See *Dictyoneura humboldtiana*.

248. Dictyoneura humboldtiana. (Protophasmida.)

Locality: Sulzbach, Germany. Horizon: Carboniferous.

1854. Goldenberg. *Palaeontogr.*, iv: 35-36. *Pl. 6, fig. 5.*
 1854. " *Foss. ins. Saarbrücken*, 19-20. *Pl. 4, fig. 5.*
 1856. Giebel. *Insect. d. vorwelt*, 267 (*humboldtana*).
 1857. Hagen. *Verhandl. naturh. ver. preuss. Rheinl. Westph.*, xiv: 44.
 1860. " *Linn. entom.*, xii: 296 (a *Calotermes*).
 1876. Roemer. *Lethæa geogn.* *Pl. 47, fig. 17.*
 1877. Goldenberg. *Fauna saræp. foss.*, ii: 50.
 1885. Scudder. *Proc. Amer. acad. arts sc.*, xx: 170.
 See also *Termes (Calotermes) humboldtiana*, *Goldenbergia humboldtiana*.

249. Dictyoneura ingens. (Protophasmida.)

Locality: England. Horizon: Carboniferous.

1884. Brongniart. *Bull. séances soc. ent. Fr.*, 1884: 226.
 See also *Archæoptilus ingens*.

250. Dictyoneura jucunda. (Protophasmida.)

Locality: Pennsylvania. Horizon: Carboniferous.

1885. Brongniart. *Bull. soc. amis sc. Rouen*, (3), xxi: 62.
 1885. " *Geol. mag.*, (3), ii: 488.
 1885. " *Trans. geol. soc. Manch.*, xviii: 282.
 1885. " *Foss. ins. prim. rocks*, 13.
 1885. " *Jahrb. geol. reichsanst.*, xxxv: 657.

See also *Titanophasma jucunda*.

251. Dictyoneura libelluloides. (Protophasmida.)

Localities: Gersweiler, Anerswald bei Saarbrück, Germany. Horizon: Carboniferous.

1854. Goldenberg. Palaeontogr., iv : 33-35. *Pl. 3, fig. 5.*
 1854. " Foss. ins. Saarbrücken, 17-19. *Pl. 1, fig. 5.*
 1856. Giebel. Insect. d. vorwelt, 266-267.
 1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 13-14. *Pl. 2, fig. 12 (ined.).*
 1873. " Fauna saræp. foss., i : 13-14. *Pl. 2, fig. 12.*
 1876. Gerstaecker. Klass. ordn. arthr., Crust., i : 289, 292 (an ephemerid).
 1877. Goldenberg. Fauna saræp. foss., ii : 50.
 1885. Brongniart. Bull. soc. amis sc. Ronen, (3), xxi : 62.
 1885. " Geol. mag., (3), ii : 488.
 1885. " Trans. geol. soc. Manch., xviii : 282.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv : 657.

See also Titanophasma libelluloides.

252. Dictyoneura monyi. (Protophasmida.)

Locality: Commeny, France. Horizon: Carboniferous.

1884. Brongniart. Compt. rend. acad. sc., xviii : 833.
 1884. " Bull. séances soc. ent. Fr., 1884 : 225.
 1885. Scudder. Proc. Amer. acad. arts sc., xx : 173.

See also *D. goldenbergi*, *Meganeura monyi*, *Meganenra (Dictyoneura) monyi*.

253. Dictyoneura nigra. (Protophasmida.)

Locality: Frankenhöltz, Bavaria. Horizon: Carboniferous.

1883. Kliver. Neue blatt. Saarbrücken, 12-13. *Pl. 2, fig. 5.*
 1883. " Palaeontogr., xxix : 260-261. *Pl. 35, fig. 5.*

See also *Goldenbergia nigra*.

254. Dictyoneura obsoleta. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna saræp. foss., ii : 11, 50 (obsoleta in plate). *Pl. 1, fig. 4.*

See also *Litonenra obsoleta*, *Goldenbergia obsoleta*.

255. Dictyoneura schmitzii. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna saræp. foss., ii : 11, 50. *Pl. 1, fig. 3.*
 1885. Scudder. Proc. Amer. acad. arts sc., xx : 170.

See also *Goldenbergia schmitzii*.

256. Dictyoneura sinuosa. (Protophasmida.)

Locality: Saarbrück basin, Germany. Horizon: Carboniferous.

1883. Kliver. Neue blatt. Saarbrücken, 11-12. *Pl. 2, fig. 4.*
 1883. " Palaeontogr., xxix : 259-260. *Pl. 35, fig. 4.*
 1885. Scudder. Proc. Amer. acad. arts sc., xx : 170.

See also *Goldenbergia sinuosa*.

257. Dictyopteris didyma. (Paleoblattariae.)

Locality: Germany. Horizon: Carboniferous.

1839. Rost. De filicum ectypis, 21.

See also *Blattina didyma*, etc.

258. *Etblattina affinis*. (Palæoblattariæ.)

Locality: Löbejün, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 62. *Pl. 2, fig. 2.*
 1890. " Foss. ins. N. A., i: 82. *Pl. 2, fig. 2.*

See also *Blattina affinis*.

259. *Etblattina anaglyptica*. (Palæoblattariæ.)

Locality: Wettin, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 69-70. *Pl. 2, fig. 15.*
 1890. " Foss. ins. N. A., i: 89-90. *Pl. 2, fig. 15.*

See also *Blattina anaglyptica*, etc.

260. *Etblattina anthracophila*. (Palæoblattariæ.)

Locality: Wettin, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 64-65. *Pl. 2, fig. 1.*
 1890. " Foss. ins. N. A., i: 84-85. *Pl. 2, fig. 1.*

See also *Blattina anthracophila*, *Blattina anaglyptica*, etc.

261. *Etblattina balteata*. (Palæoblattariæ.)

Locality: West Virginia. Horizon: Permo-carboniferous.

1889. Scudder. Proc. Bost. soc. nat. hist., xxiv: 46, 48.
 1889. Lesley. Dict. foss. Penns., i: p. xxii-xxiii.

See also *Gerablattina balteata*.

***Etblattina bituminosa*.** See *Blattina (Etblattina) bituminosa*.

262. *Etblattina carbonaria*. (Palæoblattariæ.)

Localities: Wettin, Weissig?, Germany. Horizon: Upper Carboniferous, Dyas?

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 73-74. *Pl. 2, fig. 3.*
 1887. Deichmüller. Ber. senckenb. gesellsch. Frankf., 1886-'87: 93-94. *Pl. 3, fig. 3.*
 1890. Scudder. Foss. ins. N. A., i: 93-94. *Pl. 2, fig. 3.*

See also *Blattina carbonaria*, B. (*Etblattina*) *carbonaria* var. *deichmülleri*, *Etblattina carbonaria* var.

263. *Etblattina carbonaria* var. (Palæoblattariæ.)

Locality: Weissig, Germany. Horizon: Dyas.

1882. Deichmüller. Sitzungsber. gesellsch. Isis, 1882: 38-40. *Pl. 1, figs. 2-3.*

See also *Etblattina carbonaria*, etc.

264. *Etblattina didyma*. (Palæoblattariæ.)

Localities: Wettin, Ilmenau, Germany. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 75-76. *Pl. 2, fig. 13.*
 1890. " Foss. ins. N. A., i: 95-96. *Pl. 2, fig. 13.*

See also *Blattina didyma*, etc.

265. *Etblattina dohrnii*. (Palæoblattariæ.)

Locality: Wettin, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 66-67. *Pl. 2, fig. 5.*
 1890. " Foss. ins. N. A., i: 86-87. *Pl. 2, fig. 5.*

See also *Blattina euglyptica*, etc.

266. *Etoblattina elongata.* (Palaeoblattariae.)

Locality: Weissig, Germany. Horizon: Lower Dyas.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 80-81. *Pl. 2, fig. 10.*

1890. " Foss. ins. N. A., i: 100-101. *Pl. 2, fig. 10.*

See also *Blattina cf. mahri*, B. (*Etoblattina*) *elongata*.

267. *Etoblattina euglyptica.* (Palaeoblattariae.)

Locality: Wettin, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 60-61. *Pl. 2, fig. 16; Pl. 4, fig. 7.*

1890. " Foss. ins. N. A., i: 80-81. *Pl. 2, fig. 16; Pl. 4, fig. 7.*

See also *Blattina euglyptica*, etc.

268. *Etoblattina fasciata.* (Palaeoblattariae.)

Localities: Richmond, Ohio; Cassville, W. Va. Horizon: Upper Carboniferous.

1889. Scudder. Proc. Bost. soc. nat. hist., xxiv: 47-48.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

269. *Etoblattina flabellata.* (Palaeoblattariae.)

Localities: Wettin, Weissig, Germany. Horizon: Upper Carboniferous, Dyas.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 62-64. *Pl. 2, fig. 4.*

1890. " Foss. ins. N. A., i: 82-84. *Pl. 2, fig. 4.*

See also *Blattina flabellata*, etc.

270. *Etoblattina flabellata var. stelzneri.* (Palaeoblattariae.)

Locality: Weissig, Germany. Horizon: Dyas.

1882. Deichmüller. Sitzungsber. gesellsch. Isis, 1882: 34-38. *Pl. 1, fig. 1, 1 a-d.*

See also *Blattina flabellata*, etc., *Etoblattina flabellata*.

271. *Etoblattina hustoni.* (Palaeoblattariae.)

Locality: Richmond, Ohio. Horizon: Barren Coal Measures.

1889. Scudder. Proc. Bost. soc. nat. hist., xxiv: 53.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

272. *Etoblattina insignis.* (Palaeoblattariae.)

Locality: Saarbrück, Germany. Horizon: Middle Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 82-83. *Pl. 2, fig. 7; Pl. 4, fig. 9.*

1890. " Foss. ins. N. A., i: 102-103. *Pl. 2, fig. 7; Pl. 4, fig. 9.*

See also *Blattina insignis*, *Leptoblattina insignis*.

273. *Etoblattina intermedia.* (Palaeoblattariae.)

Locality: Wemnetsweiler, Germany. Horizon: Middle Carboniferous.

1883. Kliver. Neue blatt. Saarbrück., 9-10. *Pl. 2, fig. 2, 2a.*

1883. " Palaeontogr., xxix: 257-258. *Pl. 35, fig. 2, 2a.*

See also *Gerablattina intermedia*, etc.

274. *Etoblattina johnsoni.* (Palaeoblattariae.)

Locality: Coseley, vic. Dudley, England. Horizon: Carboniferous.

1887. Woodward. Geol. mag., (3), iv: 53-55. *Pl. 2, fig. 1a-b.*

Bull. 71—4

275. *Etoblattina labachensis*. (Palæoblattariæ.)

Locality: Labach, Germany. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 59-60. *Pl. 3, fig. 5.*

1890. " Foss. ins. N. A., i: 79-80. *Pl. 3, fig. 5.*

See also *Blattina labachensis*, *B. anaglyptica* var. *labachensis*, *Blattina anaglyptica*, etc.

276. *Etoblattina lanceolata*. (Palæoblattariæ.)

Locality: Lugau, Saxony. Horizon: Carboniferous.

1881. Sterzel. Ber. naturw. gesellsch. Chemn., vii: 273.

See also *Blattina (Etoblattina) lanceolata*.

277. *Etoblattina leptophlebica*. (Palæoblattariæ.)

Locality: Löbejün, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 77-79. *Pl. 3, fig. 9.*

1890. " Foss. ins. N. A., i: 97-99. *Pl. 3, fig. 9.*

See also *Blattina leptophlebica*.

278. *Etoblattina lesquereuxii*. (Palæoblattariæ.)

Locality: Vic. Pittston, Pa. Horizon: Middle Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 67-69. *Pl. 6, figs. 3, 4; fig. on p. 68.*

1883. Laccoe. List pal. foss. ins., 6.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

1889. Miller. N. A. geol. and pal., 576.

1890. Scudder. Foss. ins. N. A., i: 87-89. *Pl. 6, figs. 3, 4; fig. on p. 88.*

279. *Etoblattina manebachensis*. (Palæoblattariæ.)

Locality: Manebach, Germany. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 79-80. *Pl. 2, fig. 14.*

1885. " Zittel, Handb. palæont., i, th. ii: 754. *Fig. 932.*

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 754. *Fig. 949.*

1886. Brauer. Ann. naturh. hofmus., i: 115-116. *Pl. 7, fig. 8.*

1890. Scudder. Foss. ins. N. A., i: 99-100. *Pl. 2, fig. 14.*

See also *Blattina manebachensis*, *B. (Etoblattina) manebachensis*.

280. *Etoblattina mantidioides*. (Palæoblattariæ.)

Locality: Claxheugh, Durham, England. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 72-73. *Pl. 3, fig. 8; fig. on p. 73.*

1881. Scudder. Geol. mag., (2), viii: 300.

1883. " Mem. Bost. soc. nat. hist., iii: 223.

1890. " Foss. ins. N. A., i: 92-93, 245. *Pl. 3, fig. 8; fig. on p. 93.*

See also *Blattidium mantidioides*, etc.

281. *Etoblattina marginata*. (Palæoblattariæ.)

Locality: Richmond, Ohio. Horizon: Barren Coal Measures.

1889. Scudder. Proc. Bost. soc. nat. hist., xxiv: 48-50.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

282. *Etoblattina mazona*. (Palæoblattariæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1882. Scudder. Mem. Bost. soc. nat. hist., iii: 181. *Pl. 10.*

1882. " Proc. Bost. soc. nat. hist., xxi: 391-396.

1883. Lacoe. List pal. foss. ins., 6.
 1886. Scudder. Miall, Cockroach, 211. Fig. 120.
 1887. Woodward. Geol. mag., (3), iv: 53. Fig. 4.
 1889. Lesley. Dict. foss. Penns., i: p. xxiii.
 1889. Miller. N. A. geol. and pal., 577 (mazonana).
 1890. Scudder. Foss. ins. N. A., i: 233. Pl. 7a.

Etoblattina mazonana. See *Etoblattina mazona*.

283. *Etoblattina occidentalis.* (Palaeoblattariæ.)

Locality: Lawrence, Kans. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 410-411. Pl. 32, fig. 4.
 1890. " Foss. ins. N. A., i: 386-387. Pl. 24, fig. 4.

284. *Etoblattina ornatissima.* (Palaeoblattariæ.)

Locality: Grügelborn, Germany. Horizon: Carboniferous.

1887. Deichmüller. Ber. senckenb. gesellsch. Frankf., 1886-'87: 90-92. Pl. 3, fig. 1.

285. *Etoblattina parvula.* (Palaeoblattariæ.)

Locality: Löbejün, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 81. Pl. 2, fig. 9.
 1890. " Foss. ins. N. A., i: 101. Pl. 2, fig. 9.

See also *Blattina parvula*.

286. *Etoblattina peachii.* (Palaeoblattariæ.)

Locality: Kiluanrs, Scotland. Horizon: Carboniferous.

1887. Woodward. Geol. mag., (3), iv: 433-435. Pl. 12, fig. 1.

287. *Etoblattina primæva.* (Palaeoblattariæ.)

Locality: Gersweiler, Germany. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 58-59. Pl. 3, fig. 7.
 1889. Miller. N. A. geol. and pal. Fig. 1080.
 1890. Scudder. Foss. ins. N. A., i: 78-79. Pl. 3, fig. 7.

See also *Blattina primæva*.

288. *Etoblattina propria.* (Palaeoblattariæ.)

Locality: Saarbrück basin, Germany. Horizon: Carboniferous.

1883. Kliver. Neue blatt. Saarbrück., 10-11. Pl. 2, fig. 3.
 1883. " Palaeontogr., xxix: 258-259. Pl. 35, fig. 3.

See also *Blattina propria*.

289. *Etoblattina rollei.* (Palaeoblattariæ.)

Locality: Grügelborn, Germany. Horizon: Carboniferous.

1887. Deichmüller. Ber. senckenb. gesellsch. Frankf., 1886-'87: 92-93. Pl. 3, fig. 2.

290. *Etoblattina russoma.* (Palaeoblattariæ.)

Locality: Löbejün, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 76-77. Pl. 2, fig. 6.
 1890. " Foss. ins. N. A., i: 96-97. Pl. 2, fig. 6.

See also *Blattina russoma*.

291. *Etoblattina steinbachensis.* (Palaeoblattariæ.)

Locality: Steinbachthal, Germany. Horizon: Carboniferous.

1886. Kliver. Palaeontogr., xxxii: 100-104. *Pl.* 14, *figs.* 2, 3.

292. *Etoblattina stipata.* (Palaeoblattariæ.)

Locality: Richmond, Ohio. Horizon: Barren Coal Measures.

1889. Scudder. Proc. Bost. soc. nat. hist., xxiv: 50-51.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

293. *Etoblattina strigosa.* (Palaeoblattariæ.)

Locality: Richmond, Ohio. Horizon: Barren Coal Measures.

1889. Scudder. Proc. Bost. soc. nat. hist., xxiv: 52-53.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

294. *Etoblattina tenuis.* (Palaeoblattariæ.)

Locality: Richmond, Ohio. Horizon: Barren Coal Measures.

1889. Scudder. Proc. Bost. soc. nat. hist., xxiv: 46-47.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

295. *Etoblattina variegata.* (Palaeoblattariæ.)

Locality: Richmond, Ohio. Horizon: Barren Coal Measures.

1889. Scudder. Proc. Bost. soc. nat. hist., xxiv: 51-52.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

296. *Etoblattina venusta.* (Palaeoblattariæ.)

Locality: Frog Bayou, Ark. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 70-72. *Pl.* 6, *fig.* 12.

1883. Lacoe. List. pal. foss. ins., 7.

1889. Lesley. Dict. foss. Penns., i: p. xxiii.

1889. Miller. N. A. geol. and pal., 577. *Fig.* 1081.

1890. Scudder. Foss. ins. N. A., i: 90-92. *Pl.* 6, *fig.* 12.

See also *Blattina venusta*.

297. *Etoblattina weissigensis.* (Palaeoblattariæ.)

Locality: Weissig, Germany. Horizon: Dyas.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 65-66. *Pl.* 6, *fig.* 5.

1890. " Foss. ins. N. A., i: 85-86. *Pl.* 6, *fig.* 5.

See also *Blattina weissigensis*, B. (*Etoblattina weissigensis*).

Eurypterus granosus. See *Adelophthalmus (Eurypterus) granosus*

Eutermopsis affinis. See *Termes (Eutermopsis) affinis*.

Eutermopsis decheni. See *Termes (Eutermopsis) decheni*.

Eutermopsis formosus. See *Termes (Eutermopsis) formosus*.

Eutermopsis heeri. See *Termes (Eutermopsis) heeri*.

298. Gerablattina balteata. (Paleoblattariae.)

Localities: Cassville, W. Va., Bellaire, Ohio. Horizon: Upper Carboniferous, Permo-Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 110-112. *Pl. 6, figs. 9, 10.*
 1880. " Font.-White, Perm. flora W. Va. (Rep. 2d geol. surv. Penn., PP),
 104. *Pl. 3^d, figs. 5, 5a.*
 — Font.-White. Upper carb. flora W. Va. (*Blattina* sp.). *Pl. 22, figs. 16, 16a.*
 (ined.).
 1883. Lacoe. List. pal. foss. ins., 7, 8.
 1889. Lesley. Dict. foss. Penns., i: 253. *Figs.*
 1889. Miller. N. A. geol. and pal., 577. *Fig. 1083.*
 1890. Scudder. Foss. ins. N. A., i: 130-132. *Pl. 6, figs. 9, 10.*

See also *Etblattina balteata*.

299. Gerablattina clathrata. (Palaeoblattariae.)

Locality: Manebach, Thüringen. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 100-101. *Pl. 3, fig. 4.*
 1890. " Foss. ins. N. A., i: 120-121. *Pl. 3, fig. 4.*

See also *Blattina clathrata*, *B. latinervis*.

300. Gerablattina fascigera. (Palaeoblattariae.)

Locality: Pittston, Pa. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 113-115. *Pl. 6, figs. 1, 2.*
 1883. Lacoe. List. pal. foss. ins., 8.
 1889. Lesley. Dict. foss. Penns., i: p. xxv, 254. *2 figs.*
 1889. Miller. N. A. geol. and pal., 577.
 1890. Scudder. Foss. ins. N. A., i: 133-135. *Pl. 6, figs. 1, 2.*

See also *Blattina fascigera*.

301. Gerablattina geinitzi. (Paleoblattariae.)

Locality: Löbejün, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 103-104. *Pl. 2, fig. 11.*
 1890. " Foss. ins. N. A., i: 123-124. *Pl. 2, fig. 11.*

See also *Blattina geinitzi*.

302. Gerablattina germari. (Palaeoblattariae.)

Locality: Wettin, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 107-108. *Pl. 3, fig. 6.*
 1890. " Foss. ins. N. A., i: 127-128. *Pl. 3, fig. 6.*

See also *Blatta germari*, etc.

303. Gerablattina goldenbergi. (Paleoblattariae.)

Locality: Manebach, Thüringen. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 98-99. *Pl. 3, fig. 13.*
 1890. " Foss. ins. N. A., i: 118-119. *Pl. 3, fig. 13.*

See also *Blattina goldenbergi*.

304. Gerablattina intermedia. (Palaeoblattariae.)

Locality: Wemmetsweiler, Germany. Horizon: Middle Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 101-102. *Pl. 3, fig. 11.*
 1883. Kliver. Neue blatt. Saarbrück., 9-10. *Pl. 2, figs. 2, 2a.*
 1883. " Palaeontogr., xxix: 257-258. *Pl. 35, figs. 2, 2a.*
 1890. Scudder. Foss. ins. N. A., i: 121-122. *Pl. 3, fig. 11.*

See also *Blattina intermedia*, *B. (Gerablattina) intermedia*, *Etblattina intermedia*.

305. Gerablattina mahri. (Palæoblattariæ.)

Locality: Manebach, Thüringen. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 108-109. *Pl. 3, fig. 14.*

1890. " Foss. ins. N. A., i: 128-129. *Pl. 3, fig. 14.*

See also *Blattina mahri*.

306. Gerablattina münsteri. (Palæoblattariæ.)

Locality: Wettin, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 104-106. *Pl. 2, fig. 12.*

1890. " Foss. ins. N. A., i: 124-126. *Pl. 2, fig. 12.*

See also *Blattina flabellata*, *Etoblattina flabellata*.

307. Gerablattina producta. (Palæoblattariæ.)

Locality: Wettin, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 106-107. *Pl. 3, fig. 2.*

1890. " Foss. ins. N. A., i: 126-127. *Pl. 3, fig. 2.*

See also *Blattina englyptica*, etc.

308. Gerablattina robusta. (Palæoblattariæ.)

Locality: Wemmetsweiler, Germany. Horizon: Carboniferous.

1883. Kliver. Nene blatt. Saarbrück., 7. *Pl. 1, figs. 3, 3a.*

1883. " Palæontogr., xxix: 255. *Pl. 34, figs. 3, 3a.*

309. Gerablattina scaberata. (Palæoblattariæ.)

Locality: Altenwald, Germany. Horizon: Middle Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 102-103. *Pl. 3, fig. 3.*

1890. " Foss. ins. N. A., i: 122-123. *Pl. 3, fig. 3.*

See also *Blattina scaberata*.

310. Gerablattina weissiana. (Palæoblattariæ.)

Locality: Brücken, Rheinpfalz. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 109-110. *Pl. 3, fig. 1.*

1890. " Foss. ins. N. A., i: 129-130. *Pl. 3, fig. 1.*

See also *Blattina englyptica* var. *weissiana*, etc.

311. Gerephemera simplex.

Locality: St. John, New Brunswick. Horizon: Devonian.

1865. Scudder. Devon. ins. N. Brunsw., 1 (unnamed).

1865. " Bailey, Obs. geol. south. N. Brunsw., 140 (unnamed).

1865. " Amer. Journ. sc., (2), xxxix: 357 (unnamed).

1865. " Can. nat., n. s., ii: 235 (unnamed).

1865. " Trans. ent. soc. Lond., (3), ii: 117 (unnamed).

1868. " Geol. mag., v: 174, 175.

1880. " Dev. ins. N. Brunsw. (Anniv. mem. Bost. soc. nat. hist.), 12-16.

Pl. 1, figs. 8, 8a.

1881. Hagen. Bull. mus. comp. zool., viii: 277-278.

1883. Lacoe. List pal. foss. ins., 8.

1885. Scudder. Early winged ins. Amer., 2-3. *Pl., figs. 8, 9.*

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 56.

1885. Hagen. Nature, xxxii: 54.

1885. " Zool. anz., viii: 298-300.

1885. Brongniart. Geol. mag., (3), ii: 484.

1885. Brongniart. Trans. geol. soc. Manch., xviii: 275.
 1885. " Foss. ins. prim. rocks, 7.
 1885. " Jahrb. geol. reichsanst., xxxv: 653.
 1886. Braner. Ann. naturh. hofmus., i: 111.
 1889. Miller. N. A. geol. and pal., 577.
 1890. Scudder. Foss. ins. N. A., i: 164-168, 276-277. Pl. 7, figs. 8, 8a; Pl. 14, figs. 8, 9.

312. *Goldenbergia affinis*. (Protophasmida.)

Locality: Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Termes affinis*, etc.

313. *Goldenbergia amissa*.

Locality: Altenwald, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Termitidium amissum*.

314. *Goldenbergia anthracophila*. (Protophasmida.)

Locality: Gersweiler, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Dictyonera anthracophila*, *Litoneura anthracophila*.

Goldenbergia contusa. See I, NEUROPT., Idem.

315. *Goldenbergia decheni*. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 171.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Termes (Entermopsis) decheni*, etc.

316. *Goldenbergia elegans*. (Protophasmida.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Dictyonera elegans*, *Polioptenus elegans*.

317. Goldenbergia elongata, Germany. (Protophasmida.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 171.
 1885. " Mem. Bost. soc. nat. hist., iii: 322, note.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.
 1890. Scudder. Foss. ins. N. A., i: 286 note 3.

See also *Dictyonera elongata*, *Breyeria elongata*.**318. Goldenbergia formosa**. (Protophasmida.)

Locality: Gersweiler, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 172.

See also *Termes (Entermopsis) formosus*, etc.**319. Goldenbergia heeri**. (Protophasmida.)

Locality: Alteuwald, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 172.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Termes (Entermopsis) heeri*, etc.**320. Goldenbergia humboldtiana**. (Protophasmida.)

Locality: Sulzbach, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Dictyonera humboldtiana*, etc.**321. Goldenbergia laxa**. (Protophasmida.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Termes laxus*, etc.**322. Goldenbergia longitudinalis**.

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Termes longitudinalis*.

323. *Goldenbergia nigra*. (Protophasmida.)

Locality: Bavaria. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 171.

See also *Dictyonera nigra*.**324. *Goldenbergia obsoleta*.** (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 62.

1885. " Geol. mag., (3), ii: 488.

1885. " Trans. geol. soc. Manch., xviii: 281.

1885. " Foss. ins. prim. rocks, 13.

1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Dictyonera obsoleta*, etc.**325. *Goldenbergia schmitzii*.** (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 62 (*schmitzii*).

1885. " Geol. mag., (3), ii: 488.

1885. " Trans. geol. soc. Manch., xviii: 281.

1885. " Foss. ins. prim. rocks, 13.

1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Dictyonera schmitzii*.**326. *Goldenbergia sinuosa*.** (Protophasmida.)

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 62.

1885. " Geol. mag., (3), ii: 488.

1885. " Trans. geol. soc. Manch., xviii: 281.

1885. " Foss. ins. prim. rocks, 13.

1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Dictyonera sinuosa*.***Goldenbergia smitzii*.** See *Goldenbergia schmitzii*.***Gryllacris (Corydalis) brongniarti*.** See I, NEUROPT., *Idem*.**327. *Haplophlebium barnesii*.** (Protophasmida.)

Locality: Cape Breton. Horizon: Carboniferous.

1867. Scudder. Proc. Bost. soc. nat. hist., xi: 151.

1867. " Geol. mag., iv: 386. *Pl. 17, fig. 1a.*

1868. " Can. nat., (2), iii: 202-206.

1868. " Dawson, Acad. geol., 2d ed., 386-388. *Figs. 152, 152a.*1868. " Amer. nat., i: 631. *Pl. 16, figs. 8, 8a.*

1868. " Geol. mag., v: 177.

1872. Packard. Guide ins., 3d ed., 78. *Pl. 1, figs. 8, 8a.*

1877. Goldenberg. Fauna sarcep. foss., ii: 50.

1877. Nicholson. Life hist. earth, 182. *Fig. 125.*1879. " Manual palaeont., 2d ed., i: 406. *Fig. 257.*1880. Dawson. Dawn of life, 147. *Fig. 128.*

1883. Lacoe. List pal. foss. ins., 8.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 172.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.

1885. " Geol. mag., (3), ii: 488.

1885. Brongniart. Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.
 1889. Lesley. Dict. foss. Penns., i: 271-272. *Fig.*
 1889. Miller. N. A. geol. and pal., 577-578. *Fig.* 1085.
 1889. Nicholson. Man. palæont., 3d ed., i: 594. *Fig.* 444.
 See also *Dictyoneura haplophlebia*.

328 *Haplophlebiium longipennis*. (Protophasmida.)

Locality: Pittston, Pa. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 172.
 1885. Brongniart. Bull. soc. amis sc. Ronen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 4-8.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.
 1889. Lesley. Dict. foss. Penns., i: 272 (*longipinnis*).
 1889. Miller. N. A. geol. and pal., 578.

Haplophlebiium longipinnis. See *Haplophlebiium longipennis*.

329. *Hermatoblattina kirkbyi*. (Palæoblattariae.)

Locality: Fifeshire, Scotland. Horizon: Upper Carboniferous.

1887. Scudder. Proc. Bost. soc. nat. hist., xxiii: 357.
 See also *Lithomylaeris kirkbyi*.

330. *Hermatoblattina lebachensis*. (Palæoblattariae.)

Locality: Lebach, Germany. Horizon: Dyas.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 117-118. *Pl. 4, fig. 11.*
 1890. " Foss. ins. N. A., i: 137-138. *Pl. 4, fig. 11.*
 See also *Blattina lebachensis*.

331. *Hermatoblattina wemmetsweileriensis*. (Palæoblattariae.)

Locality: Wemmetsweiler, Germany. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 115-116. *Pl. 4, fig. 14.*
 1883. Kliver. Neue blatt. Saarbr., 8-9. *Pl. 1, figs. 4, 4a.*
 1883. " Palæontogr., xxix: 256-257. *Pl. 34, figs. 4, 4a.*
 1890. Scudder. Foss. ins. N. A., i: 135-136. *Pl. 4, fig. 14.*

See also *Blattina wemmetsweileriensis*, B. (*Hermatoblattina*) *wemmetsweileriensis*.

332. *Leptoblattina exilis*. (Palæoblattariae.)

Locality: Coseley, vicinity Dudley, England. Horizon: Carboniferous.

1887. Woodward. Geol. mag., (3), iv: 56-58. *Pl. 2, figs. 2-3; Pl. 12, fig. 2.*

333. *Leptoblattina insignis*. (Palæoblattariae.)

Locality: Saarbrück, Germany. Horizon: Middle Carboniferous.

1887. Woodward. Geol. mag., (3), iv: 58.
 See also *Etoblattina insignis*, etc.

Libellula borinensis. See *Breyeria borinensis*.

Lithomantis carbonaria. See I, NEUROPT., *Idem*.

334. *Lithomylacris angusta.* (Palaoblattaria.)

Locality: Pittston, Pa. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 48-50 (angustum). *Pl. 5, figs. 2-3.*
 1883. Lacoe. List pal. foss. ins., 10.
 1885. Scudder. Zittel, Handb. palacont., i, th. ii: 754. *Fig. 931.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 754. *Fig. 948.*
 1889. Lesley. Dict. foss. Penns., i: 351. 3 *figs.*
 1889. Miller. N. A. geol. and pal., 579. *Fig. 1089.*
 1890. Scudder. Foss. ins. N. A., i: 68-70. *Pl. 5, figs. 2-3.*

335. *Lithomylacris kirkbyi.* (Palaoblattaria.)

Locality: Meithil, Fifeshire, Scotland. Horizon: Upper Carboniferous.

1887. Woodward. Geol. mag., (3), iv: 55-56. *Pl. 2, fig. 4ab.*

See also *Hermatoblattina kirkbyi.***336. *Lithomylacris pauperata.* (Palaoblattaria.)**

Locality: Port Griffith, Pa. Horizon: Carboniferous.

1883. Scudder. Mss. (pauperatum).
 1883. Lacoe. List pal. foss. ins., 10.
 1889. Lesley. Dict. foss. Penns., i: 352.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 409-410. *Pl. 32, fig. 5.*
 1890. " Foss. ins. N. A., i: 385-386. *Pl. 24, fig. 5.*

337. *Lithomylacris pittstoniana.* (Palaoblattaria.)

Locality: Pittston, Pa. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 50-51 (pittstonianum). *Pl. 5, figs. 4, 10.*
 1883. Lacoe. List pal. foss. ins., 10.
 1889. Lesley. Dict. foss. Penns., i: 352. 2 *figs.*
 1890. Scudder. Foss. ins. N. A., i: 70-71. *Pl. 5, figs. 4, 10.*

338. *Lithomylacris simplex.* (Palaoblattaria.)

Locality: Vicinity Danville, Ill. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 51-52. *Pl. 5, fig. 5.*
 1883. Lacoe. List pal. foss. ins., 10.
 1889. Lesley. Dict. foss. Penns., i: 351, xxxi.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 71-72. *Pl. 5, fig. 5.*

Lithophasma lithanthraca. See I, NEUROPT., *Idem.***339. *Litoneura anthracophila.* (Protophasmida.)**

Locality: Gersweiler, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 169.

See also *Dictyoneura anthracophila*, *Goldenbergia anthracophila.***340. *Litoneura laxa.* (Protophasmida.)**

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 169.

See also *Termes latus*, etc.

341. Litoneura obsoleta. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts. sc., xx: 169.

See also *Dictyonera obsoleta*, etc.

342. Mantis? ———.

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1868. Scudder. Worthen, Geol. surv. Ill., iii: 567-568. *Fig.* 3.

Megablattina kliveri. See I, HEMIPT., *Idem*.

343. Meganeura monyi. (Protophasmida.)

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 60.

1885. " Rev. scient., (3), xxxvi: 277.

1885. " Geol. mag., (3), ii: 487.

1885. " Trans. geol. soc. Manch., xviii: 279-280.

1885. " Foss. ins. prim. rocks, 11.

See also *Dictyonera monyi*, etc.

344. Meganeura (Dictyonera) monyi. (Protophasmida.)

Locality: Commentry, France. Horizon: Carboniferous.

1886. Brauer. Ann. naturhist. hofmus., i: 107-108, 114.

See also *Dictyonera monyi*, etc.

345. Megaptilus blanchardi.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.

1885. " Rev. scient., (3), xxxvi: 277.

1885. " Geol. mag., (3), ii: 488.

1885. " Trans. geol. soc. Manch., xviii: 281.

1885. " Foss. ins. prim. rocks, 13.

1885. " Jahrb. geol. reichsanst., xxxv: 657.

1886. Brauer. Ann. naturh. hofmus., i: 109, 110.

See also *Titanophasma fayoli*.

346. Mylacris anthracophila. (Palaeoblattariae.)

Locality: Colchester, Ill. Horizon: Lower Coal Measures.

1868. Scudder. Worthen, Geol. surv. Ill., iii: 568-570. *Figs.* 5, 6.

1879. " Mem. Bost. soc. nat. hist., iii: 45-47 (*anthracophilum*). *Pl.* 5,
figs. 6-8.

1883. Lacoe. List pal. foss. ins., 11-12.

1884. Scudder. Mem. Bost. soc. nat. hist., iii: 307.

1885. " Zittel, Handb. palaeont., i, ii: 754. *Fig.* 930.

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 754. *Fig.* 947.

1886. " Miall, *Cockroach*, 212. *Fig.* 121.

1887. Woodward. Geol. mag., (3), iv: 55. *Fig.* 5.

1889. Lesley. Dict. foss. Penns., i: 435. *Fig.*

1889. Miller. N. A. geol. and pal., 579. *Figs.* 1091, 1092.

1890. Scudder. Foss. ins. N. A., i: 65-67, 271. *Pl.* 5, *figs.* 6-8.

347. *Mylacris antiqua.* (Palæoblattariae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1884. Scudder. Mem. Bost. soc. nat. hist., iii: 300-301 (antiquum).
 1889. Lesley. Dict. foss. Penns., i: 435.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 264-265.

348. *Mylacris bretonensis.* (Palæoblattariae.)

Locality: Sydney, Cape Breton. Horizon: Middle Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 41-42 (bretonense). *Pl. 5, fig. 1.*
 1883. Lacoe. List pal. foss. ins., 12.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 300.
 1889. Lesley. Dict. foss. Penns., i: 435.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 61-62, 264. *Pl. 5, fig. 1.*

See also *Blattina bretonensis*.**349. *Mylacris carbonum.*** (Palæoblattariae.)

Localities: Wilkes Barre, Cannelton, Pa. Horizon: Carboniferous.

1883. Scudder. MSS.
 1883. Lacoe. List pal. foss. ins., 12.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 304-307. *Pl. 27, figs. 6, 7, 10.*
 1889. Lesley. Dict. foss. Penns., i: 435.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 268-271. *Pl. 13, figs. 6, 7, 10.*

350. *Mylacris heeri.* (Palæoblattariae.)

Locality: Sydney, Cape Breton. Horizon: Middle Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 43-44. *Pl. 5, fig. 11.*
 1883. Lacoe. List pal. foss. ins., 12.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 300.
 1889. Lesley. Dict. foss. Penns., i: 435.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 63-64, 264. *Pl. 5, fig. 11.*

See also *Blattina heeri*.**351. *Mylacris lucifuga.*** (Palæoblattariae.)

Locality: Pittston, Pa. Horizon: Carboniferous.

1883. Scudder. Mss. (lucifugum).
 1883. Lacoe. List pal. foss. ins., 12.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 301-302. *Pl. 27, fig. 8.*
 1889. Lesley. Dict. foss. Penns., i: 435.
 1890. Scudder. Foss. ins. N. A., i: 265-266. *Pl. 13, fig. 8.*

352. *Mylacris mansfieldi.* (Palæoblattariae.)

Locality: Cannelton, Pa. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 47. *Pl. 5, fig. 15.*
 1883. Lacoe. List pal. foss. ins., 12.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 308.
 1889. Lesley. Dict. foss. Penns., i: 436. *Fig.*
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 377-378.
 1890. " Foss. ins. N. A., i: 67, 272, 401-402. *Pl. 5, fig. 15.*

353. *Mylacris ovalis*. (Palaoblattariae.)

Locality: Cannelton, Pa. Horizon: Carboniferous.

1883. Scudder. Mss. (ovale).
 1883. Lacoe. List pal. foss. ins., 12.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 308-309. *Pl. 27, fig. 5.*
 1889. Lesley. Dict. foss. Penns., i: 436.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 272-273. *Pl. 13, fig. 5.*

354. *Mylacris packardii*. (Palaoblattariae.)

Locality: Bristol, R. I. Horizon: Carboniferous.

1885. ——— Rand. notes nat. hist., ii: 64 (name only).
 See also *Blatta americana*.

355. *Mylacris pennsylvanica*. (Palaoblattariae.)

Locality: Cannelton, Pa. Horizon: Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 44-45 (pennsylvanicum). *Pl. 5, figs. 13-14.*
 1883. Lacoe. List pal. foss. ins., 12-13.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 302-304. *Pl. 27, fig. 11.*
 1889. Lesley. Dict. foss. Penns., i: 436. *2 figs.*
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 64-65, 266-268. *Pl. 5, figs. 13, 14; Pl. 13, fig. 11.*

356. *Mylacris priscovolans*. (Palaoblattariae.)

Locality: Cannelton, Pa. Horizon: Carboniferous.

1883. Scudder. Mss.
 1883. Lacoe. List pal. foss. ins., 13.
 1884. Scudder. Mem. Bost. soc. nat. hist., iii: 307-308. *Pl. 27, fig. 9.*
 1889. Lesley. Dict. foss. Penns., i: 436.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 271-272. *Pl. 13, fig. 9.*

357. *Necymylacris heros*. (Palaoblattariae.)

Locality: Cannelton, Pa. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 54-56. *Pl. 5, fig. 9.*
 1883. Lacoe. List pal. foss. ins., 13.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Lesley. Dict. foss. Penns., ii: 448. *Fig.*
 1890. Scudder. Foss. ins. N. A., i: 74-76. *Pl. 5, fig. 9.*

358. *Necymylacris lacoana*. (Palaoblattariae.)

Locality: Vicinity Pittston, Pa. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 53-54 (lacoanum). *Pl. 5, fig. 12.*
 1883. Lacoe. List pal. foss. ins., 13.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Lesley. Dict. foss. Penns., ii: 448. *Fig.*
 1890. Scudder. Foss. ins. N. A., i: 73-74. *Pl. 5, fig. 12.*

359. *Cedischia williamsonii*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 58-59. *Pl. 1, fig. 3.*

360. Oryctoblattina arndti. (Palæoblattariae.)

Locality: Třemošná, Bohemia. Horizon: Carboniferous.

1888. Kušta. Veštn. král. česke spol. nauk, 1888: 387-393. *Fig.***361. Oryctoblattina oblonga.** (Palæoblattariae.)

Locality: Weissig, Germany. Horizon: Dyas.

1882. Deichmüller. Sitzungsab. gesellsch. Isis, 1882: 41-42. *Pl. 1, fig. 4.***362. Oryctoblattina occidua.** (Palæoblattariae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 37.

1889. Miller. N. A. geol. and pal., 579.

1890. Lesley. Dict. foss. Penns., ii: 503.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 414-415. *Pl. 32, fig. 3.*1890. " Foss. ins. N. A., i: 390-391. *Pl. 24, fig. 3.***363. Oryctoblattina reticulata.** (Palæoblattariae.)

Locality: Wettin, Saxony. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 122-123. *Pl. 4, fig. 13.*1890. " Foss. ins. N. A., i: 142-143. *Pl. 4, fig. 13.*See also *Blattina reticulata*.**364. Pachytylopsis borinensis.** (Protophasmida.)

Locality: Mons, Belgium. Horizon: Carboniferous.

1875. Borre. Comptes rend. soc. ent. Belg., (2), xii: 17.

1875. " Ann. soc. ent. Belg., xviii: 4-5. *Pl. 5, fig. 2; Pl. 6, fig. 2.*1875. " Empr. d'ins. foss., 4-5. *Pl. 5, fig. 2; Pl. 6, fig. 2.*

1875. Giard. Bull. sc. hist. litt. dép. Nord, vii: 122-127.

See also *Breyeria borinensis*.**Pachytylopsis persenairei.** See I, NEUROPT., Idem.**Palæoblattina douvillei.** See I, NEUROPT., Idem.**365. Paolia gurleyi.** (Protophasmida.)

Locality: Orange County, Ind. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 173.

1889. Miller. N. A. geol. and pal., 580.

1890. Lesley. Dict. foss. Penns., ii: 595.

366. Paolia iacoana. (Protophasmida.)

Locality: Pittston, Pa. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 173.

1889. Miller. N. A. geol. and pal., 580.

1890. Lesley. Dict. foss. Penns., ii: 595.

367. Paolia superba. (Protophasmida.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 173.

1889. Miller. N. A. geol. and pal., 580.

1890. Lesley. Dict. foss. Penns., ii: 595.

368. Paolia vetusta. (Protophasmida.)

Locality: Paoli, Ind. Horizon: Carboniferous.

1871. Smith. Amer. Journ. sc., (3), i: 44-46. *Fig.*
 1871. " Notice foss. ins., 1-3. *Fig.*
 1883. Lacoe. List pal. foss. ins., 13.
 1885. Scudder. Proc. Amer. acad. arts sc., xx: 173.
 1885. " Zittel, Handb. palaeont., i, th. ii: 758. *Fig. 942.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 758. *Fig. 958.*
 1889. Miller. N. A. geol. and pal., 580.
 1890. Lesley. Dict. foss. Penns., ii: 596. *Fig.*

369. Paromylacris ampla. (Palaeoblattariae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 408. *Pl. 31, fig. 7.*
 1890. " Foss. ins. N. A., i: 384. *Pl. 23, fig. 7.*

370. Paromylacris rotunda. (Palaeoblattariae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1883. Scudder. Mss. (rotundum).
 1883. Lacoe. List pal. foss. ins., 13.
 1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 35.
 1885. " Zittel, Handb. palaeont., i, th. ii: 754.
 1886. " Zittel-Barrois, Traité de paléont., ii: 754.
 1886. " Bull. U. S. geol. surv., No. 31: 38.
 1889. Miller. N. A. geol. and pal., 580.
 1890. Lesley. Dict. foss. Penns., ii: 602.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 406-408. *Pl. 32, figs. 1-2.*
 1890. " Foss. ins. N. A., i: 382-384. *Pl. 24, figs. 1-2.*

371. Petrablattina gracilis. (Palaeoblattariae.)

Locality: Lebach, Germany. Horizon: Dyas.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 124-125. *Pl. 4, fig. 4.*
 1890. " Foss. ins. N. A., i: 144-145. *Pl. 4, fig. 4.*
 See also Blattina gracilis, Blatta gracilis.

372. Petrablattina sepulta. (Palaeoblattariae.)

Locality: Sydney, Cape Breton. Horizon: Lower Carboniferous.

1879. Scudder. Mem. Bost. nat. hist., iii: 125-126. *Pl. 6, fig. 7.*
 1883. Lacoe. List pal. foss. ins., 14.
 1889. Miller. N. A. geol. and pal., 580.
 1890. Lesley. Dict. foss. Penns., ii: 627.
 1890. Scudder. Foss. ins. N. A., i: 145-146. *Pl. 6, fig. 7.*

See also Blattina sepulta.

Petrablattina subtilis. See I, NEUROPT., Idem.**373. Polioptenus elegans.** (Protophasmida.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 170.
 1885. " Zittel, Handb. palaeont., i, th. ii: 756. *Fig. 938.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 757. *Fig. 954.*
 1886. " Bull. U. S. geol. surv., No. 31: 40.

See also Dictyonera elegans, Goldenbergia elegans.

374. Polyzosterites granosus. (Palaoblattariæ.)

Locality: Jägersfreude, Saarbrück, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorw. fl. fauna steink. Saarbr., 18. Pl. 1, fig. 17 (ined.).
 1873. " Fauna sarap. foss., i: 18. Pl. 1, fig. 17.
 1877. " Fauna sarap. foss., ii: 20, 51.
 1879. Scudder. Mem. Bost. soc. nat. hist., iii: 129.
 1890. " Foss. ins. N. A., i: 149.

See also *Adelophthalmus* (*Eurypterus*) *granosus*.

375. Progonoblattina fritschii. (Palaoblattariæ.)

Locality: Manebach, Thüringen. Horizon: Upper Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 120-121. Pl. 3, fig. 12.
 1885. " Zittel, Handb. palæont., i, th. ii: 755. Fig. 934.
 1886. " Zittel-Barrois, Traité de paléont., ii: 755. Fig. 951.
 1890. " Foss. ins. N. A., i: 140-141. Pl. 3, fig. 12.

See also *Blattina fritschii*.

376. Progonoblattina helvetica. (Palaoblattariæ.)

Locality: Erbignon, Switzerland. Horizon: Carboniferous.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 119-120. Pl. 3, fig. 10.
 1887. Woodward. Geol. mag., (3), iv: 50. Figs. 1, 2.
 1889. Nicholson. Man. palæont., 3d ed., i: 593. Fig. 443.
 1890. Scudder. Foss. ins. N. A., i: 139-140. Pl. 3, fig. 10.

See also *Blattina helvetica*. *Blatta helvetica*.

377. Promylacris ovalis. (Palaoblattariæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 34-35 (ovale).
 1885. " Zittel, Handb. palæont., i, th. ii: 754.
 1886. " Zittel-Barrois, Traité de paléont., ii: 754.
 1886. " Bull. U. S. geol. surv., No. 31: 38.
 1889. Miller. N. A. geol. and pal., 5: 0.
 1890. Lesley. Dict. foss. Penns., ii: 772.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 403, 404. Pl. 31, figs. 1-4.
 1890. " Foss. ins. N. A., i: 379, 380. Pl. 23, figs. 1-4.

378. Promylacris rigida. (Palaoblattariæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 403, 404-405. Pl. 31, fig. 6.
 1890. " Foss. ins. N. A., i: 379, 380-381. Pl. 23, fig. 6.

379. Promylacris testudo. (Palaoblattariæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 403. Pl. 32, fig. 6.
 1890. " Foss. ins. N. A., i: 379. Pl. 24, fig. 6.

Protogryllacris brongniarti. See I, NEUROPT., Idem.

380. Protophasma dumasii. (Protophasmida.)

Locality: Commeny, France. Horizon: Carboniferous.

1878. Brongniart. Compt. rend. soc. ent. Belg., (2), xlvii: 9-12.
 1878. " Déconv. orth. coureur, 1-4.

1878. Brongniart. Ann. sc. nat., (6), vii, art. 1. *Pl. 6, figs. 1-4, 6, 9.*
 1878. " Nouv. genre orthop. foss., 1-9. *Pl. 6, figs. 1-4, 6, 9.*
 1878. " Bull. séanc. soc. ent. France, 1878: 69-70.
 1879. " Geol. mag., (2), vi: 97-102. *Pl. 4, figs. 1-4, 6, 9.*
 1879. " New foss. ins. coal-meas., 1-6. *Pl. 4, figs., 1-4, 6, 9.*
 1879. Scudder. Mem. Bost. soc. nat. hist., iii: 19.
 1879. Girard. La nature, vii: 108-110. *Fig.*
 1880. Scudder. Arch. sc. phys. nat., (3), iii: 365.
 1883. Brongniart. Bull. séanc. soc. ent. France, 1883: 20-21.
 1883. " Naturaliste, v: 267.
 1883. " Aperçu ins. foss., 3, 5.
 1885. Scudder. Proc. amer. acad. arts sc., xx: 170.
 1885. " Zittel, Handb. palæont., i, th. ii: 757. *Fig. 939.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 756. *Fig. 955 on p. 757.*
 1886. " Bull. U. S. geol. surv., No. 31: 40.
 1886. Brauer. Ann. naturhist. hofmus. i: 116.
 1890. Scudder. Foss. ins. N. A., i: 39.

381. *Protophasma gaudryi.* (Protophasmida.)

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 59. *Pl. 2, fig. 1.*

382. *Protophasma woodwardii.* (Protophasmida.)

Locality: Commentry, France. Horizon: Carboniferous.

1883. Brongniart. Bull. séanc. soc. ent. France, 1883: 20-21.
 1883. " Naturaliste, v: 267.
 1883. " Aperçu ins. foss., 5.

Prototettix lithanthraca. See I, NEUROPT., Idem.

383. *Spilaptera libelluloides.*

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 283.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv: 658.

384. *Spilaptera packardi.*

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Ins. foss. terr. prim., 63. *Pl. [5], fig. 1.*
 1885. " Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 283.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv: 658.
 1886. Brauer. Ann. naturh. hofmus., i: 110. *Pl. 8, fig. 16.*

385. *Spilaptera venusta.*

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 283.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv: 658.

386. *Sthenarocera pachytyloides*.

Locality: Commeny, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 59. *Pl. 1, figs. 1-2.*
 1885. " Rev. scient., (3), xxxvi: 276.

387. *Sthenaropoda filholi*.

Locality: Commeny, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 59. *Pl. 1, fig. 5.*

388. *Sthenaropoda fischeri*.

Locality: Commeny, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 59. *Pl. 1, fig. 4.*

389. *Termes affinis*. (Protophasmida.)

Locality: Sulzbach, Germany. Horizon: Carboniferous.

1852. Goldenberg. Sitzungsber. math.-nat. cl. akad. wiss. Wien, ix: 39 (undescribed).
 1877. " Fauna sarap. foss., ii: 50.

See also *T. (Eutermopsis) affinis*, *T. (Calotermes) affinis*, *Dictyoneura affinis*.
Goldenbergia affinis; also III, NEUROPT., *Termes (Calotermes) affinis*.

390. *Termes (Calotermes) affinis*. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., II. *Pl. 2, fig. 5 (ined.)*.
 1873. " Fauna sarap. foss., i: 11. *Pl. 2, fig. 6 (not 5)*.

See also *Termes affinis*, etc.; also III, NEUROPT., *Termes (Calotermes) affinis*.

391. *Termes (Eutermopsis) affinis*. (Protophasmida.)

Locality: Friedrichsthal, Germany. Horizon: Carboniferous.

1854. Goldenberg. Palaeontogr., iv: 31-32. *Pl. 6, fig. 1.*
 1854. " Foss. ins. Saarbr., 15-16. *Pl. 4, fig. 1.*
 1856. Giebel. Insect. d. vorwelt., 298.
 1857. Hagen. Verhandl. naturh. ver. preuss. Rheinl. Westph., xiv: 42-43.
 See also *Termes affinis*, etc.

392. *Termes decheni*. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1885. Brauer. Sitzungsber. akad. wiss. Wien, xci: 281.
 See also *T. (Eutermopsis) decheni*, etc.

393. *Termes (Calotermes) decheni*. (Protophasmida.)

Localities: Gersweiler, Altenwald, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 10-11. *Pl. 2, figs. 3-5 (ined.)*.
 1873. " Fauna sarap. foss., 10-11. *Pl. 2, figs. 3-5.*
 See also *T. (Eutermopsis) decheni*, etc.

394. *Termes (Eutermopsis) decheni*. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1854. Goldenberg. Palaeontogr., iv: 31. *Pl. 5, fig. 3.*
 1854. " Foss. ins. Saarbr., 15. *Pl. 3, fig. 3.*
 1856. Giebel. Insect. d. vorwelt., 297-298.
 1857. Hagen. Verhandl. naturh. ver. preuss. Rheinl. Westph., xiv: 42-43.
 See also *Termes decheni*, *Dictyoneura decheni*, *Goldenbergia decheni*, *Termes (Calotermes) decheni*, *Termes (Eutermopsis) formosus*, etc.

395. Termes (Eutermopsis) formosus. (Protophasmida.)

Locality: Gersweiler, Germany. Horizon: Carboniferous.

1854. Goldenberg. Palaeontogr., iv: 30-31. *Pl. 5, fig. 2.*
 1854. " Foss. ins. Saarbr., 14-15. *Pl. 3, fig. 2.*
 1856. Giebel. Insect. d. vorwelt., 297.
 1857. Hagen. Verhandl. naturh. ver. preuss. Rheinl. Westph., xiv: 42-43.
 1860. " Linn. entom., xii: 296.
 1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 10 (= T. decheni).
 See also Goldenbergia formosa, Dictyoncura formosa. Termes (Eutermopsis) decheni, etc.

396. Termes haidingeri. (Termitina.)

Locality: Flenu, Belgium. Horizon: Carboniferous.

1881. Mourlon. Géol. Belg., ii: 57.
 See also I, NEUROPT., Termes? ——— Borre.

397. Termes heeri. (Protophasmida.)

Locality: Sulzbach, Germany. Horizon: Carboniferous.

1852. Goldenberg. Sitzungsber. math.-nat. cl. akad. wiss. Wien, ix: 39 (undescribed).
 See also T. (Eutermopsis) heeri, etc.

398. Termes (Calotermes) heeri. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 9-10. *Pl. 2, fig. 2 (ined.).*
 1873. " Fauna sarap. foss., i: 9-10. *Pl. 2, fig. 2.*
 1877. " Fauna sarap. foss., ii: 50.
 See also T. (Eutermopsis) heeri, etc.

399. Termes (Eutermopsis) heeri. (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1854. Goldenberg. Palaeontogr., iv: 29-30. *Pl. 1, fig. 5.*
 1854. " Foss. ins. Saarbr., 13-14. *Pl. 2, fig. 5.*
 1856. Giebel. Insect. d. vorwelt., 297.
 1857. Hagen. Verhandl. naturh. ver. preuss. Rheinl. Westph., xiv: 42-43.
 1860. " Linn. entom., xii: 295-296.
 See also Termes heeri, Calotermes heeri, Termes (Calotermes) heeri, Goldenbergia heeri.

Termes (Calotermes) humboldti. See Termes (Calotermes) humboldtianus.**400. Termes (Calotermes) humboldtianus.** (Protophasmida.)

Locality: Altenwald, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 11-12 (humboldtiana). *Pl. 2, fig. 8 (ined.).*
 1873. " Fauna sarap. foss., 11-12 (humboldti on plate). *Pl. 2, fig. 8.*
 See also Dictyoncura humboldtiana, etc.

401. Termes incertus. (Protophasmida.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1886. Kliver. Palaeontogr., xxxii: 104-106. *Pl. 14, fig. 5.*

402. *Termes laxus*. (Protophasmida.)

Locality: Dudweiler, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 17, 50 (*laxa*). Pl. 1, fig. 5.

1885. Brauer. Sitzungsab. akad. wiss. Wien, xci: 281.

See also *Litoneura laxa*, *Goldenbergia laxa*.403. *Termes longitudinalis*.

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1883. Scudder. Mss.

1883. Lacey. List pal. foss. ins., 15.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 350.

1890. " Foss. ins. N. A., i: 314.

See also *Goldenbergia longitudinalis*.404. *Termes parvulus*. (Protophasmida.)

Locality: Michelberg, Saarbrück, Germany. Horizon: Carboniferous.

1886. Kliver. Palaeontogr., xxxii: 106-107. Pl. 14, fig. 6.

Termitidium amissum. See *Termitidium amissum*.405. *Termitidium amissum*.

Locality: Altenwald, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 17, 50 (*Termitidium* in pl.). Pl. 1, fig. 6.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 350.

1890. " Foss. ins. N. A., i: 314.

See also *Goldenbergia amissa*.406. *Termitidium?* *rugosum*.

Locality: Near Cusel, Rheinbayern. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 17-18, 50. Pl. 1, fig. 14.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 350.

1890. " Foss. ins. N. A., i: 314.

See ——— Dohrn.

407. *Titanophasma fayoli*. (Protophasmida.)

Locality: Commentry, France. Horizon: Carboniferous.

1882. Brongniart. Comptes rend. acad. sc., xcvi: 1228-1230.

1882. " Nouv. ins. foss., 1-3.

1883. " Compt. rend. soc. géol. Fr., 1883: 15-16.

1883. " Bull. soc. géol. Fr., (3), xi: 241.

1883. " Bull. séances soc. ent. Fr., 1883: 20.

1883. Scudder. Science, i: 95-96. Fig.

1883. Brongniart. Bull. soc. géol. Fr., (3), xi: 145-146. Pl. 4, fig. 3.

1883. " Naturaliste, v: 267-268.

1883. " Aperçu ins. foss., 6-8.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 169.

1885. " Zittel, Handb. palaeont., i, ii: 756. Fig. 937.

1886. " Zittel-Barrois, Traité de paléont., ii: 756. Fig. 953.

1888. Vidal. Ins. y plantas, 4, 10.

See also *Megaptilus blanchardi*.

408. Titanophasma jucunda. (Protophasmida.)

Locality: Pittston, Pa. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 169.

1889. Miller. N. A. geol. and pal., 581.

See also *Dictyonentra jucunda*.**409. Titanophasma libelluloides.** (Protophasmida.)

Locality: Germany. Horizon: Carboniferous.

1885. Scudder. Proc. Amer. acad. arts sc., xx: 169.

See also *Dictyonentra libelluloides*.**THE NEUROPTEROID SERIES.****410. ——— ———.**

Locality: Ravenhead, near Liverpool, England. Horizon: Carboniferous.

1871. Higgins. Pres. address (Liverp. nat. field club), 10, 11. *Pl.*, fig. 15.**411. ——— ———.**

Locality: Reden, Saarbrück, Germany. Horizon: Carboniferous.

1886. Kliver. Palaeontogr., xxxii: 110. *Pl.* 14, fig. 10.**412. ——— ———.**

Locality: Rakonitz, Bohemia. Horizon: Carboniferous.

1885. Kušta. Sitzungsber. böhm. gesellsch. wiss., 1885: 594.

1885. " Neue foss. arthrop. Rak., 5.

413. ——— ———.

Locality: Alfredgrube near Königshütte, Silesia. Horizon: Carboniferous.

1884. Roemer. Jahresb. schles. gesellsch. vater. cult., xxvi: 226.

414. ——— ——— (Homothetidae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 329. *Pl.* 30, fig. 7.1890. " Foss. ins. N. A., i: 293. *Pl.* 16, fig. 7.**415. Acridites carbonarius.** (Hemeristina.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1842. Germar. Münst., Beitr. z. petref., v: 93-94. *Pl.* 13, fig. 5.

184-. " Voigt, Naturw. ber. ver. Harzes (carbonatus).

1851. " Verstein. steink. Wettin, 87 (= *Blattina didyma*?). *Pl.* 31, fig. 10.

1856. " Voigt, Naturw. ber. ver. Harzes, 1840-46: 26 (carbonatus).

See also *Blattina carbonaria*, etc., *Megathentomum carbonatum*.**Acridites carbonatus.** See *Acridites carbonarius*, *Megathentomum carbonatum*.**416. Acridites formosus.** (Gerarina.)

Locality: Fischbach, Saarbrück, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 18-20. *Pl.* 2, fig. 18 (ined.).1873. " Fauna sarap. foss., i: 18-20. *Pl.* 2, fig. 18.

1876. Scudder. Proc. Bost. soc. nat. hist., xviii: 359.

1877. Goldenberg. Fauna sarap. foss., ii: 51.

See also *Megathentomum formosum*.

417. Acridites goldenbergi. (Gerarina.)

Locality: Steinbachthal, Saarbrück, Germany. Horizon: Carboniferous.

1886. Kliver. Palaeontogr., xxxii: 103-109. Pl. 14, fig. 9.

418. Acridites priscus. (Homothetida.)

Locality: Stradonitz, Bohemia. Horizon: Carboniferous.

1864. Andree. Neues Jahrb. min., 1864: 163-164. Pl. 4, fig. 1.

1874. Frič. Arch. naturw. landesdurchf. Böhm., 2, ii, i: 15. Pl. 3, fig. 3.

1884. Knšta. Vesmír, xiii: 97-98.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 325.

1885. Brougniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.

1885. " Geol. mag., (3), ii: 489.

1885. " Trans. geol. soc. Manch., xviii: 283.

1885. " Foss. ins. prim. rocks, 15.

1885. " Jahrb. geol. reichsanst., xxxv: 658.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 759.

1886. " Zittel-Barrois, Traité de paléont., ii: 759.

1886. " Bull. U. S. geol. surv., No. 31: 41.

1890. " Foss. ins. N. A., i: 289.

Adaphlebia lacoana. See *Adiphlebia locoana*.**419. Adiphlebia lacoana.** (Gerarina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 345. Pl. 32, fig. 6.

1885. " Zittel, Handb. palaeont., i, th. ii: 763.

1886. " Zittel-Barrois, Traité de paléont., ii: 763.

1886. " Bull. U. S. geol. surv., No. 31: 45.

1889. Lesley. Dict. foss. Penns., i: p. ii (*Adaphlebia*).

1889. Miller. N. A. geol. and pal., 575.

1890. Scudder. Foss. ins. N. A., i: 309. Pl. 18, fig. 6.

420. Æthophlebia singularis. (Palæopteria.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 338. Pl. 31, fig. 9.

1886. " Bull. U. S. geol. surv., No. 31: 43.

1886. Brauer. Ann. naturh. hofmns., i: 113.

1889. Lesley. Dict. foss. Penns., i: p. ii.

1889. Miller. N. A. geol. and pal., 575.

1890. Scudder. Foss. ins. N. A., i: 302. Pl. 17, fig. 9.

421. Anthracothremma robusta. (Homothetida.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 327. Pl. 30, figs. 1, 5, 6.

1886. " Bull. U. S. geol. surv., No. 31: 42.

1889. Lesley. Dict. foss. Penns., i: p. v.

1889. Miller. N. A. geol. and pal., 575.

1890. Scudder. Foss. ins. N. A., i: 291. Pl. 16, figs. 1, 5, 6.

422. Archæoscolex corneus. (Larva.)

Locality: St. John, New Brunswick. Horizon: Cordaite Shales, Lower Devonian

1889. Matthew. Trans. roy. soc. Can., 1888, iv: 59-60. Pl. 4, fig. 11.

Archimantis carbonarius. See *Lithomantis carbonarius*.

423. Blattina carbonaria. (Hemeristina.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 288, No. 15.
 1877. Goldenberg. Fanna sarap. foss., ii: 20.

See also *Lithosialis carbonaria*, *Acridites carbonarius*; also I, ORTHOPT., *Blattina carbonaria*, *B. didyma*, etc.

424. Brachyptilus ———.

Locality: Commeny, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 66.

Breyeria borinensis. See I, ORTHOPT., *Idem*.

425. Brodia priscocincta. (Hemeristina.)

Locality: Tipton, Staffordshire, England. Horizon: Carboniferous.

1881. Scudder. Geol. mag., (2), viii: 293-295, 300. *Fig.*
 1883. " Mem. Bost. soc. nat. hist., iii: 213-217, 223. *Pl. 17, figs. 3-7.*
 1885. " Mem. Bost. soc. nat. hist., iii: 340.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. Manch. geol. soc., xviii: 284.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv: 658.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 761. *Fig. 951.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 761. *Fig. 967.*
 1886. Brauer. Ann. naturh. hofmus., i: 113.
 1890. Scudder. Foss. ius. N. A., i: 235-239, 245, 304. *Pl. 11, figs. 3-7.*

Calotermes hageni. See I, ARACHNIDA, *Idem*.

Calotermes heeri. See I, ORTHOPT., *Idem*.

426. Campyloptera ———.

Locality: Commeny, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Rev. scient., (3), xxxvi: 278.

Chelephlebia carbonaria. See *Cheliphlebia carbonaria*.

Chelephlebia elongata. See *Cheliphlebia elongata*.

427. Cheliphlebia carbonaria. (Homothetidae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 328. *Pl. 30, fig. 8.*
 1886. " Bull. U. S. geol. surv., No. 31: 42.
 1889. Lesley. Dict. foss. Penns., i: p. xiii (*Cheliphlebia*).
 1889. Miller. N. A. geol. and pal., 575 (not the figure).
 1890. Scudder. Foss. ius. N. A., i: 292. *Pl. 16, fig. 8.*

428. Cheliphlebia elongata. (Homothetidae.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 328-329. *Pl. 29, fig. 7.*
 1886. " Bull. U. S. geol. surv., No. 31: 42.

1889. Lesley. Dict. foss. Penns., i: p. xiii (Chelephlebia).
 1889. Miller. N. A. geol. and pal., 575.
 1890. Scudder. Foss. ins. N. A., i: 292-293. *Pl.* 15, *fig.* 7.

429. Chrestotes danæ. (Gerarina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 66.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 287.
 1885. " Foss. ins. prim. rocks, 18.
 1885. " Jahrb. geol. reichsanst., xxxv: 660.

See also *Miamia danae*, Gerarus *danae*.

430. Chrestotes lapidea. (Hemeristina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1868. Scudder. Worth., Geol. Surv. Ill., iii: 567. *Fig.* 2.
 1883. Lacoe. List pal. foss. ins., 6.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 341. *Pl.* 31, *fig.* 2.
 1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 66.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 287.
 1885. " Foss. ins. prim. rocks, 18.
 1885. " Jahrb. geol. reichsanst., xxxv: 660.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 762. *Fig.* 952.
 1886. " Zittel-Barrois, Traité de paléont., ii: 762. *Fig.* 968.
 1886. " Bull. U. S. geol. Surv., No. 31: 44.
 1886. Brauer. Ann. naturh. hofmus., i: 114 (Chrestotus).
 1889. Lesley. Dict. foss. Penns., i: 130. *Fig.*
 1889. Miller. N. A. geol. and pal., 575-576. *Fig.* 1076.
 1890. Scudder. Foss. ins. N. A., i: 305. *Pl.* 17, *fig.* 2.

431. Chrestotes lugauensis. (Homothetidæ.)

Locality: Lugau, Saxony. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 66.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 287.
 1885. " Foss. ins. prim. rocks, 18.
 1885. " Jahrb. geol. reichsanst., xxxv: 660.

See also *Mixotermes lugauensis*, etc.

Chrestotus lapidea. See *Chrestotes lapidea*.

432. Corydalis ———. (Hemeristina.)

Locality: Coalbrookdale, England. Horizon: Carboniferous.

1833. Andouin. Ann. soc. ent. France, bull., 7-8.
 1839. Mantell. Wonders of geology, ii: 680.
 1839. Murchison. Silurian system, i: 104-105. *Fig.* a.
 1854. " Siluria, 284. *Fig.* 1.
 1854. Pictet. Traité pal., 2^e ed., ii: 377-378 (Sialidae). *Pl.* 40, *fig.* 1.
 1854. Mantell. Medals of creation, 2d ed., ii: 556 (Purbecks). *Fig.* 182ab.

See also *Lithosialis brongniarti*, etc.

433. *Corydalis brongniarti*. (Hemeristina.)

Locality: Coalbrookdale, England. Horizon: Carboniferous.

1844. Mantell. Medals of creation, ii: 575, 578. *Lign.* 124, *fig.* 2.
 1854. " Medals of creation, 2d ed., ii: 551, 554. *Lign.* 181, *fig.* 2.
 1859. Murchison. Siluria, 3d ed., 320. *Foss.* 81, *fig.* 1 on p. 321.
 1874. Swinton. Geol. mag., (2), i: 3-5.
 1874. " Foss. orth., 3-5.

See also *Lithosialis brongniarti*, etc.434. *Corydaloides gracilis*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 64-65.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 490.
 1885. " Trans. geol. soc. Manch., xviii: 285.
 1885. " Foss. ins. prim. rocks, 16.
 1885. " Jahrb. geol. reichsanst., xxxv: 659.

435. *Corydaloides scudderi*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. séances soc. ent. Fr., 1885: 13.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 350.
 1885. Brongniart. La nature, ann. xiii, ii: 156. *Figs.* 1, 2.
 1885. " Ins. foss. terr. prim., 64. *Pl.* [4], *fig.* 3.
 1885. " Bull. soc. amis sc. Rouen, (3), xxi: 64-65.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 490. *Pl.* 12, *fig.* 3.
 1885. " Trans. geol. soc. Manch., xviii: 285. *Pl.*, *fig.* 3.
 1885. " Foss. ins. prim. rocks, 16.
 1885. " Jahrb. geol. reichsanst., xxxv: 659.
 1886. Brauer. Ann. naturh. hofmus., i: 106-107.
 1886. ——— Pop. sc. news, xx: 62. *Figs.* 1, 2.
 1890. Scudder. Foss. ins. N. A., i: 314.

436. *Dasyleptus lucasi*. (Thysanura.)

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. séances soc. ent. Fr., 1885: 101-102.
 1885. " Bull. soc. amis sc. Rouen, (3), xxi: 58-59.
 1885. " Rev. scient., (3), xxxvi: 276.
 1885. " Geol. mag., (3), ii: 486.
 1885. " Trans. geol. soc. Manch., xviii: 278.
 1885. " Foss. ins. prim. rocks, 9-10.
 1885. " Jahrb. geol. reichsanst., xxxv: 655.
 1886. Brauer. Ann. naturh. hofmus., i: 88 (*lukasii*).
 1890. Brongniart. Psyche, iv: 353.

Dasyleptus lukasii. See *Dasyleptus lucasi*.437. *Diaphanoptera* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 66.

Dictyoneura spp. See I, ORTHOPT., *Idem*.

438. *Dictyophlebia protogæa*.

Locality: Malstatt, Germany. Horizon: Carboniferous.

1852. Goldenberg. Sitzungsber. math.-nat. cl. akad. wiss. Wien., ix: 39 (undescribed).

439. *Didymophleps contusa*. (Homothetidae.)

Locality: Vermilion County, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 330-331. Pl. 29, fig. 6.

1885. " Zittel, Handb. palæont., i, th. ii: 760.

1886. " Zittel-Barrois, Traité de paléont., ii: 759.

1886. " Bull. U. S. geol. surv., No. 31: 42.

1886. Brauer. Ann. naturh. hofmus., i: 113.

1889. Lesley. Dict. foss. Penns., i: p. xx.

1889. Miller. N. A. geol. and pal., 576.

1890. Scudder. Foss. ins. N. A., i: 294-295. Pl. 15, fig. 6.

See also *Termes contusus*, *Goldenbergia (Didymophleps) contusa*, *Goldenbergia contusa*.440. *Dieconeura arcuata*. (Palæopterina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 336. Pl. 30, fig. 4.

1886. " Bull. U. S. geol. surv., No. 31: 43.

1889. Lesley. Dict. foss. Penns., i: p. xx.

1889. Miller. N. A. geol. and pal., 576.

1890. Scudder. Foss. ins. N. A., i: 300. Pl. 16, fig. 4.

441. *Dieconeura rigida*. (Palæopterina.)

Locality: Pittston, Pa. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 336-337. Pl. 29, fig. 10.

1886. " Bull. U. S. geol. surv., No. 31: 43.

1889. Lesley. Dict. foss. Penns., i: 202. Fig.

1889. Miller. N. A. geol. and pal., 576.

1890. Scudder. Foss. ins. N. A., i: 300-301. Pl. 15, fig. 10.

442. *Dyscritus vetustus*.

Locality: St. John, New Brunswick. Horizon: Devonian.

1865. Scudder. Dev. ins. N. Brunsw., 1 (unnamed).

1865. " Bailey, Obs. geol. south. N. Brunsw., 140 (unnamed).

1865. " Amer. jour. sc., (2), xxxix: 357 (unnamed).

1865. " Can. nat., n. s., ii: 234 (unnamed).

1865. " Trans. ent. soc. Lond., (3), ii: 117 (unnamed).

1868. " Geol. mag., v: 172, 176.

1860. " Dev. ins. N. Brunsw. (Anniv. mem. Bost. soc. nat. hist.), 20-22.
Pl. 1, fig. 4.

1881. Hagen. Bull. mus. comp. zool., viii: 281.

1883. Lacoe. List pal. foss. ins., 6.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 56.

1885. " Geol. mag., (3), ii: 4-5.

1885. " Trans. geol. soc. Manch., xviii: 276.

1885. " Foss. ins. prim. rocks, 8.

1885. " Jahrb. geol. reichsanst., xxxv: 653.

1886. Brauer. Ann. naturh. hofmus., i: 112.

1889. Lesley. Dict. foss. Penns., i: p. xx.

1889. Miller. N. A. geol. and pal., 576.

1890. Scudder. Foss. ins. N. A., i: 172-173. Pl. 7, fig. 4.

Encænus ovalis. See *Eucænus ovalis*.

443. Ephemerites affinis.

Locality : Morris, Ill. Horizon : Carboniferous.

1868. Scudder. Worth., Geol. surv. Ill., iii : 572 (Ephemerites). *Fig. 10.*
1885. " Mem. Bost. soc. nat. hist., iii : 350.
1889. Miller. N. A. geol. and pal., 576.
1890. Scudder. Foss. ins. N. A., i : 314.
 (Probably not an insect.)

See also *Euephemerites affinis*.**444. Ephemerites gigas.**

Locality : Morris, Ill. Horizon : Carboniferous.

1868. Scudder. Worth., Geol. surv. Ill., iii : 571-572 (Ephemerites). *Fig. 9.*
1885. " Mem. Bost. soc. nat. hist., iii : 350.
1889. Miller. N. A. geol. and pal., 576.
1890. Scudder. Foss. ins. N. A., i : 314.
 (Probably not an insect.)

See also *Euephemerites gigas*.**445. Ephemerites rückeri. (Palephemeridæ.)**

Locality : Reitsch near Stockheim, Germany. Horizon : Dyas.

1865. Geinitz. Neues jahrb. min., 1865 : 385-389. *Pl. 2, fig. 1.*
1865. Hagen. Neues jahrb. min., 1865 : 386-388.
1880. Scudder. Dev. ins. N. Brunsw., 31, note.
1885. " Mem. Bost. soc. nat. hist., iii : 324.
1885. " Zittel, Handb. palæont., i, th. ii : 758.
1886. " Zittel-Barrois, Traité de paléont., ii : 758.
1886. " Bull. U. S. geol. surv., No. 31 : 41.
1890. " Foss. ins. N. A., i : 183 note, 288.

446. Ephemerites simplex.

Locality : Morris, Ill. Horizon : Carboniferous.

1868. Scudder. Worth., Geol. surv. Ill., iii : 571 (Ephemerites). *Fig. 8.*
1885. " Mem. Bost. soc. nat. hist., iii : 350.
1889. Miller. N. A. geol. and pal., 576.
1890. Scudder. Foss. ins. N. A., i : 314.
 (Probably not an insect.)

See also *Euephemerites simplex*.**447. Eucænus ovalis. (Homothetidæ.)**

Locality : Mazon Creek, Ill. Horizon : Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii : 325. *Pl. 29, fig. 4.*
1886. " Bull. U. S. geol. surv., No. 31 : 42.
1889. Lesley. Dict. foss. Penns., i, p. xxiii.
1889. Miller. N. A. geol. and pal., 576 (Encænus).
1890. Scudder. Foss. ins. N. A., i : 289. *Pl. 15, fig. 4.*

448. Euephemerites affinis.

Locality : Illinois. Horizon : Carboniferous.

1883. Lacoe. List pal. foss. ins., 7.
1889. " Lesley, Dict. foss. Penns., i, p. xxiii.
 (Probably not an insect.)

See also *Ephemerites affinis*.

449. *Euephemerites gigas*.

Locality: Illinois. Horizon: Carboniferous.

1883. Lacoe. List pal. foss. ins., 7.
1889. " Lesley, Dict. foss. Penns., i, p. xxiii.
 (Probably not an insect.)

See also *Ephemerites gigas*.

450. *Euephemerites primordialis*.

Locality: Pennsylvania? Horizon: Carboniferous.

1878. Scudder. Proc. Bost. soc. nat. hist., xix: 248-249.
1878. " Entom. notes, vi: 37-38.
1883. Lacoe. List pal. foss. ins., 7.
1885. Scudder. Mem. Bost. soc. nat. hist., iii: 350.
1889. Lacoe. Lesley, Dict. foss. Penns., i, p. xxiii.
1890. Scudder. Foss. ins. N. A., i: 314.
 (A plant.)

451. *Euephemerites simplex*.

Locality: Illinois. Horizon: Carboniferous.

1883. Lacoe. List pal. foss. ins., 7.
1889. " Lesley, Dict. foss. Penns., i, p. xxiii.
 (Probably not an insect.)

See also *Ephemerites simplex*.

Euphemerites affinis. See *Ephemerites affinis*.

Euphemerites gigas. See *Ephemerites gigas*.

Euphemerites simplex. See *Ephemerites simplex*.

Eutermopsis spp. See I, ORTHOPT., Idem.

452. *Genentomum validum*. (Homothetidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 329-330. Pl. 30, figs. 2, 3.
1885. " Zittel, Handb. palacont., i, th. ii: 759. Fig. 945.
1886. " Zittel-Barrois, Traité de paléont., ii: 759. Fig. 961.
1886. " Bull. U. S. geol. surv., No. 31: 42.
1886. Brauer. Ann. naturh. hofmus., i: 113.
1889. Lesley. Dict. foss. Penns., i: 253, xxv. Fig.
1889. Miller. N. A. geol. and pal., 577. Fig. 1082.
1890. Scudder. Foss. ins. N. A., i: 293-294. Pl. 16, figs. 2, 3.

453. *Genopteryx constricta*. (Homothetidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 327-328. Pl. 29, fig. 11.
1886. " Bull. U. S. geol. surv., No. 31: 42.
1889. Lesley. Dict. foss. Penns., i, p. xxv.
1889. Miller. N. A. geol. and pal., 577.
1890. Scudder. Foss. ins. N. A., i: 291-292. Pl. 15, fig. 11.

454. *Genopteryx lithanthraca.* (Homothetidæ.)

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 328.
 1885. " Zittel, Handb. palæont., i, th. ii: 759. *Fig. 944.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 759. *Fig. 960.*
 1886. " Bull. U. S. geol. surv., No. 31: 42.
 1886. Brauer. Ann. naturh. hofmus., i: 113.
 1890. Scudder. Foss. ins. N. A., i: 292.
 See also *Gryllacris lithanthraca*, etc.

Gerapompus blatinoides.* See *Gerapompus blattinoides.**455. *Gerapompus blattinoides.* (Homothetidæ.)**

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 326. *Pl. 29, fig. 1.*
 1886. " Bull. U. S. geol. surv., No. 31: 42.
 1889. Miller. N. A. geol. and pal., 577 (*blatinoides*).
 1890. Scudder. Foss. ins. N. A., i: 290. *Pl. 15, fig. 1.*

456. *Gerapompus extensus.* (Homothetidæ.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 326. *Pl. 29, figs. 5, 8.*
 1886. " Bull. U. S. geol. surv., No. 31: 42.
 1889. Miller. N. A. geol. and pal., 577.
 1890. Scudder. Foss. ins. N. A., i: 290. *Pl. 15, figs. 5, 8.*

457. *Gerarus?* ———. (Gerarina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 344. *Pl. 32, fig. 3.*
 1890. " Foss. ins. N. A., i: 308. *Pl. 18, fig. 3.*

458. *Gerarus?* ———. (Gerarina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. " Mem. Bost. soc. nat. hist., iii: 345. *Pl. 32, fig. 5.*
 1890. " Foss. ins. N. A., i: 309. *Pl. 18, fig. 5.*

459. *Gerarus danæ.* (Gerarina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 345. *Pl. 31, fig. 5.*
 1885. " Zittel, Handb. palæont., i, th. ii: 762. *Fig. 953.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 762. *Fig. 969.*
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1889. Miller. N. A. geol. and pal., 577. *Fig. 1084.*
 1890. Scudder. Foss. ins. N. A., i: 309. *Pl. 17, fig. 5.*

See also *Miamia danae*, *Chrestotes danae*.**460. *Gerarus mazonus.* (Gerarina.)**

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 344-345. *Pl. 32, fig. 7.*
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1889. Miller. N. A. geol. and pal., 577.
 1890. Scudder. Foss. ins. N. A., i: 308-309. *Pl. 18, fig. 7.*

461. Gerarus vetus. (Gerarina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 341. *Pl.* 31, *fig.* 6.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1889. Miller. N. A. geol. and pal., 577.
 1890. Scudder. Foss. ins. N. A., i: 308. *Pl.* 17, *fig.* 6.

Gerephemera simplex. See I, ORTHOPT., *Idem.*

462. Geroneura wilsoni.

Locality: Lancaster, N. B. Horizon: Cordaites shales, Lower Devonian.

1889. Matthew. Trans. roy. soc. Can., 1888, iv: 57-59. *Pl.* 4, *fig.* 10.
 1889. Miller. N. A. geol. and pal., 577.

Goldenbergia spp. See I, ORTHOPT., *Idem.*

463. Goldenbergia contusa.

Locality: Illinois. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 281.
 1885. " Foss. ins. prim. rocks, 13.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

See also *Didymophleps contusa*, etc.

464. Goldenbergia (Didymophleps) contusa.

Locality: Illinois. Horizon: Carboniferous.

1886. Brauer. Ann. naturh. hofmus., i: 114.
 See also *Didymophleps contusa*, etc.

465. Gryllacris bohémica.

Locality: Stradonitz, Bohemia. Horizon: Carboniferous.

1880. Novák. Jahrb. geol. reichsanst., xxx: 69-74. *Pl.* 2, *fig.* 1-3.
 1884. Kušta. Vesmír, xiii: 97-98. *Fig.* 1.

See also *Lithosialis bohémica*.

466. Gryllacris brongniarti. (Hemeristina.)

Locality: England. Horizon: Carboniferous.

1880. Novák. Jahrb. geol. reichsanst., xxx: 73-74. *Pl.* 2, *fig.* 4.
 See also *Lithosialis brongniarti*, etc.

467. Gryllacris (Corydalis) brongniarti. (Hemeristina.)

Locality: England. Horizon: Carboniferous.

1874. Swinton. Geol. mag., (2), i: 5. *Pl.* 14, *fig.* 3.
 1874. " Foss. orth., 5. *Pl.*, *fig.* 3.
 1876. Woodward. Quart. journ. geol. soc. Lond., xxxii: 60. *Pl.* 9, *fig.* 2.
 See also *Lithosialis brongniarti*, etc.

468. Gryllacris lithanthraca. (Homothetidae.)

Localities: Rnsshütte, Fischbach bei Saarbrück, Germany. Horizon: Carboniferous.

1852. Goldenberg. Sitzungsber. math.-nat. cl. akad. wiss. Wien, ix: 39 (undescribed).

1854. Goldenberg. Palaeontogr., iv: 24-27. *Pl. 4, figs. 1, 2.*
 1854. " Foss. ins. Saarbr., 8-11. *Pl. 2, figs. 1, 2.*
 1865. Lyell. Elem. geol., 6th ed., 491. *Fig. 549.*
 1876. Goldenberg. Vorweltl. fauna steink. Saarbr., 20. *Pl. 2, fig. 17 (ined.).*
 1873. " Fauna sarap. foss., i: 20. *Pl. 2, fig. 17.*
 1877. " Fauna sarap. foss., ii: 51.

See also *Prototettix lithanthraca*, *Genopteryx lithanthraca*, *Lithophasma lithanthraca*.

469. *Hemeristia occidentalis*. (Hemeristina.)

Locality: Morris, Ill. Horizon: Carboniferous.

1864. Dana. Amer. journ. sc., (2), xxxvii: 35. *Fig. 2.*
 1865. Scudder. Amer. journ. sc., (2), xl: 269-271.
 1865. " Proc. Bost. soc. nat. hist., x: 96.
 1866. " Mem. Bost. soc. nat. hist., i: 191-192. *Pl. 6, figs. 1, 3.*
 1866. " Zool. relat. foss. neur. ins., 19-20. *Pl., figs. 1, 3.*
 1868. " Geol. mag., v: 217-218.
 1876. Gerstäcker. Klass. ordn. arthr., Crust., i: 292 (an ephemerid).
 1877. Goldenberg. Fauna sarap. foss., ii: 15-16 (*Hemeristica*).
 1883. Lacoe. List pal. foss. ins., 9.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 342.
 1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 66.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 287.
 1885. " Foss. ins. prin. rocks, 18.
 1885. " Jahrb. geol. reichsanst., xxxv: 660.
 1885. Scudder. Zittel, Handb. paleont., i, th. ii: 762.
 1886. " Zittel-Barrois, Traité de paléont., ii: 762.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1886. Brauer. Ann. naturh. hofmus., i: 113. *Pl. 8, fig. 17.*
 1889. Miller. N. A. geol. and pal., 578.
 1890. Scudder. Foss. ins. N. A., i: 19-20, 306. *Pl. 1, figs. 1, 3.*

Hemeristica occidentalis. See *Hemeristia occidentalis*.

470. *Homaloneura elegans*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis. sc. Rouen, (3), xxi: 66. *Pl. 3, fig. 2.*
 1886. Brauer. Ann. naturh. hofmus., i: 108-109.

471. *Homothetus fossilis*. (Homothetidae.)

Locality: St. John, New Brunswick. Horizon: Devonian.

1865. Scudder. Dev. ins. N. Brunsw., 1 (unnamed).
 1865. " Bailey, Obs. geol. south. N. Brunsw., 140 (unnamed).
 1865. " Amer. journ. sc., (2), xxxix: 357 (unnamed).
 1865. " Can. nat., n. s., ii: 235 (unnamed).
 1865. " Trans. ent. soc. Lond., (3), ii: 117 (unnamed).
 1867. " Can. nat., (2), iii: 205. *Pl. 3.*
 1867. " Geol. mag., iv: 387. *Pl. 17, fig. 3.*
 1868. " Dawson, Acad. geol., 2d ed., 524-525. *Fig. 182.*
 1868. " Amer. nat., i: 631. *Pl. 16, fig. 7.*
 1868. " Geol. mag., v: 172, 176.
 1872. Packard. Guide ins., 3d ed., 78. *Pl. 1, fig. 7.*
 1880. Scudder. Dev. ins. N. Brunsw. (Anniv. mem. Bost. soc. nat. hist.), 17-20.
Pl. 1, figs. 1, 2.

1880. Dawson. Chain of life, 140. *Fig.* 123b.
 1881. Hagen. Bull. mus. comp. zool., viii: 278-279.
 1883. Lacoe. List pal. foss. ins., 9.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 331.
 1885. " Earl. winged ins. Amer., 5-6. *Pl.*, *fig.* 1; *fig.* on p. 5.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 56.
 1885. " Geol. mag., (3), ii: 485.
 1885. " Trans. geol. soc. Manch., xviii: 276.
 1885. " Foss. ins. prim. rocks, 8.
 1885. " Jahrb. geol. reichsanst., xxxv: 653.
 1885. Hagen. Nature, xxxii: 54.
 1885. " Dev. ins., 2.
 1885. " Zool. anz., viii: 297.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 760. *Fig.* 946.
 1886. " Zittel-Barrois, Traité de paléont., ii: 759. *Fig.* 962.
 1886. " Bull. U. S. geol. surv., No. 31: 42.
 1886. Brauer. Ann. naturh. hofmus., i: 111-112.
 1889. Miller. N. A. geol. and pal., 578. *Fig.* 1087.
 1890. Scudder. Foss. ins. N. A., i: 169-172, 279-280, 295. *Pl.* 7, *figs.* 1, 2; *pl.* 14, *fig.* 1; *fig.* on p. 279.

472. *Lamproptilia elegans*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 283.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv: 658.

473. *Lamproptilia grand'euryi*

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63. *Pl.* 3, *fig.* 1.
 1885. " Rev. scient., (3), xxxvi: 277. *Fig.* 4.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 283. *Fig.*
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv: 658.
 1886. Brauer. Ann. naturh. hofmus., i: 109-110. *Pl.* 8, *fig.* 14.

474. *Lamproptilia priscotincta*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 283.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv: 658.

475. *Leptoneura* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Ins. foss. terr. prim. *Pl.* [5], *fig.* 3.
 1886. Brauer. Ann. naturh. hofmus., i: 110.

476. *Leptoneura delicatula*.

Locality: Commentry, France. Horizon: Carboniferous

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 62.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 282.
 1885. " Foss. ins. prim. rocks, 14.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

477. *Leptoneura elongata*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 62.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 282.
 1885. " Foss. ins. prim. rocks, 14.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

478. *Leptoneura oustaleti*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Ins. foss. terr. prim., 62. Pl. [5], fig. 4.
 1885. " Bull. soc. amis sc. Rouen, (3), xxi: 62.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 282.
 1885. " Foss. ins. prim. rocks, 14.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.
 1886. Brauer. Ann. naturh. hofmus., i: 110.

479. *Leptoneura robusta*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 62.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 282.
 1885. " Foss. ins. prim. rocks, 14.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.

Libellula carbonaria. See I, ARACHNIDA, Ibid.*Lithentomum hartii*. See *Lithentomum hartii*.480. *Lithentomum hartii*. (Hemeristina.)

Locality: St. John, N. B. Horizon: Devonian.

1865. Scudder. Dev. ins. N. Brunsw., 1 (unnamed).
 1865. " Bailey, Obs. geol. south. N. Brunsw., 140 (unnamed).
 1865. " Amer. Journ. sc., (2), xxxix: 357 (unnamed).
 1865. " Can. nat., n. s., ii: 235 (unnamed).
 1865. " Trans. ent. soc. Lond., (3), ii: 117 (unnamed).
 1867. " Can. nat., (2), iii: 206. Pl. 4.
 1867. " Geol. mag., iv: 387. Pl. 17, fig. 4.
 1868. " Dawson, Acad. geol., 2d ed., 525. Fig. 183.
 1868. " Amer. nat., i: 630 (hartii). Pl. 16, fig. 5.
 1868. " Geol. mag., v: 172, 176.
 1872. Packard. Guide ins., 3d ed., 78 (hartii). Pl. 1, fig. 5.
 1880. Scudder. Dev. ins. N. Brunsw. (Anniv. mem. Bost. soc. nat. hist.), 22-24.
 Pl. 1, fig. 3.
 1880. Dawson. Chain of life, 140. Fig. 123c.

1881. Hagen. Bull. mus. comp. zool., viii: 278.
 1883. Lacoë. List pal. foss. ins., 10.
 1885. Scudder. Earl. winged ins. Amer., 4. *Pl.*, figs. 2, 3.
 1885. " Mem. Bost. soc. nat. hist., iii: 341.
 1885. Brongniart. Bull. soc. amis sc. Rouen. (3), xxi: 56.
 1885. " Geol. mag., (3), ii: 485.
 1885. " Trans. geol. soc. Manch., xviii: 275-276.
 1885. " Foss. ins. prim. rocks, 7.
 1885. " Jahrb. geol. reichsanst., xxxv: 653.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 761.
 1886. " Zittel-Barrois, Traité de paléont., ii: 761.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1886. Brauer. Ann. naturh. hofmus., i: 111, 114.
 1889. Lesley. Dict. foss. Penns., i: 351.
 1889. Miller. N. A. géol. and pal., 578-579. *Fig.* 1088.
 1890. Scudder. Foss. ins. N. A., i: 174-175, 278, 305. *Pl.* 7, *fig.* 3; *Pl.* 14, *figs.* 2, 3.

481. *Lithomantis carbonaria*. (Hemeristina.)

Compared with *Blepharis domina*, Abyssinia.

Locality: Scotland. Horizon: Carboniferous.

1876. Woodward. Quart. Journ. geol. soc. Lond., xxxii: 60-64 (*carbonaria*). *Pl.* 9, *fig.* 1.
 1879. Scudder. Mem. Bost. soc. nat. hist., iii: 18 note 2 (*Archimantis*).
 1880. " Arch. sc. phys. nat., (3), iii: 363.
 1881. " Geol. mag., (2), viii: 296-300.
 1881. " Harv. univ. bull., ii: 175.
 1883. " Mem. Bost. soc. nat. hist., iii: 219, 220, 223.
 1885. " Mem. Bost. soc. nat. hist., iii: 340.
 1885. " Zittel, Handb. palaeont., i, th. ii: 761. *Fig.* 950.
 1886. " Zittel-Barrois, Traité de paléont., ii: 761. *Fig.* 966.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1886. Brauer. Ann. naturh. hofmus., i: 113.
 1890. Scudder. Foss. ins. N. A., i: 38 note, 241, 242, 245, 304.

482. *Lithopasma lithantraca*. (Homothetidae.)

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen. (3), xxi: 59.
 1885. " Geol. mag., (3), ii: 487 (*lithantraca*).
 1885. " Trans. geol. soc. Manch., xviii: 279.
 1885. " Foss. ins. prim. rocks, 11.
 1885. " Jahrb. geol. reichsanst., xxxv: 656.

See also *Gryllaeris lithantraca*, etc.

Lithopasma lithantraca. See *Lithopasma lithantraca*.

483. *Lithosialis bohémica*. (Hemeristina.)

Locality: Bohemia. Horizon: Carboniferous.

1881. Scudder. Proc. Bost. soc. nat. hist., xxi: 167.
 1881. " Harv. univ. bull., ii: 175.
 1885. " Mem. Bost. soc. nat. hist., iii: 341.
 1885. " Zittel, Handb. palaeont., i, th. ii: 761.
 1886. " Zittel-Barrois, Traité de paléont., ii: 761.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1890. " Foss. ins. N. A., i: 304.

See also *Gryllaeris bohémica*.

484. Lithosialis brongniarti. (Hemeristina.)

Locality: Coalbrookdale, Shropshire, England. Horizon: Carboniferous.

1861. Scudder. Proc. Bost. soc. nat. hist., xxi: 167.
 1881. " Harv. univ. bull., ii: 175.
 1881. " Geol. mag., (2), viii: 296-300.
 1883. " Mem. Bost. soc. nat. hist., iii: 220-223. *Pl. 17, fig. 1, 2, 8, 9.*
 1885. " Mem. Bost. soc. nat. hist., iii: 340.
 1885. " Zittel, Handb. palaeont., i, th. ii: 761, 822.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 761, 824.
 1886. " Bull. U. S. geol. surv., No. 31: 44, 104.
 1890. " Foss. ins. N. A., i: 242-245, 304. *Pl. 11, figs. 1, 2, 8, 9.*

See also *Corydalis* ——— And., *Corydalis brongniarti*, *Gryllacris brongniarti*, *Gryllacris (Corydalis) brongniarti*, *Protogryllacris brongniarti*, *Mantispa* ——— Keferst.

485. Lithosialis carbonaria. (Hemeristina.)

Locality: Wettin, Saxony. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 340.
 1885. " Zittel, Handb. palaeont., i, th. ii: 761.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 761.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1890. " Foss. ins. N. A., i: 304.

See also *Blattina carbonaria*, etc.

486. Mantispa ———.

Locality: Colebrook, England. Horizon: Carboniferous.

1834. Keferstein. *Naturg. erdkörp.*, ii: 338.
 (Very probably *Lithosialis brongniarti*.)

See also *Lithosialis brongniarti*.

Meganthentomum formosum. See *Meganthentomum formosum*.

487. Meganthentomum carbonatum.

Locality: Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Ronen, (3), xxi: 60 (referring to "*Acridites carbonatus* Gold.," but there is no such insect described; possibly he refers to *A. carbonarius* Germ.).
 1885. Brongniart. Geol. mag., (3), ii: 487.
 1885. " Trans. geol. soc. Manch., xviii: 280.
 1885. " Foss. ins. prim. rocks, 12.
 1885. " Jahrb. geol. reichsanst., xxxv: 656.

See also *Acridites carbonarius*.

488. Meganthentomum formosum. (Gerarina.)

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1876. Scudder. Proc. Bost. soc. nat. hist., xviii: 359.
 1885. " Mem. Bost. soc. nat. hist., iii: 347 (*Meganthentomum*.)
 1885. Brongniart. Bull. soc. amis sc. Ronen, (3), xxi: 60.
 1885. " Geol. mag., (3), ii: 487.
 1885. " Trans. geol. soc. Manch., xviii: 280.
 1885. " Foss. ins. prim. rocks, 12.
 1885. " Jahrb. geol. reichsanst., xxxv: 656.
 1890. Scudder. Foss. ins. N. A., i: 311.

See also *Acridites formosus*.

489. Megathentomum pustulatum. (Gerarina.)

Locality: Morris, Ill. Horizon: Carboniferous.

1868. Scudder. Proc. Bost. soc. nat. hist., xi: 401-402.
 1868. " Ent. notes, i: 7-8.
 1868. " Worth., Geol. surv. Ill., iii: 570. Fig. 7.
 1872. Packard. Guide ins., 3d ed., 621. Fig. 617.
 1876. Scudder. Proc. Bost. soc. nat. hist., xviii: 359.
 1883. Lacoe. List pal. foss. ins., 11.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 346-347. Pl. 32, figs. 1, 9, 10.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 60.
 1885. " Geol. mag., (3), ii: 487.
 1885. " Trans. geol. soc. Manch., xviii: 280.
 1885. " Foss. ins. prim. rocks, 11-12.
 1885. " Jahrb. geol. reichsanst., xxxv: 656.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 762. Fig. 954.
 1886. " Zittel-Barrois, Traité de paléont., ii: 762. Fig. 970.
 1886. " Bull. U. S. geol. surv., No. 31: 45.
 1886. Brauer. Ann. naturh. hofmus., i: 114.
 1889. Lesley. Dict. foss. Penns., i: 383. Fig.
 1889. Miller. N. A. geol. and pal., 579. Fig. 1090.
 1890. Scudder. Foss. ins. N. A., i: 310-311. Pl. 18, figs. 1, 9, 10.

490. Miamia bronsoni. (Paleopteria.)

Locality: Morris, Ill. Horizon: Carboniferous.

1864. Dana. Amer. journ. sc., (2), xxxvii: 34-35. Fig. 1.
 1865. Scudder. Amer. journ. sc., (2), xl: 269-271.
 1865. " Proc. Bost. soc. nat. hist., x: 96.
 1866. " Mem. Bost. soc. nat. hist., i: 190. Pl. 6, figs. 2, 4.
 1866. " Zool. relat. foss. neur. ins., 18. Pl., figs. 2, 4.
 1868. " Amer. nat., i: 630. Pl. 16, fig. 1.
 1868. " Geol. mag., v: 217-218.
 1872. Packard. Guide ins., 3d ed., 78. Pl. 1, fig. 1.
 1874. Dana. Man. geol., 2d ed., 343. Fig. 669 on p. 335.
 1876. Gerstäcker. Klass. ordo. arthr., Crust., i: 292 (a Perlarian).
 1877. Goldenberg. Fanna sarap. foss., ii: 14-15.
 1883. Lacoe. List pal. foss. ins., 11.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 333.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 62.
 1885. " Geol. mag., (3), ii: 488.
 1885. " Trans. geol. soc. Manch., xviii: 282.
 1885. " Foss. ins. prim. rocks, 14.
 1885. " Jahrb. geol. reichsanst., xxxv: 657.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 760.
 1886. " Zittel-Barrois, Traité de paléont., ii: 760.
 1886. " Bull. U. S. geol. surv., No. 31: 43.
 1886. Brauer. Ann. naturh. hofmus., i: 113.
 1889. Lesley. Dict. foss. Penns., i: 402.
 1889. Miller. N. A. geol. and pal., 579.
 1890. Scudder. Foss. ins. N. A., i: 18, 297. Pl. [1], figs. 2, 4.

491 Miamia danæ. (Gerarina.)

Locality: Mazou Creek, Ill. Horizon: Carboniferous.

1868. Scudder. Worth., Geol. surv. Ill., iii: 566. Fig. 1.
 1883. Lacoe. List pal. foss. ins., 11.
 1874. Dana. Man. geol., 2d ed., 343. Fig. 670 on p. 335.

See also *Gerarus danæ*, *Chrestotes danæ*.

492. *Mixotermes lugauensis*. (Homothetidae.)

Locality: Lugau, Saxony. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 331.
 1885. " Zittel, Handb. palaeont., i, th. ii: 760.
 1886. " Zittel-Barrois, Traité de paléont., ii: 760.
 1886. " Bull. U. S. geol. surv., No. 31: 42.
 1890. " Foss. ius. N. A., i: 295.

See also *Termes* (*Mixotermes*) *lugauensis*, *Chrestotes lugauensis*.**493. *Omalia macroptera*. (Homothetidae.)**

Locality: Sars Longchamps, Belgium. Horizon: Carboniferous.

1867. Bened.-Coem. Bull. acad. roy. Belg., (2), xxiii, iv: 384-401. *Pl.*, fig. [5.]
 1867. " Ins. et gast. terr. houill., 11-20. *Pl.*, fig. [5.]
 1867. " Ann. sc. nat., (5), zool., vii: 271-276. *Pl.* 1, fig. 10.
 1877. Goldenberg. Fauna sarap. foss., ii: 16, 50.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 331.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 66.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 287.
 1885. " Foss. ins. prim. rocks, 18.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 760.
 1886. " Zittel-Barrois, Traité de paléont., ii: 760.
 1886. " Bull. U. S. geol. surv., No. 31: 42.
 1890. " Foss. ius. N. A., i: 295.

494. *Oustaletia* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 66.

Pachytylopsis borinensis*. See I, ORTHOPT., Idem.*495. *Pachytylopsis persenairei*. (Hemeristina.)**

Locality: Mons, Belgium. Horizon: Carboniferous.

1875. Borre. Compt. rend. soc. ent. Belg., (2), xii: 6-7.
 1875. " Ann. soc. ent. Belg., xviii: 5-6. *Pl.* 5, fig. 1.
 1875. " Empr. d'ins. foss., 5-6. *Pl.* 5, fig. 1.
 1875. Giard. Bull. sc. hist. litt. dép. Nord, vii: 121-122.
 1876. Van Volxem. Compt. rend. soc. ent. Belg., (2), xxiv: 20-26.
 1876. " Note cr. s. sur Pach., 1-7.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 341. *Pl.* 31, fig. 7.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 66.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 287.
 1885. " Foss. ins. prim. rocks, 18.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 761.
 1886. " Zittel-Barrois, Traité de paléont., ii: 761.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1886. Brauer. Ann. naturh. hofmus., i: 113-114.
 1890. Scudder. Foss. ius. N. A., i: 305. *Pl.* 17, fig. 1.

496. *Palæoblattina douvillei*.

Locality: Jurques, France. Horizon: Middle Silurian.

1885. Brongniart. Compt. rend., xcix: 1164-1165.
 1885. " Bull. séances soc. ent. Fr., 1884: 236-237.
 1885. " La nature, xiii: 116. *Figs.* 1, 2.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi : 55. *Pl. 3, figs. 4, 5.*
 1885. " Geol. mag., (3), ii : 484.
 1885. " Trans. geol. soc. Manch., xviii : 274.
 1885. " Foss. ins. prim. rocks, 6.
 1885. " Jahrb. géol. reichsanst., xxxv : 652.
 1885. Goss. Ent. monthl. mag., xxi : 200.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii : 322 (without name).
 1885. " Zittel, Handb. palaeont., i, th. ii : 753, 820. *Fig. 929.*
 1886. " Zittel-Barrois, Traité de paléont., ii : 752, 823. *Fig. 946.*
 1886. " Bull. U. S. geol. surv., No. 31 : 46, 103.
 1886. " Miall, Cockroach, 213.
 1886. Brauer. Ann. naturh. hofmus., i : 97, 104. *Pl. 8, fig. 20.*
 1888. Vidal. Ins. y plantas, 8.
 1890. Lesley. Dict. foss. Penns., ii : 578. *Fig.*
 1890. Scudder. Foss. ins. N. A., i : 286 (without name).

Palephemera antiqua. See *Platephemera antiqua*.

497. Palingenia feistmanteli. (Palephemeridæ.)

Compared with *P. longicauda*.

Locality : Votvovic, Bohemia. Horizon : Carboniferous.

1880. Fritsch. Vesmír, ix : 241-242. *Figs. A, B.*
 1882. " Mojs., Beitr. palaeont. Oesterr.-Ung., ii : 1-3. *Pl. 1, figs. 1-6.*
 1882. " Foss. arthr. steink. u. kreidef. Böhmens, 1-3. *Pl. 1, figs. 1-6.*
 1884. Kušta. Vesmír, xiii : 98.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii : 324.
 1885. " Zittel, Handb. palaeont., i, th. ii : 758.
 1886. " Zittel-Barrois, Traité de paléont., ii : 758.
 1886. " Bull. U. S. geol. surv., No. 31 : 41.
 1886. Brauer. Ann. naturh. hofmus., i : 113.
 1889. Brongniart. Ann. géol. univ., v : 1023.
 1890. Scudder. Foss. ins. N. A., i : 288.

498. Petrablattina subtilis. (Palæopterina.)

Locality : Schiffweiler, Germany. Horizon : Carboniferous.

1883. Kliver. Neue blatt. Saarbr., 6-7 (*Petroblattina*.) *Pl. 2, figs. 1, 1a.*
 1883. " Palaeontogr., xxix : 254-255. *Pl. 35, figs. 1, 1a.*

See also *Strephocladus subtilis*.

Petroblattina subtilis. See *Petrablattina subtilis*.

499. Pictetia ———.

Locality : Commentry, France. Horizon : Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi : 66.

500. Platephemera antiqua. (Palephemeridæ.)

Locality : St. John, N. B. Horizon : Devonian.

1865. Scudder. Dev. ins. N. Brunsw., 1 (unnamed).
 1865. " Bailey, Obs. geol. south. N. Brunsw., 140 (unnamed).
 1865. " Amer. journ. sc., (2), xxxix : 357 (unnamed).
 1865. " Can. nat., ii : 235 (unnamed).
 1865. " Trans. ent. soc. Lond., (3), ii : 117 (unnamed).
 1867. " Can. nat., n. s., iii : 205. *Fig. 2.*
 1867. " Geol. mag., iv : 387. *Pl. 17, fig. 2.*
 1868. " Dawson, Acad. geol., 2d ed., 524. *Fig. 181.*

1868. Scudder. Amer. nat., i: 630. *Pl.* 16, *fig.* 3.
 1868. " Geol. mag., v: 173, 175-176.
 1872. Packard. Guide ins., 3d ed., 78. *Pl.* 1, *fig.* 3.
 1876. Roemer. Lethæa geogn. *Pl.* 31, *fig.* 9.
 1877. Nicholson. Life-hist. earth, 145. *Fig.* 89.
 1879. " Manual palæont., 2d ed., i: 405. *Fig.* 256.
 1880. Scudder. Dev. ins. N. Brunsw. (Anniv. mem. Bost. soc. nat. hist.), 7-11.
Pl. 1, *figs.* 5, 9, 10.
 1880. Dawson. Chain of life, 140. *Fig.* 123a.
 1881. Hagen. Bull. mus. comp. zool., viii: 276.
 1883. Lacoe. List pal. foss. ins., 14.
 1885. Scudder. Earl. winged ins. Amer., 3-4. *Pl.*, *figs.* 10, 11; *fig.* on p. 3.
 1885. " Mem. Bost. soc. nat. hist., iii: 323 (Palephemera).
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 56.
 1885. " Geol. mag., (3), ii: 485.
 1885. " Trans. geol. soc. Manch., xviii: 275.
 1885. " Foss. ins. prim. rocks, 7.
 1885. " Jahrb. geol. reichsanst., xxxv: 653.
 1885. Hagen. Nature, xxxii: 54.
 1885. " Devon. ins., 2-4.
 1885. " Zool. anz., viii: 298-299.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 758. *Fig.* 943.
 1886. " Zittel-Barrois, Traité de paléont., ii: 758. *Fig.* 959.
 1886. " Bull. U. S. geol. surv., No. 31: 41.
 1886. Brauer. Ann. naturh. hofmus., i: 110-111, 113.
 1889. Miller. N. A. geol. and pal., 580. *Fig.* 1094.
 1889. Brongniart. Ann. géol. univ., v: 1021.
 1889. Nicholson. Manual palæont., 3d ed., i: 594. *Fig.* 445.
 1890. Lesley. Dict. foss. Penns., ii: 663. *Fig.*
 1890. Scudder. Foss. ins. N. A., i: 159-163, 277, 287. *Pl.* 7, *figs.* 5, 9, 10; *fig.* on p. 277.

501. *Polyernus complanatus*. (Gerarina.)

Locality: Mazon Creek, Ill. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 343. *Pl.* 32, *figs.* 8, 11.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1889. Miller. N. A. geol. and pal., 580.
 1890. Lesley. Dict. foss. Penns., ii: 730.
 1890. Scudder. Foss. ins. N. A., i: 307. *Pl.* 18, *figs.* 8, 11.

502. *Polyernus laminarum*. (Gerarina.)

Locality: Pittston, Pa. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 343. *Pl.* 31, *fig.* 1.
 1886. " Bull. U. S. geol. surv., No. 31: 44.
 1889. Miller. N. A. geol. and pal., 580.
 1890. Lesley. Dict. foss. Penns., ii: 730. *Fig.*
 1890. Scudder. Foss. ins. N. A., i: 307. *Pl.* 17, *fig.* 1.

503. *Propteticus infernus*. (Pakeopterina.)

Locality: Little Vermilion River, Ill. Horizon: Carboniferous.

1883. Scudder. MSS.
 1883. Lacoe. List pal. foss. ins., 14-15.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 334-336. *Pl.* 31, *figs.* 3, 4.
 1885. " Zittel, Handb. palæont., i, th. ii: 760. *Fig.* 947.
 1886. " Zittel-Barrois, Traité de paléont., ii: 760. *Fig.* 963.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 43.
 1886. Brauer. Ann. naturh. hofmus., i: 113.
 1889. Miller. N. A. geol. and pal., 581.
 1890. Lesley. Dict. foss. Penns., ii: 772. *Fig.*
 1890. Scudder. Foss. ins. N. A., i: 298-300. *Pl. 17, figs. 3, 4.*

504. *Protagrion* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 65-66.
 1885. " Rev. scient., (3), xxxvi: 278.

505. *Protascalaphus* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 67.

506. *Protocapnia* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Rev. scient., (3), xxxvi: 278.

507. *Protodiamphipnoa* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 66.

508. *Protogryllacris brongniarti*. (Hemeristina.)

Locality: Coalbrookdale, England. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 59.
 1885. " Rev. scient., (3), xxxvi: 276.
 1885. " Geol. mag., (3), ii: 486.
 1885. " Trans. geol. soc. Manch., xviii: 278.
 1885. " Foss. ius. prim. rocks, 10.

See also *Lithosialis brongniarti*, etc.

509. *Protokollaria ingens*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 66. *Pl. 3, fig. 3.*
 1886. Brauer. Ann. naturh. hofmus., i: 108. *Pl. 7, fig. 6.*

510. *Protoperla* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 66.

511. *Prototettix lithanthraca*. (Homothetidae.)

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1856. Giebel. Insect. d. vorwelt, 306-307.

See also *Gryllacris lithanthraca*, etc.

512. *Sphecoptera* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63-64.
 1885. " Rev. scient., (3), xxxvi: 278.

513. *Strephocladus subtilis*. (Paleopteriina.)

Locality: Schiffweiler, Germany. Horizon: Carboniferous.

1885. Scudder. Mem. Bost. soc. nat. hist., iii: 337.
 1885. " Zittel, Handb. palaeont., i, th. ii: 760. *Fig.* 948.
 1886. " Zittel Barrois, *Traité de paléont.*, i: 760. *Fig.* 964.
 1886. " Bull. U. S. geol. surv., No. 31: 43.
 1886. Brauer. Ann. naturh. hofmus., i: 113.
 1890. Scudder. Foss. ins. N. A., i: 301.

See also *Petrablattina subtilis*.

Termes spp. See I, ORTHOPT., *Idem*.

514. *Termes?* ———.

Locality: Mons, Belgium. Horizon: Carboniferous.

1875. Borre. Compt. rend. soc. ent. Belg., (2), xii: 7.
 1875. " Ann. soc. ent. Belg., xviii: 5-6. *Pl.* 5, *fig.* 3.
 1875. " Empr. d'ius. foss., 5-6. *Pl.* 5, *fig.* 3.

See also I, ORTHOPT., *Termes haidingeri*.

515. *Termes buchi*.

Locality: Jägersfreude, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 50.

See also *Termes (Calotermes) buchi*.

516. *Termes (Calotermes) buchi*.

Locality: Jägersfreude, Germany. Horizon: Carboniferous.

1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 12-13. *Pl.* 2, *fig.* 9 (ined.)
 1873. " Fauna sarap. foss., i: 12-13. *Pl.* 2, *fig.* 9.

See also *Termes buchi*.

517. *Termes contusus*. (Homothetidæ.)

Locality: Vermilion Co., Ill. Horizon: Carboniferous.

1878. Scudder. Proc. Bost. soc. nat. hist., xix: 300-301.
 1878. " Entom. notes, vi: 54-55.
 1883. Lacoe. List. pal. foss. ins., 15.

See also *Didymophleps contusa*, etc.

Termes hageni. See I, ARACHNIDA, *Idem*.

518. *Termes (Mixotermes) lugauensis*. (Homothetidæ.)

Locality: Lugau, Saxony. Horizon: Carboniferous.

1881. Sterzel. Ber. naturw. gesellsch. Chemn., vii: 273-276. *Pl.*, *figs.* 3-5.

See also *Mixotermes lugauensis*, etc.

Termitidium spp. See I, ORTHOPT., *Idem*.

519. *Trichaptum* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 63.
 1885. " Rev. scient., (3), xxxvi: 278.

520. *Woodwardia longicauda*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 64.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 284.
 1885. " Foss. ins. prim. rocks, 16.
 1885. " Jahrb. geol. reichsanst., xxxv: 659.

521. *Woodwardia modesta*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 64.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 489.
 1885. " Trans. geol. soc. Manch., xviii: 284.
 1885. " Foss. ins. prim. rocks, 16.
 1885. " Jahrb. geol. reichsanst., xxxv: 659.

522. *Woodwardia nigra*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Ins. foss. terr. prim., 64. *Pl.* 2, *fig.* 2: *Pl.* [4], *fig.* 1.
 1885. " Bull. soc. amis sc. Rouen, (3), xxi: 64. *Pl.* 2, *fig.* 2.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 489. *Pl.* 12, *fig.* 1.
 1885. " Trans. geol. soc. Manch., xviii: 284-285. *Pl.*, *fig.* 1.
 1885. " Foss. ins. prim. rocks, 16.
 1885. " Jahrb. geol. reichsanst., xxxv: 659.
 1886. Brauer. Ann. naturh. hofmus., i: 105-106. *Pl.* 8, *fig.* 12.

523. *Xenoneura antiquorum*. (*Xenoneurida*.)

Locality: St. John, N. B. Horizon: Devonian.

1865. Scudder. Dev. ins. N. Brunsw., 1 (unnamed).
 1865. " Bailey, Obs. geol. south. N. Brunsw., 140 (unnamed).
 1865. " Amer. journ. sc., (2), xxxix: 357 (unnamed).
 1865. " Can. nat., n. s., ii: 235 (unnamed).
 1865. " Trans. ent. soc. Lond., (3), ii: 117 (unnamed).
 1867. " Can. nat., n. s., iii: 206. *Fig.* 5.
 1867. " Geol. mag., iv: 387-388. *Pl.* 17, *fig.* 5.
 1868. " Dawson, Acad. geol., 2d ed., 525-526. *Fig.* 184.
 1868. " Amer. nat., ii: 163. *Fig.* 1.
 1868. " Geol. mag., v: 174, 176.
 1880. " Dev. ins. N. Brunsw. (Anniv. mem. Bost. soc. nat. hist.), 24-29.
 Pl. 1, *figs.* 5, 6, 7.
 1880. Dawson. Chain of life, 140. *Fig.* 123d.
 1881. Hagen. Bull. mus. comp. zool., viii: 279-280.
 1883. Lacoe. List pal. foss. ins., 15.
 1885. Scudder. Earl. winged ins. Amer., 6-7. *Pl.*, *figs.* 5-7.
 1885. " Mem. Bost. soc. nat. hist., iii: 338.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 57.
 1885. " Geol. mag., (3), ii: 485.
 1885. " Trans. geol. soc. Manch., xviii: 276.
 1885. " Foss. ins. prim. rocks, 8.
 1885. " Jahrb. geol. reichsanst., xxxv: 653.
 1885. Hagen. Nature, xxxii: 53-54.

1885. Hagen. Zool. anz., viii : 297, 300.
 1885. " Devon. ius., 1-2.
 1885. Scudder. Zittel, Handb. palacont., i, th. ii : 760. *Fig.* 949.
 1886. " Zittel-Barrois, Traité de paléont., ii : 760. *Fig.* 965.
 1886. " Bull. U. S. geol. surv., No. 31 : 43.
 1886. Braner. Ann. naturh. hofmus., i : 112.
 1889. Miller. N. A. geol. and pal., 581. *Fig.* 1096.
 1890. Scudder. Foss. ins. N. A., i : 176-181; 280-281, 302. *Pl.* 7, *figs.* 5-7; *Pl.* 14, *figs.* 5-7.

524. *Zeilleria carbonaria*.

Locality : Commentry, France. Horizon : Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi : 63.
 1885. " Geol. mag., (3), ii : 489.
 1885. " Trans. geol. soc. Manch., xviii : 283.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv : 658.

525. *Zeilleria formosa*.

Locality : Commentry, France. Horizon : Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi : 63.
 1885. " Geol. mag., (3), ii : 489.
 1885. " Trans. geol. soc. Manch., xviii : 283.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv : 658.

526. *Zeilleria fusca*.

Locality : Commentry, France. Horizon : Carboniferous.

1885. Brongniart. Ins. foss. terr. prim., 63. *Pl.* [5], *fig.* 2.
 1885. " Bull. soc. amis sc. Rouen, (3), xxi : 63.
 1885. " Geol. mag., (3), ii : 489.
 1885. " Trans. geol. soc. Manch., xviii : 283.
 1885. " Foss. ins. prim. rocks, 15.
 1885. " Jahrb. geol. reichsanst., xxxv : 658.
 1886. Braner. Ann. naturh. hofmus., i : 110.

THE HEMIPTEROID SERIES

527. *Dictyocicada antiqua*.

Locality : Commentry, France. Horizon : Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi : 67.
 1885. " Rev. scient., (3), xxxvi : 278.
 1885. " Geol. mag., (3), ii : 491.
 1885. " Trans. geol. soc. Manch., xviii : 288.
 1885. " Foss. ins. prim. rocks, 19.
 1885. " Jahrb. geol. reichsanst., xxxv : 661.

528. *Eugereon* ———.

Locality : Nyřan, Bohemia. Horizon : Permian.

1879. Fritsch. Fauna d. Gaskohle Böhmens, i : 31-32.

529. *Eugereon boeckingi*.

Locality : Abentenerhütte, Fürst. Birkenfeld, Germany. Horizon : Todtliegende.

1866. Dohrn. *Eugereon boeckingi*, 1-7. *Pl.* 41.
 1866. " Palaeontogr., xiii : 333-340. *Pl.* 41.
 1867. " Palaeontogr., xvi : 129-131. *Pl.* 8, *fig.* 1.

1867. Dohrn. Stett. entom. zeit., xxviii: 145-148. *Pl.* 1.
 1867. Snell. v. Voll. Versl. alg. vergad. nederl. entom. vereen., xxii: 13.
 1869. Brauer. Verwaudl. insekt. sinne descend. theorie, 19.
 1869. " Verhandl. k. k. zool. bot. gesellsch., 1869: 317.
 1877. Goldenberg. Fauna sarap. foss., ii: 11-14, 50. *Pl.* 1, *figs.* 15, 15a.
 1879. Scudder. Mem. Bost. soc. nat. hist., iii: 18.
 1885. " Mem. Bost. soc. nat. hist., iii: 347.
 1885. " Zittel, Handb. palaeont., i, th. ii: 763. *Fig.* 954.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 60-61.
 1885. " Rev. scient., (3), xxxvi: 277.
 1885. " Geol. mag., (3), ii: 487.
 1885. " Trans. geol. soc. Manch., xviii: 280.
 1885. " Foss. ins. prim. rocks, 12.
 1885. " Jahrb. geol. reichsanst., xxxv: 656.
 1885. Brauer. Sitzungsber. akad. wiss. Wien, xci: 275-279.
 1886. " Ann. naturhist. hofmus., i: 114.
 1886. Scudder. Zittel-Barrois, Traité de paléont., ii: 763. *Fig.* 971.
 1886. " Bull. U. S. geol. surv., No. 31: 45.
 1889. Nicholson. Man. palaeont., 3d ed., i: 595. *Fig.* 446.
 1890. Scudder. Foss. ins. N. A., i: 38, 311.

530. *Eugereon heeri*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 60-61.
 1885. " Rev. scient., (3), xxxvi: 277.
 1885. " Geol. mag., (3), ii: 487.
 1885. " Trans. geol. soc. Manch., xviii: 280.
 1885. " Foss. ins. prim. rocks, 12.
 1885. " Jahrb. geol. reichsanst., xxxv: 656.

531. *Fulgora ebersi*.

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1867. Dohrn. Palaeontogr., xvi: 131-133. *Pl.* 8, *fig.* 2.
 1876. Gerstaecker. Klass. ordu. arthr., Crust., i: 292 (belongs to Blattidæ).
 1886. Brauer. Ann. naturhist. hofmus., i: 114-115.

See also *Fulgorina ebersi*.

532. *Fulgorina ebersi*.

Locality: Saarbrück, Germany. Horizon: Carboniferous.

1877. Goldenberg. Fauna sarap. foss., ii: 28-30, 51. *Pl.* 1, *figs.* 16-17.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 347.
 1885. " Zittel, Handb. palaeont., i, th. ii: 764. *Fig.* 956.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 67.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 287.
 1885. " Foss. ins. prim. rocks, 19.
 1885. " Jahrb. geol. reichsanst., xxxv: 661.
 1886. Scudder. Zittel-Barrois, Traité de paléont., ii: 764. *Fig.* 972.
 1886. " Bull. U. S. geol. surv., No. 31: 45.
 1890. " Foss. ins. N. A., i: 311.

See also *Fulgorina ebersi*.

533. Fulgorina goldenbergi.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. *Ins. foss. terr. prim.*, 67. *Pl.* [5], *fig.* 5.
 1885. " *Bull. soc. amis sc. Rouen*, (3), xxi: 67.
 1885. " *Rev. scient.*, (3), xxxvi: 278.
 1885. " *Geol. mag.*, (3), ii: 491 (goldendergi).
 1885. " *Trans. geol. soc. Manch.*, xviii: 287.
 1885. " *Foss. ins. prim. rocks*, 19.
 1885. " *Jahrb. geol. reichsanst.*, xxxv: 661.

Fulgorina goldendergi. See *Fulgorina goldenbergi.**Fulgorina klieveri.* See *Fulgorina kliveri.***534. Fulgorina kliveri.**

Localities: Saarbrück, Weissig, Michelsberg, Germany. Horizon: Carboniferous.

1869. Goldenberg. *Nenes jahrb. f. mineral.*, 1869: 166-167 (klieveri). *Pl.* 3, *figs.* 13, 13A.
 1877. " *Fauna sarap. foss.*, ii: 31, 51. *Pl.* 1, *figs.* 18, 18a.
 1875. E. Geinitz. *Neues jahrb. f. mineral.*, 1875: 6. *Pl.* 1, *fig.* 3.
 1875. " *Neue aufschl. dyas v. Weissig*, 6. *Pl.* 1, *fig.* 3.
 1883. Kliver. *Neue blatt. Saarbr.*, 10.
 1883. " *Palaeontogr.* xxix: 258.
 1885. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 348.
 1890. " *Foss. ins. N. A.*, i: 312.
 See also *Megablattina kliveri.*

535. Fulgorina lebachensis.

Locality: Lebach, Germany. Horizon: Lower Dyas.

1877. Goldenberg. *Fauna sarap. foss.*, ii: 30-31, 51. *Pl.* 1, *figs.* 19, 19a.
 1885. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 348.
 1885. Brongniart. *Bull. soc. amis sc., Rouen*, (3), xxi: 67.
 1885. " *Rev. scient.*, (3), xxxvi: 278.
 1885. " *Geol. mag.*, (3), ii: 491.
 1885. " *Trans. geol. soc. Manch.*, xviii: 287.
 1885. " *Foss. ins. prim. rocks*, 19.
 1885. " *Jahrb. geol. reichsanst.*, xxxv: 661.
 1890. Scudder. *Foss. ins. N. A.*, i: 312.

536. Fulgorina minor.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. *Bull. soc. amis sc. Rouen*, (3), xxi: 67.
 1885. " *Rev. scient.*, (3), xxxvi: 278.
 1885. " *Geol. mag.*, (3), ii: 491.
 1885. " *Trans. geol. soc. Manch.*, xviii: 287.
 1885. " *Foss. ins. prim. rocks*, 19.
 1885. " *Jahrb. geol. reichsanst.*, xxxv: 661.

537. Fulgorina ovalis.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. *Bull. soc. amis sc. Rouen*, (3), xxi: 78.
 1885. " *Rev. scient.*, (3), xxxvi: 278.
 1885. " *Geol. mag.*, (3), ii: 491.
 1885. " *Trans. geol. soc. Manch.*, xviii: 287.
 1885. " *Foss. ins. prim. rocks*, 19.
 1885. " *Jahrb. geol. reichsanst.*, xxxv: 661.

538. *Macrophlebum hollebeni*.

Locality: Manebach, Thüringen. Horizon: Carboniferous.

1869. Goldenberg. Neues Jahrb. f. Mineral., 1869: 164-166. *Pl.* 3, *figs.* 12A, 12a.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 348.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 59.
 1885. " Geol. mag., (3), ii: 487.
 1885. " Trans. geol. soc. Manch., xviii: 279.
 1885. " Foss. ins. prim. rocks, 11.
 1885. " Jahrb. geol. reichsanst., xxxv: 655.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 764 (cockroach?).
 1886. " Zittel-Barrois, Traité de paléont., ii: 764 (cockroach?).
 1886. " Bull. U. S. geol. surv., No. 31: 45.
 1890. " Foss. ins. N. A., i: 312.

Megablattina klieveri. See *Megablattina kliveri*.

539. *Megablattina kliveri*.

Locality: Germany. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 58 (*klieveri*).
 1885. " Geol. mag., (3), ii: 486.
 1885. " Trans. geol. soc. Manch., xviii: 278.
 1885. " Foss. ins. prim. rocks, 10.
 1885. " Jahrb. geol. reichsanst., xxxv: 655.

See also *Fulgorina kliveri*.

540. *Palæocixius antiquus*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 67.
 1885. " Geol. mag., (3), ii: 491 (*Protocixius*).
 1885. " Trans. geol. soc. Manch., xviii: 288 (*Protocixius*).
 1885. " Foss. ins. prim. rocks, 19 (*Protocixius*).
 1885. " Jahrb. geol. reichsanst., xxxv: 661.

541. *Palæocixius fayoli*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 67.
 1885. " Geol. mag., (3), ii: 491 (*Protocixius*).
 1885. " Trans. geol. soc. Manch., xviii: 288 (*Protocixius*).
 1885. " Foss. ins. prim. rocks, 19 (*Protocixius*).
 1885. " Jahrb. geol. reichsanst., xxxv: 661.

542. *Phthanocoris occidentalis*.

Locality: Kansas City, Mo. Horizon: Carboniferous.

1883. Scudder. Proc. Bost. soc. nat. hist., xxii: 53-59.
 1883. Lacey. List pal. foss. ins., 14.
 1885. Scudder. Mem. Bost. soc. nat. hist., iii: 348-349. *Pl.* 32, *fig.* 4.
 1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 67.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 288.
 1885. " Foss. ins. prim. rocks, 19.
 1885. " Jahrb. geol. reichsanst., xxxv: 661.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 764. *Fig.* 957.

1886. Scudder. Zittel-Barrois, *Traité de paléont.*, ii: 764. *Fig.* 973.
 1886. " Bull. U. S. geol. surv., No. 31: 45.
 1889. Miller. N. A. geol. and pal., 530.
 1890. Lesley. Dict. foss. Penns., ii: 639. *Fig.*
 1890. Scudder. Foss. ins. N. A., i: 312-313. *Pl.* 18, *fig.* 4.

543. *Protociccus fuscus*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 67.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 238.
 1885. " Foss. ins. prim. rocks, 19.
 1885. " Jahrb. geol. reichsanst., xxxv: 661.

544. *Protociccus parvulus*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 67.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 238.
 1885. " Foss. ins. prim. rocks, 19.
 1885. " Jahrb. geol. reichsanst., xxxv: 661.

Protocixius antiquus. See *Palaeocixius antiquus*.

Protocixius fayoli. See *Palaeocixius fayoli*.

545. *Rhipidoptera elegans*.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 67.
 1885. " Rev. scient., (3), xxxvi: 278.
 1885. " Geol. mag., (3), ii: 491.
 1885. " Trans. geol. soc. Manch., xviii: 234 (belongs on 238).
 1885. " Foss. ins. prim. rocks, 19.
 1885. " Jahrb. geol. reichsanst., xxxv: 661.

546. *Scudderia* ———.

Locality: Commentry, France. Horizon: Carboniferous.

1885. Brongniart. Bull. soc. amis sc. Rouen, (3), xxi: 61.
 1885. " Rev. scient., (3), xxxvi: 277.

THE COLEOPTEROID SERIES.

547. ——— ——— (pupa.)

Locality: Bradley, England. Horizon: Carboniferous.

1867. Binney. Proc. lit. phil. soc. Manchester, vi: 59.
 1867. " Geol. mag., iv: 132.

548. ——— ———.

Locality: Coalbrookdale, England. Horizon: Carboniferous.

1834. Prestwich. Lond. Edinb. phil. mag., iv: 376.

549. ————

Locality: [Bohemia.] Horizon: Carboniferous.

1836. Sternberg. Verhandl. gesellsch. vaterl. mus. Böhm., 1836: 34-35 (regarded
by him as larval mines of Lepidoptera). *Pl. 1, fig. 3-4.*

See also *Xyloryctes septarius*.

550. ————

Locality: Yorkshire, England. Horizon: Coal Slate.

1830. Taylor. Loud., mag. nat. hist., iii: 361.

551. ————

Locality: Danby coalpits, Yorkshire, England. Horizon: Carboniferous.

1830. Taylor. Loud., mag. nat. hist., iii: 361.

552. ———— (Carabidæ.)

Locality: Steinkunzendorf, Schlesien. Horizon: Culmschichte.

1885. Dathe. Zeitschr. deutsch. geol. gesellsch., 1885: 542-543.
1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 764 note.
1886. " Zittel-Barrois, *Traité de paléont.*, ii: 764 note.
1886. " Bull. U. S. geol. surv., No. 31: 106 note.

553. ———— (Tenebrionidæ.)

Locality: Steinkunzendorf, Schlesien. Horizon: Culmschichte.

1885. Dathe. Zeitschr. deutsch. geol. gesellsch., 1885: 542-543.
1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 764 note.
1886. " Zittel-Barrois, *Traité de paléont.*, ii: 764 note.
1886. " Bull. U. S. geol. surv., No. 31: 106 note.

Curculioides ansticii. See I, ARACHNIDA, Idem.

Curculioides prestvicii. See I, ARACHNIDA, Idem.

Duma prestvicii. See I, ARACHNIDA, Idem.

Hevila ansticii. See I, ARACHNIDA, Idem.

554. *Hylesinus* ———— (borings). (Scolytidæ.)

Locality: Autun, France. Horizon: Carboniferous.

1877. Brongniart. Ann. soc. ent. Fr., (5), vii: 214-217. *Pl. 7¹¹, figs. 1-4.*
1878. Girard. La nature, vi: 112. *Figs. 1-4.*
1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 764. *Fig. 958.*
1886. " Zittel-Barrois, *Traité de paléont.*, ii: 764. *Fig. 974.*

555. *Troxites germari*.

Localities: Salzbach, Altenwald, Germany. Horizon: Carboniferous.

1854. Goldenberg. Palaeontogr., iv: 36. *Pl. 3, fig. 6.*
1854. " Foss. ins. Saarbr., 20. *Pl. 1, fig. 6.*
1856. Giebel. Insect. d. vorwelt, 36-37.
1867. Goldenberg. Vorweltl. fauna steink. Saarbr., 7. *Pl. 2, fig. 1 (ined.)*
1873. " Fauna sarap. foss., 7. *Pl. 2, fig. 1.*
1876. Gerstaecker. Klass. ordn. arthr., Crust., i: 289 (coleopteron?).
1877. Goldenberg. Fauna sarap. foss., ii: 59.
1879. Scudder. Mem. Bost. soc. nat. hist., iii: 19.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 764, 794 (fruit?).
 1886. " Zittel-Barrois, Traité de paléont., ii: 764, 794.
 1886. " Bull. U. S. geol. surv., No. 31: 46, 73.
 1890. " Foss. ins. N. A., i: 39.
 (Probably not an insect.)

556. *Xyloryctes planus*.

Locality: Overhohndorf, Germany. Horizon: Carboniferous.

1855. Geinitz. Verstein. steinkohlenf. Sachsen, 1-2 (unnamed). *Pl. 8, figs. 1, 4.*
 1874. Frič. Arch. naturwiss. landesdurchf. Böhln., 2, ii, i: 16. *Pl. 3, fig. 5.*
 1884. Kušta. Vesmír, xiii: 97-98.

557. *Xyloryctes septarius*.

Locality: [Bohemia.] Horizon: Carboniferous.

1874. Frič. Arch. naturwiss. landesdurchf. Böhln., 2, ii, i: 15-16. *Pl. 3, fig. 6.*
 1884. Kušta. Vesmír, xiii: 97-98.
 See also ——— Sternberg.

"Caterpillar." [Lepidoptera.] See I, MYRIAPODA, *Euphoberia ferox*.

Larval mines. [Lepidoptera.] See I, COLEOPT. ——— Sternb.

Breyeria borinensis. [Lepidoptera.] See I, ORTHOPT., Idem.

558. ———

Locality: Near Glasgow, Scotland. Horizon: Carboniferous.

1841. Buckland. Proc. geol. soc. Lond., iii: 505. (Hymenoptera.)
 1842. " Ann. mag. nat. hist., ix: 163.

II.—MESOZOIC FOSSILS.

MYRIAPODA.

559. *Geophilus proavus*.

Locality: Kelheim, Bavaria. Horizon: Jura.

1842. Germar. Münst., Beitr. z. petref., v: 89-90. *Pl. 9, fig. 9.*
 1852. Giebel. Deutschl. petref., 634.
 1856. " Insect d. vorwelt, 489.
 1862. Hagen. Palaeontogr., x: 111 (a nereid worm).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 237.
 1870? Ehlers. Palaeontogr., xvii: 145.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 725 (annelid).
 1886. " Zittel-Barrois, Traité de paléont., ii: 724.
 1886. " Bull. U. S. geol. surv., No. 31: 13, 14.

560. *Julopsis cretacea*. (Julidæ.)

Locality: Unter Atanekerdluk, Greenland. Horizon: Cretaceous.

1874. Heer. Kreidellora arct. zone (k. svensk. vetensk. akad. handl., xii;
 Flora foss. arct., iii), 120-121. *Pl. 33, fig. 7.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 725, 731.
 1886. " Zittel-Barrois, Traité de paléont., ii: 724, 730.
 1886. " Bull. U. S. geol. surv., No. 31: 13, 18.

ARACHNIDA.

561. ————

Locality: Hasfield, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 17.

562. ————

Locality: Eichstadt, Bavaria. Horizon: Jura.

1737. Kundmann. Rar. nat. art., 236. Pl. 12, fig. 14.

(Probably not an arachnid.)

563. *Chelifera fossilis*.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 89 (fossils) (no description).

1874. " Énum. syst. faune ent. mésoz., 3 (no description).

(Probably not an arachnid.)

Hasseltia primigenius. See *Hasseltides primigenius*.

564. *Hasseltides primigenius*. (Agalenida.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 253-254. Pl. 34, fig. 1.

1869. " Ins. foss. calc. lithogr., 7-8. Pl. 1, fig. 1.

1869. " Tijdschr. v. ent., (2), iv: 237 (*Hasseltia*).

1873. " Arch. mus. Teyl., iii: 234-236.

1873. " Notes ins. calc. jurass., 1-3.

1874. " Periód. zool., i: 89.

1874. " Énum. syst. faune ent. mésoz., 3.

565. *Nymphon* (vic.) ————

Locality: Solenhofen, Bavaria. Horizon: Jura.

1842. Gray. Buckl., Am. mag. nat. hist., ix: 162-163.

1842. " Buckl., Quart. journ. geol. soc. Lond., iii: 504-505.

(Probably not an arachnid.)

See also *Pycnogonites uncinatus*.

566. *Palpipes cursor*.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1851. Roth. Gel. anz. bayer. akad. wiss., xxxii: 167.

1851. " Neues jahrb. min., 1851: 377.

1856. Giebel. Insect. d. vorwelt, 469.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 237 (*cursor*).

1874. " Periód. zool., i: 88.

1874. " Énum. syst. faune ent. mésoz., 2.

(Not an arachnid.)

See also *Phalangites multipes*.

Palpipes cursor. See *Palpipes cursor*.

567. *Palpipes priscus*.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1851. Roth. Gel. anz. bayer. akad. wiss., xxxii: 166. Fig.

1851. " Neues jahrb. min., 1851: 377. Pl. 4B, fig. 8.

1852. Bronn. Lethæa geogn., 3^e auct., ii, th. ii: 429-430. Pl. 24, fig. 19.

1854. Pictet. *Traité paléont.*, 2^e éd., ii: 407-408. *Pl. 41, fig. 2.*
 1856. Giebel. *Insect. d. vorwelt*, 469.
 1861. Meyer. *Nenes jahrb. min.*, 1861: 561 (refers it to Crustacea).
 1863. " *Palaeontogr.*, x: 299-304. *Pl. 1, figs. 1-4.*
 1863. Winkler. *Cat. syst. coll. pal. mus. Teyl.*, 421.
 1869. Weyenbergh. *Tijdschr. v. ent.*, (2), iv: 237.
 1873. Seebach. *Zeitschr. deutsch. geol. gesellsch.*, xxv: 340-346 (Crustacea).
Pl. 8.
 1874. Weyenbergh. *Periód. zool.*, i: 88.
 1874. " *Enum. syst. faune ent. mésoz.*, 2.
 1890. McCook. *Amer. spiders*, ii: 457-458. *Figs. 385-386.*
 (Not an arachnid.)

568. Phalangites multiples.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1851. Münster. *In litt.*
 1851. Roth. *Gel. anz. bayer. akad. wiss.*, xxxii: 164.
 1851. " *Neues jahrb. min.*, 1851: 375.
 (Not an arachnid.)
 See also *Palpipes cursor*.

569. Phalangites priscus.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. *Beitr. z. petref.*, i: 84-85. *Pl. 8, figs. 3-4.*
 1852. Quenstedt. *Handb. petref.*, 308. *Pl. 21, figs. 26, 27.*
 1870. Thorell. *European spiders*, i: 222-223.
 (Not an arachnid.)
 See also *Palpipes priscus*.

570. Pycnogonites uncinatus.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1852. Quenstedt. *Handb. petref.*, 308. *Pl. 21, fig. 28.*
 (Probably not an arachnid.)
 See also *Nymphon* ——— Gray.

HEXAPODA.**571. ———. (Galls.) .**

Localities: Kansas and Nebraska. Horizon: Dakota Group.

1882. Hagen. *Nature*, xxv: 265-266 (refers to figs. in Lesquereux, *Cret. flora*, Hayden Rep.).

572. ———.

Locality: Near Chanda, Central India. Horizon: Kota Maleri Group.

1879. Medl.-Blanf. *Geol. India*, i: 152, 154.

573. ———.

Locality: England. Horizon: Lower Lias.

1845. Murchison. *Geol. Cheltenham*, 108. *Pl. 9, fig. 1ab.*

574. ———. (Pupa.)

Locality: Siberia. Horizon: ?

1784. Schröter. *Neue litt. u. beytr.*, i: 413-415. *Pl. 3, figs. 14-15.*

575. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 395. *Pl. 17, fig. 7.*

576. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 7.*

577. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 8.*

578. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. soc. Lond., x: 389, 396. *Pl. 18, fig. 13.*

579. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 15.*

ORTHOPTERA.

580. ————.

Locality: Dumbleton, England. Horizon: Upper Lias.
1873. Brodie. Distr. corr. foss. ins., 15.

581. ————.

Locality: Grafton, England. Horizon: Lower Lias.
1873. Brodie. Distr. corr. foss. ins., 16.

582. ————.

Locality: Copt Heath near Knowle, England. Horizon: Lower Lias.
1875. Brodie. Lower Lias Eatington, etc., 10.

583. ————.

Localities: Brown's Wood and Stoooper's Wood, near Henley in Arden, England.
Horizon: Lias.
1875. Brodie. Lower Lias Eatington, etc., 10.

584. ————.

Locality: Hlminster, England. Horizon: Upper Lias.
1878. Goss. Proc. geol. assoc., vi: 130 note.
1878. " Ins. fauna mesoz. per., ii: 17 note.

585. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 38.*

586. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 40.*

587. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 41.*

588. ————.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 42.*

589. ———— (Grasshopper?)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 388, 393. *Pl. 14, fig. 5.*

590. ———— (Grasshopper?)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 388, 393. *Pl. 14, fig. 7.*

591. ———— (Grasshopper.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. *Pl. 15, fig. 14 †.*

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 451. *Pl. 48, figs. 4, 8b.*

1890. " Foss. ins. N. A., i: 343. *Pl. 22, figs. 4, 8b.*

592. ————.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394 (Neuroptera). *Pl. 15, fig. 22.*

See also *Blattina anceps*, *Aporoblattina anceps*.

593. ———— (Blattariæ?)

Locality: England. Horizon: Wealden.

1845. Brodie. Foss. ins. sec. rocks Engl., 121 (undetermined). *Pl. 5, fig. 6.*

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 483.

1890. " Foss. ins. N. A., i: 375.

594. ———— (Blattariæ.)

Locality: Wainlode, Strensham, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westwood, 125). *Pl. 8, fig. 17.*

595. ———— (Blattariæ.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1873. Brodie. Distr. corr. foss. ins., 15.

596. ———— (Blattariæ.)

Locality: Kotá, India. Horizon: Lias?

1861. Hislop. Quart. journ. geol. soc. Lond., xvii, i: 354.

597. ———— (Blattariæ.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

598. ————. (2 sp.) (Blattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1883. Scudder. Proc. Bost. soc. nat. hist., xxii: 59.

599. ————. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. Pl. 15, fig. 19.

600. ————. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. Pl. 15, fig. 20.

601. ————. (Gryllides.)

Localities: Forthampton, Aust, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westwood, 125). Pl. 9, fig. 3.

602. ————. (Gryllides.)

Localities: Wilmcote, Binton, Apperley, Grafton, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

——— (Gryllides.) See ——— (Locustariæ.)

603. ————. (Leg.) (Locustariæ.)

Localities: Forthampton, Aust, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westwood, 125) (Gryllidæ). Pl. 9, fig. 2.

604. ————. (Locustariæ.)

Locality: Australia. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Gryllidæ). Pl. 9, fig. 14.

Abia duplicata. See II, NEUROPT., Idem.

605. Abia sipylus. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 263-264.

See also *Sialium sipylus*, *Pterinoblattina sipylus*.

606. Acheta quærula. (Gryllides.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. Mus. Teyl., ii: 276 (Achita). Pl. 36, fig. 29.

1869. " Ins. foss. calc. lithogr., 30 (Achita). Pl. 3, fig. 29.

1869. " Tijdschr. v. ent., (2), iv: 234 [134] (Achita).

1874. " Periód. zool., i: 97 (Achita).

1874. " Énum. syst. faune ent. mésoz., 11 (Achita).

607. Acheta sedgwicki. (Gryllides.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 6, 32, 118. Pl. 2, fig. 4.

See also *Gryllus sedgwicki*.

Achita quærula. See *Acheta quærula*.

608. Acridiites ———. (Acridii.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 522-523. *Pl. 22, fig. 5.*
 1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 572.

609. Acridiites deperditus. (Acridii.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 84. *Pl. 7, fig. 4.*
 1872. " Monde prim. Suisse, 102. *Pl. 7, fig. 4.*
 1876. " Prim. world Switz., i: 84. *Pl. 7, fig. 4.*
 1879. " Urwelt der Schweiz, 2^e aufl., 94. *Pl. 7, fig. 4.*

610. Acridiites liasinus. (Acridii.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 84.
 1872. " Monde prim. Suisse, 102.
 1876. " Prim. world Switz., i: 84.
 1879. " Urwelt der Schweiz, 2^e aufl., 94.

611. Akicera frauenfeldi. (Acridii.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 128 (unnamed). *Pl. 8, fig. 18.*
 1856. Giebel. Insect. d. vorwelt, 310.

612. Akicera heerl. (Acridii.)

Localities: Wainlode, Strensham, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (unnamed). *Pl. 8, fig. 17.*
 1856. Giebel. Insect. d. vorwelt, 310.

613. Anthracoblattina ———. (Palæoblattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1884. Scudder. Amer. journ. sc., (3), xxviii: 200.
 See also *A. triassica*.

614. Anthracoblattina triassica. (Palæoblattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 464-465. *Pl. 41, fig. 9.*
 1890. " Foss. ins. N. A., i: 440-441. *Pl. 33, fig. 9.*
 See also *Anthracoblattina* ———.

615. Aporoblattina anceps. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 479.
 1890. " Foss. ins. N. A., i: 371.

See also *Blattina anceps*, ——— ——— Westw., 15: 22.

616. Aporoblattina butleri. (Blattariæ.)

Locality: England. Horizon: Lias.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 482. *Pl. 43, fig. 15.*
 1890. " Foss. ins. N. A., i: 374. *Pl. 22, fig. 15.*

617. *Aporoblattina eatoni*. (Blattariae.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 479. *Pl.* 48, *fig.* 19.
 1890. " Foss. ins. N. A., i: 371. *Pl.* 22, *fig.* 19.

618. *Aporoblattina exigua*. (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396 (unnamed). *Pl.* 18, *fig.* 38.
 1886. Scudder. Mem. Bost. soc. nat. hist., iii: 481-482.
 1890. " Foss. ins. N. A., i: 373-374.

619. *Aporoblattina incompleta*. (Blattariae.)

Locality: England. Horizon: Lias.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 481.
 1890. " Foss. ins. N. A., i: 373.

See also *Blattina incompleta*, *Blattidium incompletum*.**620. *Aporoblattina kollari*. (Blattariae.)**

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 480.
 1890. " Foss. ins. N. A., i: 372.

See also *Blattidium kollari*, etc.**621. *Aporoblattina maclachlani*. (Blattariae.)**

Locality: England. Horizon: Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 396 (unnamed). *Pl.* 18, *fig.* 35.
 1886. Scudder. Mem. Bost. soc. nat. hist., iii: 479-480. *Pl.* 48, *fig.* 18.
 1890. " Foss. ins. N. A., i: 371-372. *Pl.* 22, *fig.* 18.

622. *Aporoblattina nana*. (Blattariae.)

Locality: Dobbertin, Mecklenburg. Horizon: Jura.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 481.
 1890. " Foss. ins. N. A., i: 373.

See also *Blattina nana*.**623. *Aporoblattina recta*. (Blattariae.)**

Locality: England. Horizon: Wealden.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 481.
 1890. " Foss. ins. N. A., i: 373.

See also *Blattina recta*, etc.**624. *Aporoblattina westwoodi*. (Blattariae.)**

Locality: Durdlestone Bay, England. Horizon: Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 396 (unnamed). *Pl.* 18, *fig.* 28.
 1886. Scudder. Mem. Bost. soc. nat. hist., iii: 480.
 1890. " Foss. ins. N. A., i: 372.

***Asilicus lithophilus*. See II, DIPTERA, Idem.**

625. Baseopsis forficulina. (Forficulariæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 84. *Pl.* 7, *fig.* 5.
 1872. " Monde prim. Suisse, 103. *Pl.* 7, *fig.* 5.
 1876. " Prim. world Switz., i: 84. *Pl.* 7, *fig.* 5.
 1879. " Urwelt der Schweiz, 94. *Pl.* 7, *fig.* 5.

626. Baseopsis ? sibirica. (Forficulariæ.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. (Brauer-Redt.) Mém. acad. sc. St. Pétersb., (7), xxxvi, No 15: 3-4. *Pl.* [1],
 (enb.-Ganglb.) *figs.* 1, 1b.

627. Bittacus dubius. (Locustariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 119 (unnamed). *Pl.* 5, *fig.* 21.
 1856. Giebel. Insect. d. vorwelt, 258.
 1886. Deichm. Ins. lith. schichten dresd. mus., 16-17 (cf. Elcaua).
 See also Clathrotermes (Elcaua) geinitzi, etc.

628. Blabera avita. (Blattariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1847. Heyden. Palaeontogr., i: 100-101. *Pl.* 12, *fig.* 5.
 1856. Giebel. Insect. d. vorwelt, 497.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234, [134] (invita).
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 767.
 1886. " Zittel-Barrois, Traité de paléont., ii: 767.
 1886. " Mem. Bost. soc. nat. hist., iii: 483.
 1886. Deichm. Ins. lith. schichten dresd. mus., 69 (Hydrophilid?).
 1890. Scudder. Foss. ins. N. A., i: 375.

See also *Musca lithophila*, etc.; also COLEOPT., *Pseudohydrophilus longispinosus*, *Prodytiscus longispinosus*.

629. Blatta ——. (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westwood, 118). *Pl.* 3, *fig.* 7.

630. Blatta ——. (Blattariæ.)

Localities: Brown's Wood and Stoooper's Wood, near Henley in Arden, England.
 Horizon: Lias.

1875. Brodie. Lower Lias Easington, etc., 10.

Blatta dubia. See *Gryllites dubius*.

631. Blatta elongata. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1856. Giebel. Insect. d. vorwelt, 322.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.
 See also *Blattidium elongatum*, etc.

632. Blatta kollari. (Blattariæ.)

Locality: England. Horizon: Wealden.

1856. Giebel. Insect. d. vorwelt, 322.
 See also *Blattidium kollari*, etc.

633. *Blatta pinna*. (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 118 (unnamed). *Pl. 5, fig. 5.*
 1856. Giebel. Insect. d. vorwelt, 322.

See also *Blattidium pinna*, *Ctenoblattina pinna*.

634. *Blatta pluma*. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 394 (unnamed). *Pl. 15, fig. 14t.*
 1856. Giebel. Insect. d. vorwelt, 322.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also *Pterinoblattina pluma*, *Blattidium pluma*.

635. *Blatta stricklandi*. (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32, 118. *Pl. 4, fig. 11.*
 1856. Giebel. Insect. d. vorwelt, 317.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also *Blattidium stricklandi*, *Rithma stricklandi*.

636. *Blatta ungeri*. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 395 (unnamed). *Pl. 17, fig. 13.*
 1856. Giebel. Insect. d. vorwelt, 322.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also *Blattidium ungeri*, *Diechoblattina ungeri*.

637. *Blattaria dunckeri*. (Blattariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 86, 98. *Pl. 3, fig. 12.*
 1874. " Enum. syst. faune ent. mésoz., 12.
 1886. Scudder. Mem. Bost. soc. nat. hist., iii: 483.
 1890. " Foss. ins. N. A., i: 375.

638. *Blattidium* ——. (Blattariæ.)

Locality: England. Horizon: Wealden.

1845. Brodie. Foss. ins. sec. rocks Engl., 119 (unnamed). *Pl. 5, fig. 3.*
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.

See also *Blattina recta*, etc.

639. *Blattidium* ——. (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1877. Goldenberg. Fauna saræp. foss., ii: 21, No. 66.

See also *Blattina similis*, etc.

640. *Blattidium* ——. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 394 (unnamed). *Pl. 15, fig. 19.*
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289
 1877. Goldenberg. Fauna saræp. foss., ii: 21, No. 69.
 1886. Scudder. Mem. Bost. soc. nat. hist., iii: 483.
 1890. " Foss. ins. N. A., i: 375.

641. Blattidium ——. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 396 (unnamed). *Pl.* 18, *fig.* 35.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 1877. Goldenberg. Fauna saræp. foss., ii: 21, No. 60.

642. Blattidium ——. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 396 (unnamed). *Pl.* 18, *fig.* 38.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 1877. Goldenberg. Fauna saræp. foss., ii: 21, No. 61.

643. Blattidium achelous. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl.* 18, *fig.* 26.
 1856. Giebel. Insect. d. vorwelt, 318.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.

644. Blattidium antiquum. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 See also *Rithma antiqua*, etc.

645. Blattidium ? avitum. (Blattariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289.
 1877. Goldenberg. Fauna saræp. foss., ii: 20.
 See also *Blabera avita*, etc., *Musca lithophila*, etc.

646. Blattidium beroldingianum. (Blattariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289, 300-301. *Pl.*, *fig.* 8.
 1877. Goldenberg. Fauna saræp. foss., ii: 20.
 See also *Musca lithophila*, etc.

647. Blattidium elongatum. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394 (unnamed). *Pl.* 15, *fig.* 23.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289.
 See also *Blatta elongata*, *Mesoblattina elongata*.

648. Blattidium incompletum. (Blattariæ.)

Locality: England. Horizon: Lias.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289.
 1877. Goldenberg. Fauna saræp. foss., ii: 20.
 See also *Blattina incompleta*, *Aporoblattina incompleta*.

649. *Blattidium kneri*. (Blattariæ.)

Locality: England. Horizon: Wealden.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also *Elisama kneri*.

650. *Blattidium kollari*. (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also *Blatta kollari*, *Aporoblattina kollari*; also II, NEUROPT., *Corydalis* ———
 Brodie.

651. *Blattidium liasinum*. (Blattariæ.)

Locality: Wainlode, England. Horizon: Lias.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289 (*liassinum*).
 1877. Goldenberg. Fauna saræp. foss., ii: 20.

See also *Blattina liasina*, etc.

***Blattidium liassinum*. See *Blattidium liasinum*.**

652. *Blattidium medium*. (Blattariæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289, 300. *Pl.*, *fig.* 7.
 1877. Goldenberg. Fauna saræp. foss., ii: 20.

See also *Elisama media*.

653. *Blattidium minor*. (Blattariæ.)

Locality: England. Horizon: Wealden.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291.

See also *Elisama minor*.

654. *Blattidium molossus*. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. *Pl.* 15, *fig.* 26.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also *Nethania molossus*, *Elisama molossus*.

655. *Blattidium morrisi*. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.

See also *Rithma morrisi*.

656. *Blattidium murchisoni*. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290,

See also *Rithma murchisoni*, etc.

657. *Blattidium nogaus.* (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl.* 18, *fig.* 23.
 1856. Giebel. Insect. d. vorwelt, 318.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 1877. Goldenberg. Fauna sarap. foss., ii: 21.
 1886. Scudder. Mem. Bost. soc. nat. hist., iii: 474.
 1890. " Foss. ins. N. A., i: 366.

658. *Blattidium pinna.* (Blattariae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 1877. Goldenberg. Fauna sarap. foss., ii: 21.
 See also *Blatta pinna*, *Ctenoblattina pinna*.

659. *Blattidium pluma.* (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289.
 See also *Blatta pluma*, *Pterinoblattina pluma*.

660. *Blattidium purbeccensis.* (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 See also *Rithma purbeccensis*.

661. *Blattidium ramificatum.* (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289.
 See also *Rithma ramificata*, *Elisama ramificata*.

662. *Blattidium similis.* (Blattariae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 289.
 See also *Blattina similis*, etc.

Blattidium simyrus. See *Blattidium simyrus*.

663. *Blattidium stricklandi.* (Blattariae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 See also *Blatta stricklandi*, *Rithma stricklandi*.

664. *Blattidium simyrus.* (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl.* 18, *fig.* 33.
 1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.
 1877. Goldenberg. Fauna sarap. foss., ii: 21.
 1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 112.
 1885. " Zittel, Handb. palaeont., i, th. ii: 766 (*simyrus*). *Fig.* 961.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 766. *Fig.* 977.
 1886. " Miall, *Cockroach*, 217 (*simyrus*). *Fig.* 124.
 1886. " Mem. Bost. soc. nat. hist., iii: 474. *Pl.* 48, *fig.* 17.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 14 (near *Chresmoda*).
 1890. Scudder. Foss. ins. N. A., i: 366. *Pl.* 22, *fig.* 17.

665. Blattidium ungeri. (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.

See also *Blatta ungeri*, etc.

666. Blattidium westwoodi. (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 290.

See also *Rithma westwoodi*.

667. Blattina ———. (Blattariae.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 9-10.

668. Blattina anceps. (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 394 (unnamed) (wrongly quoted fig. 21 by Giebel). *Pl.* 15, *fig.* 22.

1856. Giebel. Insect. d. vorwelt, 317.

See also *Aporoblattina anceps*, ——— ——— Westw., 15: 22.

Blattina angusta. See *Blattina angustata*.

669. Blattina angustata. (Blattariae.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 288, 299-300. *Pl.*, *fig.* 6.

1865. " Urwelt der Schweiz, 83.

1872. " Monde prim. Suisse, 101.

1876. " Prim. world Switz., i: 83.

1877. Goldenberg. Fauna saræp. foss., ii: 20 (*angusta*).

1879. Heer. Urwelt der Schweiz, 2^e anl., 93.

See also *Mesoblattina angustata*, *Blattina* (*Mesoblattina*) *angustata*.

670. Blattina (Mesoblattina) angustata. (Blattariae.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 519-520.

See also *Blattina angustata*, etc.

671. Blattina chrysea. (Blattariae.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 520. *Pl.* 22, *fig.* 2.

1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 570, 571.

See also *Pterinoblattina chrysea*.

672. Blattina (Mesoblattina) dobbertinensis. (Blattariae.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 570. *Pl.* 13, *fig.* 1.

See also *Mesoblattina dobbertinensis*.

673. Blattina formosa. (Blattariæ.)Compared with *Blatta orientalis* L.

Locality: Schambelen, Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 15. *Pl.*, figs. 41-42.
 1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 362. *Pl.* 40, fig. 6.
 1856. Giebel. *Insect. d. vorwelt*, 498.
 1864. Heer. *Viert. naturf. gesellsch. Zürich*, ix: 288, 299.
 1865. " *Urwelt der Schweiz*, 83. *Pl.* 7, figs. 1, 1b.
 1872. " *Monde prim. Suisse*, 101. *Pl.* 7, figs. 1, 1b.
 1876. " *Prim. world Switz.*, i: 83. *Pl.* 7, figs. 1, 1b.
 1877. Goldenberg. *Fauna sarap. foss.*, ii: 20.
 1879. Heer. *Urwelt der Schweiz*, 2^e aufl., 93. *Pl.* 7, figs. 1, 1b.

See also *Rithma formosa*.**674. Blattina incerta.** (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. *Zeitschr. deutsch. geol. gesellsch.*, 1884: 571, 572. *Pl.* 13, fig. 2.
 1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 483.
 1890. " *Foss. ins. N. A.*, i: 375.

675. Blattina incompleta. (Blattariæ.)

Locality: England. Horizon: Lias.

1845. Brodie. *Foss. ins. sec. rocks Engl.* (unnamed). *Pl.* 8, fig. 13.
 1856. Giebel. *Insect. d. vorwelt*, 317.

See also *Aporoblattina incompleta*, *Blattidium incompletum*.**676. Blattina langfeldti.** (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. *Zeitschr. deutsch. geol. gesellsch.*, 1880: 521. *Pl.* 22, fig. 3.
 1884. " *Zeitschr. deutsch. geol. gesellsch.*, 1884: 571.

See also *Ctenoblattina langfeldti*.**677. Blattina liasina.** (Blattariæ.)

Locality: Wainlode, Strensham, England. Horizon: Lias.

1845. Brodie. *Foss. ins. sec. rocks Engl.*, 101; Westwood, 125 (unnamed).
Pl. 8, fig. 12.
 1856. Giebel. *Insect. d. vorwelt*, 317.

See also *Blattidium liasinum*, *Rithma liasina*.**678. Blattina mathildæ.** (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Jura.

1883. E. Geinitz. *Flötzform. Mecklenb.*, 29-30. *Pl.* 6, fig. 1.
 1884. " *Zeitschr. deutsch. geol. gesellsch.*, 1884: 571.

See also *Mesoblattina mathildæ*.**679. Blattina media.** (Blattariæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. *Urwelt der Schweiz*, 83.
 1872. " *Monde prim. Suisse*, 101.
 1876. " *Prim. world Switz.*, i: 83.
 1879. " *Urwelt der Schweiz*, 2^e aufl., 93.

680. Blattina nana. (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Jura.

1883. E. Geinitz. Flötzform. Mecklenb., 30. Pl. 6, fig. 2.

1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 571.

See also *Aporoblattina nana*.**681. Blattina (Mesoblattina) protypa.** (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 519-520. Pl. 22, fig. 1.

1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 569-570.

See also *Mesoblattina protypa*.**682. Blattina recta.** (Blattariæ.)

Locality: England. Horizon: Wealden.

1856. Giebel. Insect. d. vorwelt, 318.

See also *Blattidium* — Brodie, *Aporoblattina recta*.**683. Blattina (Mesoblattina?) sibirica.** (Blattariæ.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Red- } Mém. acad. sc. St.-Péters., (7). xxxvi, No. 15: 12-13. Pl. [2],
{tenb.-Ganglb.} fig. 15.**684. Blattina similis.** (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1854. Brodie. Foss. ins. sec. rocks Engl., 119 (unnamed). Pl. 5, fig. 2.

1856. Giebel. Insect. d. vorwelt, 318.

See also *Blattidium* — Goldenb., *Blattidium similis*, *Nannoblattina similis*; also II, NEUROPT., *Corydalis* — Brodie.**685. Chresmoda obscura.** (Acridii.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.

1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 201-203. Pl. 22, fig. 4.

1852. Giebel. Dentschl. petref., 637.

1856. " Insect. d. vorwelt, 311.

1862. Hagen. Palaeontogr., x: 110 (= *Locusta prisca*.)

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234 [134].

1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 10-14. Pl. 1, figs. 7-12.

See also *Pygolampis gigantea*, *Halometra gigantea*, *Propygolampis bronni*, *Locusta prisca*.**Clathrotermes geinitzi.** See *Elcana (Clathrotermes) geinitzi*.**686. Clathrotermes (Elcana) geinitzi.** (Locustariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 577-580. Pl. 13, figs. 13-23.

See also *Elcana geinitzi*, *E. (Clathrotermes) geinitzi*, *E. (Clathrotermes) intercalata*, *E. tessellata*, *Bittacus dubius*, *Panorpidium tessellatum*.**Clathrotermes intercalata.** See *Elcana (Clathrotermes) intercalata*.

Bull. 71—8

687. Conocephalus capito. (Locustariæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 24-26. *Pl. 2, fig. 12.***688. Ctenoblattina arcta.** (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 443. *Pl. 46, figs. 1, 2.*1890. " *Foss. ins. N. A.*, i: 335. *Pl. 20, figs. 1, 2.***689. Ctenoblattina langfeldti.** (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 443.1890. " *Foss. ins. N. A.*, i: 335.See also *Blattina langfeldti*.**690. Ctenoblattina? pinna.** (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 444.1890. " *Foss. ins. N. A.*, i: 336.See also *Blatta pinna*, *Blattidium pinna*.**691. Cyrtophyllites rogeri.** (Locustariæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. *Palaeontogr.*, xxxiv: 223. *Pl. 30, fig. 5.***692. Decticus speciosus.** (Locustariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1852. Giebel. *Deutschl. petref.*, 637.1856. " *Insect. d. vorwelt.*, 304.See also *Locusta speciosa*, etc.**693. Diechoblattina ungeri.** (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 477.1890. " *Foss. ins. N. A.*, i: 369.See also *Blatta ungeri*, etc.**694. Diechoblattina wallacei.** (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 477-478. *Pl. 48, fig. 1.*1890. " *Foss. ins. N. A.*, i: 369-370. *Pl. 22, fig. 1.***695. Dipluroblattina bailyi.** (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 476-477. *Pl. 48, fig. 5.*1890. " *Foss. ins. N. A.*, i: 368-369. *Pl. 22, fig. 5.***696. Elcana amanda.** (Locustariæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 14. *Pl. 2, figs. 4-5.*See also *Locusta amanda*, *Elcana (Locusta) amanda*.

697. *Elcana (Locusta) amanda.* (Locustariæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. *Palaeontogr.*, xxxiv: 224. *Pl.* 30, *fig.* 17.

See also *Elcana amanda*, *Locusta amanda*.

Elcana beyrichi. See II, NEUROPTERA, *Idem.*

698. *Elcana geinitzi.* (Locustariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 17. *Pl.* 2, *fig.* 7.

See also *Clathrotermes (Elcana) geinitzi*, etc.

699. *Elcana (Clathrotermes) geinitzi.* (Locustariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. Heer. Geinitz, *Zeitschr. deutsch. geol. gesellsch.*, 1880: 523-526. *Pl.* 22, *figs.* 7-10.

See also *Clathrotermes (Elcana) geinitzi*, etc.

700. *Elcana (Clathrotermes) intercalata.* (Locustariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. Geinitz. *Zeitschr. deutsch. geol. gesellsch.*, 1880: 526. *Pl.* 22, *fig.* 11.

See also *Clathrotermes (Elcana) geinitzi*, etc.

Elcana sipylus. See *Sialium sipylus*.

701. *Elcana tessellata.* (Locustariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1856. Giebel. *Insect. d. vorwelt*, 259 (Westwood, *Pl.* 15, *fig.* 17, not *Pl.* 17, *fig.* 12).

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 16. *Pl.* 2, *fig.* 6.

See also *Clathrotermes (Elcana) geinitzi*, etc.

702. *Elisama bucktoni.* (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 466-467. *Pl.* 47, *figs.* 8, 12.

1890. " *Foss. ins. N. A.*, i: 358-359. *Pl.* 21, *figs.* 8, 12.

703. *Elisama kirkbyi.* (Blattariæ.)

Locality: England. Horizon: Mesozoic.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 467-468. *Pl.* 47, *fig.* 3.

1890. " *Foss. ins. N. A.*, i: 359-360. *Pl.* 21, *fig.* 3.

704. *Elisama kneri.* (Blattariæ.)

Locality: England. Horizon: Wealden.

1845. Brodie. *Foss. ins. sec. rocks Engl.*, 118 (unnamed). *Pl.* 5, *fig.* 1.

1856. Giebel. *Insect. d. vorwelt*, 320.

1885. Scudder. *Proc. acad. nat. sc. Philad.*, 1885: 113.

1886. " *Mem. Bost. soc. nat. hist.*, iii: 465-466. *Pl.* 47, *fig.* 1.

1890. " *Foss. ins. N. A.*, i: 357-358. *Pl.* 21, *fig.* 1.

See also *Blattidium kneri*.

705. *Elisama? media.* (Blattariæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 468.
 1890. " Foss. ins. N. A., i: 360.

See also *Blattidium medium*.**706. *Elisama minor.* (Blattariæ.)**

Locality: England. Horizon: Wealden.

1845. Brodie. Foss. ins. sec. rocks Engl., 118 (unnamed). *Pl. 5, fig. 20.*
 1856. Giebel. Insect. d. vorwelt, 320.
 1877. Goldenberg. Fauna sarap. foss., ii: 21.
 1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 113.
 1886. " Mem. Bost. soc. nat. hist., iii: 466. *Pl. 47, fig. 13.*
 1890. " Foss. ins. N. A., i: 358. *Pl. 21, fig. 13.*

See also *Blattidium minor*.**707. *Elisama molossus.* (Blattariæ.)**

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 464-465.
 1890. " Foss. ins. N. A., i: 356-357.

See also *Blattidium molossus*, *Nethania molossus*.**708. *Elisama? ramificata.* (Blattariæ.)**

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 483.
 1890. " Foss. ins. N. A., i: 375.

See also *Rithma ramificata*, *Blattidium ramificatum*.**709. *Etoblattina* ———. (Palæoblattariæ.)**

Locality: Fairplay, Colo. Horizon: Trias.

1883. Scudder. Proc. Bost. soc. nat. hist., xxii: 59.
 1884. " Amer. Journ. sc., (3), xxviii: 200.
 1890. " Mem. Bost. soc. nat. hist., iv: 460. *Pl. 42, fig. 20.*
 1890. " Foss. ins. N. A., i: 436. *Pl. 34, fig. 20.*

See also *E. persistens*.**710. *Etoblattina persistens.* (Palæoblattariæ.)**

Locality, Fairplay, Colo. Horizon: Trias.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 459-460. *Pl. 41, fig. 7; pl. 42, figs. 10, 19.*
 1890. " Foss. ins. N. A., i: 435-436. *Pl. 33, fig. 7; pl. 34, figs. 10, 19.*

See also *Etoblattina* ———.**711. *Forficularia problematica.* (Forficulariæ.)**

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 274-275. *Pl. 36, figs. 25, 26, 26a.*
 1869. " Ins. foss. calc. lithogr., 28-29. *Pl. 3, figs. 25, 26, 26a.*
 1869. " Tijdschr. v. ent., (2), iv: 234 [134].
 1874. " Periód. zool., i: 97.
 1874. " Enum. syst. faune ent. mésoz., 11.

712. Gomphocerites bernstorffi. (Acridii.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 521-522. *Pl. 22, fig. 4.*
 1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 572.

713. Gomphocerites bucklandi. (Acridii.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 15. *Pl., fig. 43.*
 1854. Pietet. *Traité paléont., 2^e éd., ii: 365. Pl. 40, fig. 5.*
 1856. Giebel. *Insect. d. vorwelt., 498.*
 1865. Heer. *Urwelt der Schweiz, 84, 95. Pl. 7, figs. 2-3.*
 1872. " *Monde prim. Suisse, 102, 116. Pl. 7, figs. 2, 3.*
 1876. " *Prim. world Switz., i: 84, 94. Pl. 7, figs. 2, 3.*
 1879. " *Urwelt der Schweiz, 2^e anfl., 94, 105. Pl. 7, figs. 2, 3.*
 See also *Gryllus bucklandi*, etc.

714. Gryllacris propinqua. (Locustariæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus., 26. Pl. 2, figs. 9, 10.*

715. Gryllacris schlieffeni. (Locustariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. *Zeitschr. deutsch. geol. gesellsch., 1884: 580-581. Pl. 13, fig. 24.*

716. Gryllidium oweni. (Acridii?)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond., x: 387, 395. Pl. 17, fig. 19.*
 1856. Giebel. *Insect. d. vorwelt., 301.*
 1886. Deichmüller. *Ins. lith. schichten dresd. mus., 13 (near Chresmoda).*

717. Gryllites? dubius. (Gryllides.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1842. Germar. *Münst., Beitr. z. petref., v: 82-83. Pl. 9, fig. 3; pl. 13, fig. 8.*
 1852. Giebel. *Deutschl. petref., 638.*
 1862. Hagen. *Palaeontogr., x: 111 (not a Gryllus).*
 1869. Weyenbergh. *Arch. mus. Teyl., ii: 275 (a Blatta ♀).*
 1869. " *Ins. foss. calc. lithogr., 29 (a Blatta ♀).*
 1869. " *Tijdschr. v. ent., (2), iv: 234 [134].*
 1874. " *Periód. zool., i: 98.*
 1874. " *Énum. syst. faune ent. mésoz., 12.*
 1877. Assmann. *Ber. versamml. deutsch. naturf., 1: 192 (a Cicada).*

718. Gryllus ———. (Locustariæ.)

Locality: Aust, England. Horizon: Rhætic.

1873. Brodie. *Distr. corr. foss. ins., 17.*

719. Gryllus ———. (Locustariæ.)

Locality: Aust, England. Horizon: Lower Lias.

1845. Westwood. *Brodie, Foss. ms. sec. rocks Engl., 125. Pl. 9, fig. 14.*
 1856. Giebel. *Insect. d. vorwelt., 309.*

720. *Gryllus bucklandi*. (Acridii.)

Locality: Grafton, Warwickshire, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 76, 96, 101. *Pl.* 7, *fig.* 16.

1871. Phillips. Geology of Oxford, 123.

See also *Gomphocerites bucklandi*, (Edipoda *bucklandi*).

721. *Gryllus dobbertinensis*. (Gryllides?)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 523. *Pl.* 22, *fig.* 6.

1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 572.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 770.

1886. " Zittel-Barrois, Traité de paléont., ii: 770.

1885. " Bull. U. S. geol. surv., No. 31: 50.

722. *Gryllus gryllotalpa* (recent). (Gryllides.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1783. Esper. De anim. ovip., 18-19.

1784. Schröter. Neue litt. n. beytr., i: 411 (unnamed).

723. *Gryllus sedgwicki*. (Gryllides.)

Locality: England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 300-301.

See also *Acheta sedgwicki*.

724. *Halometra gigantea*. (Acridii.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 230-233. *Pl.* 31, *fig.* 18.

See also *Chresmoda obscura*, etc.

725. *Halometra?* minor. (Acridii.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 233. *Pl.* 31, *fig.* 4.

726. *Humbertiella grandis*. (Mantides.)

Compared with *H. ceylonica* Sauss.

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Braner-Red- } Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 13. *Pl.* [2], *fig.* 16.
{tenb.-Ganglb.}

727. *Ledrophora girardi*. (Blattariæ.)

Locality: Trebitz, Saxony. Horizon: Buntensandstein.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix. *Pl.*, *fig.* 5.

1879. Scudder. Mem. Bost. soc. nat. hist., iii: 19.

1880. " Arch. sc. phys. nat., (3), iii: 367.

1890. " Foss. ins. N. A., i: 39.

See also *Legnophora girardi*.

728. *Legnophora girardi*. (Blattariæ.)

Locality: Trebitz, Saxony. Horizon: Buntensandstein.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 288, 297-299 (on pl. *Ledrophora*). *Pl.*, *fig.* 5.

1872. Heer. Monde prim. Suisse, 99.
 1877. Goldenberg. Fauna sarap. foss., ii : 20 (Lognophora).
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii : 766.
 1886. " Zittel-Barrois, Traité de paléont., ii : 766.
 1886. " Bull. U. S. geol. surv., No. 31 : 47.

See also *Ledrophora girardi*.

729. *Locusta* ? ———. (Loenstarie.)

Locality: Strensham, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

730. *Locusta* ———. (Loenstarie.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1834. Keferstein. Naturf. erdkörp., ii : 332 (teste Münster).

731. *Locusta* ? *amanda*. (Locustarie.)

Locality: Solenhofen or Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x : 144-145. Pl. 15, fig. 4.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv : 234 (134).
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii : 769. Fig. 968.
 1886. " Zittel-Barrois, Traité de paléont., ii : 769. Fig. 985.

See also *Elcana amanda*, *Elcana (Locusta) amanda*: also II, DIPTERA, *Asilicus lithophilus*.

732. *Locusta prisca*. (Loenstarie.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.
 1839. Germar. Verhandl. leop.-carol. akad. naturf., xix : 200-201. Pl. 21, fig. 3.
 1856. Giebel. Insect. d. vorwelt, 303.
 1862. Hagen. Palaeontogr., x : 110.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv : 234 [134].
 1877. Assmann. Ber. versamml. deutsch. naturf., 1 : 192.

See also *Chresmoda obscura*, etc.

733. *Locusta speciosa*. (Loenstarie.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.
 1839. Germar. Verhandl. leop.-carol. akad. naturf., xix : 198-200. Pl. 21, figs. 1-2.
 1852. Giebel. Deutschl. petref., 637.
 1862. Hagen. Palaeontogr., x : 110.
 1863. Winkler. Cat. syst. coll. pal. mus. Teyl., 425.
 1869. Weyenbergh. Arch. mus. Teyl., ii : 276-277. Pl. 36, figs. 30-31.
 1869. " Ins. foss. calc. lithogr., 30-31. Pl. 3, figs. 30-31.
 1869. " Tijdschr. v. ent., (2), iv : 234 [134].
 1874. " Periód. zool., i : 98.
 1874. " Énum. syst. faune ent. mésoz., 12.
 1877. Assmann. Ber. versamml. deutsch. naturf., 1 : 192.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii : 769. Fig. 967.
 1886. " Zittel-Barrois, Traité de paléont., ii : 769. Fig. 984.
 1886. " Bull. U. S. geol. surv., No. 31 : 50.

See also *Decticus speciosus*, *Pycnophlebia speciosa* *Pycnophlebia (Loensta) speciosa*; cf. also III, ORTHOPT., *Decticus speciosus*.

Lognophora girardi. See *Legnophora girardi*.

734. Mesoblattina ——. (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 453. *Pl. 46, fig. 3.*
 1890. " Foss. ins. N. A., i: 345. *Pl. 20, fig. 3.*

735. Mesoblattina ——. (Blattariæ.)

Locality: England. Horizon: Jura.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 453. *Pl. 46, fig. 13.*
 1890. " Foss. ins. N. A., i: 345. *Pl. 20, fig. 13.*

736. Mesoblattina angustata. (Blattariæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 114.
 1885. " Zittel, Handb. palaeont., i, th. ii: 767. *Fig. 963.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 767. *Fig. 979.*
 1886. " Mem. Bost. soc. nat. hist., iii: 462.
 1890. " Foss. ins. N. A., i: 354.
 See also *Blattina angustata*, etc.

737. Mesoblattina antiqua. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 115.
 1886. " Mem. Bost. soc. nat. hist., iii: 463.
 1890. " Foss. ins. N. A., i: 355.

See also *Rithma antiqua*, etc.**738. Mesoblattina bensoni.** (Blattariæ.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 453-454. *Pl. 46, fig. 17.*
 1890. " Foss. ins. N. A., i: 345-346. *Pl. 20, fig. 17.*

739. Mesoblattina blakei. (Blattariæ.)

Locality: Alderton, England. Horizon: Upper Lias.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 452. *Pl. 46, fig. 12.*
 1890. " Foss. ins. N. A., i: 344-345. *Pl. 20, fig. 12.*

740. Mesoblattina brodiei. (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 459-460. *Pl. 47, fig. 7.*
 1886. " Miall, Cockroach, 216. *Fig. 123.*
 1890. " Foss. ins. N. A., i: 351-352. *Pl. 21, fig. 7.*

741. Mesoblattina bucklandi. (Blattariæ.)

Locality: England. Horizon: Purbecks?

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 457-458. *Pl. 47, fig. 2.*
 1890. " Foss. ins. N. A., i: 349-350. *Pl. 21, fig. 2.*

742. Mesoblattina dobbertinensis. (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 115.
 1886. " Mem. Bost. soc. nat. hist., iii: 455.
 1890. " Foss. ins. N. A., i: 347.

See also *Blattina (Mesoblattina) dobbertinensis*.

743. Mesoblattina elongata. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 115.

1886. " Mem. Bost. soc. nat. hist., iii: 458.

1890. " Foss. ins. N. A., i: 350.

See also *Blattidium elongatum*, etc.

744. Mesoblattina geikiei. (Blattariæ.)

Locality: Brown's Wood, Moreton Bagot, England. Horizon: Lias.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 454-455. *Pl. 46, fig. 9.*

1890. " Foss. ins. N. A., i: 346-347. *Pl. 20, fig. 9.*

745. Mesoblattina higginsii. (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 455-456. *Pl. 47, fig. 14.*

1890. " Foss. ins. N. A., i: 347-348. *Pl. 21, fig. 14.*

746. Mesoblattina hopei. (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 461. *Pl. 47, fig. 11.*

1890. " Foss. ins. N. A., i: 353. *Pl. 21, fig. 11.*

747. Mesoblattina lithophila. (Blattariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 464.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 6-9. *Pl. 1, figs. 1-6.*

1888. Oppenheim. Palaeontogr., xxxiv: 221. *Pl. 30, figs. 6, 8.*

1890. Scudder. Foss. ins. N. A., i: 356.

See also *Musca lithophila*, etc.

748. Mesoblattina mantelli. (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 460-461. *Pl. 47, fig. 9.*

1890. " Foss. ins. N. A., i: 352-353. *Pl. 21, fig. 9.*

749. Mesoblattina mathildæ. (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Jura.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 462-463.

1890. " Foss. ins. N. A., i: 354-355.

See also *Blattina mathildæ*.

750. Mesoblattina murchisoni. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 113, 115.

1886. " Mem. Bost. soc. nat. hist., iii: 456-457. *Pl. 47, fig. 5.*

1890. " Foss. ins. N. A., i: 348-349. *Pl. 21, fig. 5.*

See also *Rithna murchisoni*, etc.

751. Mesoblattina murrayi. (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 458-459. *Pl. 47, fig. 4.*

1890. " Foss. ins. N. A., i: 350-351. *Pl. 21, fig. 4.*

752. Mesoblattina peachii. (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 461-462. *Pl. 47, fig. 10.*
 1890. " Foss. ins. N. A., i: 353-354. *Pl. 21, fig. 10.*

753. Mesoblattina protypa. (Blattariæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 114.
 1886. " Mem. Bost. soc. nat. hist., iii: 458.
 1890. " Foss. ins. N. A., i: 350.

See also *Blattina* (*Mesoblattina*) *protypa*.*Mesoblattina sibirica.* See *Blattina* (*Mesoblattina*) *sibirica*.**754. Mesoblattina swintoni.** (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 454. *Pl. 46, fig. 10.*
 1890. " Foss. ins. N. A., i: 346. *Pl. 20, fig. 10.*

755. Musca lithophila. (Blattariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 222. *Pl. 23, fig. 19.*
 1852. Giebel. Deutschl. petref., 643.
 1856. " Insect. d. vorwelt, 198.
 1862. Hagen. Palaeontogr., x: 111 (indeterminable).
 1863. Winkler. Cat. syst. coll. pal. mus. Teyl., 422.
 1869. Weyenbergh. Arch. mus. Teyl., ii: 256-257. *Pl. 34, fig. 2.*
 1869. " Ins. foss. calc. lithogr., 10-11. *Pl. 1, fig. 2.*
 1869. " Tijdschr. v. ent., (2), iv: 237.
 1874. " Periód. zool., i: 90.
 1874. " Énum. syst. fauna ent. mésoz., 4.
 1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192 (= *Blattidium beroldingianum*).
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 806.
 1886. " Zittel-Barrois, Traité de paléont., ii: 806.
 1886. " Bull. U. S. geol. surv., No. 31: 86.

See also *Blattidium beroldingianum*, *Mesoblattina lithophila*, *Blabera avita*, *Blattidium avitum*.**756. Nannoblattina prestwichii.** (Blattariæ.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 475. *Pl. 48, fig. 3.*
 1890. " Foss. ins. N. A., i: 367. *Pl. 22, fig. 3.*

757. Nannoblattina similis. (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 475.
 1890. " Foss. ins. N. A., i: 367.

See also *Blattina similis*, etc.**758. Nannoblattina woodwardi.** (Blattariæ.)

Locality: Wiltshire, England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 476. *Pl. 48, fig. 6.*
 1890. " Foss. ins. N. A., i: 368. *Pl. 22, fig. 6.*

759. Neorthroblattina albolineata. (Blattariae.)

Locality : Fairplay, Colo. Horizon : Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885 : 109.
 1886. " Mem. Bost. soc. nat. hist., iii : 444.
 1890. " Mem. Bost. soc. nat. hist., iv : 467. *Pl. 42, figs. 2, 18.*
 1890. " Foss. ins. N. A., i : 336, 443. *Pl. 34, figs. 2, 18.*

760. Neorthroblattina attenuata. (Blattariae.)

Locality : Fairplay, Colo. Horizon : Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885 : 110.
 1886. " Mem. Bost. soc. nat. hist., iii : 444.
 1890. " Mem. Bost. soc. nat. hist., iv : 467, 468-469. *Pl. 42, fig. 1.*
 1890. " Foss. ins. N. A., i : 336, 443, 444-445. *Pl. 34, fig. 1.*

761. Neorthroblattina lakesii. (Blattariae.)

Locality : Fairplay, Colo. Horizon : Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885 : 109.
 1886. " Mem. Bost. soc. nat. hist., iii : 444.
 1886. " Miall, Cockroach, 214. *Fig. 122.*
 1890. " Mem. Bost. soc. nat. hist., iv : 467, 468. *Pl. 42, figs. 9, 15.*
 1890. " Foss. ins. N. A., i : 336, 443, 444. *Pl. 34, figs. 9, 15.*

762. Neorthroblattina rotundata. (Blattariae.)

Locality : Fairplay, Colo. Horizon : Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885 : 109-110.
 1885. " Zittel, Handb., palaeont., i, ii : 766. *Fig. 960.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii : 766. *Fig. 976.*
 1886. " Mem. Bost. soc. nat. hist., iii : 444.
 1890. Lesley. Dict. foss. Penns., ii : 449. *Fig.*
 1890. Scudder. Mem. Bost. soc. nat. hist., iv : 467, 468. *Pl. 42, figs. 7, 8.*
 1890. " Foss. ins. N. A., i : 336, 443, 444. *Pl. 34, figs. 7, 8.*

763. Nethania molossus. (Blattariae.)

Locality : Durdlestone Bay, England. Horizon : Middle Purbecks.

1856. Giebel. Insect. d. vorwelt, 321.
 See also *Blattidium molossus*, *Elisama molossus*.

764. Œdipoda bucklandi. (Acridii.)

Locality : Grafton, England. Horizon : Lower Lias.

1856. Giebel. Insect. d. vorwelt, 309.
 See also *Gryllus bucklandi*, etc.

765. Panorpidium ———. (Locustariae.)

Locality : Dobbertin, Mecklenburg. Horizon : Jura

1883. E. Geinitz. Flötzform. Mecklenb., 31 (undeser.).

766. Panorpidium tessellatum.

Locality : Durdlestone Bay, England. Horizon : Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x : 354, 394. *Pl. 15, fig. 17.*
 See also *Clathrotermes (Elcana) geinitzi*, etc.; also II, NEUROPT., *Panorpidium tessellatum* var.

767. Parapleurites gracilis. (Acridii.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Red- } Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 13. *Pl.* [2], *fig.* 17.
 {tenb.-Ganglb.}

768. Periplaneta maculata. (Blattariæ.)Compared with *P. australasie*, etc.

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Red- } Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 12. *Pl.* [2], *fig.* 14.
 {tenb.-Ganglb.}

769. Petrablattina æqua. (Palæoblattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 38.
 1890. Lesley. Dict. foss. Penns., ii: 626.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 465. *Pl.* 42, *fig.* 13.
 1890. " Foss. ins. N. A., i: 441. *Pl.* 34, *fig.* 13.

770. Petrablattina meieri. (Palæoblattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 38.
 1890. Lesley. Dict. foss. Penns., ii: 627.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 465. *Pl.* 42, *fig.* 17.
 1890. " Foss. ins. N. A., i: 441. *Pl.* 34, *fig.* 17.

771. Phaneroptera germari. (Locustariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1842. Münster. MSS.
 1842. Germar. Münster, Beitr. z. petref., v: 81-82. *Pl.* 9, *fig.* 2; *Pl.* 13, *fig.* 7.
 1852. Giebel. Deutschl. petref., 637.
 1854. Pictet. Traité paléont., 2^e éd., ii: 366. *Pl.* 40, *fig.* 10.
 1856. Giebel. Insect. d. vorwelt, 303.
 1862. Hagen. Palaeontogr., x: 111.
 1869. Weyenbergh. Arch. mus. Teyl., ii: 275.
 1869. " Ins. foss. calc. lithogr., 29.
 1869. " Tijdschr. v. ent., (2), 4: 234 [134].
 1874. " Periód. zool., i: 98.
 1874. " Énum. syst. faune ent. mésoz., 12.
 1877. Assmann. Ber. versamm. deutsch. naturf., 1: 192.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 768.
 1886. " Zittel-Barrois, Traité de paléont., ii: 769.
 1886. Deichm. Ins. lith. schichten dresd. mus., 19-20. *Pl.* 2, *fig.* 11.

772. Phaneroptera striata. (Locustariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 275-276. *Pl.* 36, *fig.* 28.
 1869. " Ins. foss. calc. lithogr., 29-30. *Pl.* 3, *fig.* 28.
 1869. " Tijdschr. v. ent., (2), iv: 234 [134].
 1874. " Periód. zool., i: 98.
 1874. " Énum. syst. faune ent. mésoz., 12.

773. *Poroblattina arcuata*. (Palæoblattariae.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 39.
 1890. Lesley. Dict. foss. Penns., ii: 737.
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 466. *Pl. 41, fig. 5.*
 1890. " Foss. ins. N. A., i: 442. *Pl. 33, fig. 5.*

774. *Poroblattina lakesii*. (Palæoblattariae.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 39.
 1885. " Zittel, Handb. palæont., i, ii: 755. *Fig. 936.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 755. *Fig. 952.*
 1890. Lesley. Dict. foss. Penns., ii: 737. *Fig.*
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 466. *Pl. 41, fig. 11.*
 1890. " Foss. ins. N. A., i: 442. *Pl. 33, fig. 11.*

775. *Propygodlampis bronni*. (Acridii.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. *Period. zool.*, i: 84-85, 90. *Pl. 3, fig. 3.*
 1874. " *Enum. syst. faune ent. mésoz.*, 13.

See also *Chresmoda obscura*, etc.**776. *Pterinoblattina binneyi*. (Blattariae.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 390, 396 (no name). *Pl. 18, fig. 42.*
 1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 473.
 1890. " *Foss. ins. N. A.*, i: 365.

777. *Pterinoblattina chrysea*. (Blattariae.)

Locality: Dobbertin, Germany. Horizon: Lias.

1885. Scudder. *Proc. acad. nat. sc. Philad.*, 1885: 106-107.
 1886. " *Mem. Bost. soc. nat. hist.*, iii: 470-471.
 1890. " *Foss. ins. N. A.*, i: 362-363.

See also *Blattina chrysea*.**778. *Pterinoblattina curtisii*. (Blattariae.)**

Locality: Alderton, England. Horizon: Upper Lias.

1886. Scudder. *Mem. Bost. soc. nat. hist.*, iii: 471. *Pl. 48, fig. 16.*
 1890. " *Foss. ins. N. A.*, i: 363. *Pl. 22, fig. 16.*

779. *Pterinoblattina gigas*. (Blattariae.)

Locality: Solenhofen, Bavaria. Horizon: Oolite.

1885. Scudder. *Proc. acad. nat. sc. Philad.*, 1885: 108.
 1886. " *Mem. Bost. soc. nat. hist.*, iii: 472.
 1888. Oppenheim. *Palaeontogr.*, xxxiv: 222.
 1890. Scudder. *Foss. ins. N. A.*, i: 364.

See also *Ricania gigas*.

780. Pterinoblattina hospes. (Blattariæ.)

Locality: Solenhofen. Bavaria. Horizon: Oolite.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 108.
 1886. " Mem. Bost. soc. nat. hist., iii: 472.
 1888. Oppenheim. Palaeontogr., xxxiv: 221-222. Pl. 31, fig. 29.
 1890. Scudder. Foss. ins. N. A., i: 364.

See also *Ricania hospes*.**781. Pterinoblattina intermixta.** (Blattariæ.)

Locality: Alderton, Gloucestershire, England. Horizon: Upper Lias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 107-108.
 1886. " Mem. Bost. soc. nat. hist., iii: 471-472. Pl. 48, fig. 9.
 1886. " Miall, Cockroach, 218. Fig. 125.
 1890. " Foss. ins. N. A., i: 363-364. Pl. 22, fig. 9.

782. Pterinoblattina penna. (Blattariæ.)

Locality: England. Horizon: Purbecks.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 106.
 1886. " Mem. Bost. soc. nat. hist., iii: 470. Pl. 48, fig. 14.
 1890. " Foss. ins. N. A., i: 362. Pl. 22, fig. 14.

783. Pterinoblattina pluma. (Blattariæ.)

Locality: Dorset, England. Horizon: Purbecks.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 105-106.
 1885. " Zittel, Handb. palaeont., i, th. ii: 755. Fig. 935.
 1886. " Zittel-Barrois, Traité de paléont., ii: 767. Fig. 980.
 1886. " Mem. Bost. soc. nat. hist., iii: 469-470. Pl. 48, figs. 7, 8c.
 1890. " Foss. ins. N. A., i: 361-362. Pl. 22, figs. 7, 8c.

See also *Blatta pluma*, *Blattidium pluma*.**784. Pterinoblattina sipylus.** (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 472-473.
 1890. " Foss. ins. N. A., i: 364-365.

See also *Sialium sipylus*, *Abia sipylus*.**785. Pycnophlebia speciosa.** (Locustariæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schicht. dresd. mus., 20-24. Pl. 2, figs. 1, 2a, 3.

See also *Locusta speciosa*, etc.**786. Pycnophlebia (Locusta) speciosa.** (Locustariæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 223-224. Pl. 30, fig. 4.

See also *Locusta speciosa*, etc.**787. Pygolampis gigantea.** (Acridii.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MS.S.
 1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 207-208. Pl. 22, fig. 8.
 1852. Giebel. Deutsch. petref., 637.
 1856. " Insect. d. vorwelt, 364.

1862. Hagen. Palaeontogr., x: 111.
 1869. Weyenbergh. Arch. mus. Teyl., ii: 273. *Pl.* 35, *fig.* 21.
 1869. " Ins. foss. calc. lithogr., 27. *Pl.* 2, *fig.* 21.
 1869. " Tijdschr. v. ent., (2), iv: 233 [133].
 1874. " Periód. zool., i: 99.
 1874. " Énum. syst. faune ent. mésoz., 13.
 1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192 (= *Chresmoda obscura*).
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 783. *Fig.* 996.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 783. *Fig.* 1013.
 See also *Chresmoda obscura*, etc.

788. *Ricania gigas*. (Blattariae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 270-271. *Pl.* 35, *fig.* 23.
 1869. " Ins. foss. calc. lithogr., 24-25. *Pl.* 2, *fig.* 23.
 1869. " Tijdschr. v. ent., (2), iv: 234 [134].
 1874. " Periód. zool., i: 100.
 1874. " Énum. syst. faune ent. mésoz., 14.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 780.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 780.

See also *Pterinoblattina gigas*.

789. *Ricania hospes*. (Blattariae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 220-221. *Pl.* 23, *fig.* 18.
 1852. Giebel. Deutschl. petref., 636.
 1856. " Insect. d. vorwelt, 376.
 1862. Hagen. Palaeontogr., x: 111.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234 [134].
 1874. " Periód. zool., i: 100.
 1874. " Énum. syst. faune ent. mésoz., 14.
 1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192 (*Neuropt.*).
 1885. Scudder. Zittel, Handb. palaeont., i, ii: 780.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 780.

See also *Pterinoblattina hospes*.

790. *Rithma* ———. (Blattariae.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 450. *Pl.* 46, *fig.* 8.
 1890. " Foss. ins. N. A., i: 342. *Pl.* 20, *fig.* 8.

791. *Rithma antiqua*. (Blattariae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. geol. soc. Lond., x: 387, 395 (unnamed). *Pl.* 17, *fig.* 10.
 1856. Giebel. Insect. d. vorwelt, 319.
 1877. Goldenberg. Fauna sarap. foss., ii: 21.

See also *Blattidium antiquum*, *Mesoblattina antiqua*.

792. *Rithma daltoni*. (Blattariae.)

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 449. *Pl.* 46, *fig.* 16.
 1890. " Foss. ins. N. A., i: 341. *Pl.* 20, *fig.* 16.

793. *Rithma disjuncta.* (Blattariæ.)

Locality: Wiltshire, England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 446. *Pl.* 46, *fig.* 14.
 1890. " Foss. ins. N. A., i: 338. *Pl.* 20, *fig.* 14.

794. *Rithma formosa.* (Blattariæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 113, 114.
 1885. " Zittel, Handb. palaeont., i, th. ii: 767. *Fig.* 962.
 1886. " Zittel Barrois, Traité de paléont., ii: 767. *Fig.* 978.
 1886. " Mem. Bost. soc. nat. hist., iii: 447-448.
 1890. " Foss. ins. N. A., i: 339-340.

See also *Blattina formosa*.**795. *Rithma gossii.* (Blattariæ.)**

Locality: England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 445-446. *Pl.* 46, *fig.* 15.
 1890. " Foss. ins. N. A., i: 337-338. *Pl.* 20, *fig.* 15.

796. *Rithma liasina.* (Blattariæ.)

Locality: Wainlode, Strensham, England. Horizon: Lower Lias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 113, 114.
 1886. " Mem. Bost. soc. nat. hist., iii: 447. *Pl.* 46, *fig.* 7.
 1890. " Foss. ins. N. A., i: 339. *Pl.* 20, *fig.* 7.

See also *Blattina liasina*, etc.**797. *Rithma minima.* (Blattariæ.)**

Locality: Dorset, England. Horizon: Middle Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 450-451. *Pl.* 43, *figs.* 2, 8a, 8g, 11.
 1890. " Foss. ins. N. A., i: 342-343. *Pl.* 22, *figs.* 2, 8a, 8g, 11.

798. *Rithma morrisi.* (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396 (unnamed). *Pl.* 18,
fig. 34.
 1856. Giebel. Insect. d. vorwelt, 319.
 1877. Goldenberg. Fauna sarap. foss., ii: 21.
 1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 113, 114.
 1886. " Mem. Bost. soc. nat. hist., iii: 448.
 1890. " Foss. ins. N. A., i: 340.

See also *Blattidium morrisi*.**799. *Rithma murchisoni.* (Blattariæ.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396 (unnamed). *Pl.* 18,
fig. 43.
 1856. Giebel. Insect. d. vorwelt, 319.
 1877. Goldenberg. Fauna sarap. foss., ii: 21.

See also *Blattidium murchisoni*, *Mesoblattina murchisoni*.

800. *Rithma purbeccensis.* (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396 (unnamed). *Pl.* 18, *fig.* 32.
 1856. Giebel. Insect. d. vorwelt, 319.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.
 1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 113, 114.
 1886. " Mem. Bost. soc. nat. hist., iii: 448-449.
 1890. " Foss. ins. N. A., i: 340-341.

See also *Blattidium purbeccensis*.

801. *Rithma ramificata.* (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 394 (unnamed). *Pl.* 15, *fig.* 20.
 1856. Giebel. Insect. d. vorwelt, 319.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.
 1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 113.
 See also *Blattidium ramificatum*, *Elisama ramificata*.

802. *Rithma stricklandi.* (Blattariæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1886. Scudder. Mem. Bost. soc. nat. hist., iii: 445. *Pl.* 46, *figs.* 4, 5.
 1890. " Foss. ins. N. A., i: 337. *Pl.* 20, *figs.* 4, 5.

See also *Blatta stricklandi*, *Blattidium stricklandi*.

803. *Rithma westwoodi.* (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396 (unnamed). *Pl.* 18, *fig.* 22.
 1856. Giebel. Insect. d. vorwelt, 318-319.
 1877. Goldenberg. Fauna saræp. foss., ii: 21.
 1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 113.
 1886. " Mem. Bost. soc. nat. hist., iii: 449-450. *Pl.* 46, *figs.* 6?, 11.
 1890. " Foss. ins. N. A., i: 341-342. *Pl.* 20, *figs.* 6?, 11.

See also *Blattidium westwoodi*.

804. *Scutinoblattina brongniarti.* (Blattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 110-111.
 1886. " Mem. Bost. soc. nat. hist., iii: 478.
 1890. " Mem. Bost. soc. nat. hist., vi: 469. *Pl.* 42, *fig.* 5.
 1890. " Foss. ins. N. A., i: 370, 445. *Pl.* 34, *fig.* 5.

805. *Scutinoblattina intermedia.* (Blattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 111.
 1886. " Mem. Bost. soc. nat. hist., iii: 478.
 1890. " Mem. Bost. soc. nat. hist., iv: 469, 470. *Pl.* 42, *fig.* 4.
 1890. " Foss. ins. N. A., i: 370, 445, 446. *Pl.* 34, *fig.* 4.

806. Scutinoblattina recta. (Blattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 111.
 1886. " Mem. Bost. soc. nat. hist., iii: 478.
 1890. " Mem. Bost. soc. nat. hist., iv: 469, 470. *Pl. 42, figs. 3, 16.*
 1890. " Foss. ins. N. A., i: 370, 445, 446 *Pl. 34, figs. 3, 16.*

807. Sialium sipylus. (Blattariæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Proc. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 24.*
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 17 (cf. *Elcana*).
 See also *Abia sipylus*, *Pterinoblattina sipylus*.

808. Spiloblattina gardineri. (Palaoblattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 36.
 1885. " Zittel, Handb. palæont., i, th. ii: 751. *Fig. 933.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 754. *Fig. 950.*
 1889. Lesley. Dict. foss. Penns., i: 352. *Fig. on p. 351.*
 1890. Scudder. Mem. Bost. soc. nat. hist., iv: 461-462. *Pl. 41, figs. 4, 6, 8, 10.*
 1890. " Foss. ins. N. A., i: 437-438. *Pl. 33, figs. 4, 6, 8, 10.*

809. Spiloblattina guttata. (Palaoblattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 36-37.
 1890. " Mem. Bost. soc. nat. hist., iv: 461, 463. *Pl. 41, fig. 2; Pl. 42, fig. 14.*
 1890. " Foss. ins. N. A., i: 437, 439. *Pl. 33, fig. 2; Pl. 34, fig. 14.*

810. Spiloblattina marginata. (Palaoblattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 37.
 1890. " Mem. Bost. soc. nat. hist., iv: 461, 464. *Pl. 41, fig. 3.*
 1890. " Foss. ins. N. A., i: 437, 440. *Pl. 33, fig. 3.*

811. Spiloblattina triassica. (Palaoblattariæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1885. Scudder. Proc. acad. nat. sc. Philad., 1885: 36.
 1890. " Mem. Bost. soc. nat. hist., iv: 461, 462-463. *Pl. 41, fig. 1.*
 1890. " Foss. ins. N. A., i: 437, 438-439. *Pl. 33, fig. 1.*

NEUROPTERA.**812. ——— ———.**

Localities: Hastings, Govers, Cliff End, England. Horizon: Wealden.

1854. Binfield. Quart. Journ. geol. soc. Lond., x: 172, 173, 174.

813. ——— ———.

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 116, *Staphylinida?* or *Termes?*). *Pl. 2, fig. 2.*

See also *Philonthus kneri*, *Termes grandævus*, etc.

814. ———.

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 116, Staphylinidæ?).
Pl. 2, fig. 3.

See also *Prognatha crassa*, *Terues grandævus*, etc.

815. ———.

Locality: Copt Heath near Knowle, England. Horizon: Lower Lias.

1875. Brodie. Lower Lias Eatington, etc., 10.

816. ———.

Localities: Brown's Wood and Stoooper's Wood, near Henley in Arden, England.

Horizon: Lias.

1875. Brodie. Lower Lias Eatington, etc., 10.

817. ———. (abdomen).

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 531. Pl. 22, fig. 23.

818. ———.

Locality: Hmminster, England. Horizon: Upper Lias.

1879. Goss. Proc. geol. assoc., vi: 130.
1879. " Ins. fauna mesoz. per., ii: 17.

819. ———.

Compared with *Ephemera* and *Æschna*.

Locality: Banks of the Býrka, Siberia. Horizon: Jura.

1848. Müller. Middlend., Sib. reise, i, th. i: 261. Pl. 11, fig. 7.

See also *Ephemeroptis* ——— *Eichw.*, *E. orientalis*, *E. trisetalis*.

820. ———.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. Pl. 15, fig. 24.

821. ———.

Locality: Ridgway, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 385.

822. ———.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 265-266. Pl. 35, fig. 17.

1869. " Ins. foss. calc. lithogr., 19-20. Pl. 2, fig. 17.

1874. " Periód. zool., i: 95.

1874. " Énum. syst. faune ent. mésoz., 9.

823. ———. (*Leptoceridæ*.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33 (Westwood, 118). Pl. 2, fig. 6.

824. ————. (Odonata.)

Localities: Strensham, Brockeridge, Binton, Wilmcote, Grafton, Brown's Wood, Barrow on Soar, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 15.

825. ————. (Odonata.)

Locality: Strensham, England. Horizon: Lower Lias.

1874. Brodie. Distr. corr. foss. ins., 19.

826. ———— (male organ). (Odonata.)

Localities: Brown's Wood and Stoooper's Wood, near Henley in Arden, England. Horizon: Lias.

1874. Brodie. Distr. corr. foss. ins., 19.

1875. " Lower Lias Eatington, etc., 10.

827. ————. (Odonata.)

Locality: Pappenheim, Bavaria. Horizon: Jura.

1833. Parkinson. Organ. rem., 2d ed., iii: 265-266 (unnamed). *Pl. 17, fig. 2.*

Referred to *Æschna antiqua* by Gieb., *Deutschl. petref.*, 639.

See also *Æschna antiqua*, etc.

828. ————. (Odonata.)

Locality: Eyeford, England. Horizon: Stonesfield slate.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 381, 395. *Pl. 17, fig. 20.*

829. ———— (Middle portion of wing.) (Odonata.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 383.

—————. (Odonata.) See II, HEMIPT., ———— (Pentatomidæ) Westw.

830. ———— *aspasia*. (Odonata-Calopterygina.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. *Palaeontogr.*, x: 105 (undescribed).

See also *Anax buchi*, etc.

831. ———— *abscissa*. (Odonata-Libellulina.)

Locality: Bavaria. Horizon: Jura.

1868. Brauer. *Verhandl. zool.-bot. gesellsch. Wien*, xviii: 738.

See also (*Libellula*) *abscissa*.

832. ———— *antiqua*. (Odonata-Libellulina.)

Locality: Bavaria. Horizon: Jura.

1868. Brauer. *Verhandl. zool.-bot. gesellsch. Wien*, xviii: 738.

See also *Æschna antiqua*, etc.

833. ———— *brodiei*. (Odonata-Libellulina.)

Locality: England. Horizon: Upper Lias.

1868. Brauer. *Verhandl. zool.-bot. gesellsch. Wien*, xviii: 738.

See also *Libellula brodiei*, etc.

834. ——— **decapitata.** (Odonata-Libellulina.)

Locality: England. Horizon: Lias.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.
See also *Libellula decapitata*.**835.** ——— **densa.** (Odonata-Libellulina.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.
See also *Estemoa densa*, (*Libellula densa*, *Estemoa bubas*, etc.**836.** ——— **nævia.** (Odonata-Libellulina.)

Locality: Bavaria. Horizon: Jura.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.
See also (*Libellula*) *nævia*.**837.** ——— **valga.** (Odonata-Libellulina.)

Locality: Bavaria. Horizon: Jura.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.
See also (*Libellula*) *valga*.**838.** ——— ——— (Pauropidæ?)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 526-527. *Pl.* 22, *fig.* 12.**839.** ——— ———. (*Sialina*?)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl.* 18, *fig.* 35.**840.** ——— ———. (*Sialina*?)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl.* 18, *fig.* 37.**841.** ——— ———. (*Trichoptera*.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33 (Westwood, 118-119). *Pl.* 2, *fig.* 7.**842.** ——— ———. (*Trichoptera*.)

Locality: Grafton, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 15.

843. ——— ———. (*Trichoptera*.)Localities: Brown's Wood and Stoooper's Wood, near Henley in Arden, England.
Horizon: Lias.

1875. Brodie. Lower Lias Easington, etc., 10.

844. ——— ———. (Larva.) (*Trichoptera*.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 531. *Pl.* 22, *fig.* 24.

845. ———. (Trichoptera.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383-384, 394. *Pl. 15, fig. 14*⊙.
 1886. Scudder. Mem. Bost. soc. nat. hist., iii: 451. *Pl. 48, figs. 8b, 10.*
 1890. " Foss. ins. N. A., i: 343. *Pl. 22, figs. 8b, 10.*

846. ———. (Trichoptera.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383-384, 394. *Pl. 15, fig. 14**.
 1886. Scudder. Mem. Bost. soc. nat. hist., iii: 451. *Pl. 48, figs. 8d, 12.*
 1890. " Foss. ins. N. A., i: 343. *Pl. 22, figs. 8d, 12.*

847. ———. (Trichoptera.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 25.*

848. ———. (Trichoptera.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 28.*

849. *Abia duplicata.*

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 396 (unnamed). *Pl. 18, fig. 42.*
 1856. Giebel. Insect. d. vorwelt, 264.

Abia sipylus. See II, ORTHOPT., Idem.

850. *Æschna,* ———. (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1873. Brodie. Distr. corr. foss. ins., 15.

851. *Æschna* or *Libellula* ———. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Erichson. v. Buch, Abhandl. akad. wiss. Berl., 1837; phys. abhandl., 135.
Pl. 3.

See also *Anax buchii*, etc.

852. *Æschna,* ———. (Odonata.)

Locality: Bavaria. Horizon: Jura.

1826. Koehler. Zeitschr. f. min., 1826: 231-233. *Pl. 7, fig. 3.*
 See also *Uropetala koehleri*, etc.

853. *Æschna* (vic.) ———. (Odonata.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390.

854. *Æschna* ———. (Odonata.)

Locality: Eyeford, England. Horizon: Stonesfield Slate.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl. 17, fig. 20.*
 1856. Giebel. Insect. d. vorwelt, 281.

855. *Æschna antiqua.* (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1827. Linden. Nouv. mém. acad. sc. Brux., iv: 247-253. Pl. 1.
 1827. " Notice empr. ins., 1-9. Pl.
 1839. Brullé. Gisem. ins. foss., 12.
 1850. Hagen. Rev. odon. (Mém. soc. roy. sc. Liège, vi): 362.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 279.
 1862. Hagen. Palaeontogr., x: 136-137.

See also ——— *antiqua* (Odonata, Libellulina), ——— (Odonata) Parkinson, *Æschna münsteri*, *Diastatomma münsteri*, *Cordulegaster münsteri*, *Petalura münsteri*, *Æschna wittei*, *Petalura wittei*, *Protolindenia wittei*, *Libella* ——— Schmidel, *Æschna schmideli*, *Agrion latreillei*, *Heterophlebia latreillei*, *Isophlebia helle*, *Heterophlebia helle*.

856. *Æschna bavarica.* (Odonata.)

Locality: Bavaria. Horizon: Jura.

1856. Giebel. Insect. d. vorwelt, 280-281.

See also *Cymatophlebia longialata*, etc.

857. *Æschna brodiei.* (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1843. Buckman. Proc. geol. soc. Lond., iv: 212 (undescrib.).
 1844. " Ann. nat. hist., xiv: 74 (undescrib.).
 1844. " Lond. Edinb. Dubl. phil. mag., xxiv: 377.
 1845. Murchison. Geol. Cheltenham, 82. Pl. 8, figs. 1, 2.
 1848. Hagen. Stett. entom. zeit., ix: 12.
 1866. Phillips. Geol. mag., iii: 98. Pl. 6, fig. d.

See also *Libellula brodiei*, etc.

858. *Æschna buchi.* (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1856. Giebel. Insect. d. vorwelt, 280.

See also *Anax buchii*, etc.

859. *Æschna charpentieri.* (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1848. Hagen. Stett. entom. zeit., ix: 11-12.
 1850. " Rev. odon. (Mém. soc. roy. sc. Liège, vi): 362.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 278.

See also *Anax buchii*, etc.

860. *Æschna flindersiensis.* (Odonata.)

Locality: Flinder's River, Australia. Horizon: Cretaceous.

1884. Woodward. Geol. mag., (3), i: 337-339. Pl. 11, fig. 1.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 34 (Estemoua?).

861. *Æschna gigantea.* (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.
 1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 216. Pl. 23, figs. 13, 14, 14a.

1856. Giebel. Insect. d. vorwelt, 279.
 1862. Hagen. Palaeontogr., x: 111 (two species).
 1863. Winkler. Cat. syst. coll. pal. mus. Teyl., 424.
 1877. Assmann. Ber. vers. deutsch. naturf., 1: 191.

See also *Anax giganteus*, *Petalura gigantea*, *Estemoa gigantea*, *Æschna intermedia*, *Anax intermedius*, *Petalura intermedia*, *Cordulegaster intermedius*, *Petalura latialata*, *Petalura eximia*; also *Anax buchii*, *Æschna buchi*, *Æschna* or *Libellula* ——— Erichs., *Libellulites* ——— Charp., *Æschna charpentieri*, *Anax charpentieri*, ——— *aspasia* (*Odonata*, *Calopterygina*), *Isophlebia aspasia*, *Aspasia gigantea*.

862. *Æschna hageni*. (*Odonata*.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 86. Pl. 7, fig. 9.
 1872. " Monde prim. Suisse, 105. Pl. 7, fig. 9.
 1876. " Prim. world Switz., i: 85. Pl. 7, fig. 9.
 1879. " Urwelt der Schweiz, 96. Pl. 7, fig. 9.

863. *Æschna intermedia*. (*Odonata*.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.
 1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 216. Pl. 23, fig. 13.
 1856. Giebel. Insect. d. vorwelt, 280.
 1877. Assmann. Ber. vers. deutsch. naturf., 1: 192.
 See also *A. gigantea*, etc.

864. *Æschna liassina*. (*Odonata*.)

Localities: Near Evesham, Binton, Bidford, Warwickshire, England. Horizon: Lower Lias, Insect Limestone.

1840. Strickland. Mag. nat. hist., (2), iv: 301-303. Figs. 11-13.
 1842. Dale. Ann. mag. nat. hist., ix: 257 (nearer to *Cordulegaster* and still more to *Petalura*).
 1845. Brodie. Foss. ins. sec. rocks Engl., 102 (*Æshna*), 126. Pl. 10, fig. 4.
 1845. Murchison. Geol. Cheltenham, 82.
 1848. Hagen. Stett. entom. zeit., ix: 12.

See also *Diastatomma liassina*, *Petalura liassina*, *Heterophlebia liassina*, *Libellula liassica*, *Libellula hopei*, *Heterophlebia hopei*, *Petalura hopei*.

865. *Æschna longialata*. (*Odonata*.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1842. Münster. MSS.
 1842. Germar. Münst., Beitr. z. petref., v: 79-81. Pl. 9, fig. 1; Pl. 13, figs. 6a-b.
 1846. Geinitz. Grundr. versteineringk., 187 (*longiolata*). Pl. 8, figs. 5, 5a.
 1852. Quenstedt. Handb. petref. (unnamed). Pl. 24, figs. 1-3.
 1856. Giebel. Insect. d. vorwelt, 279.
 1877. Assmann. Ber. vers. deutsch. naturf., 1: 92.

See also *Cymatophlebia longialata*, etc.

Æschna longiolata. See *Æschna longialata*.

866. *Æschna münsteri*. (*Odonata*.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 215. Pl. 23, fig. 12.
 1862. Hagen. Palaeontogr., x: 111, 137-138.
 1863. Winkler. Cat. syst. coll. pal. mus. Teyl., 423.
 1877. Assmann. Ber. vers. deutsch. naturf., 1: 192.

See also *Diastatomma münsteri*, *Cordulegaster münsteri*, *Petalura münsteri*, *Æschna antiqua*, etc.

867. *Æschna multicellulosa.* (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1857. Giebel. Zeitschr. ges. naturw., ix: 378-380. *Pl.* 5, *fig.* 2.
See also *Cymatophlebia longialata*, etc.

868. *Æschna parkinsoni.* (Odonata.)

Locality: Pappenheim, near Solenhofen, Bavaria. Horizon: Jura?

1833. Parkinson. Org. rem., iii: 265-266 (unnamed). *Pl.* 17, *fig.* 2a-c.
1850. Selys. Rev. odon. (Mém. soc. roy. sc. Liège, vi): 362, note.
1856. Giebel. Insect. d. vorwelt, 279.

869. *Æschna perampla.* (Odonata.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33. *Pl.* 5, *fig.* 7.
1850. Hagen. Rev. odon. (Mém. soc. roy. sc. Liège, vi): 362.
1856. Giebel. Insect. d. vorwelt, 281.

870. *Æschna schmideli.* (Odonata.)

Locality: Bavaria. Horizon: Jura.

1856. Giebel. Insect. d. vorwelt, 278.
1862. Hagen. Palaeontogr., x: 141-142 (*schmideli*).
See also *Libella* —— *Schmidel*, *Æschna antiqua*, etc.

Æschna schmideli. See *Æschna schmideli*.

871. *Æschna wittei.* (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1860. Giebel. Zeitschr. ges. naturw., xvi: 127-131. *Pl.* 1, *fig.* 1.
See also *Petalura wittei*, *Protolindenia wittei*, *Æschna antiqua*, etc.

872. *Æschnidium bubas.* (Odonata.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 393-394. *Pl.* 15, *fig.* 5.
See also *Estemoa bubas*, *Libellula antiqua*, *Estemoa densa*, etc.

Æshna liassina. See *Æschna liassina*.

873. *Agrion* —— (Odonata.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390.

874. *Agrion* —— (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1863. Winkler. Cat. syst. coll. pal. mus. Teyl., 424, No. 6358.
1874. Weyenbergh. Periód. zool., i: 106.
1874. " Énum. syst. faune ent. mésoz., 20.

875. *Agrion buckmani.* (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 102, 126. *Pl.* 8, *fig.* 2.
1871. Phillips. Geology of Oxford, 123.
See also *Heterophlebia dislocata*, etc.

876. Agrion ? eichstättense. (Odonata.)

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 106, 118-119. *Pl.* 14, *fig.* 5.
 1863. Winkler. Cat. syst. coll. pal. mus. Teyl., 424.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.
 1874. " Periód. zool., i: 93.
 1874. " Énum. syst. faune ent. mésoz., 7.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 58.

877. Agrion exhaustum. (Odonata.)

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 106 (undeser.).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.
 1874. " Periód. zool., i: 93.
 1874. " Énum. syst. faune ent. mésoz., 7.

878. Agrion hecticum. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 106 (undeser.).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.
 1874. " Periód. zool., i: 92.
 1874. " Énum. syst. faune ent. mésoz., 6.

879. Agrion latreillei. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Müntz. MSS.
 1839. Germar. Verhand. leop.-carol. akad. naturf., xix: 218. *Pl.* 23, *fig.* 16.
 1846. Geinitz. Grundr. versteinierungsk., 187.
 1848. Hagen. Stett. entom. zeit., ix: 9 (=Cordulegaster müntzeri?).
 1862. " Palaeontogr., x: 111, 138-139.
 1877. Assmann. Ber. vers. deutsch. naturf., 1: 192.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 44-45. *Pl.* 4, *fig.* 13.

See also *Heterophlebia latreillei*, *Isophlebia helle* etc., *Æschua müntzeri* etc., *Æschua antiqua* etc.

Agrion venustum. See *Agrion vetustum*.**880. Agrion vetustum.** (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1848. Hagen. Stett. entom. zeit., ix: 7.
 1850. " Rev. odon. (Mém. soc. roy. sc. Liège, vi): 356.
 1852. Giebel. Deutschl. petref., 638 (*venustum*).
 1856. " Insect. d. vorwelt, 272.
 1863. Hagen. Palaeontogr., x: 106, 118.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.
 1874. " Periód. zool., i: 93.
 1874. " Énum. syst. faune ent. mésoz., 7.

See also *Agrionides* — Charpentier.

881. Agrionides —. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1840. Charpentier. Libell. europ., 170-173. *Pl.* 48, *figs.* 2, 3.

See also *Agrion vetustum*.

882. Agrionidium ætna. (Odonata.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 396. Pl. 18, fig. 39.

883. Anax buchii. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1848. Hagen. Stett. entom. zeit., ix: 11.

1850. " Rev. odon. (Mém. soc. roy. sc. Liège, vi): 361.

1852. Giebel. Deutschl. petref., 639.

1862. Hagen. Palaeontogr., x: 143-144.

1866. " Palaeontogr., xv: 92-96. Pl. 3, fig. 2.

1866. " Neur. lithogr. schief., i: 36-40. Pl. 3, fig. 2.

See also *Æschna buchi*, *Æschna* or *Libellula* ——— Erichs., *Libellulites* ——— Charp., *Æschna charpentieri*, *Anax charpentieri*, ——— *aspasia* (Odonata, Calopterygina), *Isophlebia aspasia*, *Aspasia gigantea*; also *Anax giganteus*, etc.

884. Anax charpentieri. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 106, 140-141. Pl. 14, fig. 1.

1866. " Palaeontogr., xv: 95-96 (=A. buchi ♂).

1866. " Neur. lithogr. schief., i: 39-40 (=A. buchi ♂).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.

See also *A. buchii*, etc.

885. Anax giganteus. (Odonata.)

Locality: Bavaria. Horizon: Jura.

1848. Hagen. Stett. entom. zeit., ix: 10.

1850. " Rev. odon. (Mém. soc. roy. sc. Liège, vi): 361.

1852. Giebel. Deutschl. petref., 639.

1862. Hagen. Palaeontogr., x: 142.

See also *Æschna gigantea*, *Petalura gigantea*, *Estemoa gigantea*, *Æschna intermedia*, *Anax intermedius*, *Petalura intermedia*, *Cordulegaster intermedius*, *Petalura latialata*, *Petalura eximia*; also *Anax buchii*, etc.

886. Anax intermedius. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1848. Hagen. Stett. entom. zeit., ix: 10.

1850. " Rev. odon. (Mém. soc. roy. sc. Liège, vi): 361.

1862. " Palaeontogr., x: 142-143.

See also *Æschna gigantea*, etc.

887. Anax longialatus. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1848. Hagen. Stett. entom. zeit., ix: 11.

1850. " Rev. odon. (Mém. soc. roy. sc. Liège, vi): 361 (*longialatus*).

1852. Giebel. Deutschl. petref., 639.

See also *Cymatophlebia longialata*, etc.

Anax longialatus. See *Anax longialatus*.

Apiaria antiqua. See II, HYMENOPTERA, Idem.

888. Apochrysa excelsa. (Hemerobina.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 108 (undeser.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 777.
 1886. " Zittel-Barrois, Traité de paléont., ii: 777.
 1888. Oppenheim. Palaeontogr., xxxiv: 227. Pl. 30. fig. 1.

889. *Aspasia gigantea*. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234 [134], as of Hagen, but erroneously.
 See also *Anax buchii*, etc.

Bittacus dubius. See II, ORTHOPT., Idem.

890. *Blattidium* ———. (Odonata.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1877. Goldenberg. Fauna sarap. foss., ii: 21, No. 51 (refers by mistake to *Blattina similis* Gieb.).

See also *Libellula antiqua*.

891. *Calopteryx lithographica*. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1857. Giebel. Zeitschr. ges. naturw., ix: 380-382. Pl. 5, fig. 1.
 1862. Hagen. Palaeontogr., x: 105.

See also *Heterophlebia phryne*, etc.

892. *Calotermes maculatus*. (Termitina.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 86. Pl. 7, fig. 7.
 1872. " Monde prim. Suisse, 104. Pl. 7, fig. 7.
 1876. " Prim. world Switz., i: 85. Pl. 7, fig. 7.
 1879. " Urwelt der Schweiz, 2^e Aufl., 96. Pl. 7, fig. 7.

893. *Calotermes obtectus*. (Termitina.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 86.
 1872. " Monde prim. Suisse, 105.
 1876. " Prim. world Switz., i: 85.
 1879. " Urwelt der Schweiz, 2^e Aufl., 96.

894. *Calotermes plagiatus*. (Termitina.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 86. Pl. 7, fig. 6.
 1872. " Monde prim. Suisse, 104. Pl. 7, fig. 6.
 1876. " Prim. world Switz., i: 85. Pl. 7, fig. 6.
 1879. " Urwelt der Schweiz, 2^e Aufl., 96. Pl. 7, fig. 6.

895. *Calotermes troglodytes*. (Termitina.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 86.
 1872. " Monde prim. Suisse, 105.
 1876. " Prim. world Switz., i: 85.
 1879. " Urwelt der Schweiz, 2^e Aufl., 96.

896. Chauliodes ——. (Sialina.)

Localities: Hasfield, Strensham, Bidford, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 102, 126. *Pl.* 8, *figs.* 3, 5, 6, 14; *Pl.* 10, *figs.* 6, 9–12.

See also *Orthophlebia* ——. Westwood, 1845, *O. parallela*, *O. similis*, *O. intermedia*, *O. lata*, *Hagla gracilis*, *H. similis*, *H. deleta*, *H. (Chauliodes) similis*, *Orthophlebia (Phryganidium) intermedia*.

897. Chauliodes ——. (Sialina.)

Localities: Brown's Wood, Binton, Copt Heath, Knowle, England.
Horizon: Lower Lias.

1873. Brodie. *Distr. corr. foss. ins.*, 15

898. Chauliodes ——. (Sialina.)

Locality: England. Horizon: Lias.

1871. Philips. *Geology of Oxford*, 123.

Chauliodes similis. See *Hagla (Chauliodes) similis*.

899. Chauliodites helveticus. (Sialina.)

Locality: Mythen, Canton Schwyz, Switzerland. Horizon: Trias.

1877. Heer. *Flora foss. helvet.*, 77. *Pl.* 29, *figs.* 32, 32b.

900. Chauliodites minor. (Sialina.)

Locality: Hatham, England. Horizon: Lias, Planorbis Zone.

1876. Blake. *Tate and Blake, Yorkshire Lias*, 426. *Pl.* 16, *fig.* 12 (quoted as 6).

901. Chauliodites picteti. (Sialina.)

Locality: Gödewitz, bei Salzmünde, Germany. Horizon: Trias, Bunter Sandstein.

1864. Heer. *Viert. naturf. gesellsch. Zürich*, ix: 279, note. *Pl.*, *fig.* 11.

1872. " *Monde prim. Suisse*, 99.

902. Chauliodites zinkenii. (Sialina.)

Locality: Gödewitz, bei Salzmünde, Germany. Horizon: Trias, Bunter Sandstein.

1864. Heer. *Viert. naturf. gesellsch. Zürich*, ix: 279, note. *Pl.*, *fig.* 10.

1872. " *Monde prim. Suisse*, 99.

903. Chimarra pytho. (Trichoptera.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. *Insect. d. vorwelt*, 269.

See also *Phryganidium pytho*.

904. Chrysopa excelsa. (Hemerobina.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. *Palaeontogr.*, xxxiv: 227 (as of Hagen). *Pl.* 30, *fig.* 2.

See also *Hemerobius priscus*.

905. Chrysopa protogæa. (Hemerobina.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. *Palaeontogr.*, x: 108 (undescri.).

1866. " *Stett. entom. zeit.*, xxvii: 396.

1869. Weyenbergh. *Tijdschr. v. ent.*, (2), iv: 236.

906. *Chrysopa ? solenhofensis.* (Hemerobina.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 264. *Pl. 34, figs. 11-12.*
 1869. " Ins. foss. calc. lithogr., 18. *Pl. 1, figs. 11-12.*
 1869. " Tijdschr. v. ent., (2), iv: 236.
 1874. " Periód. zool., 1: 96.
 1874. " Énum. syst. faune ent. mésoz., 10.

Clathrotermes (Elcana) geinitzi.* See II, ORTHOPT., Idem.*907. *Clathrotermes signatus.* (Termitina.)**

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 85. *Pl. 7, fig. 8.*
 1872. " Monde prim. Suisse, 104. *Pl. 7, fig. 8.*
 1876. " Prim. world Switz., i: 85. *Pl. 7, fig. 8.*
 1879. " Urwelt der Schweiz, 2^e aufl., 95. *Pl. 7, fig. 8.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 772. *Fig. 973.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 772. *Fig. 990.*
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 17-18. *Pl. 2, fig. 8,*

908. *Cordulegaster intermedius.* (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 45-48. *Pl. 4, fig. 7*
 See also *Æschna gigantea*, etc.

Cordulegaster liassinus.* See *Æschna liassina.**909. *Cordulegaster muensteri.* (Odonata.)**

Locality: Bavaria. Horizon: Jura.

1848. Hagen. Stett. ent. zeit., ix: 8-9.
 1850. " Rev. odon. (Mém. soc. roy. sc. Liége, vi): 360.
 See also *Æschna münsteri*, etc., *Æschna antiqua*, etc.

910. *Corydalis* ———.

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 119. *Pl. 5, figs. 2, 3, 13, 14, 16.*
 1856. Hagen. Berendt, befindl. organ. reste vorw., ii, th. i: 81 (Brod., v: 13.)

See also *Orthophlebia minnta*, *Zalmona brodiei*; also II, ORTHOPT., *Blattidium similis*, *B. kollari*, *Blattina similis*.

911. *Corydalis vetusta.* (Sialina.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 108 (undescri.).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.
 1888. Oppenheim. Palaeontogr., xxxiv: 227-228. *Pl. 30, fig. 3; Pl. 31, fig. 31.*

912. *Corydalites fecundus.* (Sialina.)Compared with *Corydalis cornutus*, U. S.

Locality: Crow Creek, near Greeley, Colo. Horizon: Laramie Group.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 537-540 (fecundum).
 1879. White. Ann. rep. U. S. geol. surv. terr., xi: 173-174.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 776. *Fig. 981ab.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 776. *Fig. 998ab.*
 1890. " Tert. ins. N. A., 149-153. *Pl. 4, figs. 5-7, 13-16, 18-21, 23.*

913. *Cyllonium boisduvalianum*.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 395. *Pl. 17, fig. 17.*
 1875. Scudder. Mem. Amer. assoc. adv. sc., i: 88-89. *Fig. 2.*
 1877. Kirby. Synon. catal. diurn. lepid., suppl., 699.

914. *Cyllonium hewitsonianum*.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 27.*
 1875. Scudder. Mem. Amer. assoc. adv. sc., i: 88-89. *Fig. 3.*
 1877. Kirby. Synon. catal. diurn. lepid., suppl., 699.

915. *Cymatophlebia longialata*. (Odonata.)

Locality: Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 49-52 (*longialata*). *Pl. 3, figs. 5-8.*
 See also *Libellula longialata*, *Æschna longialata*, *Anax longialatus*, *Petalia longialata*, *Gynacantha longialata*, *Æschna bavarica*, *A. multicellulosa*.

***Diastatomma liasina*.** See *Diastatomma liasina*.

916. *Diastatomma liasina*. (Odonata.)

Locality: England. Horizon: Lower Lias.

1856. Giebel. Insect. d. vorwelt, 276 (*liasina*).
 See also *Æschna liasina*, etc.

917. *Diastatomma münsteri*. (Odonata.)

Locality: Bavaria. Horizon: Jura.

1856. Giebel. Insect. d. vorwelt, 276.
 See also *Æschna münsteri*, etc., *Æschna antiqua*, etc.

918. *Dictyoneura cellulosa*. (Ephemera.)

Locality: Bavaria. Horizon: Jura.

1868. Brauer. Verhandl. k.-k. zool.-bot. gesellsch. Wien, xviii: 389, note.
 1868. " Verz. bek. neuropt., 31, note.
 1871. Eaton. Trans. ent. soc. Lond., 1871: 40.
 See also *Ephemera cellulosa*.

919. *Dictyoneura procera*. (Ephemera.)

Locality: Bavaria. Horizon: Jura.

1868. Brauer. Verhandl. k.-k. zool.-bot. gesellsch. Wien, xviii: 389, note.
 1868. " Verz. bek. neuropt., 31, note.
 1871. Eaton. Trans. ent. soc. Lond., 1871: 40.
 See also *Ephemera procera*.

920. *Ela brephos*.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 257.
 See also *Raphidium brephos*.

921. *Elcana beyrichi*.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect d. vorwelt, 259.
 1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 579.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 17.
 See also *Panorpidium tessellatum var.*

Elcana (Clathrotermes) geinitzi. See II, ORTHOPT., Idem.

Elcana (Clathrotermes) intercalata. See II, ORTHOPT., Idem.

Elcana liasina. See *Rapha liasina*.

Elcana tessellata. See II, ORTHOPTERA, Idem.

922. Ephemera ———. (Ephemeridæ.)

Locality: Strensham, England. Horizon: Lower Lias, Insect Limestone.

1845. Brodie. Foss. ins. sec. rocks Engl., 102, 127. *Pl.* 10, *fig.* 14.

See also *Rapha liasina*.

923. Ephemera ———. (Ephemeridæ.)

Localities: Brown's Wood, Binton, Westbury, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 15.

924. Ephemera (vic.) ———. (Ephemeridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1871. Eaton. Trans. ent. soc. Lond., 1871: 158. *Pl.* 1, *fig.* 10.

925. Ephemera ———. (Ephemeridæ.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

926. Ephemera cellulosa. (Ephemeridæ.)

Compared with *E. vulgata*.

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107, 115–116. *Pl.* 15, *fig.* 3.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.

See also *Dictyonera cellulosa*.

927. Ephemera deposita. (Ephemeridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 86, 96. *Pl.* 3, *fig.* 14.

1874. " Énum. syst. faune ent. mésoz., 10.

928. Ephemera meyeri. (Ephemeridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 86, 96. *Pl.* 3, *fig.* 13.

1874. " Énum. syst. faune ent. mésoz., 10

929. Ephemera mortua. (Ephemeridæ.)

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107, 117. *Pl.* 15, *fig.* 5.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.

1874. " Periód. zool., i: 96.

1874. " Énum. syst. faune ent. mésoz., 10.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 29. *Pl.* 2, *fig.* 13.

1888. Oppenheim. Palaeontogr., xxxiv: 225. *Pl.* 30, *fig.* 18.

930. Ephemera? multinervosa. (Ephemeridæ.)

Locality: Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 225.

931. Ephemera prisca. (Ephemeridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 108, 117-118.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.

See also *Sciara prisca*.**932. Ephemera procera.** (Ephemeridæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107, 116-117. *Pl. 15, fig. 2.*

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.

1888. Oppenheim. Palaeontogr., xxxiv: 225. *Pl. 30, fig. 12.*See also *Dictyonera procera*.**933. Ephemera speciosa.** (Ephemeridæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 225. *Pl. 30, fig. 13.***934. Ephemeropsis** ———. (Ephemeridæ.)

Locality: Eastern Siberia. Horizon: Jura.

1865. Eichwald. Amtl. ber. vers. deutsch. naturf., xxxix: 170.

See also ——— Müll., *Ephemeropsis orientalis*, *E. trisetalis*.**935. Ephemeropsis orientalis.** (Ephemeridæ.)

Locality: Near Kondnyewskaya on Tourga, Eastern Siberia. Horizon: Purbecks.

1868. Eichwald. *Lethæa rossica*, ii, pt. ii: 1192-1195. *Pl. 37, fig. 8.*1889. {Brauer-Redt.} *Mém. acad. sc. St.-Pétersb.*, (7), xxxvi, No. 15: 5-6. *Pl. [1],*
{enb.-Ganglb.} *figs. 4a-d.*See also *Ephemeropsis* ———, *E. trisetalis*, ——— Müll.**936. Ephemeropsis trisetalis.** (Ephemeridæ.)

Locality: River Towega, distr. Nertschinsk, Siberia. Horizon: Jura.

1864. Eichwald. Bull. soc. géol. France, (2), xxi: 21-22.

1864. " Quart. journ. geol. soc. Lond., xx: 21.

See also *E. orientalis*, etc.**937. Estemoa bubas.** (Odonata.)

Locality: England. Horizon: Lower Purbecks.

1856. Giebel. *Insect. d. vorwelt*, 287.1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 34 (= *E. densa* ?).See also *Æschnidium bubas*, *Libellula antiqua*, *Blattidium* ——— Goldenb., *Estemoa densa*, etc.**938. Estemoa densa.** (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 34-35. *Pl. 3, fig. 4.*See also (*Libellula*) *densa*, ——— *densa* (Odonata, *Libellulina*), *Estemoa bubas*, *Æschnidium bubas*, *Libellula antiqua*, *Blattidium* ——— Goldenb.

Estemoa flindersiensis. See *Æschna flindersiensis*.

939. Estemoa gigantea. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 35-37. *Pl. 3, figs. 1-3.*
See also *Æschna gigantea*, etc.

940. Euphæa areolata. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. *Palaeontogr.*, x: 106 (undescrib.).
1869. Weyenbergh. *Tijdschr. v. ent.*, (2), iv: 235.

941. Euphæa filosa. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. *Palaeontogr.*, x: 106 (undescrib.).
1869. Weyenbergh. *Tijdschr. v. ent.*, (2), iv: 235.

942. Euphæa longiventris. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. *Palaeontogr.*, x: 106, 121-124. *Pl. 13, figs. 7, 8.*
1863. Winkler. *Catal. syst. pal. mus. Teyl.*, 424.
1869. Weyenbergh. *Tijdschr. v. ent.*, (2), iv: 235.
1874. " *Periód. zool.*, i: 92.
1874. " *Énum. syst. faune ent. mésoz.*, 6.
See also *Tarsophlebia eximia*, *Heterophlebia eximia*.

943. Euphæa ? multinervis. (Odonata.)

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. *Palaeontogr.*, x: 106, 119-121. *Pl. 14, figs. 2-4.*
1874. Weyenbergh. *Periód. zool.*, i: 92.
1874. " *Énum. syst. faune ent. mésoz.*, 6.

Eutermes grandævus. See *Termes (Eutermes) grandævus*.

944. Flata haidingeri. (Termitina.)

Locality: Vale of Wardour, England. Horizon: Purbeck.

1845. Brodie. *Foss. ins. sec. rocks Eugl.*, 33, 118 (unnamed). *Pl. 2, fig. 6.*
1856. Giebel. *Insect. d. vorwelt*, 375.
1860. Hagen. *Linn. entom.*, xii: 297 (= *Termes grandævus*).
See also *Termes grandævus*, etc.

945. Gomphoides brodiei. (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1850. Selys. *Rev. odon. (Mém. soc. roy. sc. Liège, vi)*: 360, notc.
See also *Libellula brodiei*, etc.

946. Gomphus brodiei. (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1850. Hagen. *Rev. odon. (Mém. soc. roy. sc. Liège, vi)*: 360.
See also *Libellula brodiei*, etc.

Gomphus koechleri. See *Gomphus koechleri*.

947. *Gomphus koechleri*. (Odonata.)

Locality: Bavaria. Horizon: Jura.

1826. Koehler. Zeitschr. f. min., 1826, ii: 231 (unnamed). *Pl.* 7.
 1848. Hagen. Stett. ent. zeit., ix: 8.
 1850. " Rev. odon. (Mém. soc. roy. sc. Liège, vi): 360.
 1852. Giebel. Deutschl. petref., 639 (*koechleri*).
 1862. Hagen. Palaeontogr., x: 139.
 See also *Uropetala koechleri*, etc.

948. *Gomphus petrificatus*. (Odonata.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1850. Hagen. Rev. odon. (Mém. soc. roy. sc. Liège, vi): 359.
 See also *Lindenia* —— *Brodie*, etc.

949. *Gynacantha longialata*. (Odonata.)

Locality: Bavaria. Horizon: Jura.

1848. Hagen. Stett. entom. zeit., ix: 9-10.
 1850. " Rev. odon. (Mém. roy. soc. sc. Liège, vi): 361 (*longiolata*).
 1852. Giebel. Deutschl. petref., 639.
 See also *Cymatophlebia longialata*, etc.

***Gynacantha longiolata*.** See *Gynacantha longialata*.

950. *Hagla* ——. (Sialina.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., (unnamed). *Pl.* 10, *fig.* 5.
 1856. Giebel. Insect. d. vorwelt. 265-266.

951. *Hagla deleta*. (Sialina.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (*Chauliodes* sp.). *Pl.* 8, *fig.* 3.
 1856. Giebel. Insect. d. vorwelt, 265.
 See also *Chauliodes* —— *Brodie*, 1845, etc.

952. *Hagla gracilis*. (Sialina.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (*Chauliodes* sp.). *Pl.* 8, *fig.* 14.
 1856. Giebel. Insect. d. vorwelt, 264-265.
 See also *Chauliodes* —— *Brodie*, 1845, etc.

953. *Hagla ignota*. (Sialina.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1856. Giebel. Insect. d. vorwelt, 265.
 See also *Termitidium ignotum*.

954. *Hagla similis*. (Sialina.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (*Chauliodes* sp.). *Pl.* 8, *fig.* 6.
 1856. Giebel. Insect. d. vorwelt, 265.
 See also *Chauliodes* —— *Brodie*, 1845, etc.

955. cf. Hagla (Chauliodes) similis. (Sialina.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. *Zeitschr. deutsch. geol. gesellsch.*, 1884: 576-577. *Pl. 13, fig. 12.*
See also *Chauliodes* ——— Brodie, 1845, etc.

956. Hemerobioides giganteus. (Hemerobina.)

Locality: Stonesfield, England. Horizon: Stonesfield Slate.

1838. Buckland. *Proc. geol. soc. Lond.*, ii: 688.
1838. " *Lond. Edinb. Dubl. phil. mag.*, (3), xiii: 388.
1844. Mantell. *Medals of creation*, ii: 577.
1845. Brodie. *Foss. ins. sec. rocks Engl.*, 45, 123. *Pl. 6, fig. 22.*
1854. Mantell. *Medals of creation*, 2d ed., ii: 553.
1871. Phillips. *Geology of Oxford*, 173. *Digr.* 35.
See also *Hemerobius giganteus*.

957. Hemerobius ———. (Hemerobina.)

Locality: Aust, England. Horizon: Rhætic.

1873. Brodie. *Distr. corr. foss. ins.*, 17.

958. Hemerobius ———. (Hemerobina.)

Locality: England. Horizon: Lias.

1874. Brodie. *Distr. corr. foss. ins.*, 19.

959. Hemerobius fossilis. (Hemerobina.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. *Arch. mus. Teyl.*, ii: 264. *Pl. 34, fig. 15.*
1869. " *Ins. foss. calc. lithogr.*, 18. *Pl. 1, fig. 15.*
1869. " *Tijdschr. v. ent.*, (2), iv: 236.
1874. " *Periód. zool.*, i; 97.
1874. " *Énum. syst. faune ent. mésoz.*, 11.

960. Hemerobius giganteus. (Hemerobina.)

Locality: Stonesfield, England. Horizon: Stonesfield Slate.

1854. Morris. *Catal. Brit. foss.*, 2d ed., 117.
1856. Giebel. *Insect. d. vorwelt*, 262.
1866. Hagen. *Stett. ent. zeit.*, xxvii: 412 (an *hujus generis?*).
See also *Hemerobioides giganteus*.

961. Hemerobius higginsii. (Hemerobina.)

Locality: England. Horizon: Lower Lias, Insect Limestone.

1845. Brodie. *Foss. ins. sec. rocks Engl.*, 102. *Pl. 9, fig. 15.*
1856. Giebel. *Insect. d. vorwelt*, 262.

962. Hemerobius priscus. (Hemerobina.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. *Arch. mus. Teyl.*, ii: 264. *Pl. 34, figs. 13, 14.*
1869. " *Ins. foss. calc. lithogr.*, 18. *Pl. 1, figs. 13, 14.*
1869. " *Tijdschr. v. ent.*, (2), iv: 236.
1874. " *Periód. zool.*, i: 97.
1874. " *Énum. syst. faune ent. mésoz.*, 11.
1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 58.

See also *Chrysopa excelsa*.

963. *Heterophlebia* ———. (Odonata.)

Locality: England. Horizon: Lias.

1848. Westwood. Brodie, Quart. journ. geol. soc. Lond., v: 35.

1848. " Brodie, Foss. ins. sec. rocks Engl., 126, 127. *Pl. 8, fig. 4; Pl. 10, fig. 8.*

964. *Heterophlebia æqualis*. (Odonata.)

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 105, 124-127. *Pl. 13, figs. 4-6.*

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234 [134].

See also *Stenophlebia æqualis*.

965. *Heterophlebia amphitrite*. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 105 (undescri.).

See also *Stenophlebia amphitrite*.

***Heterophlebia brodiei*.** See *Libellula* (*Heterophlebia*) *brodiei*.

966. *Heterophlebia buckmanni*. (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1856. Giebel. Insect. d. vorwelt, 288.

See also *Heterophlebia dislocata*, etc.

967. *Heterophlebia casta*. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 106 (undescri., = *Lib. brevia lata* Münst. †).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.

See also *Libellula brevia lata*.

968. *Heterophlebia dislocata*. (Odonata.)

Localities: Dumbleton, Cheltenham, England. Horizon: Upper Lias.

1848. Brodie. Quart. journ. geol. soc. Lond., v: 32-35. *Pl. 2.*

1848. Westwood. Brodie, Foss. ins. sec. rocks Engl. *Pl. 8, fig. 2.*

1848. " Quart. journ. geol. soc. Lond., v: 32-35.

1849. Hagen. Stett. ent. zeit., x: 226-231 (belongs to *Gomphidae*). *Pl. 1, figs. 2, 3.*

1850. " Rev. odon. (Mém. soc. roy. sc. Liège, vi): 358-359.

1854. Pietet. *Traité pal.*, 2^e ed., ii: 374. *Pl. 40, fig. 7.*

1856. Giebel. Insect. d. vorwelt, 287-288.

1866. Hagen. Palaeontogr., xv: 62-65. *Pl. 2, figs. 7-9.*

1866. " Neur. lithogr. schiefer, i: 6-9. *Pl. 2, figs. 7-9.*

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234 [134].

See also *Libellula* (*Heterophlebia*) *dislocata*, *Libellula dislocata*, *Agrion buckmani*, *Heterophlebia buckmani*.

969. *Heterophlebia eximia*. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 106 (undescri.).

See also *Tarsophlebia eximia*, *Euphæa longiventris*.

970. *Heterophlebia helle*. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 105 (undescri.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234 [134] (undescri.).

See also *Isophlebia helle*, *Agrion latreillei*, etc., *Æschna münsteri*, etc., *Æschna antiqua*, etc.

971. *Heterophlebia hopei*. (Odonata.)

Locality: England. Horizon: Lias.

1850. Selys. Rev. odon. (Mem. soc. roy. sc. Liège, vi): 359, note.

See also *Libellula hopei*, *Æschna liassina*, etc.

972. *Heterophlebia latreillei*. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 139.

See also *Agrion latreillei*, *Isophlebia helle*, etc., *Æschna münsteri*, etc., *Æschna antiqua*, etc.

973. *Heterophlebia liassina*. (Odonata.)

Locality: England. Horizon: Lower Lias.

1850. Selys. Rev. odon. (Mém. soc. roy. sc. Liège, vi): 359, note.

See also *Æschna liassina*, etc.

974. *Heterophlebia phryne*. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 105 (undescri.).

See also *Calopteryx lithographica*, *Stenophlebia phryne*.

975. *Heterophlebia westwoodi*. (Odonata.)

Locality: Cheltenham, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). Pl. 10, fig. 8.

1850. Hagen. Rev. odon. (Mém. soc. roy. sc. Liège, vi): 359.

1856. Giebel. Insect. d. vorwelt, 288.

See also *Tarsophlebia westwoodi*.

976. *Hexagenites weyenberghii*. (Ephemeroidea.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1871. Eaton. Trans. ent. soc. Lond., 1871: 158 (unnamed). Pl. 1, fig. 10.

1880. Scudder. Dev. ins. N. Brunsw., 6-7.

1890. " Foss. ins. N. A., i: 158-159.

Hydropsyche seebachi. See *Phryganidium (Hydropsyche) seebachi*.

977. *Isophlebia aspasia*. (Odonata.)

Localities: Solenhofen, Eichstadt, Bavaria. Horizon: Jura.

1866. Hagen. Palaeontogr., xv: 70-75. Pl. 2, fig. 12; pl. 4, figs. 1-3.

1866. " Neur. lithogr. schief., i: 14-19. Pl. 2, fig. 12; pl. 4, figs. 1-3.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234 [134].

1874. " Periód. zool., i: 91.

1874. " Énum. syst. faune ent. mésoz., 5.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 56-57. Pl. 4, figs. 4-6.

See also *Anax buchii*, etc.

978. Isophlebia helle. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1866. Hagen. Palaontogr., xv: 76-79. *Pl. 1, fig. 1.*
 1866. " Neur. lithogr. schief., i: 20-23. *Pl. 1, fig. 1.*
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 234 [134].
 1874. " Periód. zool., i: 92.
 1874. " Énum. syst. faune ent. mésoz., 6.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 775.
 1886. " Zittel-Barrois, Traité de paléont., ii: 775.

See also *Heterophlebia helle*, *Agrion latreillei*, etc., *Æschna münsteri*, etc., *Æschna antiqua*, etc.

979. Libella ———. (Odonata.)

Compared with *Libella grandis* [*Æschna grandis*].

Locality: Solenhofen, Bavaria. Horizon: Jura.

1782. Schmidel. Fortges. vorst. merkw. verstein., 36. *Pl. 19, fig. 2.*
 1784. Schröter. Neue litt. u. beytr., i: 410-411.

See also *Æschna schmideli*, *Æschna antiqua*, etc.

980. Libellula ———. (Odonata.)

Locality: Strensham, England. Horizon: Lower Lias.

1874. Brodie. Distr. corr. foss. ins., 19 (*Libellula*).

981. Libellula ———. (Odonata.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellschaft., 1880: 529. *Pl. 22, fig. 16.*

982. Libellula ———. (Odonata.)

Locality: Dobbertin, Mecklenburg. Horizon: Jura.

1883. E. Geinitz. Flötzform. Mecklenb., 31. *Pl. 6, fig. 5.*

983. Libellula ———. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1844. Mantell. Medals of creation, ii: 574. *Lign. 122.*
 1854. " Medals of creation, 2d ed., ii: 551. *Lign. 174.*

984. Libellula? ——— (larva). (Odonata.)

Locality: Christian Malford, England. Horizon: Oxford clay.

1845. Westwood. Brodie, Foss. ins. sec. rocks, 36. 122. *Pl. 4, fig. 13.*

985. (Libellula) abscissa. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr. x: 107 (undescri.).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.
 See also ——— *abscissa* (Odonata, *Libellulina*).

986. Libellula antiqua. (Odonata.)

Locality: Vale of Wardour, England. Horizon: Purbeck's.

1845. Brodie. Foss. ins. sec. rocks Engl., 33. *Pl. 5, fig. 10.*
 1850. Hagen. Rev. odon. (Mém. soc. roy. sc. Liège, vi): 363.
 1856. Giebel. Insect. d. vorwelt, 285.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 34 (= *Estemoa bubas* †).

See also *Estemoa bubas*, etc., *Estemoa densa*, etc., *Blattidinm* ——— *Goldenb.*

987. *Libellula brevia*lata. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

- 18—. Münster. MSS. Mentioned by Hagen, *Palaeontogr.*, x: 106 (1862) as perhaps belonging to *Heterophlebia casta*. The species has never been published under either name.

See also *Heterophlebia casta*.

988. *Libellula brodiei*. (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101. *Pl. 8, fig. 1.*
 1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 101, 127. *Pl. 8, fig. 1.*
 1853. Buckmann. Ann. nat. hist., (2), xii: 436-438.
 1856. Giebel. Insect. d. vorwelt, 285.
 1871. Phillips. Geology of Oxford, 123.

See also *Æschna brodiei*, *Gomphus brodiei*, *Gomphoides brodiei*, *Libellula (Heterophlebia) brodiei*, *L. (Æschna) brodiei*, ——— *brodiei* (Odonata, Libellulina).

989. *Libellula (Æschna) brodiei*. (Odonata.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellschaft., 1884: 581.
 See also *Libellula brodiei*, etc.

990. *Libellula (Heterophlebia) brodiei*. (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1873. Brodie. Distr. corr. foss. ins., 15.
 See also *Libellula brodiei*, etc.

991. *Libellula decapitata*. (Odonata.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 9, fig. 1.*
 1850. Selys. MSS.
 1850. Hagen. Rev. odon. (Mém. soc. roy. sc. Liège, vi): 364.
 1856. Giebel. Insect. d. vorwelt, 285-286.
 See also ——— *decapitata* (Odonata, Libellulina.)

992. (*Libellula*) *densa*. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107 (undeser.).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.
 See also *Estomoa densa*, ——— *densa* (Odonata, Libellulina), *Estomoa bubas*, etc.

993. *Libellula dislocata*. (Odonata.)

Locality: Dumbleton, England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.
 See also *Heterophlebia dislocata*, etc.

994. *Libellula (Heterophlebia) dislocata*. (Odonata.)

Locality: Dumbleton, England. Horizon: Upper Lias.

1848. Brodie. Quart. Journ. geol. soc. Lond., 5: 32-35. *Pl. 2.*
 See also *Heterophlebia dislocata*, etc.

995. *Libellula hopei*. (Odonata.)

Locality: Strensham, Worcestershire, England. Horizon: Lower Lias,
Insect Limestone.

1845. Brodie. Foss. ins. sec. rocks Engl., 71, 102. *Pl.* 10, *fig.* 3.

1871. Phillips. Geology of Oxford, 123.

See also *Petalura hopei*, *Heterophlebia hopei*, *Æschna liassina*, etc.

996. *Libellula jurassica*. (Odonata.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl. (*Lindenia* sp.). *Pl.* 5, *fig.* 9.

1856. Giebel. Insect. d. vorwelt, 284.

See also *Lindenia* ——— Brodie, etc.

997. *Libellula koehleri*. (Odonata.)

Locality: Bavaria. Horizon: Jura.

1856. Giebel. Insect. d. vorwelt, 284-285.

See also *Uropetala koehleri*, etc.

998. *Libellula liassica*. (Odonata.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

See also *Æschna liassina*, etc.

999. *Libellula longialata*. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.

1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 216-217. *Pl.* 23, *fig.* 15.

1862. Hagen. Palaeontogr., x: 111.

1863. Winkler. Catal. syst. coll. pal. mus. Teyl., 423.

See also *Cymatophlebia longialata*, etc.

1000. (*Libellula*) *nævia*. (Odonata.)

Localities: Solenhofen, Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107 (undeser.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.

See also ——— *nævia* (Odonata, *Libellulina*).

1001. *Libellula petrificata*. (Odonata.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl. (*Lindenia* sp.). *Pl.* 5, *fig.* 8.

1856. Giebel. Insect. d. vorwelt, 281 (petrificatus).

See also *Lindenia* ——— Brodie, etc.

1002. (*Libellula*) *valga*. (Odonata.)

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107 (undeser.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.

1874. " Periód. zool., i: 95.

1874. " Énum. syst. faune ent. mésoz., 3.

See also ——— *valga* (Odonata, *Libellulina*).

1003. *Libellula westwoodii*. (Odonata.)

Locality: Near Oxford, England. Horizon: Stonesfield Slate.

1866. Phillips. Geol. mag., iii: 97-99. *Pl. 6, fig. a-c.*

1871. " Geology of Oxford, 173. *Digr. 36.*

1004. *Libellulites* ———. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1840. Charpentier. *Libell. europ.*, 170-173. *Pl. 48, fig. 1.*

See also *Anax buchii*, etc.

1005. *Libellulium agrias*.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 387, 393-394. *Pl. 15, fig. 4.*

1856. Giebel. *Insect. d. vorwelt*, 286.

1006. *Libellulium kaupii*.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 387, 395. *Pl. 17, fig. 21.*

1856. Giebel. *Insect. d. vorwelt*, 286.

Libillula ———. See *Libellula* ——— Brodie.

1007. *Lindenia* ———. (Odonata.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. *Foss. ins. sec. rocks Engl.*, 33. *Pl. 5, figs. 8, 9.*

See also *Libellula petrificata*, *Gomphus petrificatus*, *Libellula jurassica*.

1008. *Lindenia ? koehleri*. (Odonata.)

Locality: Bavaria. Horizon: Jura.

1850. Selys. *Rev. odon. (Mém. soc. roy. sc. Liège, vi)*: 366 (*koehleri*).

See also *Uropetala koehleri*, etc.

Lindenia koehleri. See *Lindenia koehleri*.

1009. *Meloe hoernesii*. (Termitina.)

Locality: England. Horizon: Wealden.

1845. Brodie. *Foss. ins. sec. rocks Engl. (unnamed)*. *Pl. 2, fig. 12.*

1856. Giebel. *Insect. d. vorwelt*, 106.

See also *Termes grandævus*, etc.

1010. *Mesobætis sibirica*. (Ephemera.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} *Mém. acad. sc. St.-Pétersb.*, (7), xxxvi, No. 15: 5. *Pl. [1], fig. 2.*
{enb.-Ganglb.}

1011. *Mesoleuctra gracilis* (nymph). (Perlina.)

Compared with *Leuctra fusciventris*.

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} *Mém. acad. sc. St.-Pétersb.*, (7), xxxvi, No. 15: 9-10. *Pl. [2],*
{enb.-Ganglb.} *figs. 11a-d.*

1012. Mesonemura maakii. (Perlina.)Compared with *Taniopteryx nebulosa*.

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 11. Pl. [2],
 {enb.-Ganglb.} fig. 13.

1013. Mesoneta antiqua. (Ephemeridae.)Compared with *Chirotonetes*.

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 4-5. Pl. [1],
 {enb.-Ganglb.} fig. 2ab.

1014. Mormolucoides articulatus (larva). (Sialina.)

Locality: Turner's Falls, Mass. Horizon: Trias.

- 1858: Hitchcock. Ichn. N. Engl., 7-8. Pl. 7, figs. 3, 4.
 1858: Dana. Hitchcock, Ichn. N. Engl., 7. Fig. on p. 8.
 1867: Scudder. Proc. Bost. soc. nat. hist., xi: 140.
 1868. " Geol. mag., v: 218-220.
 1885. " Zittel, Handb. palaeont., i, th. ii: 776, 827. Fig. 980.
 1886. " Zittel-Barrois, Traité de paléont., ii: 776, 829. Fig. 997.
 1886. " Bull. U. S. geol. surv., No. 31: 56, 109.
 1886. " Mem. Bost. soc. nat. hist., iii: 431-438. Pl. 45, figs. 1-16. Fig
 on p. 431.
 1888: Vidal. Ins. y plantas, 14.
 1889: Lesley. Dict. foss. Penns., i: 423-424. Fig.
 1890: Scudder. Foss. ins. N. A., i: 323-330. Pl. 19. Fig. on p. 323.
 See also *Palephemera mediæva*.

1015. Myrmeleon ——. (Hemerobina.)

Locality: England. Horizon: Lias.

- 1845: Westwood. Brodie, Foss. ins. sec. rocks Engl., 126. Pl. 10, fig. 5.

1016. Myrmeleon? ——. (Hemerobina.)

Locality: Binton, England. Horizon: Lower Lias.

- 1873: Brodie. Distr. corr. foss. ins., 15.

1017. Myrmeleon extinctus. (Hemerobina.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

- 1869: Weyenbergh. Arch. mus. Teyl., ii: 265. Pl. 35, figs. 16, 16a.
 1869. " Ins. foss. calc. lithogr., 19. Pl. 2, figs. 16, 16a.
 1869. " Tijdschr. v. ent., (2), iv: 236.
 1874. " Periód. zool., i: 97.
 1874. " Énum. syst. faune ent. mésoz., 11.

Nemoura ——. See *Phryganidium* (*Nemoura*) ——.

1018. Nymphes fossilis. (Hemerobina.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

- 1862: Hagen. Palaeontogr., x: 108 (undescri.).
 1866. " Stett. entom. zeit., xxvii: 453.
 1869: Weyenbergh. Tijdschr. v. ent., (2), iv: 236.

1019. Orthophlebia ——. (Panorpidæ.)

Locality: Brown's Wood and Somersetshire, England. Horizon: Lower Lias.
1873. Brodie. Distr. corr. foss. ins., 15.

1020. Orthophlebia ——. (Panorpidæ.)

Locality: England. Horizon: Wealden.
1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 119. *Pl. 5, figs. 12, 18*
See also *Panorpa gracilis*, *Orthophlebia bifurcata*.

1021. Orthophlebia ——. (Panorpidæ.)

Locality: England. Horizon: Lower Lias, Insect Limestone.
1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 126. *Pl. 8, figs. 3, 5, 6, 14*.
See also *Chauliodes* ——— Brodie, 1845, etc., *Orthophlebia longissima*.

1022. Orthophlebia bifurcata. (Panorpidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.
1845. Brodie. Foss. ins. sec. rocks Engl. (without specific name). *Pl. 5, fig. 12*.
1856. Giebel. Insect. d. vorwelt, 260.
See also *Orthophlebia* ——— Westw.

1023. Orthophlebia communis. (Panorpidæ.)

Localities: Wainlode, Forthampton, Strensham, Cracombe, Bidford, Copt Heath near Knowle, England. Horizon: Lower Lias, Insect Limestone.
1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 102, 126. *Pl. 8, figs. 7, 8, 9*.
1852. Bronn. *Lethæa geogn.*, 3^e Aufl., ii, th. ii: 430. *Pl. 24', fig. 19'*.
1856. Giebel. Insect. d. vorwelt, 260.
1871. Phillips. *Geology of Oxford*, 123.
1874. Brodie. *Quart. Journ. Geol. Soc. Lond.*, xxx: 748.
1875. " *Lower Lias Eatington, etc.*, 10.
1885. Scudder. *Zittel, Handb. palæont.*, i, th. ii: 777. *Fig. 983*.
1886. " *Zittel-Barrois, Traité de paléont.*, ii: 777. *Fig. 1000*.

1024. Orthophlebia furcata. (Panorpidæ.)

Locality: Aust, England. Horizon: Lower Lias.
1845. Brodie. Foss. ins. sec. rocks Engl., 127 (unnamed). *Pl. 9, fig. 16*.
1856. Giebel. Insect. d. vorwelt, 261.
See also *O. (Phryganidium) furcata*, *Phryganidium minimum*.

1025. Orthophlebia (Phryganidium) furcata. (Panorpidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.
1884. E. Geinitz. *Zeitschr. deutsch. geol. gesellsch.*, 1884: 573. *Pl. 13, figs. 5, 6*.
See also *O. furcata*, *Phryganidium minimum*.

1026. Orthophlebia intermedia. (Panorpidæ.)

Locality: England. Horizon: Lower Lias.
1845. Brodie. Foss. ins. sec. rocks Engl. (allied to *Chauliodes*). *Pl. 10, fig. 10*.
1856. Giebel. Insect. d. vorwelt, 261.
See also *Chauliodes* ——— Brodie, 1845, etc.

1027. Orthophlebia (Phryganidium) intermedia. (Panorpidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.
1884. E. Geinitz. *Zeitschr. deutsch. geol. gesellsch.*, 1884: 574-575 (= *O. lata*, *O. similis*). *Pl. 13, fig. 8*.
See also *Chauliodes* ——— Brodie, 1845, etc.

1028. Orthophlebia lata. (Panorpidæ.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (allied to *Chauliodes*). *Pl. 10, fig. 11.*

1856. Giebel. Insect. d. vorwelt, 261.

See also *Chauliodes* — Brodie, 1845, etc.**1029. Orthophlebia liasiana.** (Panorpidæ.)

Locality: Aust, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 127 (unnamed). *Pl. 9, fig. 17.*

1856. Giebel. Insect. d. vorwelt, 261.

1030. Orthophlebia longissima. (Panorpidæ.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (without specific name). *Pl. 8, fig. 5.*

1856. Giebel. Insect. d. vorwelt, 260.

See also *Orthophlebia* — Brodie, 1845, etc.**1031. Orthophlebia megapolitana.** (Panorpidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Jura.

1883. E. Geinitz. Flötzform. Meeklenb., 31. *Pl. 6, fig. 3.*1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 572-573. *Pl. 13, figs. 3, 4.***1032. Orthophlebia minuta.** (Panorpidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl. (*Corydalis* sp.). *Pl. 5, fig. 16.*

1856. Giebel. Insect. d. vorwelt, 260.

See also *Corydalis* —, etc.**1033. Orthophlebia parallela.** (Panorpidæ.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (allied to *Chauliodes*). *Pl. 10, fig. 9.*

1856. Giebel. Insect. d. vorwelt, 260.

See also *Chauliodes* — Brodie, 1845, etc.**1034. Orthophlebia parvula.** (Panorpidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 573-574. *Pl. 13, fig. 7.***1035. Orthophlebia similis.** (Panorpidæ.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (allied to *Chauliodes*). *Pl. 10, fig. 12.*

1856. Giebel. Insect. d. vorwelt, 261.

See also *Chauliodes* — Brodie, 1845, etc.**1036. Palæophlebia synlestoides.** (Odonata.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer - Red-} Mémoires acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 6-7. *Pl. [1], fig. 5.*
{tenb.-Ganglb.}

1037. *Palephemera mediæva*. (Sialina.)

Locality: Turner's Falls, Mass. Horizon: Trias.

1862. Hitchcock. Amer. Journ. sc., (2), xxxiii: 452.

1871. Packard. Bull. Essex inst., iii: 1.

See also *Mormolucoides articulatus*.**1038. *Palpares*? ———. (Myrmeleontidæ.)**

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 59.

1039. *Panorpa* ———. (Panorpidæ.)

Locality: England. Horizon: Lower Lias.

1845. Murchison. Geol. Cheltenham, 82. Pl. 9, fig. 6.

1040. *Panorpa*? ———. (Panorpidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 388.

1041. *Panorpa gracilis*. (Panorpidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl. (*Orthoplebia* sp.). Pl. 5, fig. 18.

1856. Giebel. Insect. d. vorwelt, 258.

See also *Orthoplebia* ——— Westw.**1042. *Panorpa hartungi*. (Panorpidæ.)**

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. } Brauer-Redt- }
} enb-Gaunglb. } Mémoires acad. sc. St.-Petersb., (7), xxxvi, No. 15: 16. Pl. 2, fig. 20.**1043. *Panorpa liassica*. (Panorpidæ.)**Compared with *P. germanica*.

Locality: Wainlode Cliff, England. Horizon: Lias.

1844. Mantell. Medals of creation, ii: 576. Lign. 123, figs. 1, 2.

1854. " Medals of creation, 2d ed., ii: 553. Lign. 180, figs. 1, 2.

Panorpidium ———. See II, ORTHOPT., Idem.**1044. *Panorpidium tessellatum* var.**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 387, 395. Pl. 17, fig. 12.

See also *Elcana beyrichi*; also II, ORTHOPT., *Panorpidium tessellatum*.**1045. *Petalia longialata*. (Odonata.)**

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palæontogr., x: 106, 127-133. Pl. 13, figs. 1, 2.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.

1874. " Periód. zool., i: 93.

1874. " Énum. syst. faune ent. mésoz., 7.

1885. Sudder. Zittel, Handb. palæont., i, th. 11: 775. Fig. 978.

1886. " Zittel-Barrois, Traité de paléont., ii: 775. Fig. 995.

1889. Nicholson. Man. palæont., 3d ed., i: 598. Fig. 448.

See also *Cymatophlebia longialata*, etc.

1046. (*Petalura*) *differenz*. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107 (undescri.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235 (undescri.).

1047. *Petalura* *eximia*. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107 (undescri.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.

See also *Æschna gigantea*, etc.**1048. *Petalura* *gigantea*. (Odonata.)**

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107 (undescri.).

1874. Weyenbergh. Periód. zool., i: 94.

1874. " Énum. syst. faune ent. mésoz., 8.

See also *Æschna gigantea*, etc.**1049. *Petalura* *hopei*. (Odonata.)**

Locality: Cheltenham, England. Horizon: Lias.

1856. Selys. Rev. odon. (Mém. soc. roy. sc. Liége, vi): 359, note.

1859. Hagen. Palaeontogr., viii: 26.

See also *Libellula hopei*, *Æschna liassina*, etc.**1050. *Petalura* *intermedia*. (Odonata.)**

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107 (undescri.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.

1874. " Periód. zool., i: 94.

1874. " Énum. syst. faune ent. mésoz., 8.

See also *Æschna gigantea*, etc.**1051. *Petalura* *latialata*. (Odonata.)**

Locality: Eichstadt, Bavaria. Horizon: Jura.

1862. Münster. MSS.

1862. Hagen. Palaeontogr., x: 107 (undescri.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.

See also *Æschna gigantea*, etc.**1052. *Petalura* *liassina*. (Odonata.)**

Locality: England. Horizon: Lower Lias.

1856. Hagen. Rev. odon. (Mém. soc. roy. sc. Liége, vi): 359-360.

1856. Selys. Rev. odon. (Mém. soc. roy. sc. Liége, vi): 359, note.

See also *Æschna liassina*, etc.**1053. (*Petalura*) *münsteri*. (Odonata.)**

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.

1874. " Periód. zool., i: 94.

1874. " Énum. syst. faune ent. mésoz., 8.

See also *Æschna münsteri*, etc., *Æschna antiqua*, etc.

1054. (*Petalura*) *varia*. (Odonata.)

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107 (undescri.).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.

1874. " Periód zool., i: 95.

1874. " Énum. syst. faune ent. mésoz., 9.

See also *Uropetala koehleri*, etc.**1055. *Petalura* ? *wittei*. (Odonata.)**

Locality: Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 133-136. *Pl.* 13, *fig.* 3.1862. " Palaeontogr., x: 136 (= *Æschna münsteri* Germ.).See also *Æschna wittei*, etc., *Æschna antiqua*, etc.**1056. *Philonthus kneri*. (Termitina.)**

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rock Engl., 32 (unnamed). *Pl.* 2, *fig.* 2.

1856. Giebel. Insect. d. vorwelt, 72-73.

1860. Hagen. Linn. entom., xii: 297 (a Termes).

See also *Termes grandævus*, etc., ——— (Staphylinidæ) Brodie, ii: 2.***Phryganæa micacea*. See *Phryganea micacea*.****1057. *Phryganea* ———. (Trichoptera.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390. *Pl.* 18, *figs.* 25, 28.**1058. *Phryganea micacea* (larval case). (Trichoptera.)**

Localities: Kounic, Vyšerovic, Bohemia. Horizon: Cretaceous.

1869. Frič. Arch. naturf. landesdurchf. Böhm., i, th. ii: 188. *Pl.* 3, *fig.* 6.1884. " Vesmír, xiii: 205-206. *Fig.* 6.1882. " Mojs., Beitr. palaeont. Oesterr.-Ung., ii: 7 (*Phryganæa*). *Pl.* 2, *fig.* 8.1882. " Foss. arthr. steink. u. kreidef. Böhmens, 7. *Pl.* 2, *fig.* 8.***Phryganidium pytho*. See *Phryganidium pytho*.****1059. *Phryganidium (Nemoura)* ———. (Trichoptera.)**

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 576. *Pl.* 13, *fig.* 11.**1060. *Phryganidium balticum*. (Trichoptera.)**

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 527-528. *Pl.* 22, *fig.* 13.

1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 575.

1061. *Phryganidium balticum* var. *simplex*. (Trichoptera.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 528. *Pl.* 22, *fig.* 14.***Phryganidium furcatum*. See *Orthoplebia (Phryganidium) furcata*.*****Phryganidium intermedium*. See *Orthoplebia (Phryganidium) intermedia*.**

1062. Phryganidium minimum. (Trichoptera.)

Locality: Dobbertin, Mecklenburg. Horizon: Jura.

1883. E. Geinitz. Flötzform. Mecklenb., 31. Pl. 6, fig. 1.

See also *Orthophlebia* (*Phryganidium*) *furcata*, *Orthophlebia furcata*.**1063. Phryganidium (Polycentropus) perlæforme.** (Trichoptera.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 575-576. Pl. 13, fig. 9.

1064. Phryganidium pytho. (Trichoptera.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1851. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396 (*Phryganeidium*).
Pl. 18, fig. 31.

1864. Hagen. Phryg. synops. synom., 73.

1864. " Verhandl. zool.-bot. gesellsch. Wien, 1864: 871.

See also *Chimarra pytho*.**1065. Phryganidium (Hydropsyche) seebachi.** (Trichoptera.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 576. Pl. 13, fig. 10.

1066. Platyperla platypoda. (Perlina.)Compared with *Nemura variegata*.

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. } Brauer-Redt- } Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 10-11. Pl. [2],
} enb.-Ganglb. } fig. 12ab.*Polycentropus perlæformis*. See *Phryganidium* (*Polycentropus*) *perlæforme*.*Polystœchetes* ———. See *Polystœchetes* ———.**1067. Polystœchetes** ———.

Locality: England. Horizon: Lias.

1874. Brodie. Distr. corr. foss. ins., 19 (*Polystœchetes*).**1068. Prognatha crassa.** (Termitina.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (unnamed). Pl. 2, fig. 3.

1856. Giebel. Insect. d. vorwelt, 73.

See also *Termes grandævus*, etc., ——— (Staphylinidæ?) Brodie, ii: 3.**1069. Protolindenia wittei.** (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 37-42. Pl. 4, figs. 1, 2, 9, 10.

See also *Æschua wittei*, etc., *Æschua antiqua*, etc.**1070. Rapha liasina.** (Ephemeridæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1856. Giebel. Insect. d. vorwelt, 290.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 17 (cf. *Elcana*).See also *Ephemera* ——— Brodie, 1845.

1071. Raphidium brephos. (Sialina.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl.* 17, *fig.* 16.See also *Ela brephos*.**1072. Samarura angusta** (larva). (Odonata.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 9. *Pl.* [1], *fig.* 9.
{enb.-Ganglb.}**1073. Samarura gigantea** (larva). (Odonata.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb. (7), xxxvi, No. 15: 7-8. *Pl.* [1],
{enb.-Ganglb.} *figs.* 6, 6a-d.**1074. Samarura minor** (larva). (Odonata.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 8. *Pl.* [1], *figs.*
{enb.-Ganglb.} 7a-c.**1075. Samarura pulla** (larva). (Odonata.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 9. *Pl.* [1], *figs.* 8,
{enb.-Ganglb.} 8bc.**1076. Samarura rotundata** (larva). (Odonata.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 9. *Pl.* [1], *fig.* 10.
{enb.-Ganglb.}**1077. Sciara prisca.** (Ephemeriðæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.

1839. Germar. Verhandl. leop.-carol. acad. naturf., xix: 211-212. *Pl.* 23, *fig.* 11.

1852. Giebel. Deutschl. petref., 640.

1856. " Insect. d. vorwelt, 230.

1862. Hagen. Palaeontogr., x: 111 (Ephemera).

1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192.

See also *Ephemera prisca*.**Sialium sipylus.** See II, ORTHOPTERA, Idem.**1078. Stenophlebia æqualis.** (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1866. Hagen. Palaeontogr., xv: 86-90. *Pl.* 1, *figs.* 2-4.1866. " Neur. lithogr. schief., i: 30-34. *Pl.* 1, *figs.* 2-4.1874. Weyenbergh. *Period. zool.*, i: 92.1874. " *Enum. syst. faune ent. mésoz.*, 6.1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 775. *Fig.* 977.1886. " *Zittel-Barrois, Traité de paléont.*, ii: 775. *Fig.* 994.1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 43-45. *Pl.* 4, *fig.* 8.See also *Heterophlebia æqualis*.

1079. *Stenophlebia amphitrite*. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1866. Hagen. Palaeontogr., xv: 83-86. *Pl. 3, fig. 1.*
 1866. " Neur. lithogr. schief., i: 27-30. *Pl. 3, fig. 1.*
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 43.

See also *Heterophlebia amphitrite*.

1080. *Stenophlebia phryne*. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1866. Hagen. Palaeontogr., xv: 91-92. *Pl. 1, fig. 5.*
 1866. " Neur. lithogr. schief., i: 35-36. *Pl. 1, fig. 5.*
 1886. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 43-45. *Pl. 4, fig. 4.*

See also *Heterophlebia phryne*, etc.

1081. *Tarsophlebia eximia*. (Odonata.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1866. Hagen. Palaeontogr., xv: 65-68. *Pl. 2, figs. 1-6, 11.*
 1866. " Neur. lithogr. schief., i: 9-12. *Pl. 2, figs. 1-6, 11.*
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 235.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 57-58.

See also *Heterophlebia eximia*, *Euphaea longiventris*.

1082. *Tarsophlebia westwoodi*. (Odonata.)

Locality: Dumbleton, England. Horizon: Lias.

1866. Hagen. Palaeontogr., xv: 65. *Pl. 2, fig. 10.*
 1866. " Neur. lithogr. schief., i: 9. *Pl. 2, fig. 10.*

See also *Heterophlebia westwoodi*.

1083. *Termes* ? ———.

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 116 (or staphylinid?). *Pl. 2, fig. 2.*

1084. *Termes fossilis*. (Termitina.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Period. zool., i: 86, 96. *Pl. 3, fig. 15.*
 1874. " Enum. syst. faune ent. mésoz., 10.

1085. *Termes grandævus*. (Termitina.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 119. *Pl. 2, fig. 5.*
 1858. Hagen. Linn. entom., xii: 181-182, 297
 1858. " Catal. neuropt. Brit. mus., 25.

See also *Termes* (*Entermes*) *grandævus*, *Meloe hoernsii*, *Flata haidingeri*, *Philon thus kneri*, *Prognaetha crassa*, ——— ——— Brodie, ii: 2, ii: 3.

1086 *Termes* (*Eutermes*) *grandævus*. (Termitina.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 295-296.

See also *Termes grandævus*, etc.

1087. *Termes heros.* (Termitina.)

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107, 114-115. *Pl.* 15, *fig.* 1.
 1863. Winkler. Catal. syst. coll. pal. mus. Teyl., 424.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.
 1874. " Periód. zool., i: 95.
 1874. " Énum. syst. faune ent. mésoz., 9.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 772.
 1886. " Zittel-Barrois, Traité de paléont., ii: 772.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 29.
 1888. Oppenheim. Palaeontogr., xxxiv: 226.*

Termes kneri.* See *Philonthus kneri.**1088. *Termes lithophilus.* (Termitina.)**

Localities: Eichstadt, Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 107, 115.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.
 1874. " Periód. zool., i: 95.
 1874. " Énum. syst. faune ent. mésoz., 9.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 772.
 1886. " Zittel-Barrois, Traité de paléont., ii: 772.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 29.
 1888. Oppenheim. Palaeontogr., xxxiv: 226.
 See also *Tineites lithophilus.*

1089. *Termes plagiatus.* (Termitina.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1858. Heer. Hagen, Linn. entom., xii: 181 (undescr.).

1090. *Termes troglodytes.* (Termitina.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1858. Heer. Hagen, Linn. entom., xii: 181 (undescr.).

1091. *Termitidium ignotum.* (Termitina.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. *Pl.* 15, *fig.* 16.
 See also *Hagla ignota.*

1092. *Tineites lithophilus.* (Termitina.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1842. Germar. Münst., Beitr. z. petref., v: 88-89. *Pl.* 9, *fig.* 8.
 1850. Heer. Verhandl. schweiz. gesellsch. ges. naturw., xxxiv: 81 (refers it to *Termes*).
 1850. " Geschichte d. insekt., 4.
 1850. " Neues jahrb. f. min., 1850: 18.
 1850. " Quart. journ. geol. soc. Lond., vi: 68.
 1852. Giebel. Deutschl. petref., 644.
 1856. " Insect. d. vorwelt, 192, 497.
 1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 48 (refers it to *Termes*).
 1862. " Palaeontogr., x: 113 (certainly a *Termes*).
 1877. Assmann. Ber. versamml. deutsch. naturf., i: 192 (a *Termes*).
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 813 (a *Termes*).
 1886. " Zittel-Barrois, Traité de paléont., ii: 814 (a *Termes*).
 1886. " Bull. U. S. geol. surv., No. 31: 95

See also *Termes lithophilus.*

1093. Trichopteridium gracile.

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 528. *Pl. 22, fig. 15.*
 1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 576.

1094. Uropetala koehleri. (Odonata.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 52-56. *Pl. 4, figs. 3, 11, 12.*
 See also Gomphus koehleri, Lindenia koehleri, Libellula koehleri, Petalura varia
 Æschna ——— Koehler.

1095. Zalmona brodiei.

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl. (Corydalis sp.). *Pl. 5, fig. 13.*
 1854. Goldenberg. Palaeontogr., iv (Corydalis). *Pl. 6, fig. 4.*
 1854. " Foss. ins. Saarbr. (Corydalis). *Pl. 4, fig. 4.*
 1856. Giebel. Insect. d. vorwelt, 266.
 See also Corydalis ———, etc.

HEMIPTERA.**1096. ——— ———.**

Localities: Forthampton, Apperley, Wainlode, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1097. ——— ———.

Locality: Weissig, Germany. Horizon: Lower Lias.

1873. E. Geinitz. Neues jahrb. min., 1873: 694. *Pl. 3, fig. 3.*
 1873. " Verstein. unter. dyas Weiss., 4. *Pl. 3, fig. 3.*

1098. ——— ——— (abdomen).

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 531. *Pl. 22, fig. 22.*

1099. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 8.*

1100. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 8.*

1101. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 18.*

1102. ——— ———. (Cercopidæ?)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 388, 393. *Pl. 14, fig. 6.*

1103. ————. (Cimicidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33 (Westw., 120). *Pl. 4, fig. 6.***1104.** ————. (Cimicidæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 128). *Pl. 7, fig. 22.***1105.** ————. (Cimicidæ.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

1106. ————. (Cimicidæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. *Pl. 15, fig. 25.***1107.** ————. (Cimicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 395. *Pl. 17, fig. 14.***1108.** ————. (Cimicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 4.***1109.** ————. (Cimicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396 (or Coleoptera). *Pl. 18, fig. 11.***1110.** ————. (Cimicidæ or Homoptera.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 17.***1111.** ————. (Cimicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 29.***1112.** ————. (Homoptera.)

Locality: Hasfield, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 127). *Pl. 7, fig. 15.***1113.** ————. (Homoptera.)

Locality: Hasfield, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 127). *Pl. 7, fig. 21.***1114.** ————. (larva). (Homoptera.)

Locality: Strensham, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1115. ————. (Homoptera.)

Locality: Binton, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1116. ———. (Homoptera.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

1117. ———. (Homoptera.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 395. *Pl. 17, fig. 11.***1118.** ———. (Homoptera or Cimicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 17.***1119.** ———. (Nepidæ?)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384.

1120. ———. (Nepidæ.)

Locality: Ridgway, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 396. *Pl. 18, fig. 14.***1121.** ———. (Pentatomidæ.)

Locality: England. Horizon: Lias.

1874. Brodie. Distr. corr. foss. ins., 19.

1122. ———. (Pentatomidæ?)

Locality: England. Horizon: Lias.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 381, 396. *Pl. 18, fig. 2.*
(Head of larva of Odonata.—S. H. S.)**Actea sphinx.** See II, COLEOPTERA, Idem.**1123. Aphis** ———. (Aphidæ.)

Locality: England. Horizon: Wealden.

1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 120. *Pl. 2, fig. 9.*
See also *Aphis dubia*.**1124. Aphis dubia.** (Aphidæ.)

Locality: England. Horizon: Wealden.

1856. Giebel. Insect. d. vorwelt, 389.
See also *Aphis* ——— Westwood.**1125. Aphis plana.** (Aphidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120. *Pl. 2, fig. 10.*

1856. Giebel. Insect. d. vorwelt, 389.

1126. Aphis valdensis. (Aphidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120. *Pl. 4, fig. 3.*

1856. Giebel. Insect. d. vorwelt, 388-389.

1883. Buckton. Monogr. Brit. aphid., iv: 148. *Pl. 132, figs. 4, 5.*1883. Scudder. Zittel, Handb. palaeont., i, th. ii: 780. *Fig. 987.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 780. *Fig. 1004.*

1886. " Bull. U. S. geol. surv., No. 31: 59.

1127. *Asira egertoni*. (Fulgoridæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 377 (Brodie, iv: 7).

See also *Asiraca egertoni*, *Asira kenngotti*.

1128. *Asira kenngotti*. (Fulgoridæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 377 (Brodie, iv: 8).

See also *Asiraca egertoni*, *Asira egertoni*.

1129. *Asiraca egertoni*. (Fulgoridæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120. Pl. 4, figs. 7, 8.

See also *Asira kenngotti*, *A. egertoni*.

1130. *Belostoma* ———. (Belostomatidæ.)

Locality: Wainlode, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1131. *Belostoma* ———. (Belostomatidæ.)

Locality: England. Horizon: Lias.

1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 127. Pl. 10, fig. 13.

See also *Belostoma liasina*.

1132. *Belostoma deperdita*. (Belostomatidæ.)

Locality: Soleuhofen, Bavaria. Horizon: Jura.

1877. Assmann. Ber. versamml. deutsch. naturf., i: 192 (Belostomum).

1886. Deichmüller. Ins. lith. schichten dresd. mus., 61-63. Pl. 5, figs. 1-3.

1888. Oppenheim. Palaeontogr., xxxiv: 233-234. Pl. 31, fig. 3.

See also *Belostoma hartingi*, *Scarabæus deperditus*, etc., *Scarabæides deperditus*, *Hydrophilus deperditus*.

***Belostoma elongata*. See II, HYMENOPTERA, Idem.**

1133. *Belostoma hartingi*. (Belostomatidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 263-270 (Belostomum). Pl. 35, fig. 20.

1869. " Ins. foss. calc. lithogr., 22-24. Pl. 2, fig. 20.

1869. " Tijdschr. v. ent., (2), iv: 233 [133].

1874. " Periód. zool., i: 83, 100.

1874. " Enum. syst. faune ent. mésoz., 14.

See also *Belostoma deperdita*, etc.

1134. *Belostoma liasina*. (Belostomatidæ.)

Locality: England. Horizon: Lias.

1856. Giebel. Insect. d. vorwelt, 371 (Belostomum).

See also *Belostoma* ——— Westwood.

***Belostoma schroeteri*. See II, HYMENOPTERA, Idem.**

***Belostomum deperditum*. See *Belostoma deperdita*.**

***Belostomum hartingi*. See *Belostoma hartingi*.**

***Belostomum liasinum*. See *Belostoma liasina*.**

1135. *Cercopidium* ———. (*Cercopidae*.)

Locality: Dobbertin, Mecklenburg. Horizon: Jura.

1883. E. Geinitz. Flötform. Mecklenb., 32 (name only).

1136. *Cercopidium hahnii*. (*Cercopidae*.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 3.*

1856. Giebel. Insect. d. vorwelt, 388.

1137. *Cercopidium heeri*. (*Cercopidae*.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 529. *Pl. 22, fig. 17.*1885. Scudder. Zittel, Handb. palaeont., i. th. ii: 781. *Fig. 991.*1886. " Zittel-Barrois, Traité de paléout., ii: 781. *Fig. 1008.*See also *Cercopis heeri*.**1138. *Cercopidium mimas*. (*Cercopidae*.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 393-394. *Pl. 15, fig. 3.*See also *Cercopis mimas*.**1139. *Cercopidium minutum*. (*Cercopidae*.)**

Locality: Schaubelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91. *Pl. 8, fig. 29.*1872. " Monde prim. Suisse, 111. *Pl. 8, fig. 29.*1876. " Prim. world Switz., i: 91. *Pl. 8, fig. 29.*1879. " Urwelt der Schweiz, 2^e Aufl., 101. *Pl. 8, fig. 29.***1140. *Cercopidium morio*. (*Cercopidae*.)**

Locality: Schaubelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91. *Pl. 8, fig. 30.*1872. " Monde prim. Suisse, 111. *Pl. 8, fig. 30.*1876. " Prim. world Switz., i: 91. *Pl. 8, fig. 30.*1879. " Urwelt der Schweiz, 2^e Aufl., 101. *Pl. 8, fig. 30.***1141. *Cercopidium schaefferi*. (*Cercopidae*.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 5.*See also *Cercopis schaefferi*.**1142. *Cercopidium signoretii*. (*Cercopidae*.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 36.*See also *Cercopis signoretii*.**1143. *Cercopidium telesphorus*. (*Cercopidae*.)**

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. *Pl. 15, fig. 14**.*1886. Scudder. Mem. Bost. soc. nat. hist., iii: 451. *Pl. 48, figs. 8c, 13.*1890. " Foss. ins. N. A., i: 343. *Pl. 22, figs. 8c, 13.*See also *Cercopis telesphorus*.

1144. *Cercopidium trigonale.* (Cercopidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. geol. soc. Lond., x: 396 (unnamed). *Pl. 18, fig. 4.*

1856. Giebel. Insect. d. vorwelt, 388.

1145. *Cercopis* ———. (Cercopidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33. *Pl. 2, fig. 12; pl. 4, fig. 9.*

1856. Giebel. Insect. d. vorwelt, 382.

1146. *Cercopis heeri.* (Cercopidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 581.

See also *Cercopidium heeri*.

1147. *Cercopis jurassica.* (Cercopidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 581-582. *Pl. 13, fig. 25.*

1148. *Cercopis mimas.* (Cercopidæ.)

Locality: England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 379.

See also *Cercopidium mimas*.

1149. *Cercopis prisca.* (Cercopidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. *Period. zool.*, i: 86. *Pl. 3, fig. 10.*

See also *Cicada prisca*.

1150. *Cercopis schaefferi.* (Cercopidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 379.

See also *Cercopidium schaefferi*.

1151. *Cercopis signoretii.* (Cercopidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 379-380.

See also *Cercopidium signoretii*.

1152. *Cercopis telesphorus.* (Cercopidæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1856. Giebel. Insect. d. vorwelt, 379.

See also *Cercopidium telesphorus*.

1153. *Cercopyllis adolescens.* (Cercopidæ.)

Locality: Fairplay, Colo. Horizon: Trias.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 472. *Pl. 42, fig. 12.*

1890. " Foss. ins. N. A., i: 448. *Pl. 34, fig. 12.*

1154. *Cercopyllis delicatula*. (Cercopidae.)

Locality: Fairplay, Colo. Horizon: Trias.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 471. Pl. 42, fig. 11.

1890. " Foss. ins. N. A., i: 447. Pl. 34, fig. 11.

1155. *Cercopyllis justiciæ*. (Cercopidae.)

Locality: Fairplay, Colo. Horizon: Trias.

1890. Scudder. Mem. Bost. soc. nat. hist., iv: 471. Pl. 42, fig. 6.

1890. " Foss. ins. N. A., i: 447. Pl. 34, fig. 6.

1156. *Cicada* ——— (pupa). (Stridulantiæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 8, 16.

1157. *Cicada* ———.

Locality: Strensham, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16 ("like *Meloe*"!).**1158. *Cicada* ———.**

Locality: England. Horizon: Lias.

1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 127. Pl. 10, fig. 7.

Cicada dubia. See II, ORTHOPTERA, *Gryllites dubius*.**1159. *Cicada gigantea*. (Stridulantiæ.)**

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 85, 101. Pl. 3, fig. 4.

1874. " Énum. syst. faune ent. mésoz., 15.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 60.

See also *Eocicada microcephala*.**1160. *Cicada purchisoni*.**

Locality: Hasfield, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101, 127. Pl. 7, fig. 20.

1856. Giebel. Insect. d. vorwelt, 373-374.

1871. Phillips. Geology of Oxford, 123.

1161. *Cicada prisca*. (Cercopidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 101.

1874. " Énum. syst. faune ent. mésoz., 15.

See also *Cercopis prisca*.**1162. *Cicada proserpina*. (Stridulantiæ.)**

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 86, 100. Pl. 3, fig. 9.

1874. " Énum. syst. faune ent. mésoz., 14.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 60.

1163. *Cicada psocus*. (Cercopidae.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1856. Giebel. Insect. d. vorwelt, 374.

See also *Cicadellium psocus*.

1164. Cicada punctata. (Cicadellina.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120. *Pl. 5, fig. 4.*

1856. Giebel. Insect. d. vorwelt, 374.

1165. Cicadellium dipsas. (Cercopidae.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 393-394. *Pl. 15, fig. 6,*
upper left-hand fig.

1166. Cicadellium psocus. (Cercopidae.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. *Pl. 15, fig. 18.*

See also *Cicada psocus*.

1167. Cicadinella ———. (Cercopidae.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 582.

1168. Cimex ———. (Cimicidae.)

Locality: Strensham, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1169. Cimicidium dallasii. (Lygaeidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 395. *Pl. 17, fig. 15.*

See all *Lygaeites dallasii*.

Cixia maculata. See *Cixius maculatus*.

1170. Cixius maculatus. (Fulgoroidea.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120. *Pl. 2, fig. 8.*

1856. Giebel. Insect. d. vorwelt, 377 (*Cixia*).

1171. Corixa ? ———. (Notonectidae.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 235. *Pl. 30, fig. 15.*

1172. Corixa mortua. (Notonectidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 268. *Pl. 35, figs. 18, 18a.*

1869. " Ins. foss. calc. lithogr., 22. *Pl. 2, figs. 18, 18a.*

1869. " Tijdschr. v. ent., (2), iv: 233 [133].

1874. " Periód. zool., i: 99.

1874. " Énum. syst. faune ent. mésoz., 13.

1173. Cyclocoris pinguis. (Coreidae.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91. *Pl. 8, fig. 27.*

1872. " Monde prim. Suisse, 111. *Pl. 8, fig. 27.*

1876. " Prim. world Switz., i: 91. *Pl. 8, fig. 27.*

1879. " Urwelt der Schweiz, 2^e anil., 101. *Pl. 8, fig. 27.*

1174. *Delphax pulcher.* (Fulgoridæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120. *Pl.* 5, *fig.* 17.

1856. Giebel. Insect. d. vorwelt, 378.

Ditomoptera dubia. See II, COLEOPTERA, Idem.

1175. *Eocicada microcephala.* (Stridulantiæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palæontogr., xxxiv: 229. *Pl.* 31, *fig.* 30.

See also *Cicada gigantea.*

Flata haidingeri. See II, NEUROPTERA, Idem.

Hagenia schroeteri. See II, HYMENOPTERA, Idem.

Halometra gigantea. See II, ORTHOPTERA, Idem.

Halometra minor. See II, ORTHOPTERA, Idem.

1176. *Hydrometra* ———. (Hydrometridæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33 (Westwood, 121).

1177. *Hydrophilus deperditus.* (Belostomatidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. *Periód. zool.*, i: 83-84.

See also *Belostoma deperdita*, etc.

1178. *Ischyopteron suprajurense.* (Geocorisæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palæontogr., xxxiv: 230. *Pl.* 30, *fig.* 7.

1179. *Kleidocerys* or *Pachymerus* ———.

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120. *Pl.* 2, *fig.* 11.

1180. *Lygæites dallasii.* (Lygæidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 360.

See also *Cimicidium dallasii.*

1181. *Lygæites furcatus.* (Lygæidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 395 (unnamed). *Pl.* 17, *fig.* 14.

1856. Giebel. Insect. d. vorwelt, 360.

1182. *Lygæites priscus.* (Lygæidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 396 (unnamed). *Pl.* 18, *fig.* 11.

1856. Giebel. Insect. d. vorwelt, 360.

1183. *Lystra vollenhovenii*. (Fulgoridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 271-272. Pl. 36, fig. 24.
 1869. " Ins. foss. calc. lithogr., 25-26. Pl. 3, fig. 24.
 1869. " Tijdschr. v. ent., (2), iv: 234 [134].
 1874. " Periód. zool., i: 100.
 1874. " Énum. syst. faune ent. mésoz., 14.

1184. *Molobius* ———.

Locality: England. Horizon: Lower Purbecks.

1873. Brodie. Distr. corr. foss. ins., 14.
 (I do not find any hemipterous genus of this name.)

1185. *Naucoris carinata*. (Naucoridæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 235. Pl. 30, fig. 14.

1186. *Naucoris lapidarius*. (Naucoridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 267-268. Pl. 35, figs. 19, 19a.
 1869. " Ins. foss. calc. lithogr., 21-22. Pl. 2, figs. 19, 19a.
 1869. " Tijdschr. v. ent., (2), iv: 233 [133].
 1874. " Periód. zool., i: 99.
 1874. " Énum. syst. faune ent. mésoz., 13.
 1885. Scudder. Zittel, Handb. palaeont., i, ii: 782.
 1886. " Zittel-Barrois, Traité de paléont., ii: 782.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 63-64. Pl. 5, fig. 6.
 1888. Oppenheim. Palaeontogr., xxxiv: 234. Pl. 30, fig. 16.

1187. *Nepa primordialis*. (Nepidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.
 1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 206-207. Pl. 22, fig. 7.
 1852. Giebel. Deutschl. petref., 636.
 1856. " Insect. d. vorwelt., 370.
 1862. Hagen. Palaeontogr., x: 111.
 1863. Winkler. Cat. syst. coll. pal. mus. Teyl., 422.
 1869. Weyenbergh. Arch. mus. Teyl., ii: 273. Pl. 35, figs. 22, 22a.
 1869. " Ins. foss. calc. lithogr., 27. Pl. 2, figs. 22, 22a.
 1869. " Tijdschr. v. ent., (2), iv: 233 [133].
 1874. " Periód. zool., i: 99.
 1874. " Énum. syst. faune ent. mésoz., 13.
 1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192.
 1885. Scudder. Zittel, Handb. palaeont., i, ii: 782.
 1886. " Zittel-Barrois, Traité de paleont., ii: 782.
 1886. Deichmüller. Ins. lith. schichten dresd. mus., 60-61. Pl. 5, figs. 4-5.
 1888. Oppenheim. Palaeontogr., xxxiv: 234. Pl. 31, fig. 11.

1188. *Nepidium stolones*. (Nepidæ.)

Locality: Ridgway, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 396. Pl. 18, fig. 9.

1189. Neurocoris ———. (Pentatomidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl. 17, fig. 11.*

1856. Giebel. Insect. d. vorwelt, 339.

1190. Notonecta elterleini. (Notonectidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 64. *Pl. 5, fig. 7.*

Pachymeria ———. See *Pachymerus* ———.

1191. Pachymeridium dubium. (Lygæidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 529-530. *Pl. 22, fig. 18.*

1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 582.

1192. Pachymerus (or **Kleidocerys**) ———. (Lygæidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120 (*Pachymeria*). *Pl. 2, fig. 11.*

1193. Pachymerus zucholdi. (Lygæidæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (unnamed). *Pl. 7, fig. 22.*

1856. Giebel. Insect. d. vorwelt, 356.

1194. Palæontina oolitica. (Stridulantiæ.)

Locality: Stonesfield, England. Horizon: Stonesfield Slate.

1873. Butler. Lepid. exot., xv: 126-127. *Pl. 48, figs. 1-2*

1873. " Geol. mag., x: 2, 3. *Pl. 1, figs. 1, 2.*

1873. Brodie. Distr. corr. foss. ins., 8 (unnamed).

1874. " Distr. corr. foss. ins., 8-9 (unnamed).

1874. Butler. Geol. mag., (2), i: 446-449. *Pl. 19.*

1874. Scudder. Proc. Bost. soc. nat. hist., xvi: 112 (unnamed).

1875. " Foss. butt., 89-95. *Figs. 4-8.*

1877. Kirby. Syn. cat. diurn. Lep., suppl., 717.

1879. Goss. Proc. geol. assoc., vi: 127.

1879. " Ins. fauna mésoz. per., ii: 14.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 782. *Fig. 993.*

1886. " Zittel-Barrois, Traité de paléont., ii: 782. *Fig. 1010.*

1886. " Bull. U. S. geol. surv., No. 31: 61.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 60.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 14-15. *Pl. [2],*
{enb.-Ganglb.} *fig. 18a.*

1195. Prolystra lithographica. (Fulgoridæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palæontogr., xxxiv: 228. *Pl. 31, fig. 1.*

1196. Phragmatœcites damesii. (Stridulantiæ.)

Locality: East Siberia. Horizon: Brown Jura

1885. Oppenheim. Berl. entom. zeitschr., xxix: 333. *Pl. 10, figs. 2, 3.*

1886. Scudder. Zittel-Barrois, Traité de paléont., ii: 814, note.

1886. " Bull. U. S. geol. surv., No. 31: 96.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15, 15-16. *Pl. [2],*
{enb.-Ganglb.} *fig. 19.*

Propycolampis bronni. See II, ORTHOPT., Idem.

1197. *Protocoris insignis*. (Coreidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91. *Pl. 8, fig. 28.*
 1872. " Monde prim. Suisse, 111. *Pl. 8, fig. 28.*
 1876. " Prim. world Switz., i: 91. *Pl. 8, fig. 28.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 101. *Pl. 8, fig. 28.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 785. *Fig. 1001.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 785. *Fig. 1018.*

1198. *Protocoris ovalis*. (Coreidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91.
 1872. " Monde prim. Suisse, 111.
 1876. " Prim. world Switz., i: 91.
 1879. " Urwelt der Schweiz, 2^e Aufl., 101.

1199. *Protocoris planus*. (Coreidæ.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 15. *Pl., figs. 44-45.*
 1856. Giebel. Insect. d. vorwelt, 498.

Pygolampis gigantea. See II, ORTHOPT., Idem.

1200. *Ricania fulgens*. (Fulgoridæ.)

Locality: Vale of Wardour, England. Horizon: Purbeck.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 120. *Pl. 4, fig. 12.*
 1856. Giebel. Insect. d. vorwelt, 376.

Ricania gigas. See II, ORTHOPT., Idem.

Ricania hospes. See II, ORTHOPT., Idem.

1201. *Scarabæoides deperditus*. (Belostomatidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 218-220. *Pl. 23, fig. 17.*
 1852. Quenstedt. Handb. petref., 313. *Pl. 24, fig. 5.*
 1856. Giebel. Insect. d. vorwelt, 36.
 1862. Hagen. Palæontogr., x: 110 (not a beetle, resembles *Belostoma*).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 233 [133], (*Scarabæoides*).
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 782, 802. *Fig. 994.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 782. *Fig. 1011.*
 1886. " Bull. U. S. geol. surv., No. 31: 61, 73, 82.

See also *Belostoma deperdita*, etc.

Scarabæoides deperditus. See *Scarabæoides deperditus*.

1202. *Scarabæus deperditus*. (Belostomatidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1873. Weyenbergh. Arch. mus. Teyl., iii: 239-240.
 1873. " Notes ins. calc. jurass., 6-7.
 1874. " Períod. zool., i: 103.
 1874. " Énum. syst. faune ent. mésoz., 17.

See also *Belostoma deperdita*, etc.

1203. Sphærodema jurassicum.

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 235. Pl. 31, fig. 10.

1204. Tettigonia ———. (Jassides.)

Locality: Belyaux, Luxembourg. Horizon: Bathonian.

1875. Borre. Comptes rend. soc. ent. Belg., (2), xviii: 17 (belongs to Diptera).

1880. " Mourlon, Geol. Belg., i: 144.

1205. Tettigonia ———. (Jassides.)

Locality: Wainbode, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1206. Velia ———. (Veliidae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33 (Westw., 121).

1207. Velia cernuta. (Veliidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 86, 98. Pl. 3, fig. 11.

1874. " Énum. syst. faune ent. mésoz., 12.

COLEOPTERA.**1208. ——— ——— (several).**

Localities: Bexhill, Gover's Cliff End, East Cliff, England. Horizon: Wealden.

1854. Binfield. Quart. journ. geol. soc. Lond., x: 172, 173, 174, 175.

1209. ——— ———.

Compared with *Necrodes littoralis*.

Locality: Ust-Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 20.
 {enb-Gangib.}

1210. ——— ——— (pupa).

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westwood, 116). Pl. 3, fig. 6.

1211. ——— ——— (3 sp.).

Locality: Farleigh, near Bath, England. Horizon: Forest Marble.

1845. Brodie. Foss. ins. sec. rocks Engl., 37.

1873. " Distr. corr. foss. ins., 13.

1212. ——— ———.

Locality: Swindon, England. Horizon: Purbecks?

1846. Brodie. Quart. journ. geol. soc. Lond., iii: 53.

1213. ——— ———.

Locality: Ringstead Bay, England. Horizon: Kimmeridge Clay.

1853. Brodie. Quart. journ. geol. soc. Lond., ix: 52.

1873. " Distr. corr. foss. ins., 13.

1214. ——— ———.

Locality: Hastings Sands, Isle of Wight, England. Horizon: Neocomian.
1853. Brodie. Quart. journ. geol. soc. Lond., ix: 52, note.

1215. ——— ———.

Locality: Hastings, England. Horizon: Wealden (base).
1873. Brodie. Distr. corr. foss. ins., 12.

1216. ——— ———.

Locality: Isle of Wight, England. Horizon: Wealden.
1873. Brodie. Distr. corr. foss. ins., 12.

1217. ——— ———.

Locality: Eastern Moorlands, Yorkshire, England. Horizon: Great Oolite.
1873. Brodie. Distr. corr. foss. ins., 13.

1218. ——— ———.

Localities: Dumbleton, Alderton, England. Horizon: Upper Lias.
1873. Brodie Distr. corr. foss. ins., 15.

1219. ——— ———.

Locality: The Leigh, England. Horizon: Lima Shales.
1873. Brodie. Distr. corr. foss. ins., 16.

1220. ——— ——— (aquatic).

Locality: Wainlode, England. Horizon: Lower Lias.
1873. Brodie. Distr. corr. foss. ins., 16.

1221. ——— ———.

Locality: Westbury, England. Horizon: Lower Lias.
1873. Brodie. Distr. corr. foss. ins., 16.

1222. ——— ———.

Locality: Hotham, Yorkshire, England. Horizon: Lower Lias.
1874. Brodie. Distr. corr. foss. ins., 20.

1223. ——— ——— (under surface anal segment).

Locality: Hotham, England. Horizon: Lower Lias.
1874. Brodie. Distr. corr. foss. ins., 20.

1224. ——— ——— (under wings).

Locality: England. Horizon: Lias.
1874. Brodie. Distr. corr. foss. ins., 20.

1225. ——— ———.

Locality: Copt Heath, near Knowle, England. Horizon: Lower Lias.
1875. Brodie. Lower Lias Eatington, etc., 10.

1226. ———.

Localities: Brown's Wood and Stoooper's Wood, near Henley, Arden, England. Horizon: Lias.

1875. Brodie. Lower Lias Eatington, etc., 10.

1227. ——— (borings).

Locality: Roschutz, Germany. Horizon: Quadersandstein.

1839. Geinitz. Charakt. sächs. kreidegeb., 13-14. *Pl. 6, figs. 2-3.*

1228. ———.

Locality: Ilminster, England. Horizon: Upper Lias.

1878. Goss. Proc. geol. assoc., vi: 130.

1878. " Ins. fauna mesoz. per., ii: 17.

1229. ——— (2 or 3 sp.).

Locality: Stonesfield, England. Horizon: Oolite.

1822. Conyb.-Phill. Geol. Engl. Wales, 205.

1230. ———.

Locality: Bohemia. Horizon: Cretaceons.

1869. Frič. Arch. naturw. landesdurchf. Böhmens, i, ii: 188. *Pl. 3, fig. 7.*

See also *Silphites priscus*.

1231. ———.

Locality: Dobbertin, Mecklenburg. Horizon: Lower Jura.

1880. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 530. *Pl. 22, fig. 21.*

1232. ———.

Locality: Kotá, India. Horizon: Lias?

1861. Hislop. Quart. journ. geol. soc. Lond., xvii, i: 354.

1233. ———.

Locality: Wateringbury, England. Horizon: Wealden.

1846. Mantell. Quart. journ. geol. soc. Lond., ii: 96.

1234. ———.

Locality: Near Stone, Buckinghamshire, England. Horizon: Wealden (?)

1847. Mantell. Geol. exc. Isle of Wight, 400.

1235. ———.

Locality: Kent, England. Horizon: Wealden (?)

1847. Mantell. Geol. exc. Isle of Wight, 400.

1236. ———.

Locality: England. Horizon: Purbecks.

1854. Mantell. Medals of creation, 2d ed., ii: 556. *Fig. 182c.*

1237. ———.

Locality: England. Horizon: Purbecks.

1854. Mantell. Medals of creation, 2d ed., ii: 556. *Fig. 182d.*

1238. ——— ———.

- Locality: England. Horizon: Purbecks.
 1854. Mantell. Medals of creation, 2d ed., ii: 556. *Fig. 182e.*

1239. ——— ———.

- Locality: England. Horizon: Upper Lias.
 1845. Murchison. Geol. Cheltenham, 81, 108. *Pl. 8, fig. 4.*

1240. ——— ——— (several).

- Locality: England. Horizon: Lower Lias.
 1845. Murchison. Geol. Cheltenham, 81, 108. *Pl. 9, figs. 2, 3, 4b, 5.*

1241. ——— ——— (larva).

- Locality: Kehlheim, Bavaria. Horizon: Jura.
 1852. Quenstedt. Handb. petref., 318 (Raupe? oder käfer-larve). *Pl. 24, fig. 17.*

1242. ——— ———.

- Locality: Krälah bei Hildesheim, Germany. Horizon: Rhætic.
 1876. Roemer. Zeitschr. deutsch. geol. gesellsch., xxviii: 352. *Fig. 3.*

1243. ——— ———.

- Locality: Stonesfield, England. Horizon: ?
 1830. Taylor. Loud., mag. nat hist., iii: 361.

1244. ——— ———.

- Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
 1854. Westwood. Quart. journ. geol. soc. Lond., x: 387-388, 393. *Pl. 14, fig. 4.*

1245. ——— ———.

- Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
 1854. Westwood. Quart. journ. geol. soc. Lond., x: 393. *Pl. 14, fig. 9.*

1246. ——— ———.

- Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
 1854. Westwood. Quart. journ. geol. soc. Lond., x: 393. *Pl. 14, fig. 10.*

1247. ——— ———.

- Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
 1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 393. *Pl. 14, fig. 14.*

1248. ——— ———.

- Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
 1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 393. *Pl. 14, fig. 15.*

1249. ——— ———.

- Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
 1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 393. *Pl. 14, fig. 16.*

1250. ——— ———.

- Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
 1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 393. *Pl. 14, fig. 17.*

1251. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 393. *Pl. 14, fig. 18.*

1252. ———.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 10.*

1253. ———.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 11.*

1254. ———.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 12.*

1255. ———.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 13, upper left fig.*

1256. ———.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 13, upper right fig.*

1257. ———.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 13, lower right fig.*

1258. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 394. *Pl. 16, fig. 2.*

1259. ——— (many sp.).

Locality: Ridgway, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384-385, 394. *Pl. 16, fig. 3.*

1260. ———.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 394. *Pl. 16, fig. 7.*

1261. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 395. *Pl. 16, fig. 12.*

1262. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 14.*

1263. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 395. *Pl. 16, fig. 15.*

1264. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 16.*

1265. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 395. *Pl. 16, fig. 17.*

1266. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 18.*

1267. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 395. *Pl. 16, fig. 19.*

1268. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 20.*

1269. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 21.*

1270. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 395. *Pl. 16, fig. 24.*

1271. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 25.*

1272. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 26.*

1273. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 27.*

1274. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395. *Pl. 16, fig. 28.*

1275. ——— ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 1.*

1276. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 2.*

1277. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 6.*

1278. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386-387, 395. *Pl. 17, fig. 9.*

1279. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 6.*

1280. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 11.*
(Or Hemiptera, Cimicidæ.)

1281. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 10.*

1282. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 16.*

1283. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 18.*

1284. ———.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 19.*

1285. ——— (2 sp.?).

Locality: Swanage Bay, England. Horizon: Hastings Sands, Wealden.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 382.

1286. ———.

Locality: Ridgway, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 385 (3½ lines long).

1287. ———. (Blapsidæ.)

Locality: Sevenhampton, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 48. *Pl. 6, fig. 16.*

1288. ———. (Buprestidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 116). *Pl. 6, fig. 1.*

1289. — — — —. (Buprestidæ.)

Locality: Vale of Wardour, England. Horizon: Purbeck.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl. 6, fig. 10.***1290.** — — — —. (Buprestidæ.)

Localities: Sevenhampton and Eyeford, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 48. *Pl. 6, fig. 17.***1291.** — — — —. (Buprestidæ.)

Localities: Sevenhampton and Eyeford, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 48. *Pl. 6, fig. 18.***1292.** — — — —. (Buprestidæ.)

Localities: Sevenhampton and Eyeford, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 48. *Pl. 6, fig. 19.***1293.** — — — —. (Buprestidæ or Elateridæ.)

Localities: Wainlode, Apperley, Brockeridge, Churchdown, Aust, England.

Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl. 6, fig. 23.***1294.** — — — —. (Buprestidæ or Elateridæ.)

Localities: Wainlode, Apperley, Brockeridge, Churchdown, Aust, England.

Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl. 6, fig. 24.***1295.** — — — —. (Buprestidæ or Elateridæ.)

Localities: Wainlode, Apperley, Brockeridge, Churchdown, Aust, England.

Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl. 6, fig. 25.***1296.** — — — —. (Buprestidæ or Elateridæ.)

Localities: Wainlode, Apperley, Brockeridge, Churchdown, Aust, England.

Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl. 6, fig. 26.***1297.** — — — —. (Buprestidæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl. 10, fig. 1.***1298.** — — — — (abdomen). (Buprestidæ?)

Locality: Högånäs, Sweden. Horizon: Rhætic.

1878. Heer. Förhandl. geol. fören. Stockh., iv: 196. *Pl. 13, figs. 7, 7b.***1299.** — — — —. (Buprestidæ.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

1300. — — — — (larva). (Carabidæ?)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 20.
{enb.-Ganglb.}

1301. ————. (Carabidæ.)

Localities: Apperley, Brockeridge, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl.* 6, *fig.* 28.**1302.** ————. (Carabidæ.)

Localities: Apperley, Brockeridge, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl.* 10, *fig.* 2.**1303.** ————. (Carabidæ.)

Locality: The Vallis, near Frome, England. Horizon: Lower Oolite.

1861. Moore. Quart. journ. geol. soc. Lond., xvii: 513.

1304. ————. (Carabidæ.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

1305. ————. (Carabidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 380, 394. *Pl.* 16, *fig.* 1.**1306.** ————. (Carabidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 394. *Pl.* 16, *fig.* 10.**1307.** ————. (Carabidæ?)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 395. *Pl.* 16, *fig.* 30.**1308.** ————. (Carabidæ-Harpalina, or Chrysomelidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl.* 6, *fig.* 3.**1309.** ————. (Carabidæ-Harpalina.)

Localities: Binton, Wilmcote, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1310. ————. (Cerambycidæ-Prionini.)

Localities: Sevenhampton and Eyeford, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 47. *Pl.* 6, *fig.* 15.**1311.** ————. (Cerambycidæ-Prionini.)

Locality: England. Horizon: Stonesfield Slate.

1841. Westwood. Trans. ent. soc. Lond., iv, proc., 40.

See also Buprestis ————Buckland, xlvi^u: 4-9.**1312.** ————. (Chrysomelidæ or Hydrophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl.* 6, *fig.* 12.**1313.** ————. (Chrysomelidæ or Tenebrionidæ-Pimeliinæ.)

Locality: Eyeford, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 47. *Pl.* 6, *fig.* 20.

- 1314.** ————. (Chrysomelidæ or Curculionidæ.)
 Locality: Hasfield, England. Horizon: Lower Lias.
1845. Brodie. Foss. ins. sec. rocks Engl., 101. *Pl. 6, fig. 27.*
- 1315.** ————. (Chrysomelidæ or Curculionidæ.)
 Locality: Hasfield, England. Horizon: Lower Lias.
1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl. 6, fig. 32.*
- 1316.** ————. (Chrysomelidæ or Curculionidæ.)
 Locality: Hasfield, England. Horizon: Lower Lias.
1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl. 6, fig. 33.*
- 1317.** ————. (Chrysomelidæ or Curculionidæ.)
 Locality: Hasfield, England. Horizon: Lower Lias.
1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl. 6, fig. 34.*
- 1318.** ————. (Chrysomelidæ.)
 Locality: Forthampton, England. Horizon: Lower Lias.
1845. Brodie. Foss. ins. sec. rocks Engl., 101. *Pl. 7, fig. 7.*
- 1319.** ————. (Chrysomelidæ or Curculionidæ.)
 Locality: Apperley, England. Horizon: Lower Lias.
1873. Brodie. Distr. corr. foss. ins., 16.
- 1320.** ————. (Chrysomelidæ.)
 Locality: England. Horizon: Lias.
1871. Phillips. Geology of Oxford, 123.
- 1321.** ————. (Chrysomelidæ or Curculionidæ.)
 Locality: Vale of Wardour, England. Horizon: Purbecks.
1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 32, 117. *Pl. 6, fig. 14.*
- (Chrysomelidæ or Carabidæ-Harpalina). See ————— (Carabidæ-Harpalina) Brodie, vi: 3.
- 1322.** ————. (Coccinellidæ?)
 Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 9.*
- 1323.** ————. (Coccinellidæ?)
 Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 394. *Pl. 16, fig. 8.*
- 1324.** ————. (Coccinellidæ?)
 Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 394. *Pl. 16, fig. 9.*
- 1325.** ————. (Curculionidæ.)
 Locality: Ust Balei, Siberia. Horizon: Lias.
1889. {Brauer - Redt-} Mém. ac ad. sc. St.-Pétersb., (7), xxxvi, No. 15: 19. *Pl. [2], fig.*
 {enb.-Ganglb.} 24.

1326. ————. (Curculionidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl. 6, fig. 4.***1327.** ————. (Curculionidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl. 6, fig. 8.***1328.** ————. (Curculionidæ.)

Localities: Eyeford, Stonesfield, England. Horizon: Stonesfield slate.

1873. Brodie. Distr. corr. foss. ins., 14.

1329. ————. (Curculionidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 395. *Pl. 16, fig. 33.*————— (Curculionidæ or Chrysomelidæ.) See ———— (Chrysomelidæ)
Brodie, vi: 14.————— (Curculionidæ or Chrysomelidæ.) See ———— (Chrysomelidæ)
Brodie, vi: 27.————— (Curculionidæ or Chrysomelidæ.) See ———— (Chrysomelidæ)
Brodie, vi: 32.————— (Curculionidæ or Chrysomelidæ.) See ———— (Chrysomelidæ)
Brodie, vi: 33.————— (Curculionidæ or Chrysomelidæ.) See ———— (Chrysomelidæ)
Brodie, vi: 34.————— (Curculionidæ or Chrysomelidæ.) See ———— (Chrysomelidæ)
Brodie, Distr. foss. ins., 16.**1330.** ————. (Dytiscidæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 13, large fig.***1331.** ————. (Elateridæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl. 6, fig. 6.***1332.** ————. (Elateridæ.)

Locality: Vale of Aylesbury, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl. 6, fig. 7.***1333.** ————. (Elateridæ.)

Locality: Apperley, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101. *Pl. 7, fig. 1.***1334.** ————. (Elateridæ.)

Locality: Apperley, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101. *Pl. 7, fig. 2.*

1335. ————. (Elateridæ.)

Localities: Wainlode, Westbury, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1336. ————. (Elateridæ or Lampyridæ-Telephorini.)

Localities: Brown's Wood and Stoooper's Wood, near Henley in Arden, England.

Horizon: Lias.

1875. Brodie. Lower Lias Eatington, etc., 10.

——— (Elateridæ or Buprestidæ). See ——— (Buprestidæ) Brodie, vi: 23.

——— (Elateridæ or Buprestidæ). See ——— (Buprestidæ) Brodie, vi: 24.

——— (Elateridæ or Buprestidæ). See ——— (Buprestidæ) Brodie, vi: 25.

——— (Elateridæ or Buprestidæ). See ——— (Buprestidæ) Brodie, vi: 26.

1337. ————. (Hydrophilidæ-Helophorini.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl.* 6, *fig.* 13.

——— (Hydrophilidæ or Chrysomelidæ). See ——— (Chrysomelidæ) Brodie, vi: 12.

1338. ————. (Lampyridæ-Telephorini.)

Locality: Forthampton, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (Westw., 124). *Pl.* 6, *fig.* 29.**1339.** ————. (Lampyridæ-Telephorini.)

Localities: Wainlode, Brown's Wood, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1340. ————. (Lampyridæ-Telephorini.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

——— (Lampyridæ-Telephorini, or Elateridæ). See ——— (Elateridæ) Brodie, Lower Lias, 10).

1341. ————. (Meloidæ-Cantharini.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl.* 6, *fig.* 11.**1342.** ————. (Rhynchophora.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 116). *Pl.* 3, *fig.* 4.

——— (Staphylinidæ). See II. NEUROPTERA, Idem.

1343. ————. (Tenebrionidae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 116). *Pl.* 6, *fig.* 2.

————— (Tenebrionidae-Pimeliinae, or Chrysomelidae). See ————
(Chrysomelidae) Brodie, vi: 20.

1344. Actea sphinx. (Buprestidae.)

Localities: Kelheim, Solenhofen, Bavaria. Horizon: Jura.

1842. Münster. MSS.

1842. Germar. Münster, Beitr. z. petref., v: 85-87. *Pl.* 9, *fig.* 6.

1852. Giebel. Deutschl. petref., 637.

1862. Hagen. Palaeontogr., x: 111 (Hemipteron).

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 233 [133].

1874. " Period. zool., i: 100.

1874. " Enum. syst. faune ent. mésoz., 14.

1877. Assmann. Ber. versammul. deutsch. naturf., 1: 192 (= *Chrysobothris veterana*).

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 782.

1886. " Zittel Barrois, Traité de paléont., ii: 782.

See also *Sphenoptera sphinx*, etc.

1345. Agrilium cyllabacus. (Buprestidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 389, 395. *Pl.* 16, *fig.* 32.

See also *Agrilus cyllabacus*.

1346. Agrilium cyllarus. (Buprestidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 389, 395. *Pl.* 16, *fig.* 29.

See also *Agrilus cyllarus*.

1347. Agrilium stomphax. (Buprestidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 389, 395. *Pl.* 16, *fig.* 23.

See also *Agrilus stomphax*.

1348. Agrilium strombus. (Buprestidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 389, 394-395. *Pl.* 16, *fig.* 6.

See also *Agrilus strombus*.

1349. Agrilus cyllabacus. (Buprestidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt., 88.

See also *Agrilium cyllabacus*.

1350. Agrilus cyllarus. (Buprestidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt., 88.

See also *Agrilium cyllarus*.

1351. *Agrilus stomphax*. (Buprestidæ)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 88.

See also *Agrilium stomphax*.

1352. *Agrilus strombus*. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 87.

See also *Agrilium strombus*.

1353. *Amara ? pseudo-zabrus*. (Carabidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 64-65. *Pl. 5, fig. 9.*

1354. *Ancylocheira* ———. (Buprestidæ.)

Locality: Gloucestershire, England. Horizon: Lias.

1843. Brodie. Lond. Edinb. Dubl. phil. mag., (3), xxiii: 529.

1843. " Ann. nat. hist., xi: 509.

1355. *Ancylocheira liasina*. (Buprestidæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 10, fig. 1.*

1856. Giebel. Insect. d. vorwelt, 82-83 (*Ancylochira*).

1356. *Ancylocheira teleas*. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 83 (*Ancylochira*).

See also *Buprestium teleas*.

***Ancylochira liasina*. See *Ancylocheira liasina*.**

***Ancylochira teleas*. See *Ancylocheira teleas*.**

1357. *Anisorhynchus ? lapideus*. (Otiiorhynchidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 285-286. *Pl. 36, figs. 40, 40a.*

1869. " Ins. foss. calc. lithogr., 39-40. *Pl. 3, figs. 40, 40a.*

1869. " Tijdschr. v. ent., (2), iv: 232 [132].

1874. " Periód zool., i: 104.

1874. " Énum. syst. faune ent. mésoz., 18.

1888. Oppenheim. Palaeontogr., xxxiv: 241-242. *Pl. 31, fig. 7.*

1358. *Aphodiites protogæus*. (Scarabæidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 90. *Pl. 8, fig. 15.*

1872. " Monde prim. Suisse, 110. *Pl. 8, fig. 15.*

1876. " Prim. world Switz., i: 89. *Pl. 8, fig. 15.*

1879. " Urwelt der Schweiz, 2^e anfl., 100. *Pl. 8, fig. 15.*

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 794. *Fig. 1026.*

1886. " Zittel-Barrois, Traité de paléont., ii: 795. *Fig. 1044.*

1359. Archiorhynchus angusticollis. (Curculionidæ.)

Locality: Kome, North Greenland. Horizon: Cretaceous.

1874. Heer. Kreide flora arct. zone (K. sv. vet.-akad. handl., xii; Flora foss. arct., 3): 91-92. *Pl.* 17, *figs.* 13 [15].
 1883. " Flora foss. groenl., ii: 143.

Bellengera ovalis. See *Bellengera ovalis*.**1360. Bellingera laticollis.** (Cryptophagidæ.)

Locality: Schaumbelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz. *Pl.* 8, *fig.* 5.
 1872. " Monde prim. Suisse. *Pl.* 8, *fig.* 5.
 1876. " Prim. world Switz., i. *Pl.* 8, *fig.* 5.
 1879. " Urwelt der Schweiz, 2^e Aufl. (index). *Pl.* 8, *fig.* 5.
 1885. Sander. Zittel, Handb. palæont., i, th. ii: 800. *Fig.* 1050.
 1886. " Zittel-Barrois, Traité de paléont., ii: 800. *Fig.* 1067

1361. Bellingera ovalis. (Cryptophagidæ.)Localities: Aust, England; Schaumbelen, Aargau, Switzerland; Dobbertin, Germany.
Horizon: Lias (Rhaetic).

1852. Heer. Lias-insel Aargau, 12. *Pl.*, *fig.* 10.
 1856. Giebel. Insect. d. vorwelt, 497.
 1865. Heer. Urwelt der Schweiz, 95. *Pl.* 8, *fig.* 6.
 1872. " Monde prim. Suisse, 116. *Pl.* 8, *fig.* 6.
 1873. Brodie. Distr. corr. foss. ins., 17 (*Bellengera*).
 1876. Heer. Prim. world Switz., i: 94. *Pl.* 8, *fig.* 6.
 1879. " Urwelt der Schweiz, 2^e Aufl., 105. *Pl.* 8, *fig.* 6.
 1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 583 (*Bellingera*)

Bellingera ovalis. See *Bellingera ovalis*.**Berosus** ———. See *Ceryon* (or *Berosus*) ——— Brodie**1362. Berosus** ———. (Hydrophilidæ.)

Locality: Aust, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101, 125. *Pl.* 9, *fig.* 10.
 See also *Ceryon* ——— Brodie, *Berosus liasinus*.

1363. Berosus liasinus. (Hydrophilidæ.)

Locality: Aust, England. Horizon: Lower Lias.

1856. Giebel. Insect. d. vorwelt, 52.
 See also *Berosus* ——— Brodie.

1364. Blaps studeri. (Tenebrionidæ.)

Locality: Sevenhampton, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 48 (unnamed). *Pl.* 6, *fig.* 16.
 1856. Giebel. Insect. d. vorwelt, 108-109.

1365. Blapsidium egertoni. (Tenebrionidæ.)

Locality: England. Horizon: Stonesfield Slate.

1871. Phillips. Geology of Oxford, 173.
 1873. Brodie. Distr. corr. foss. ins., 14.
 See also *Blapsium egertoni*.

1366. *Blapsium egertoni*. (Tenebrionidæ.)

Locality: England. Horizon: Stonesfield Slate.

1854. Westwood. Quart. Journ. geol. soc. Lond., x: 393. *Pl. 14, fig. 13*

1856. Giebel. Insect. d. vorwelt, 109.

See also *Blapsidium egertoni*.**1367. *Bostrychus* ———** (borings). (Ptinidæ.)Compared with *B. chalcographus*.

Locality: Lottinghem, Pas de Calais, France. Horizon: Gault.

1876. Brongniart. Ann. soc. ent. Fr., (5), vi, bull. 115-116.

1877. " Ann. soc. ent. Fr., (5), vii: 217-218. *Pl. 7'', fig. 5.*1878. Girard. La nature, vi: 112. *Fig. 5.***1368. *Bothynophora elegans*.**

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz. *Pl. 7, fig. 20.*1872. " Monde prim. Suisse. *Pl. 7, fig. 20.*1876. " Prim. world Switz. *Pl. 7, fig. 20.*1879. " Urwelt der Schweiz, 2^e aul. *Pl. 7, fig. 20.***1369. *Brachinites truncatus*.** (Carabidæ.)

Locality: Vyšerovic, Bohemia. Horizon: Cretaceous.

1882. Fritsch. Mojs., Beitr. paläont. Oestr.-Ung., ii: 5-6. *Pl. 2, fig. 3 (2 figs.).*1882. " Foss. arthr. steink. u. kreidef. Böhmens, 5-6. *Pl. 2 fig. 3 (2 figs.).*1884. " Vesmír, xiii: 205-206. *Figs. 3, 3a.***1370. *Bruchus* ———.** (Bruchidæ.)

Locality: Eyeford, England. Horizon: Stonesfield Slate.

1845. Murchison. Geol. Cheltenham, 68.

1371. *Buprestidium* ———. (Buprestidæ.)

Localities: Stonesfield, Eyeford, England. Horizon: Stonesfield Slate.

1871. Phillips. Geology of Oxford, 173. *Digr. 33.***1372. *Buprestis* or *Elater* ———.** (Buprestidæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16.

1373. *Buprestis* ———. (Buprestidæ.)

Locality: Stonesfield, England. Horizon: Stonesfield Slate.

1837. Buckland. Geol. and mineral., ii: 78. *Pl. 46'', figs. 4-9*1838. " Géologie, éd. Agassiz, ii: expl. pl. xlvi'', p. 4. *Pl. 46'', figs. 4-9.*1865. Lyell. Elem. geol., 6th ed., 403. *Fig. 410.*

See also ——— (Cerambycidæ-Prionini) Westw.

1374. *Buprestis* ———. (Buprestidæ.)

Locality: Japan. Horizon: (in chalcidony.)

1837. Buckland. Geol. and mineral., ii: 78.

1838. " Géologie, éd. Agassiz, ii: expl. pl. 46'', p. 5.

1375. *Buprestis* ———. (Buprestidæ.)

Locality: Eyeford, England. Horizon: Stonesfield Slate.

1845. Murchison. Geol. Cheltenham, 68. *Pl. 4, fig. 3.*

1376. Buprestis ———. (Buprestidæ.)

Locality: Wainlode Hill, England. Horizon: Lower Lias.

1845. Murchison. Geol. Cheltenham, 81. Pl. 9, fig. 4.

1377. Buprestis? ———. (Buprestidæ.)

Compared with *B. variabilis*, New Holland.

Locality: Stonesfield, England. Horizon: Stonesfield Slate.

1824. Prévost. Ann. sc. nat., iv: 417. Pl. 18, fig. 26.

1839. Brullé. Gisem. ins. foss., 12.

1378. Buprestis bucklandi. (Buprestidæ.)

Locality: Stonesfield, England. Horizon: Stonesfield Slate.

1844. Mantell. Medals of creation, ii: 577-578. Lign. 124, fig. 1.

1854. " Medals of creation, 2d ed., ii: 554. Lign. 181, fig. 1.

1379. Buprestis lapidelythris. (Buprestidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 283. Pl. 37, figs. 46, 46a.

1869. " Ins. foss. calc. lithogr., 37. Pl. 4, figs. 46, 46a.

1869. " Tijdschr. v. ent., (2), iv: 232 [132].

1874. " Periód. zool., i: 103.

1874. " Énum. syst. faune ent. mésoz., 17.

1380. Buprestites bractoides. (Buprestidæ.)

Locality: Skelton Park Pit, England. Horizon: Lias.

1876. Blake. Tate and Blake, Yorkshire lias, 426. Pl. 16, fig. 5.

1381. Buprestites lyellii. (Buprestidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 88. Pl. 7, fig. 11.

1872. " Monde prim. Suisse, 108. Pl. 7, fig. 11.

1876. " Prim. world Switz., i: 88. Pl. 7, fig. 11.

1879. " Urwelt der Schweiz, 2^e anfl., 98. Pl. 7, fig. 11.

1382. Buprestites pterophylli. (Buprestidæ.)

Locality: Vadutz, Switzerland. Horizon: Trias.

1865. Heer. Urwelt der Schweiz, 56.

1872. " Monde prim. Suisse, 68.

1876. " Prim. world Switz., i: 56.

1879. " Urwelt der Schweiz, 2^e anfl., 65.

See also Glaphyroptera pterophylli.

1383. Buprestites rugulosus. (Buprestidæ.)

Locality: Bjuf, Sweden. Horizon: Rhætic.

1878. Heer. Förhandl. geol. fören. Stockh., iv: 194-195. Pl. 13, figs. 2, 2b, 2c.

1384. Buprestites scabriusculus. (Buprestidæ.)

Locality: Peehgraben, Austria. Horizon: Lias.

1879. Heer. Urwelt der Schweiz, 2^e anfl., 92.

1385. Buprestites suprajurensis. (Buprestidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 240. Pl. 31, fig. 21.

1386. Buprestium boibus. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 5.*
 1856. Giebel. Insect. d. vorwelt, 80.

1387. Buprestium dardanus. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 395. *Pl. 16, fig. 38.*
 1856. Giebel. Insect. d. vorwelt, 80.

1388. Buprestium gorgus. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl. 15, fig. 7.*
 1856. Giebel. Insect. d. vorwelt, 79-80.

1389. Buprestium stygnus. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 394-395. *Pl. 16, figs. 11, 22.*
 1856. Giebel. Insect. d. vorwelt, 80.

1390. Buprestium teleas. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 393. *Pl. 14, fig. 19.*
 See also *Ancylocheira teleas*.

1391. Buprestium valgus. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 395. *Pl. 16, fig. 31.*

1392. Buprestium woodlei. (Buprestidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 393. *Pl. 14, fig. 11.*
 1856. Giebel. Insect. d. vorwelt, 80.

1393. Byrrhydium arcuatum. (Byrrhidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89. *Pl. 8, fig. 9.*
 1872. " Monde prim. Suisse, 109. *Pl. 8, fig. 9.*
 1876. " Prim. world Switz., i: 89. *Pl. 8, fig. 9.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 99. *Pl. 8, fig. 9.*

1394. Byrrhydium morio. (Byrrhidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89. *Pl. 8, fig. 10.*
 1872. " Monde prim. Suisse, 109. *Pl. 8, fig. 10.*
 1876. " Prim. world Switz., i: 89. *Pl. 8, fig. 10.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 99. *Pl. 8, fig. 10.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 798. *Fig. 1041.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 799. *Fig. 1058.*

1395. *Byrrhodium troglodytes.* (Byrrhidae.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 64, 89.
 1872. " Monde prim. Suisse, 90, 109.
 1876. " Prim. world Switz., i: 64, 89.
 1879. " Urwelt der Schweiz, 2^e anfl., 73, 99.

1396. *Camtodontus angliae.* (Carabidae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (unnamed). *Pl. 6, fig. 8.*
 1856. Giebel. Insect. d. vorwelt, 65.

1397. *Carabicina ? decipiens.* (Carabidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1842. Germar. Münster, Beitr. z. petref., v: 83-84. *Pl. 9, fig. 4; Pl. 13, fig. 9.*
 1862. Hagen. Palaeontogr., x: 111.
 1869. Weyenbergh. Arch. mus. Teyl., ii: 288. *Pl. 37, fig. 55.*
 1869. " Ins. foss. calc. lithogr., 42. *Pl. 4, fig. 55.*
 1869. " Tijdschr. v. ent., (2), iv: 231 [131.]
 1874. " Periód. zool., i: 101.
 1874. " Énum. syst. faune ent. mésoz., 15.
 1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192.
 1885. Scudder. Zittel, Handb. palaeont., 1, th. ii: 815.
 1886. " Zittel-Barrois, Traité de paléont., ii: 817.
 1886. " Bull. U. S. geol. surv., No. 31: 97.

See also II, HYMENOPTERA, *Apiaria lapidea.***1398. *Carabidium dejeanianum.* (Carabidae.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 1.*
 1856. Giebel. Insect. d. vorwelt, 61.

1399. *Carabites* ———. (Carabidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1852. Quenstedt. Handb. petref., 313. *Pl. 24, fig. 6ab.*

1400. *Carabites anthracinus.* (Carabidae.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 12. *Pl., fig. 3.*
 1856. Giebel. Insect. d. vorwelt, 497.

1401. *Carabites bellus.* (Carabidae.)

Localities: Schambelen, Switzerland; Dobbertin, Mecklenburg. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 90. *Pl. 8, fig. 22.*
 1872. " Monde prim. Suisse, 110. *Pl. 8, fig. 22.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 22.*
 1879. " Urwelt der Schweiz, 2^e anfl., 100. *Pl. 8, fig. 22.*
 1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1881: 583.

1402. *Carabites deplanatus.* (Carabidae.)

Locality: Bjuf, Sweden. Horizon: Rhatic.

1878. Heer. Förhandl. geol. fören. Stockh., iv: 197. *Pl. 13, figs. 8-9.*

1403. *Carabites depressus*. (Carabidæ.)
 Locality: Pechgraben, Austria. Horizon: Lias.
1879. Heer. Urvwelt der Schweiz, 2^e Aufl., 91-92.
1404. *Carabites harpalinus*. (Carabidæ.)
 Locality: Schambelen, Switzerland. Horizon: Lias.
1865. Heer. Urvwelt der Schweiz, 90.
 1872. " Monde prim. Suisse, 110.
 1876. " Prim. world Switz., i: 90.
 1879. " Urvwelt der Schweiz, 2^e Aufl., 100.
1405. *Carabocera prisca*. (Carabidæ.)
 Locality: Ust Balei, Siberia. Horizon: Lias.
1889. (Brauer-Redt-) Mém acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 18-19. Pl. [2],
 (enb.-Ganglb.) fig. 23.
1406. *Carabus* ? ———. (Carabidæ.)
 Locality: Eyeford, England. Horizon: Stonesfield Slate.
1845. Murchison. Geol. Cheltenham, 68. Pl. 4, fig. 2.
1407. *Carabus elongatus*. (Carabidæ.)
 Locality: Vale of Wardour, England. Horizon: Purbecks.
1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 115-116). Pl. 2, fig. 1.
 1856. Giebel. Insect. d. vorwelt, 60.
1408. *Carabus westwoodii*. (Carabidæ.)
 Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.
1854. Westwood. Quart. Journ. geol. soc. Lond., x: 390, 395 (unnamed). Pl. 16,
 fig. 30.
1856. Giebel. Insect. d. vorwelt, 60-61.
1409. *Carabus winkleri*. (Carabidæ.)
 Locality: Solenhofen, Bavaria. Horizon: Jura.
1869. Weyenbergh. Arch. mus. Teyl., ii: 278-279. Pl. 37, figs. 56, 56a.
 1869. " Ins. foss. calc. lithogr., 32-33. Pl. 4, figs. 56, 56a.
 1869. " Tijdschr. v. ent., (2), iv: 231 [131].
 1874. " Periód. zool., i: 101.
 1874. " Énum. syst. faune ent. mésoz., 15.
1410. *Cassida æquivoca*. (Chrysomelidæ.)
 Locality: Solenhofen, Bavaria. Horizon: Jura.
1869. Weyenbergh. Arch. mus. Teyl., ii: 287-288. Pl. 36, fig. 39.
 1869. " Ins. foss. calc. lithogr., 41-42. Pl. 3, fig. 39.
 1869. " Tijdschr. v. ent., (2), iv: 233 [133].
 1874. " Periód. zool., i: 105.
 1874. " Énum. syst. faune ent. mésoz., 19.
1411. *Cerambycinus dubius*. (Cerambycidæ.)
 Locality: Solenhofen, Bavaria. Horizon: Jura.
1839. Münster. MSS.
 1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 208-210. Pl. 22, fig. 9.
 1854. Pictet. Traité de paléont., 2^e éd., ii: 355. Pl. 40, fig. 8.
 1862. Hagen. Palæontogr., x: 110.
 1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192.
- See also *Mesosa germari*, *Cerambycinus germari*.

1412. *Cerambycinus germari.* (Cerambycidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 75, note.See also *C. dubius*, etc.**1413. *Cerambycites* ——— (borings).**Compared with the borings of *Cerambyx luidus*: now regarded as borings of a mollusk, *Gastrochama amphisbena* Goldf. Cf. Scudd., *Bibl. foss. ins.*, 13.

Localities: Welschnfe, Rippchen, Baunewitz, Saxony. Horizon: Quadersandstein.

1839. Geinitz. *Charakt. sächs. kreidegeb.*, 13. *Pls.* 3-5, 6, *fig.* 1.1856. Giebel. *Insect. d. vorwelt*, 129.See also *Clytus* ——— Giebel.**1414. *Cerambycites dubius.* (Cerambycidae.)**

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 75. *Pl.* 5, *fig.* 19.See also *Ditomoptera dubia*.**1415. *Cerambycites minor.* (Cerambycidae.)**

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 74. *Pl.* 5, *fig.* 20.**1416. *Cerambyx* ———. (Cerambycidae.)**

Locality: Solenhofen, Bavaria. Horizon: Jura.

1820. Schlotheim. *Petrefactenk.*, 42-43.**1417. *Cercyon* (or *Berosus*) ———. (Hydrophilidae.)**

Locality: Aust, England. Horizon: Rhætic.

1873. Brodie. *Distr. corr. foss. ins.*, 17.**1418. *Cercyon.* (Hydrophilidae.)**

Locality: Aust, England. Horizon: Lower Lias.

1845. Westwood. Brodie, *Foss. ins. sec. rocks Engl.*, 125. *Pl.* 9, *fig.* 10.See also *Berosus* ——— Brodie.**1419. *Cerylon striatum.* (Colydiidae.)**

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. *Foss. ins. sec. rocks Engl.*, 32, 116. *Pl.* 3, *fig.* 1.1856. Giebel. *Insect. d. vorwelt*, 125.1885. Scudder. *Zittel, Handb. palæont.*, i, ii: 800. *Fig.* 1052.1886. " *Zittel-Barrois, Traité de paléont.*, ii: 800. *Fig.* 1069.*Cetonia defossa.* See *Cetonia defossa*.**1420. *Cetonia defossa.* (Scarabaeidae.)**

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. *Arch. mus. Teyl.*, ii: 282-283. *Pl.* 37, *fig.* 52.1869. " *Ins. foss. calc. lithogr.*, 36-37. *Pl.* 4, *fig.* 52.1869. " *Tijdschr. v. ent.*, (2), iv: 232 [132].1874. " *Period. zool.*, i: 103 (*defossa*).1874. " *Enum. syst. faune ent. mésoz.*, 17.

1421. Chlænienus solitarius. (Carabidæ.)Compared with *C. velutinus*, *C. prasinus*.

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 65. *Pl. 5, fig. 8.***1422. Chrysobothris veterana.** (Buprestidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1847. Heyden. *Palaeontogr.*, i: 99-100. *Pl. 12, fig. 4.*1856. Giebel. *Insect. d. vorwelt*, 497.1869. Weyenbergh. *Arch. mus. Teyl.*, ii: 288. *Pl. 37, fig. 47.*1869. " *Ins. foss. calc. lithogr.*, 42. *Pl. 4, fig. 47.*1869. " *Tijdschr. v. ent.*, (2), iv: 232 [132].1874. " *Periód. zool.*, i: 103.1874. " *Enum. syst. faune ent. mésoz.*, 17.1877. Assmann. *Ber. versamml. deutsch. naturf.*, 1: 192 (=Actea sphinx).See also *Sphenoptera sphinx*, etc.**1423. Chrysomela** ———. (Chrysomelidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 395 (unnamed). *Pl. 17, fig. 2.*1856. Giebel. *Insect. d. vorwelt*, 121.**1424. Chrysomela andræi.** (Chrysomelidæ.)

Locality: Forthampton, England. Horizon: Lower Lias.

1845. Brodie. *Foss. ins. sec. rocks Engl.*, 101 (unnamed). *Pl. 7, fig. 7.*1856. Giebel. *Insect. d. vorwelt*, 119.**1425. Chrysomela dubia.** (Chrysomelidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 395 (unnamed). *Pl. 16, fig. 24.*1856. Giebel. *Insect. d. vorwelt*, 120.**1426. Chrysomela dunkeri.** (Chrysomelidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 395 (unnamed). *Pl. 16, fig. 26.*1856. Giebel. *Insect. d. vorwelt*, 120.**1427. Chrysomela ignota.** (Chrysomelidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. *Quart. journ. geol. soc. Lond.*, x: 395 (unnamed). *Pl. 16, fig. 15.*1856. Giebel. *Insect. d. vorwelt*, 120.**1428. Chrysomela liasina.** (Chrysomelidæ.)

Locality: Hasfield, England. Horizon: Lower Lias.

1845. Brodie. *Foss. ins. sec. rocks Engl.*, 101 (unnamed). *Pl. 6, fig. 33.*1856. Giebel. *Insect. d. vorwelt*, 120.**1429. Chrysomela lithografica.** (Chrysomelidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. *Arch. mus. Teyl.*, ii: 287. *Pl. 36, figs. 35-36.*1869. " *Ins. foss. calc. lithogr.*, 41. *Pl. 3, figs. 35-36.*1869. " *Tijdschr. v. ent.*, (2), iv: 233 [133].1874. " *Periód. zool.*, i: 105.1874. " *Enum. syst. faune ent. mésoz.*, 19.

1430. *Chrysomela rara.* (Chrysomelidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 257. Pl. 36, figs. 34, 34a.
 1869. " Ins. foss. calc. lithogr., 41. Pl. 3, figs. 34, 34a.
 1869. " Tijdschr. v. ent., (2), iv: 233 [133].
 1874. " Periód. zool., i: 105.
 1874. " Énum. syst. faune ent. mésoz., 19.

1431. *Chrysomelites jurassicus.* (Chrysomelidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 242. Pl. 31, fig. 25.

1432. *Chrysomelites minimus.* (Chrysomelidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 242 (minima). Pl. 31, fig. 23.

1433. *Chrysomelites prodromus.* (Chrysomelidæ.)

Locality: Schanbelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89, 93. Pl. 8, fig. 13.
 1872. " Monde prim. Suisse, 109, 114. Pl. 8, fig. 13.
 1876. " Prim. world Switz., i: 89, 92. Pl. 8, fig. 13.
 1879. " Urwelt der Schweiz, 2^e aufl., 99, 103. Pl. 8, fig. 13.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 792. Fig. 1020.
 1886. " Zittel-Barrois, Traité de paléont., ii: 792. Fig. 1638.

1434. *Chrysomelites rothenbachi.* (Chrysomelidæ.)

Locality: Rutihard, Basel, Switzerland. Horizon: Trias.

1877. Heer. Flora foss. helvet., 76. Pl. 27, figs. 9b, 9c.

1435. *Cistelites insignis.* (Cistelidæ.)

Locality: Schanbelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89. Pl. 8, fig. 11.
 1872. " Monde prim. Suisse, 109. Pl. 8, fig. 11.
 1876. " Prim. world Switz., i: 89. Pl. 8, fig. 11.
 1879. " Urwelt der Schweiz, 2^e aufl., 99. Pl. 8, fig. 11.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 791. Fig. 1016.
 1886. " Zittel-Barrois, Traité de paléont., ii: 791. Fig. 1034.
 1886. " Bull. U. S. geol. surv., No. 31: 70.

1436. *Clytus* ———. (Cerambycidæ.)

Locality: Welschufe, Saxony. Horizon: Quadersandstein.

1856. Giebel. Insect. d. vorwelt, 129.
 See also *Cerambycites* ——— Geinitz.

1437. *Coccinella* ———. (Coccinellidæ.)

Locality: Eyeford, England. Horizon: Stonestfield Slate.

1845. Murchison. Geol. Cheltenham, 68. Pl. 4, fig. 1.

1438. *Coccinella* ———. (Coccinellidæ.)

Locality: England. Horizon: Upper Lias.

1845. Murchison. Geol. Cheltenham, 108. Pl. 8, fig. 5.

1439. *Coccinella heydeni*. (Coccinellidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 288. *Pl.* 36, *figs.* 32, 32a.
 1869. " Ins. foss. calc. lithogr., 42. *Pl.* 3, *figs.* 32, 32a.
 1869. " Tijdschr. v. ent., (2), iv: 233 [133].
 1874. " Periód. zool., i: 105.
 1874. " Énum. syst. faune ent. mésoz., 19.

1440. *Coccinella neptuni*. (Coccinellidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 394 (unnamed). *Pl.* 16, *fig.* 9.
 1856. Giebel. Insect. d. vorwelt, 123.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 800. *Fig.* 1055.
 1886. " Zittel-Barrois, Traité de paléont., ii: 800. *Fig.* 1072.

1441. *Coccinella wittsi*. (Coccinellidæ.)

Locality: Sevenhampton, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 48. *Pl.* 6, *fig.* 21.
 See also *Pimelia wittsi*.

1442. *Colymbetes* ———. (Dytiscidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 117). *Pl.* 6, *fig.* 5.
 See also *Hydrophilus brodiei*.

1443. *Colymbetes arcuatus*. (Dytiscidæ.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 12. *Pl.*, *figs.* 4-5.
 1856. Giebel. Insect. d. vorwelt, 497.

1444. *Crypticus ungeri*. (Tenebrionidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 393 (unnamed). *Pl.* 14, *fig.* 15.
 1856. Giebel. Insect. d. vorwelt, 110.

1445. *Cryptocephalus antiquus*. (Chrysomelidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 286. *Pl.* 36, *fig.* 38.
 1869. " Ins. foss. calc. lithogr., 40. *Pl.* 3, *fig.* 38.
 1869. " Tijdschr. v. ent., (2), iv: 233 [133].
 1874. " Periód. zool., i: 104.
 1874. " Énum. syst. faune ent. mésoz., 18.

1446. *Cryptocephalus mesozoicus*. (Chrysomelidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 286. *Pl.* 36, *fig.* 37.
 1869. " Ins. foss. calc. lithogr., 40. *Pl.* 3, *fig.* 37.
 1869. " Tijdschr. v. ent., (2), iv: 233 [133].
 1874. " Periód. zool., i: 105.
 1874. " Énum. syst. faune ent. mésoz., 19.
 1888. Oppenheim. Palaeontogr., xxxiv: 242-243. *Pl.* 31, *fig.* 24.

1447. Ctenicerium blissus. (Elateridæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 395. *Pl. 16, fig. 36.*

1448. Ctenicerium hylastes. (Elateridæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 395. *Pl. 16, fig. 37.*

1449. Curculio ——— (leg). (Curculionidæ.)

Locality: Stonesfield, England. Horizon: Stonesfield Slate.

1837. Buckland. Geol. and mineral., ii: 78. *Pl. 46'', fig. 10.*

1838. " Géologie, éd. Agassiz, ii: expl. pl. 46'', pp. 4-5. *Pl. 46'', fig. 10.*

1450. Curculionidium ———. (Curculionidæ.)

Localities: Stonesfield, Eyeford, England. Horizon: Stonesfield Slate.

1871. Phillips. Geology of Oxford, 173. *Digr. 34.*

1451. Curculionites carlsoni. (Curculionidæ.)

Locality: Bjuf, Sweden. Horizon: Rhætic.

1878. Heer. Förhandl. geol. fören. Stockh., iv: 195. *Pl. 13, fig. 4, 4b, 4c.*

1452. Curculionites cretaceus. (Curculionidæ.)

Locality: Kome, North Greenland. Horizon: Cretaceous.

1874. Heer. Kreide-flora arct. zone (K. svensk. vetensk.-akad. handl., xii—
Flora foss. arct., 3), 92. *Pl. 17, fig. 14.*

1883. " Flora foss. grönl., ii: 143.

1453. Curculionites liasinus. (Curculionidæ.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 15. *Pl., figs. 39-40.*

1856. Giebel. Insect. d. vorwelt, 498.

1454. Curculionites parvulus. (Curculionidæ.)

Locality: Sofiero, Sweden. Horizon: Rhætic.

1878. Heer. Förhandl. geol. fören. Stockh., iv: 195. *Pl. 13, figs. 3, 3b, 3c.*

1455. Curculionites prodromus. (Curculionidæ.)

Locality: Vadutz, Liechtenstein. Horizon: Trias.

1853. Heer. Besch. angeführt. pflanz. u. ins., 20-21. *Pl. 7, fig. 13.*

1853. " Esch., Geol. bemerk. (Neue denkschr. schweiz. gesellsch., xiii):
134-135. *Pl. 7, fig. 13.*

1865. " Urwelt der Schweiz, 56, 82.

1872. " Monde prim. Suisse, 68, 99.

1876. " Prim. world Switz., i: 56, 82.

1879. " Urwelt der Schweiz, 2^e Aufl., 65.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 788. *Fig. 1007.*

1886. " Zittel-Barrois, Traité de paléont., ii: 788. *Fig. 1024.*

1886. " Bull. U. S. geol. surv., No. 31: 66.

1456. Curculionites striatus. (Curculionidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palæontogr., xxxiv: 241 (striata). *Pl. 31, fig. 27.*

1457. *Curculionites syrighthus.* (Curculionidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 147.

See also *Curculium syrighthus.*

1458. *Curculionites tuberculatus.* (Curculionidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl. 16, fig. 33.*

1856. Giebel. Insect. d. vorwelt, 148.

1459. *Curculionites westwoodi.* (Curculionidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl. 16, fig. 12.*

1856. Giebel. Insect. d. vorwelt, 147.

1460. *Curculium syrighthus.* (Curculionidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 337, 393. *Pl. 14, fig. 3.*

See also *Curculionites syrighthus.*

1461. *Cycloderma deplanatum.* (Trogozitidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89. *Pl. 8, fig. 4.*

1872. " Monde prim. Suisse, 108. *Pl. 8, fig. 4.*

1876. " Prim. world Switz., i: 88. *Pl. 8, fig. 4.*

1879. " Urwelt der Schweiz, 2^e aufl., 99. *Pl. 8, fig. 4.*

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 799. *Fig. 1043.*

1886. " Zittel-Barrois, Traité de paléont., ii: 799. *Fig. 1060.*

1462. *Cymindis antiqua.* (Carabidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1854. Brodie. Foss. ins. sec. rocks Engl., 117 (unnamed). *Pl. 6, fig. 10.*

1856. Giebel. Insect. d. vorwelt, 69.

1463. *Cymindis beyrichi.* (Carabidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl. 16, fig. 16.*

1856. Giebel. Insect. d. vorwelt, 68-69.

1464. *Cyphon* ———. (Dasyllidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (Westw., 116). *Pl. 3, fig. 3.*

See also *Cyphon vetustus.*

1465. *Cyphon vetustus.* (Dasyllidæ.)

Localities: Vale of Wardour, England; Dobbertin, Germany. Horizon: Lias.

1856. Giebel. Insect. d. vorwelt, 100.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 583.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 798. *Fig. 1038.*

1886. " Zittel-Barrois, Traité de paléont., ii: 798. *Fig. 1056.*

See also *Cyphon* ——— Brodie.

1466. Diaperidium mithrax. (Tenebrionidæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 383, 394. *Pl.* 15, *fig.* 8, right-hand fig.

1467. Ditomoptera dubia.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 203-205 (Hemipt.). *Pl.* 22, *fig.* 5.
 1852. Giebel. Deutschl. petref., 636.
 1862. Hagen. Palaeontogr., x: 110 (Coleoptera).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 233 [133].
 1877. Assmann. Ber. versamm. deutsch. naturf., 1: 192 (Coleopt.).
 1888. Oppenheim. Palaeontogr., xxxiv: 240. *Pl.* 31, *fig.* 8.

See also *Cerambycites dubius*.**1468. Dytiscus** ———. (Dytiscidæ.)

Locality: Dorset, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 282 (unnamed). *Pl.* 15, *fig.* 13.
 1856. Giebel. Insect. d. vorwelt, 58.

1469. Dytiscus lentissimus. (Dysticidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 101 (undescribed).
 1874. " Énum. syst. faune ent. mésoz., 15 (undescribed).

Elater or Buprestis ———. See *Buprestis* (or *Elater*) ——— Brodie.**1470. Elater angulatus.** (Elateridæ.)Localities: Wainlode, Apperley, Brockeridge, Churchdown, Aust, England.
Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl.* 6, *fig.* 25.
 1856. Giebel. Insect. d. vorwelt, 92.

1471. Elater costeri. (Elateridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 284-285. *Pl.* 37, *fig.* 43.
 1869. " Ins. foss. calc. lithogr., 38-39. *Pl.* 4, *fig.* 43.
 1869. " Tijdschr. v. ent., (2), iv: 232 [132].
 1874. " Periód. zool., i: 104.
 1874. " Énum. syst. faune ent. mésoz., 18.

1472. Elater grossus. (Elateridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 285. *Pl.* 37, *fig.* 42.
 1869. " Ins. foss. calc. lithogr., 39. *Pl.* 4, *fig.* 42.
 1869. " Tijdschr. v. ent., (2), iv: 232 [132].
 1874. " Periód. zool., i: 104.
 1874. " Énum. syst. faune ent. mésoz., 18.

1473. Elater morrisoni. (Elateridæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl.* 16, *fig.* 36.
 1856. Giebel. Insect. d. vorwelt, 93.

1474. *Elater neptuni*. (Elateridæ).

Locality: England. Horizon: Lower Lias.

1845. Brodie Foss. ins. sec. rocks Engl. (unnamed). *Pl. 7, fig. 3.*
 1856. Giebel. Insect. d. vorwelt, 91.

1475. *Elater oweni*. (Elateridæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Loud., x: 395 (unnamed). *Pl. 16, fig. 37.*
 1856. Giebel. Insect. d. vorwelt, 93.

1476. *Elater purbeccensis*. (Elateridæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl. 32 (unnamed). *Pl. 6, fig. 6.*
 1856. Giebel. Insect. d. vorwelt, 92.

1477. *Elater redtenbacheri*. (Elateridæ.)Localities: Wainlode, Apperley, Brockeridge, Churchdown, Aust, England.
Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 6, fig. 26.*
 1856. Giebel. Insect. d. vorwelt, 92.

1478. *Elater socius*. (Elateridæ.)

Locality: Apperley, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (unnamed). *Pl. 7, fig. 2.*
 1856. Giebel. Insect. d. vorwelt, 91.

1479. *Elater teyleri*. (Elateridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 284. *Pl. 37, figs. 44, 44a.*
 1869. " Ius. foss. calc. lithogr., 38. *Pl. 4, figs. 44, 44a.*
 1869. " Tijdschr. v. ent., (2), iv: 232 [132].
 1874. " Periód. zool., i: 103.
 1874. " Énum. syst. faune ent. mésoz., 17.

1480. *Elater vanus*. (Elateridæ.)Localities: Wainlode, Apperley, Brockeridge, Churchdown, Aust, England.
Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 6, fig. 23.*
 1856. Giebel. Insect. d. vorwelt, 92.

1481. *Elater vetustus*. (Elateridæ.)

Locality: England. Horizon: Lower Lias, Insect Limestone.

1845. Brodie. Foss. ins. sec. rocks Engl., 101. *Pl. 7, fig. 1.*
 1856. Giebel. Insect. d. vorwelt, 91.
 1871. Phillips. Geology of Oxford, 123.

See also *Elaterites vetustus*.**1482. *Elater weneri*. (Elateridæ.)**

Locality: Vale of Aylesbury, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (unnamed). *Pl. 6, fig. 7.*
 1856. Giebel. Insect. d. vorwelt, 92.

1483. *Elaterites priscus*. (Elateridæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 241. Pl. 31, fig. 5.

1484. *Elaterites robustus*. (Elateridæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 241. Pl. 31, fig. 22.

1485. *Elaterites sibiricus*. (Elateridæ.)

Locality: Tapka near Irkutsk, Siberia. Horizon: Jura.

1876. Heer. Mém. acad. sc. St.-Petersb., xxii, No. 12: 41. Pl. 22, figs. 9c, 9ee.

1877. " Flora foss. arct., 4, ii: 41. Pl. 22, figs. 9e, 9ee.

1486. *Elaterites vetustus*. (Elateridæ.)Compared with *Ampedus sanguineus* Fabr.

Localities: Schambelen, Switzerland; Dobbertin, Germany. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 88, 95. Pl. 7, fig. 21.

1872. " Monde prim. Suisse, 108, 116. Pl. 7, fig. 21.

1876. " Prim. world Switz., i: 88, 94. Pl. 7, fig. 21.

1879. " Urwelt der Schweiz, 2^e Aufl., 98, 105. Pl. 7, fig. 21.

1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 530 (cfr.). Pl. 22, fig. 19.

1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 583.

See also *Elater vetustus*.**1487. *Elaterium barypus*.** (Elateridæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 389, 394-395. Pl. 16, fig. 5.

1856. Giebel. Insect. d. vorwelt, 93.

1488. *Elaterium pronæus*. (Elateridæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 387, 393. Pl. 14, fig. 1.

1856. Giebel. Insect. d. vorwelt, 92-93.

1489. *Elaterium triopas*. (Elateridæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. Geol. Soc. Lond., x: 389, 394-395. Pl. 16, fig. 4

1856. Giebel. Insect. d. vorwelt, 93.

1490. *Elateropsis infraliassica*. (Elateridæ.)

Locality: Krälah vic. Hildesheim, Germany. Horizon: Rhaetic.

1876. Roemer. Zeitschr. deutsch. geol. gesellsch., xxviii: 351. Figs. 1, 1a.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 797. Fig. 1036.

1886. " Zittel-Barrois, Traité de paléont., ii: 798. Fig. 1054.

1491. *Elmis brodiei*. (Parnidæ)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 50.

See also *Lamnius* ——— *Brodie*.

1492. Elytridium angelini.

Locality: Kulla Gunnarstorp, Sweden. Horizon: Rhætic.

1878. Heer. Förhandl. geol. fören. Stockh., iv: 196. Pl. 13, figs. 5, 5b.

1493. Elytridium lævigatum.

Locality: Högånäs, Sweden. Horizon: Rhætic.

1878. Heer. Förhandl. geol. fören. Stockh., iv: 196. Pl. 13, figs. 6, 6b.

1494. Elytridium multipunctatum.

Locality: Ivnannguit, Greenland. Horizon: Komeschichten, Cretaceous.

1883. Heer. Flora foss. grönl., ii: 143-144. Pl. 109, fig. 5.

1495. Euchroma liasina. (Buprestidæ.)

Compared with *E. gigantea*.

Locality: Schambelen, Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 13. Pl., figs. 18, 19.

1854. Pictet. Traité de paléont., 2^e ed., ii: 331. Pl. 40, fig. 3.

1856. Giebel. Insect. d. vorwelt, 498.

1865. Heer. Urwelt der Schweiz, 88. Pl. 7, fig. 10.

1872. " Monde prim. Suisse, 107. Pl. 7, fig. 10.

1876. " Prim. world Switz., i: 87. Pl. 7, fig. 10.

1879. " Urwelt der Schweiz, 2^e Aufl., 98. Pl. 7, fig. 10.

1496. Eumolpites liberatus. (Chrysomelidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89. Pl. 8, fig. 14.

1872. " Monde prim. Suisse, 109. Pl. 8, fig. 14.

1876. " Prim. world Switz., i: 89. Pl. 8, fig. 14.

1879. " Urwelt der Schweiz, 2^e Aufl., 99. Pl. 8, fig. 14.

1497. Eurythyrea grandis. (Buprestidæ.)

Compared with *E. longipennis* Heer (Tert.).

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lithogr. schiefer dresd. mus., 70. Pl. 5, fig. 14.

1888. Oppenheim. Palaeontogr., xxxiv: 240. Pl. 31, fig. 9.

1498. Feronites velenovskyi. (Carabidæ.)

Locality: Peruckých, Bohemia. Horizon: (Cretaceous?)

1884. Frič. Vesmír, xiii: 205-206. Fig. 8

1499. Galerucites carinatus. (Chrysomelidæ.)

Locality: Kellheim, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 242 (carinata). Pl. 31, fig. 26.

1500. Geotrupes lithographicus. (Scarabæidæ.)

Compared with *G. mutator*.

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lithogr. schiefer dresd. mus., 69. Pl. 5, fig. 13.

1501. Glaphyroptera brevicollis. (Buprestidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 88. *Pl. 7, fig. 15.*
 1872. " Monde prim. Suisse, 107. *Pl. 7, fig. 15.*
 1876. " Prim. world Switz., i: 87. *Pl. 7, fig. 15.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 98. *Pl. 7, fig. 15.*

1502. Glaphyroptera depressa. (Buprestidæ.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 14. *Pl., figs. 23-25*.*
 1856. Giebel. Insect. d. vorwelt, 498.

1503. Glaphyroptera gehreti. (Buprestidæ.)Localities: Schambelen, Aargau, Switzerland; Dobbertin, Mecklenberg.
Horizon: Lias.

1852. Heer. Lias-insel Aargau, 14. *Pl., figs. 25a, 26-28.*
 1856. Giebel. Insect. d. vorwelt, 498.
 1865. Heer. Urwelt der Schweiz, 88. *Pl. 7, fig. 12.*
 1872. " Monde prim. Suisse, 107. *Pl. 7, fig. 12.*
 1876. " Prim. world Switz., i: 87. *Pl. 7, fig. 12.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 98. *Pl. 7, fig. 12.*
 1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 583.

1504. Glaphyroptera gracilis. (Buprestidæ.)

Locality: Schambelen, Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 14. *Pl., figs. 29-32.*
 1856. Giebel. Insect. d. vorwelt, 498.
 1865. Heer. Urwelt der Schweiz, 95. *Pl. 7, fig. 14.*
 1872. " Monde prim. Suisse, 116. *Pl. 7, fig. 14.*
 1876. " Prim. world Switz., i: 94. *Pl. 7, fig. 14.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 105. *Pl. 7, fig. 14.*

1505. Glaphyroptera insignis. (Buprestidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 13-14. *Pl., figs. 20-22.*
 1856. Giebel. Insect. d. vorwelt, 498.
 1865. Heer. Urwelt der Schweiz, 88. *Pl. 7, fig. 13.*
 1872. " Monde prim. Suisse, 107. *Pl. 7, fig. 13.*
 1876. " Prim. world Switz., i: 87. *Pl. 7, fig. 13.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 98. *Pl. 7, fig. 13.*

1506. Glaphyroptera pterophylli. (Buprestidæ.)

Locality: Vadutz, Liechtenstein. Horizon: Kenper, Trias.

1853. Heer. Esch., Geol. bemerk. (Nene denkschr. allg. schweiz. gesellsch. ges. naturw., xiii): 133-134. *Pl. 7, figs. 11a-c, 12.*
 1853. " Beschr. angeführt. pflanz. u. ins., 19-20. *Pl. 7, figs. 11a-c, 12.*
 1865. " Urwelt der Schweiz, 82.
 1872. " Monde prim. Suisse, 99.
 1876. " Prim. world Switz., 82.
 1885. Scudler. Zittel, Handb. palaeont., i, th. ii: 796. *Fig. 1033.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 797. *Fig. 1051.*

See also Buprestites pterophylli.

1507. Glaphyoptera spectabilis. (Buprestidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urvelt der Schweiz, 88.
 1872. " Monde prim. Suisse, 107.
 1876. " Prim. world Switz., i: 87.
 1879. " Urvelt der Schweiz, 2^e Aufl., 98.

1508. Gyrinites antiquus. (Gyrinidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urvelt der Schweiz, 91. *Pl. 8, fig. 20.*
 1872. " Monde prim. Suisse, 110. *Pl. 8, fig. 20.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 20.*
 1879. " Urvelt der Schweiz, 2^e Aufl., 101. *Pl. 8, fig. 20.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 802. *Fig. 1065.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 803. *Fig. 1082.*

1509. Gyrinites minimus. (Gyrinidæ.)

Localities: Schambelen, Switzerland; Dobbertin, Mecklenburg. Horizon: Lias.

1865. Heer. Urvelt der Schweiz, 91. *Pl. 8, fig. 21.*
 1872. " Monde prim. Suisse, 110. *Pl. 8, fig. 21.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 21.*
 1879. " Urvelt der Schweiz, 2^e Aufl., 101. *Pl. 8, fig. 21.*

See also *Gyrinus minimus*.**1510. Gyrinites troglodytes.** (Gyrinidæ.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 12. *Pl., figs. 6-7.*
 1856. Giebel. Insect. d. vorwelt, 497.
 1865. Heer. Urvelt der Schweiz, 91. *Pl. 8, fig. 19.*
 1872. " Monde prim. Suisse, 110. *Pl. 8, fig. 19.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 19.*
 1879. " Urvelt der Schweiz, 2^e Aufl., 101. *Pl. 8, fig. 19.*

See also *Gyrinus troglodytes*.**1511. Gyrinus** ———. (Gyrinidæ.)

Locality: Norton, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16 ("like a foreign species").

1512. Gyrinus ———. (Gyrinidæ.)

Locality: England. Horizon: Lias.

1871. Phillips. Geology of Oxford, 123.

1513. Gyrinus antiquus. (Gyrinidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urvelt der Schweiz, 91. *Pl. 8, fig. 20.*
 1872. " Monde prim. Suisse, 110. *Pl. 8, fig. 20.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 20.*
 1879. " Urvelt der Schweiz, 2^e Aufl., 101. *Pl. 8, fig. 20.*

1514. Gyrinus atavus. (Gyrinidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urvelt der Schweiz, 64, 90. *Pl. 8, fig. 18.*
 1872. " Monde prim. Suisse, 78, 110. *Pl. 8, fig. 18.*
 1876. " Prim. world Switz., i: 64, 90. *Pl. 8, fig. 18.*
 1879. " Urvelt der Schweiz, 2^e Aufl., 73, 100. *Pl. 8, fig. 18.*

1515. *Gyrinus dubius.* (Gyrinidae.)

Locality: England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 7, fig. 6.*

1856. Giebel. Insect. d. vorwelt, 56.

1516. *Gyrinus juranus.* (Gyrinidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 231 [131].

See also *G. jurassicus*.**1517. *Gyrinus jurassicus.* (Gyrinidae.)**

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 280. *Pl. 37, figs. 53, 53a.*1869. " Ins. foss. calc. lithogr., 34. *Pl. 4, figs. 53, 53a.*

1874. " Periód. zool., i: 102.

1874. " Énum. syst. faune ent. mésoz., 16.

See also *G. juranus*.**1518. *Gyrinus minimus.* (Gyrinidae.)**

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 583.

See also *Gyrinites minimus*.**1519. *Gyrinus natans.* (Gyrinidae.)**

Locality: Forthampton, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101, 123. *Pl. 7, fig. 5.*

1856. Giebel. Insect. d. vorwelt, 56.

1520. *Gyrinus troglodytes.* (Gyrinidae.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 64.

1872. " Monde prim. Suisse, 78.

1876. " Prim. world Switz., i: 64.

1879. " Urwelt der Schweiz, 2^e Aufl., 73.See also *Gyrinites troglodytes*.**1521. *Haltica?* ———. (Chrysomelidae.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389, 396. *Pl. 18, fig. 12.***1522. *Harpalidium anactus.* (Carabidae.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 393. *Pl. 14, fig. 20.*See also *Harpalus anactus*.**1523. *Harpalidium nothrus.* (Carabidae.)**

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 3.*

1856. Giebel. Insect. d. vorwelt, 63.

1524. Harpalus ——. (Carabidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 393 (unnamed). *Pl. 14, fig. 16.*
 1856. Giebel. Insect. d. vorwelt, 64.

1525. Harpalus anactus. (Carabidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 63.

See also *Harpalidium anactus*.

1526. Harpalus burmeisteri. (Carabidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 385 (unnamed). *Pl. 24, fig. 14.*
 1856. Giebel. Insect. d. vorwelt, 63.

1527. Harpalus ewaldi. (Carabidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 393 (unnamed). *Pl. 16, fig. 21.*
 1856. Giebel. Insect. d. vorwelt, 62.

1528. Harpalus heeri. (Carabidæ.)

Locality: Hasfield, England. Horizon: Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 6, fig. 27.*
 1856. Giebel. Insect. d. vorwelt, 63.

1529. Harpalus knorri. (Carabidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl. 16, fig. 20.*
 1856. Giebel. Insect. d. vorwelt, 62.

1530. Harpalus liasinus. (Carabidæ.)

Locality: Aust, England. Horizon: Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 9, fig. 11.*
 1856. Giebel. Insect. d. vorwelt, 62.

1531. Harpalus schlottheimi. (Carabidæ.)

Localities: Apperley, Brockeridge, England. Horizon: Lias.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 6, fig. 28; Pl. 10, fig. 2.*
 1856. Giebel. Insect. d. vorwelt, 63.

1532. Helophorus ——. (Hydrophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32. *Pl. 3, fig. 2.*
 1845. Westwood. Brodie, foss. ins. sec. rocks Engl., 116. *Pl. 3, fig. 2.*

See also *H. brodiei*.

1533. Helophorus antiquus. (Hydrophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (unnamed). *Pl. 6, fig. 13.*
 1856. Giebel. Insect. d. vorwelt, 51.

1534. *Helophorus brodiei.* (Hydrophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 51.

See also *Helophorus* —— Brodie.

1535. *Helopides hildesiensis.* (Tenebrionidæ.)

Locality: Krölah bei Hildesheim, Germany. Horizon: Rhaetic.

1876. Roemer. Zeitschr. deutsch. geol. gesellsch., xxviii: 351-352. *Figs. 2, 2a.*

1536. *Helopium agabus.* (Tenebrionidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 393. *Pl. 14, fig. 2.*

1856. Giebel. Insect. d. vorwelt, 111.

Helopium neoridas. See *Helopium neoridas.*

1537. *Helopidium neoridas.* (Tenebrionidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 389-390, 395 (*neoridas*). *Pl. 16, fig. 13.*

1885. Sandler. Zittel, Handb. palæont., i, th. ii: 791. *Fig. 1017.*

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 792. *Fig. 1035.*

1538. *Hister relictus.* (Histeridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 281. *Pl. 37, fig. 50.*

1869. " Ins. foss. calc. lithogr., 35. *Pl. 4, fig. 50.*

1869. " Tijdschr. v. ent., (2), iv: 232 [132].

1874. " Periód. zool., i: 102.

1874. " Enum. syst. faune ent. mésoz., 16.

1539. *Hydrobiites veteranus.* (Hydrophilidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91, 95. *Pl. 8, fig. 23.*

1872. " Monde prim. Suisse, 111, 116. *Pl. 8, fig. 23.*

1876. " Prim. world Switz., i: 90, 94. *Pl. 8, fig. 23.*

1879. " Urwelt der Schweiz. 2^e aufl., 101, 105. *Pl. 8, fig. 23.*

See also *Hydrobiites veteranus.*

1540. *Hydrobius purbeccensis.* (Hydrophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (unnamed). *Pl. 6, fig. 12.*

1856. Giebel. Insect. d. vorwelt, 52.

1541. *Hydrobius veteranus.* (Hydrophilidæ.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 13. *Pl., figs. 15-16.*

1856. Giebel. Insect. d. vorwelt, 498.

See also *Hydrobiites veteranus.*

1542. *Hydrophilites acherontis.* (Hydrophilidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91. *Pl. 8, fig. 25.*
 1872. " Monde prim. Suisse, 111. *Pl. 8, fig. 25.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 25.*
 1879. " Urwelt der Schweiz, 2^e anfl., 101. *Pl. 8, fig. 25.*

See also *Hydrophilus acherontis*.

1543. *Hydrophilites interpunctatus.* (Hydrophilidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 64.
 1872. " Monde prim. Suisse, 78.
 1876. " Prim. world Switz., i: 64.
 1879. " Urwelt der Schweiz, 2^e anfl., 73.

1544. *Hydrophilites nathorsti.* (Hydrophilidæ.)

Locality: Bjuf, Sweden. Horizon: Rhaetic.

1878. Heer. Förhandl. geol. fören. Stockh., iv: 193-194. *Pl. 13, figs. 1, 1b, 1c.*

1545. *Hydrophilites stygius.* (Hydrophilidæ.)

Localities: Schambelen, Switzerland; Dobbertin, Meeklenburg. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91. *Pl. 8, fig. 24.*
 1872. " Monde prim. Suisse, 111. *Pl. 8, fig. 24.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 24.*
 1879. " Urwelt der Schweiz, 2^e anfl., 101. *Pl. 8, fig. 24.*
 1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 533.

1546. *Hydrophilus* ———. (Hydrophilidæ.)

Locality: England. Horizon: Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 124 (unnamed). *Pl. 6, fig. 30.*
 1856. Giebel. Insect. d. vorwelt, 55.

1547. *Hydrophilus* ———. (Hydrophilidæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 394 (unnamed). *Pl. 15, fig. 13.*
 1856. Giebel. Insect. d. vorwelt, 55.

1548. *Hydrophilus* ———. (Hydrophilidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 394 (unnamed). *Pl. 16, fig. 7.*
 1856. Giebel. Insect. d. vorwelt, 55.

1549. *Hydrophilus acherontis.* (Hydrophilidæ.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 12-13. *Pl., figs. 12-14.*
 1854. Pictet. Traité de paléont., 2^e éd., ii: 341. *Pl. 40, fig. 4*
 1856. Giebel. Insect. d. vorwelt, 498.

See also *Hydrophilites acherontis*.

1550. *Hydrophilus brodiei.* (Hydrophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 53.

See also *Colymbetes* ——— Brodie.

Hydrophilus deperditus. See II, HEMIPTERA, Idem.

1551. Hydrophilus westwoodi. (Hydrophilidae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ius. sec. rocks Engl., 32 (unnamed). *Pl. 6, fig. 3.*
 1856. Giebel. Insect. d. vorwelt, 53.

1552. Hydroporus neptuni. (Dytiscidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl. 16, fig. 28.*
 1856. Giebel. Insect. d. vorwelt, 58.

1553. Hydroporus petrefactus. (Dytiscidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 279-280. *Pl. 37, fig. 54.*
 1869. " Ins. foss. calc. lithogr., 33-34. *Pl. 4, fig. 54.*
 1869. " Tijdschr. v. ent., (2), iv: 231 [131].
 1874. " Periód. zool., i: 101.
 1874. " Énum. syst. faune ent. mésoz., 15.

1554. Hypera antiqua. (Curculionidae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ius. sec. rocks Engl., 32 (unnamed). *Pl. 6, fig. 4.* (Giebel says
Pl. 6, fig. 7; unquestionable mistake for *Pl. 6, fig. 4.*)
 1856. Giebel. Insect. d. vorwelt, 140.

1555. Laccophilus aquaticus. (Dytiscidae.)

Locality: Hasfield, England. Horizon: Lower Lias, Insect Limestone.

1845. Brodie. Foss. ius. sec. rocks Engl., 101, 124. *Pl. 6, fig. 31.*
 1856. Giebel. Insect. d. vorwelt, 59.
 1871. Phillips. Geology of Oxford, 123.

1556. Lacon petrosum. (Elateridae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 283-284. *Pl. 37, fig. 45.*
 1869. " Ins. foss. calc. lithogr., 37-38. *Pl. 4, fig. 45.*
 1869. " Tijdschr. v. ent., (2), iv: 232 [132].
 1874. " Periód. zool., i: 103.
 1874. " Énum. syst. faune ent. mésoz., 17.

1557. Lamia schroeteri. (Cerambycidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl. 16, fig. 18.*
 1856. Giebel. Insect. d. vorwelt, 131.

1558. Lamiites similimus. (Cerambycidae.)

Locality: Vyšerovicích, Bohemia. Horizon: Cretaceous.

1888. Fritsch. Vesmír, xviii: 8. *Fig. 5A.*

1559. Lathridiites schaumii. (Lathridiidae.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89 (Lathridiites). *Pl. 8, fig. 1.*
 1872. " Monde prim. Suisse, 109 (Lathridiites). *Pl. 8, fig. 1.*

1876. Heer. Prim. world Switz., i: 89 (Latriidiites). *Pl. 8, fig. 1.*
 1879. " Urwelt der Schweiz, 2^e aufl., 99 (Latriidiites). *Pl. 8, fig. 1.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 799. *Fig. 1042.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 799. *Fig. 1059.*
 1886. " Bull. U. S. geol. surv., No. 31: 78.

Latriidiites schaumii. See *Lathridiites schaumii*.

1560. Leptura primigenia. (Cerambycidae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 286. *Pl. 36, fig. 33.*
 1869. " Ins. foss. calc. lithogr., 40. *Pl. 3, fig. 33.*
 1869. " Tijdschr. v. ent., (2), iv: 232 [132].
 1874. " Periód. zool., i: 104.
 1874. " Énum. syst. faune ent. mésoz., 18.

1561. Limnius ———. (Parnidae.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32. *Pl. 6, fig. 9.*
 1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 117. *Pl. 6, fig. 9.*
 See also *Elmis brodiei*.

Megacentris tristis. See *Megacentrus tristis*.

1562. Megacentrus tristis. (Elateridae.)

Locality: Schambelen, Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 14-15. *Pl., figs. 37, 38.*
 1856. Giebel. Insect. d. vorwelt, 498 (*Megacentris*).
 1865. Heer. Urwelt der Schweiz, 88. *Pl. 7, fig. 22.*
 1872. " Monde prim. Suisse, 108. *Pl. 7, fig. 22.*
 1876. " Prim. world Switz., i: 88. *Pl. 7, fig. 22.*
 1879. " Urwelt der Schweiz, 2^e aufl., 98. *Pl. 7, fig. 22.*

1563. Melanophila (vic.) ———. (Buprestidae.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 19. *Pl. [2], figs.*
 {enb.-Ganglb.} 25-27.

1564. Melanophila costata. (Buprestidae.)

Compared with *M. decostigma*.

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 88. *Pl. 7, fig. 19.*
 1872. " Monde prim. Suisse, 107. *Pl. 7, fig. 19.*
 1876. " Prim. world Switz., i: 87. *Pl. 7, fig. 19.*
 1879. " Urwelt der Schweiz, 2^e aufl., 98. *Pl. 7, fig. 19.*

1565. Melanophila sculptilis. (Buprestidae.)

Locality: Schambelen, Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 14. *Pl., figs. 33-35.*
 1856. Giebel. Insect. d. vorwelt, 498.
 1865. Heer. Urwelt der Schweiz, 88. *Pl. 7, fig. 18.*
 1872. " Monde prim. Suisse, 107. *Pl. 7, fig. 18.*
 1876. " Prim. world Switz., i: 87. *Pl. 7, fig. 18.*
 1879. " Urwelt der Schweiz, 2^e aufl., 98. *Pl. 7, fig. 18.*

Meloe ———. See II, HEMIPTERA, Cicada ——— Brodie.

1566. *Meloe bavaricus.* (Meloidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. *Period. zool.*, i: 86, 102. *Pl.* 3, *fig.* 6.1874. " *Enum. syst. faune ent. mésoz.*, 16.1885. Scudder. *Zittel, Handb. palæont.*, i, th. ii: 790.1886. " *Zittel-Barrois, Traité de paléont.*, ii: 790.1886. " *Bull. U. S. geol. surv.*, No. 31: 69.***Meloe hoernesii.*** See II, NEUROPTERA, Idem.**1567. *Melolontha*** ———. (Scarabæidæ.)

Locality: Aust Cliff, England. Horizon: Lias.

1845. Brodie. *Foss. ins. sec. rocks Engl.*, 121-125 (unnamed). *Pl.* 9, *fig.* 7.1856. Giebel. *Insect. d. vorwelt*, 32.**1568. *Melolontha*** ———. (Scarabæidæ.)

Locality: Eyeford, England. Horizon: Stonesfield Slate.

1845. Murchison. *Geol. Cheltenham*, 68. *Pl.* 4, *fig.* 4.**1569. *Melolontha*** ———. (Scarabæidæ.)

Locality: England. Horizon: Lias.

1871. Phillips. *Geology of Oxford*, 123.**1570. *Melolonthidium*** ———. (Scarabæidæ.)

Localities: Eyeford, Stonesfield, England. Horizon: [Jura.]

1871. Phillips. *Geology of Oxford*, 173.**1571. *Mesosa germari.*** (Cerambycidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1856. Giebel. *Insect. d. vorwelt*, 129.1869. Weyenbergh. *Tijdschr. v. ent.*, (2), iv: 232 [132].See also *Cerambycinus dubius*, etc.**1572. *Micranthaxia bella.*** (Buprestidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. *Urwelt der Schweiz*, 88. *Pl.* 7, *fig.* 17.1872. " *Monde prim. Suisse*, 107. *Pl.* 7, *fig.* 17.1876. " *Prim. world Switz.*, i: 88. *Pl.* 7, *fig.* 17.1879. " *Urwelt der Schweiz*, 2^e Aufl., 98. *Pl.* 7, *fig.* 17.1885. Scudder. *Zittel, Handb. palæont.*, i, th. ii: 797. *Fig.* 1034.1886. " *Zittel-Barrois, Traité de paléont.*, ii: 797. *Fig.* 1052.**1573. *Micranthaxia rediviva.*** (Buprestidæ.)

Locality: Schambelen, Aargau, Switzerland. Horizon: Lias.

1852. Heer. *Lias-insel Aargau*, 14. *Pl.*, *fig.* 36.1856. Giebel. *Insect. d. vorwelt*, 496.1865. Heer. *Urwelt der Schweiz*, 88. *Pl.* 7, *fig.* 16.1872. " *Monde prim. Suisse*, 107. *Pl.* 7, *fig.* 16.1876. " *Prim. world Switz.*, i: 88. *Pl.* 7, *fig.* 16.1879. " *Urwelt der Schweiz*, 2^e Aufl., 98. *Pl.* 7, *fig.* 16.***Mormolucoides articulatus.*** See II, NEUROPTERA, Idem.

1574. Nitidulites argoviensis. (Nitidulidæ.)

- Localities: Schambelen, Switzerland; Dobbertin, Mecklenburg. Horizon: Lias.
1865. Heer. Urwelt der Schweiz, 90, 92. *Pl. 8, figs. 2, 3.*
1872. " Monde prim. Suisse, 110, 113. *Pl. 8, figs. 2, 3.*
1876. " Prim. world Switz., i: 89, 91. *Pl. 8, figs. 2, 3.*
1879. " Urwelt der Schweiz, 2^e Aufl., 100. *Pl. 8, figs. 2, 3.*
1880. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1880: 530 (cfr.). *Pl. 22, fig. 20.*
1884. " Zeitschr. deutsch. geol. gesellsch., 1884: 583.
1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 799. *Fig. 1044.*
1886. " Zittel-Barrois, Traité de paléont., ii: 799. *Fig. 1061.*
1886. " Bull. U. S. geol. surv., No. 31: 78.

1575. Oryctes pluto. (Scarabæidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 282. *Pl. 37, fig. 49.*
1869. " Ins. foss. calc. lithogr., 36. *Pl. 4, fig. 49.*
1869. " Tijdschr. v. ent., (2), iv: 232 [132].
1874. " Periód. zool., i: 102.
1874. " Énum. syst. faune ent. mésoz., 16.

1576. Oryctites fossilis. (Scarabæidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 238-239. *Pl. 31, fig. 2.*

1577. Otirohynchites constans. (Otirohynchidæ.)

Locality: Mšeno bei Budin, Böhmen. Horizon: Cretaceous.

1882. Fritsch. Mojs., Beitr. palaeont. Oestr.-Ung., ii: 5. *Pl. 2, fig. 2 (2 figs).*
1882. " Foss. arthr. steink. u. kreidef. Böhmens, 5. *Pl. 2, fig. 2 (2 figs).*
1884. " Vesmír, xiii: 205-206. *Fig. 2.*

Palephemera mediaeva. See II, NEUROPTERA, Idem.

1578. Petrorophus truncatus. (Nitidulidæ.)

Locality: Schambelen, Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 12. *Pl., figs. 8-9.*
1856. Giebel. Insect. d. vorwelt, 497.
1865. Heer. Urwelt der Schweiz, 90. *Pl. 8, fig. 12.*
1872. " Monde prim. Suisse, 109-110. *Pl. 8, fig. 12.*
1876. " Prim. world Switz., i: 89. *Pl. 8, fig. 12.*
1879. " Urwelt der Schweiz, 2^e Aufl., 100. *Pl. 8, fig. 12.*
1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 799.
1886. " Zittel-Barrois, Traité de paléont., ii: 799.
1886. " Bull. U. S. geol. surv., No. 31: 78.

Philonthus kneri. See II, NEUROPTERA, Idem.

1579. Pimelia wittsi. (Tenebrionidæ.)

Locality: Sevenhampton, England. Horizon: Stonesfield Slate.

1856. Giebel. Insect. d. vorwelt, 108.
- See also *Coccinella wittsii*.

1580. Pimelia zekelii. (Tenebrionidæ.)

Locality: Eyeford, England. Horizon: Stonesfield Slate.

1845. Brodie. Foss. ins. sec. rocks Engl., 48 (unnamed). *Pl. 6, fig. 20.*
1856. Giebel. Insect. d. vorwelt, 107-108.

1581. Prionidium ———. (Cerambycidae.)

Locality: Stonesfield, England. Horizon: [Jura].

1871. Phillips. Geology of Oxford, 173.

1582. Prionus antiquus. (Cerambycidae.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 395 (unnamed). *Pl.* 16, *fig.* 19.

1856. Giebel. Insect. d. vorwelt, 126.

1583. Prionus bucklandi. (Cerambycidae.)

Locality: England. Horizon: Stonesfield Slate.

1854. Morris. Catal. Brit. foss., 2d ed., 117.

See also *Prionus ooliticus*.*Prionus oolithicus.* See *Prionus ooliticus*.**1584. Prionus ooliticus.** (Cerambycidae.)Localities: Sevenhampton, Eyeford, England; Dobbertin, Mecklenburg.
Horizon: Stonesfield Slate.1845. Brodie. Foss. ins. sec. rocks Engl., 47. *Pl.* 6, *fig.* 15.1856. Giebel. Insect. d. vorwelt, 126 (*oolithicus*).1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 583 (*oolithicus*).1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 793. *Fig.* 1021.1886. “ Zittel-Barrois, Traité de paléont., ii: 793. *Fig.* 1039.See also *P. bucklandi*.**1585. Procarabus reticulatus.** (Carabidae.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 237. *Pl.* 31, *fig.* 28.**1586. Procarabus tripartitus.** (Carabidae.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 237. *Pl.* 31, *fig.* 12.**1587. Procarabus zitteli.** (Carabidae.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 236-237. *Pl.* 31, *fig.* 14.**1588. Prodytiscus eichstättensis.** (Dytiscidae.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 238. *Pl.* 31, *figs.* 19, 20.**1589. Prodytiscus longispinosus.** (Dytiscidae.)

Locality: Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 237-238. *Pl.* 31, *fig.* 15.See also *Pseudohydrophilus longispinosus*; also II, ORTHOPTERA, *Blabera avita*, etc.**1590. Progeotrupes jurassicus.** (Scarabaeidae.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 239. *Pl.* 31, *fig.* 17.*Prognatha crassa.* See II, NEUROPTERA, *Idem*.

1591. *Prototoma striata*. (Mycetophagidæ.)

Locality: Aargau, Switzerland. Horizon: Lias

1852. Heer. Lias-insel Aargau, 12. *Pl.*, fig. 11.
 1856. Giebel. Insect. d. vorwelt, 498.
 1865. Heer. Urwelt der Schweiz. *Pl.* 8, fig. 7.
 1872. " Monde prim. Suisse. *Pl.* 8, fig. 7.
 1876. " Prim. world Switz. *Pl.* 8, fig. 7.
 1879. " Urwelt der Schweiz, 2^e Aufl. *Pl.* 8, fig. 7.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 799. *Fig.* 1048.
 1886. " Zittel-Barrois, Traité de paléont., ii: 800. *Fig.* 1065.

1592. *Pseudohydrophilus longispinosus*. (Dytiscidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 67-69. *Pl.* 5, figs. 10-12.
 See also *Prodytiscus longispinosus*; also II, ORTHOPTERA, *Blabera avita*, etc.

1593. *Pyrochroa brevipes*. (Pyrochroidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 72-73. *Pl.* 5, figs. 17-18, 18*.

1594. *Saperdides cristalloso*. (Cerambycidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 85-86, 104. *Pl.* 3, fig. 5.
 1874. " Énum. syst. faune ent. mésoz., 18.

1595. *Scaphidium hageni*. (Scaphidiidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 281. *Pl.* 37, fig. 51.
 1869. " Ins. foss. calc. lithogr., 35. *Pl.* 4, fig. 51.
 1869. " Tijdschr. v. ent., (2), iv: 232 [132].
 1874. " Periód. zool., i: 102 (Scaphidnum).
 1874. " Énum. syst. faune ent. mésoz., 16 (Scaphidium).

Scaphidium hageni. See *Scaphidium hageni*.*Scarabæites deperditus*. See II, HEMIPTERA, *Idem*.*Scarabæus deperditus*. See II, HEMIPTERA, *Idem*.**1595a. *Silpha* ——. (Silphidæ.)**

Locality: Bohemia. Horizon: Cretaceous.

- [1883. Frič. Arch. výsk. čech., díl. 1, odd. 2, str. 170.]
 See also *Silphites prisens*, etc.

1596. *Silpha tenuilythris*. (Silphidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 280-281. *Pl.* 37, fig. 48.
 1869. " Ins. foss. calc. lithogr., 34-35. *Pl.* 4, fig. 48.
 1869. " Tijdschr. v. ent., (2), iv: 232 [132], (orig. *Silphate*).
 1869. " Tijdschr. v. ent., (2), iv: 232 [132], (emend. *Silpha*).
 1874. " Periód. zool., i: 102.
 1874. " Énum. syst. faune ent. mésoz., 16.

Silphate tenuilythris. See *Silpha tenuilythris*.

1597. *Silphites angusticollis.* (Silphidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 239. Pl. 31, fig. 6.

1598. *Silphites cetoniformis.* (Silphidæ.)

Locality: Eichstadt, Bavaria. Horizon: Jura.

1888. Oppenheim. Palaeontogr., xxxiv: 239. Pl. 31, fig. 16.

1599. *Silphites priscus.* (Silphidæ.)

Locality: Koumic, Bohemia. Horizon: Peruczer schichten, Cretaceous.

1882. Fritsch. Mojs., Beitr. palaeont. Oestr.-Ung., ii: 4-5. Pl. 2, fig. 1 (2 figs.).

1882. " Foss. arthr. steink. u. kreidef. Böhmens, 4-5. Pl. 2, fig. 1 (2 figs.).

1884. " Vesmír, xiii: 205-206. Fig. 1.

See also ——— Frič, *Silpha* ——— Frič.**1600. *Sitonites melanarius.* (Curculionidæ.)**

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 90. Pl. 8, fig. 16.

1872. " Monde prim. Suisse, 109. Pl. 8, fig. 16.

1876. " Prim. world Switz., i: 89. Pl. 8, fig. 16.

1879. " Urwelt der Schweiz, 2^e Aufl., 100. Pl. 8, fig. 16.**1601. *Sphenoptera sphinx.* (Buprestidæ.)**Compared with *S. karelini*.

Locality: Eichstadt, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 70-72. Pl. 5, figs. 15-16.

See also *Actea sphinx*, *Chrysobothris veterana*.**1602. *Strongylites lævigatus.* (Nitidulidæ.)**

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89.

1872. " Monde prim. Suisse, 109.

1876. " Prim. world Switz., i: 88.

1879. " Urwelt der Schweiz, 2^e Aufl., 99.**1603. *Strongylites morio.* (Nitidulidæ.)**

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89. Pl. 7, fig. 24.

1872. " Monde prim. Suisse, 109. Pl. 7, fig. 24.

1876. " Prim. world Switz., i: 88. Pl. 7, fig. 24.

1879. " Urwelt der Schweiz, 2^e Aufl., 99. Pl. 7, fig. 24.**1604. *Strongylites stygius.* (Nitidulidæ.)**

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 89. Pl. 7, fig. 23.

1872. " Monde prim. Suisse, 109. Pl. 7, fig. 23.

1876. " Prim. world Switz., i: 88. Pl. 7, fig. 23.

1879. " Urwelt der Schweiz, 2^e Aufl., 99. Pl. 7, fig. 23.

1605. Telephorium abgarus. (Lampyridæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 395. *Pl. 17, fig. 4.*
 1856. Giebel. Insect. d. vorwelt, 102.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 796.
 1886. " Zittel-Barrois, Traité de paléont., ii: 796.
 1886. " Bull. U. S. geol. surv., No. 31: 76.

1606. Telephorus haueri. (Lampyridæ.)

Locality: Forthampton, England. Horizon: Lower Lias.

1845. Brodie. Foss. ins. sec. rocks Engl., 101 (unnamed). *Pl. 6, fig. 29.*
 1856. Giebel. Insect. d. vorwelt, 101.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 796. *Fig. 1031.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 796. *Fig. 1049.*

1607. Tenebrio innominatus. (Tenebrionidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 285. *Pl. 37, fig. 41.*
 1869. " Ins. foss. calc. lithogr., 39. *Pl. 4, fig. 41.*
 1869. " Tijdschr. v. ent., (2), iv: 232 [132].
 1874. " Periód. zool., i: 104.
 1874. " Émm. syst. faune ent. mésoz., 18.

1608. Tenebrio rugosostriatus. (Tenebrionidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 32 (unnamed). *Pl. 6, fig. 2.*
 1856. Giebel. Insect. d. vorwelt, 109.

1609. Tentyridium peleus.

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 393. *Pl. 14, fig. 21.*
 1856. Giebel. Insect. d. vorwelt, 107.

1610. Thurmannia punctulata. (Carabidæ.)

Locality: Schambelen, Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 11-12. *Pl., figs. 1, 2.*
 1856. Giebel. Insect. d. vorwelt, 497.
 1865. Heer. Urwelt der Schweiz, 90. *Pl. 8, fig. 17.*
 1872. " Monde prim. Suisse, 110. *Pl. 8, fig. 17.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 17.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 100. *Pl. 8, fig. 17.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 803. *Fig. 1068.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 804. *Fig. 1085.*
 1889. Nicholson. Man. palæont., 3d ed., i: 601. *Fig. 449b.*

1611. Timarchopsis czekanowskii. (Chrysomelidæ.)

Locality: Ust Balcı, Siberia. Horizon: Lias.

1839. {Braner-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 17-18. *Pl. [2],*
 {enb.-Ganglb.} *fig. 22.*

1612. *Trixagites floralis*. (Throscidæ.)

Locality: Schaubelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 90. *Pl. 8, fig. 8.*
 1872. " Monde prim. Suisse, 110. *Pl. 8, fig. 8.*
 1876. " Prim. world Switz., i: 89. *Pl. 8, fig. 8.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 100. *Pl. 8, fig. 8.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 797.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 797.
 1886. " Bull. U. S. geol. surv., No. 31: 77.

Trogulus ———. See Trogus ———.

1613. *Trogus* ———. (Dytiscidæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 16 (*Trogulus*).

1614. *Velenovskya inornata*.

Locality: Bohemia. Horizon: Cretaceous.

1888. Fritsch. Vesmír, xviii: 8. *Fig. 5B.*

1615. *Wollastonia ovalis*. (Hydrophilidæ.)

Locality: Aargau, Switzerland. Horizon: Lias.

1852. Heer. Lias-insel Aargau, 13. *Pl., fig. 17.*
 1856. Giebel. Insect. d. vorwelt, 498.

See also *Wollastonites ovalis*.**1616. *Wollastonites ovalis*. (Hydrophilidæ.)**

Locality: Schaubelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91. *Pl. 8, fig. 26.*
 1872. " Monde prim. Suisse, 111. *Pl. 8, fig. 26.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 26.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 101. *Pl. 8, fig. 26.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 802. *Fig. 1062.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 803. *Fig. 1079.*

See also *Wollastonia ovalis*.**DIPTERA.****1617. ——— ———.**

Locality: Govers Cliff End, England. Horizon: Wealden.

1854. Binfield. Quart. Journ. geol. soc. Lond., x: 172.

—————. See II, HEMIPTERA, *Tettigonia* ——— Borre.**1618. ——— ———.**

Locality: Dumbleton, England. Horizon: Upper Lias.

1873. Brodie. Distr. corr. foss. ins., 15.

1619. ——— ———.

Localities: Wainlode, Apperley, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 17.

1620. ———— .

Localities: Brown's Wood and Stoooper's Wood, near Henley in Arden, England.
 Horizon: Lias.

1875. Brodie. Lower Lias Eatington, etc., 10.

1621. ———— .

Locality: Copt Heath, near Knowle, England. Horizon: Lower Lias.

1875. Brodie. Lower Lias Eatington, etc., 10.

1622. ———— (larva).

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Westwood. Brodie, Foss. ins. sec. rocks Engl., 121. *Pl. 4, fig. 1.*

——— (Chironomidæ.) See *Rhyphus prisceus*.

1623. ———— (Empidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34 (Westwood, 121). *Pl. 3, fig. 11.*

See also *Hasmona leo*.

1624. ———— (several sp.). (Tipulidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34.

1625. ———— (Tipulidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 386, 393. *Pl. 15, fig. 1.*

1626. ———— (Tipulidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 20.*

1627. *Adonia fittoni*. (Mycetophilidæ.)

Locality: England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 239.

See also *Platyura fittoni*.

1628. *Asilicus lithophilus*. (Asilidæ.)

Localities: Kelheim, Solenhofen, Bavaria. Horizon: Jura.

1842. Germar. Münst., Beitr. z. petref., v: 87-88. *Pl. 9, fig. 7.*

1852. Giebel. Deutschl. petref., 642.

1854. Pictet. Traité de paléont., 2^e éd., ii: 400. *Pl. 40, fig. 9.*

1856. Giebel. Insect. d. vorwelt, 211.

1862. Hagen. Palaeontogr., x: 111.

1869. Weyenbergh. Arch. mus. Teyl., ii: 255-256. *Pl. 34, fig. 4.*

1869. " Ins. foss. calc. lithogr., 9-10. *Pl. 1, fig. 4.*

1869. " Tijdschr. v. ent., (2), iv: 237.

1874. " Periód. zool., i: 89 (lithophilus).

1874. " Énum. syst. faune ent. mésoz., 3 (lithophilus).

1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192 (Orthopt. near *Locusta amanda*).

Asilicus littophilus. See *Asilicus lithophilus*.

1629. Asilus ignotus. (Asilidæ.)

Locality: Forthampton, England. Horizon: Insect Limestone, Lower Lias.

1845 Brodie. Foss. ins. sec. rocks Engl., 102, 128. *Pl. 7, fig. 19.*

1856 Giebel. Insect. d. vorwelt, 211.

1871. Phillips. Geology of Oxford, 123.

1630. Asuba brodiei. (Culicidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 253.

See also *Fanypus dubius*.

1631. Bria prisca. (Rhyphidæ?)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 226-227.

See also *Rhyphus prisca*.

1632. Campylomyza grandæva.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1856. Giebel. Insect. d. vorwelt, 248.

See also *Cecidomium grandævum*.

1633. Cecidomium grandævum.

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. *Pl. 15, fig. 21.*

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 810.

1886. " Zittel-Barros. Traité de paléont., ii: 811.

1886. " Bull. U. S. geol. surv., No. 31: 91.

See also *Campylomyza grandæva*.

Cheilisia dubia. See *Chilosia dubia*.

1634. Chenesia (or Macropeza) ———. (Chironomidæ?)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34, 121. *Pl. 5, fig. 15.*

See also *Macropeza prisca*, etc.

1635. Chilosia dubia. (Syrphidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 259 (*Cheilisia*). *Pl. 34, fig. 3.*

1869. " Ins. foss. calc. lithogr., 13. *Pl. 1, fig. 3.*

1869. " Tijdschr. v. ent., (2), iv: 237.

1874. " Periód. zool., i: 90.

1874. " Énum. syst. faune ent. mésoz., 4.

1636. Chironomus ———. (Chironomidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34, 121. *Pl. 3, fig. 14.*

See also *C. arrogans*.

1637. Chironomus arrogans. (Chironomidæ.)

Locality: England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 250.

See also *Chironomus ——— Brodie*.

1638. Chironomus extinctus. (Chironomidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34, 121. *Pl. 4, fig. 5.*

1856. Giebel. Insect. d. vorwelt, 249-250.

1639. Corethrium pertinax. (Chironomidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 387, 393-394. *Pl. 15, fig. 2.*

1856. Giebel. Insect. d. vorwelt, 242.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 810. *Fig. 1082.*

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 811. *Fig. 1099.*

1886. " Bull. U. S. geol. surv., No. 31: 91.

1640. Culex fossilis. (Culicidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34, 121. *Pl. 3, fig. 15.*

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 810.

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 811.

1886. " Bull. U. S. geol. surv., No. 31: 92.

See also *Dara fossilis*.

1641. Dara fossilis. (Culicidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 254.

See also *Culex fossilis*.

1642. Empidia wulpîi. (Empidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 258. *Pl. 34, figs. 5, 5a.*

1869. " Ins. foss. calc. lithogr., 12. *Pl. 1, figs. 5, 5a.*

1869. " Tijdschr. v. ent., (2), iv: 237.

1874. " *Periód. zool.*, i: 89.

1874. " *Enum. syst. faune ent. mésoz.*, 3.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 88.

1643. Hasmona leo. (Empidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 209.

See also ——— (Empidæ) Brodie.

1644. Macrocera rustica. (Mycetophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34, 121. *Pl. 3, fig. 13.*

See also *Sama rustica*.

1645. Macropeza (or Chenesia) ———. (Chironomidæ?.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34, 121. *Pl. 5, fig. 15.*

See also *Chenesia* ———, *Macropeza prisca*.

1646. Macropeza liasina. (Chironomidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1884. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 582-583. *Pl. 13, fig. 27.*

1647. *Macropeza prisca*. (Chironomidæ ?.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 252.

See also *Macropeza* ———, *Chenesia* ———.

1648. *Mesopsychoda dasyptera*. (Culicidæ.)

Compared with *Ulomyia fuliginosa* Meig.

Locality: Ust Balei, Siberia. Horizon: Lias.

1889. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 17. *Pl.* [2],
{enb.-Ganglb.} *fig.* 21.

***Musca lithophila*. See II, ORTHOPTERA, Idem.**

1649. *Platyura fittoni*. (Mycetophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 121. *Pl.* 3, *fig.* 9.

See also *Adonia fittoni*.

16 0. *Protomyia dubia*. (Bibionidæ.)

Locality: Dobbertin, Mecklenburg. Horizon: Lias.

1854. E. Geinitz. Zeitschr. deutsch. geol. gesellsch., 1884: 582. *Pl.* 13, *fig.* 26.

1855. Scudder. Zittel, Handb. palaeont., i, th. ii: 810 (not to Diptera).

1886. " Zittel-Barrois, Traité de paléont., ii: 812.

1886. " Bull. U. S. geol. surv., No. 31: 92.

Psychoptera ———. See Ptychoptera ———.

1651. *Ptychoptera* (vic.) ———. (Tipulidæ.)

Locality: Ust Balei, Siberia. Horizon: Lias.

1839. {Brauer-Redt-} Mém. acad. sc. St.-Pétersb., (7), xxxvi, No. 15: 20 (*Psychoptera*).
{enb.-Ganglb.}

1652. *Remalia sphinx*. (Syrphidæ.)

Locality: England. Horizon: Wealden.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl.* 4, *fig.* 4.

1856. Giebel. Insect. d. vorwelt, 199.

1653. *Rhyphus priscus*. (Rhyphidæ ?)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34, 121. *Pl.* 4, *fig.* 10.

1855. Scudder. Zittel, Handb. palaeont., i, th. ii: 809, 810 (*Chironomidæ* ?)

1886. " Zittel-Barrois, Traité de paléont., ii: 810, 811.

1886. " Bull. U. S. geol. surv., No. 31: 90, 91.

See also *Bria prisca*.

1654. *Sama rustica*. (Mycetophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 238-239.

See also *Macrocera rustica*.

***Sciara prisca*. See II, NEUROPTERA, Idem.**

1655. *Sciophila* ———. (Mycetophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl. (unnamed). *Pl. 4, fig. 2.*
 1856. Giebel. Insect. d. vorwelt, 254.

1656. *Sciophila defossa*. (Mycetophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 34, 121. *Pl. 3, fig. 12.*
 See also *Thimna defossa*.

1657. *Simulidium humidum*. (Simulidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 229.
 See also *Simulium humidum*.

1658. *Simulidium priscum*. (Simulidæ.)

Locality: Durdlestone Bay, England. Horizon: Middle Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 384, 394. *Pl. 15, fig. 15.*
 1856. Giebel. Insect. d. vorwelt, 229.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 811. *Fig. 1087.*
 1886. “ Zittel-Barrois, *Traité de paléont.*, ii: 812. *Fig. 1104.*
 1886. “ Bull. U. S. geol. surv., No. 31: 93.

1659. *Simulium humidum*. (Simulidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 121. *Pl. 3, fig. 8.*
 1886. Scudder. Bull. U. S. geol. surv., No. 31: 93.
 See also *Simulidium humidum*.

1660. *Tanypus dubius*. (Culicidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1845. Brodie. Foss. ins. sec. rocks Engl., 33, 121. *Pl. 3, fig. 10.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 810.
 1886. “ Zittel-Barrois, *Traité de paléont.*, ii: 811.
 1886. “ Bull. U. S. geol. surv., No. 31: 91.

See also *Asnba brodiei*.

1661. *Thimna defossa*. (Mycetophilidæ.)

Locality: Vale of Wardour, England. Horizon: Purbecks.

1856. Giebel. Insect. d. vorwelt, 235.
 See also *Sciophila defossa*.

1662. *Thiras westwoodi*. (Mycetophilidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 396 (unnamed). *Pl. 18, fig. 20.*
 1856. Giebel. Insect. d. vorwelt, 235.

1663. *Tipula* ———. (Tipulidæ.)

Locality: Strensham, England. Horizon: Lower Lias.

1873. Brodie. Distr. corr. foss. ins., 17.

1664. Tipula ———. (Tipulidæ.)

Locality: Dumbleton, England. Horizon: Lias.

1843. Buckman. Quart. journ. geol. soc. Lond., iv: 212 (undescrib.).

1844. " Ann. nat. hist., xiv: 74 (undescrib.).

1665. Tipula ———. (Tipulidæ.)

Locality: England. Horizon: Upper Lias.

1845. Murchison. Geol. Cheltenham, new ed., 108. Pl. 8, fig. 3.

1666. Tipula ———. (Tipulidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 393 (unnamed). Pl. 15, fig. 1.

1856. Giebel. Insect. d. vorwelt, 242.

1667. Tipularia teyleri. (Tipulidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 257-258. Pl. 34, figs. 6, 6a.

1869. " Ins. foss. calc. lithogr., 11-12. Pl. 1, figs. 6, 6a.

1869. " Tijdschr. v. ent., (2), iv: 237.

1874. " Periód. zool., i: 89.

1874. " Énum. syst. faune ent. mésoz., 3.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 809.

1886. " Zittel-Barrois, Traité de paléont., ii: 810.

1886. " Bull. U. S. geol. surv., No. 31: 90.

LEPIDOPTERA.**1668.** ——— ———.

Locality: England. Horizon: Lower Purbecks.

1873. Brodie. Distr. corr. foss. ins., 15 ("very doubtful").

1669. ——— ——— (butterfly).

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. Pl. 18, fig. 30.

1670. ——— ——— (larval mines). (Tineidæ and Tortricidæ.)

Locality: Kansas, Nebraska. Horizon: Dakota Group.

1882. Hagen. Nature, xxv: 265-266 (refers to figures of Lesquereux's Cretaceous flora.

————— (Tortricidæ). See ——— ——— (Tineidæ and Tortricidæ).

Breyeria borinensis. See II, NEUROPTERA, Idem.**Cyllonium boisduvalianum.** See II, NEUROPTERA, Idem.**Cyllonium hewitsonianum.** See II, NEUROPTERA, Idem.**Fabellovena compressa.** See II, HYMENOPTERA, Idem.**Fabellovena elegans.** See II, HYMENOPTERA, Idem.**Fabellovena karschii.** See II, HYMENOPTERA, Idem.

1671. Palæocossus jurassicus.

Locality: Eastern Siberia. Horizon: Brown Jura.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 333. Pl. 10, figs. 4, 6.
 1886. Scudder. Zittel-Barrois, Traité de paléont., ii: 814, note.
 1886. " Bull. U. S. geol. surv., xxxi: 96.

Palæontina oolitica. See II, HEMIPTERA, Idem.

Phragmatæcites damesii. See II, HEMIPTERA, Idem.

Pseudosirex darwini. See II, HYMENOPTERA, Idem.

Rhipidorhabdus gracilis. See II, HYMENOPTERA, Idem.

Rhipidorhabdus minimus. See II, HYMENOPTERA, Idem.

Rhipidorhabdus schroeteri. See II, HYMENOPTERA, Idem.

Sphinx ———. See II, HYMENOPTERA, Idem.

Sphinx schroeteri. See II, HYMENOPTERA, Idem.

Sphinx snelleni. See II, HYMENOPTERA, Idem.

1672. Tinea araliæ (mines).

Locality: Mšeno, Bohemia. Horizon: Cretaceous.

1882. Fritsch. Mojs., Beitr. palaeont. Oestr.-Ung., ii: 6. Pl. 2, fig. 7.
 1882. " Foss. arthr. steink.-'n. kreidef. Böhmens, 6. Pl. 2, fig. 7.
 1884. " Vesmír, xiii: 205-206. Fig. 7.

Tineites crystalli. See III, LEPIDOPTERA, Idem.

Tineites lithophilus. See II, NEUROPTERA, Idem.

HYMENOPTERA.**1673. Anomalon palæon. (Ichneumonidæ.)**

Locality: Solenhofen, Bavaria. Horizon: Jura.

1874. Weyenbergh. Periód. zool., i: 86, 91. Pl. 3, figs. 7, 8.
 1874. " Enum. syst. faune ent. mésoz., 5.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 815.
 1886. " Zittel-Barrois, Traité de paléont., ii: 817.
 1886. " Bull. U. S. geol. surv., No. 31: 97.

1674. Apiaria antiqua.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Münster. MSS.
 1839. Germar. Verhandl. leop.-carol. acad. naturf., xix: 210-211. Pl. 22, fig. 10αβ.
 1850. Heer. Verhandl. schweiz. gesellsch. ges. naturwiss., xxxiv: 81-82 (refers it to Termites).
 1850. " Geschichte d. insekt., 4-5.
 1850. " Neues jahrb. min., 1850: 18.
 1850. " Quart. journ. geol. soc. Lond., vi, ii: 69.
 1852. Giebel. Deutschl. petref., 644.
 1856. " Insect. d. vorwelt, 184, 497.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, i: 48 (refers it to Termes).¹
 1862. " Palaeontogr., x: 111 (Hymenopt. not Termes).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 815.
 1886. " Zittel-Barrois, Traité de paléont., ii: 817.
 1886. " Bull. U. S. geol. surv., No. 31: 97.

See also *Sirex antiquus*.

1675. *Apiaria lapidea*.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1842. Germar. Münst., Beitr. z. petref., v: 84-85. *Pl. 9, fig. 5; Pl. 13, fig. 10*.
 1850. Heer. Verhandl. schweiz. gesellsch. ges. naturwiss., xxxiv: 81.
 1850. " Geschichte d. insekt., 4 (calls it an ant).
 1850. " Neues jahrb. min., 1850: 18.
 1850. " Quart. journ. geol. soc. Lond., vi, ii: 68.
 1856. Giebel. Insect. d. vorwelt, 184, 497.
 1862. Hagen. Palaeontogr., x: 111 (perhaps = *Carabicina decipiens*).
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 236.
 1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192 (= *Carabicina decipiens*).
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 815.
 1886. " Zittel-Barrois, Traité de paléont., ii: 817.
 1886. " Bull. U. S. geol. surv., No. 31: 97.

See also II, COLEOPTERA, *Carabicina decipiens*.

1676. *Apiaria veterana*.

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 260. *Pl. 34, fig. 8*.
 1869. " Ins. foss. calc. lithogr., 14. *Pl. 1, fig. 8*.
 1869. " Tijdschr. v. ent., (2), iv: 236.
 1874. " Periód. zool., i: 90.
 1874. " Énum. syst. faune ent. mésoz., 4.

1677. *Belostoma elongata*. (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1839. Germar. Verhandl. leop.-carol. akad. naturf., xix: 205-206 (*Belostomum*).
Pl. 22, fig. 6.
 1852. Giebel. Deutschl. petref., 636.
 1856. " Insect. d. vorwelt, 371.
 1862. Hagen. Palaeontogr., x: 111.
 1869. Weyenbergh. Tijdschr. v. ent., (2), iv: 233 [133].
 1873. " Arch. mus. Teyl., iii: 239.
 1873. " Notes ins. calc. jurass., 6.
 1874. " Periód. zool., i: 83-84 (is a Hymenopt.?).
 1877. Assmann. Ber. versamml. deutsch. naturf., 1: 192 (Hymenopt. near *Sirex*).
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 815. *Fig. 1094*.
 1886. " Zittel-Barrois, Traité de paléont., ii: 814 note, 817. *Fig. 1111*.
 1886. " Bull. U. S. geol. surv., No. 31: 61, 96, 97.

See also *Sphinx schroeteri*, etc.

1678. *Belostoma schroeteri*. (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1862. Hagen. Palaeontogr., x: 109, 111-112.

See also *Sphinx schroeteri*, etc.

***Belostomum elongatum*. See *Belostomum elongata*.**

1679. *Bombus ? conservatus.* (Apidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 259-260. *Pl. 34, fig. 7.*
 1869. " Ins. foss. calc. lithogr., 13-14. *Pl. 1, fig. 7.*
 1869. " Tijdschr. v. ent., (2), iv: 236.
 1874. " Periód. zool., i: 90.
 1874. " Énum. syst. faune ent. mésoz., 4.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 815.
 1886. " Zittel-Barrois, Traité de paléont., ii: 817.
 1886. " Bull. U. S. geol. surv., No. 31: 97.

1680. *Fabellovena compressa.* (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 345. *Pl. 12, fig. 11.*
 See also *Sphinx schroeteri*, etc.

1681. *Fabellovena elegans.* (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 345. *Pl. 12, fig. 14.*
 See also *Sphinx schroeteri*, etc.

1682. *Fabellovena karschi.* (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 344. *Pl. 12, fig. 13.*
 See also *Sphinx schroeteri*, etc.

1683. *Formicium brodiei.* (Formicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. Journ. geol. soc. Lond., x: 388, 393. *Pl. 14, fig. 8.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 815, 816. *Fig. 1095.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 817. *Fig. 1112.*
 1886. " Bull. U. S. geol. surv., No. 31: 97.
 See also *Ponera brodiei*.

1684. *Hagenia schroeteri.* (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 250, 272.
 1869. " Ins. foss. calc. lithogr., 4, 26.
 1869. " ? Tijdschr. v. ent., (2), iv: 233 [133].
 See also *Sphinx schroeteri*, etc.

1685. *Ichneumon* ———. (Ichneumonidæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1820. Schlotheim. Petrefactenk., 43.

1686. *Myrmica heeri.* (Formicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 178.
 See also *Myrmicium heeri*.

1687. Myrmicium heeri. (Formicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 390, 396. *Pl. 18, fig. 21.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 815.
 1886. " Zittel-Barrois, Traité de paléont., ii: 817.
 1886. " Bull. U. S. geol. surv., No. 31: 97.

See also *Myrmica heeri*.

1688. Nematus cretaceus (eggs).

Considered by Renger as a cryptogam and called *Pteridophyllites sorigerus*.

Locality: Bohdankov, Bohemia. Horizon: Cretaceous.

1882. Fritsch. Mojs., Beitr. palæont. Oestr.-Ung., ii: 6. *Pl. 2, figs. 4-6.*
 1882. " Foss. arthr. steink.-u. kreidef. Böhmen, 6. *Pl. 2, figs. 4-6.*
 1884. " Vesmír, xiii: 205-206. *Figs. 4-5.*

1689. Palæomyrmex prodromus. (Formicidæ.)

Locality: Schambelen, Switzerland. Horizon: Lias.

1865. Heer. Urwelt der Schweiz, 91. *Pl. 8, fig. 31.*
 1872. " Monde prim. Suisse, 111. *Pl. 8, fig. 31.*
 1876. " Prim. world Switz., i: 90. *Pl. 8, fig. 31.*
 1879. " Urwelt der Schweiz, 2^e anfl., 101. *Pl. 8, fig. 31.*
 1879. Goss. Ent. monthl. mag., xvi: 9 (prob. not Hymenopt.).
 1880. " Geol. ant. ins., 26 (prob. not Hymenopt.).
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 815. *Fig. 1093.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 817. *Fig. 1110.*
 1886. " Bull. U. S. geol. surv., No. 31: 97.

1690. Ponera brodiei. (Formicidæ.)

Locality: Durdlestone Bay, England. Horizon: Lower Purbecks.

1856. Giebel. Insect. d. vorwelt, 173-174.

See also *Formicium brodiei*.

1691. Pseudosirex darwini. (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1873. Weyenbergh. Arch. mus. Teyl., iii: 238.
 1873. " Notes ins. calc. jurass., 5.
 1874. " Periód. zool., i: 82-83, 91. *Pl. 3, figs. 1, 2.*
 1874. " Énum. syst. faune ent. mésoz., 5.
 1878. " Pet. nouv. entom., ii: 253.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 813.
 1886. " Zittel-Barrois, Traité de paléont., ii: 814.
 1886. " Bull. U. S. geol. surv., No. 31: 95.

See also *Sphinx schreoteri*, etc.

1692. Pseudosirex elongatus. (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 83-84. *Pl. 5, figs. 21-22.*

See also *Sphinx schreoteri*, etc.

1693. Pseudosirex minimus. (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1886. Deichmüller. Ins. lith. schichten dresd. mus., 84. *Pl. 5, fig. 23.*

See also *Rhipidorhabdus minimus*.

1694. Pseudosirex schrœteri. (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1886. Deichmüller. *Ins. lith. schichten dresd. mus.*, 82-83.See also *Sphinx schrœteri*, etc.**1695. Rhipidorhabdus** ———. (Uroceridæ.)

Locality: Bavaria. Horizon: Jura.

1888. Oppenheim. *Palaeontogr.*, xxxiv: 243-247. *Pl.* 30, *fig.* 10.**1696. Rhipidorhabdus gracilis.** (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1885. Oppenheim. *Berl. entom. zeitschr.*, xxix: 344. *Pl.* 11, *fig.* 10.See also *Sphinx schrœteri*, etc.**1697. Rhipidorhabdus minimus.** (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1885. Oppenheim. *Berl. entom. zeitschr.*, xxix: 344. *Pl.* 11, *fig.* 9.See also *Pseudosirex minimus*.**1698. Rhipidorhabdus schrœteri.** (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1885. Oppenheim. *Berl. entom. zeitschr.*, xxix: 344. *Pl.* 11, *fig.* 7.See also *Sphinx schrœteri*, etc.**1699. Sirex antiquus.**

Locality: Solenhofen, Bavaria. Horizon: Jura.

1877. Assmann. *Ber. versamml. deutsch. naturf.*, 1: 192.See also *Apiaria antiqua*.**1700. Sphinx** ———. (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1820. Schlotheim. *Petrefactenk.*, 42.See also *Sphinx schrœteri*, etc.**1701. Sphinx schrœteri.** (Uroceridæ.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1784. Schroeter. *Neue literatur u. beytr.*, i: 411-413 (unnamed, compared by him to *S. convolvuli*). *Pl.* 3, *fig.* 16.1820. Schlotheim. *Petrefactenk.*, 42 ("Sphinx").1839. Germar. *Verhandl. leop.-carol. akad. naturf.*, xix: 193.1852. Giebel. *Deutschl. petref.*, 644.1856. " *Insect. d. vorwelt*, 188.1877. Assmann. *Ber. versamml. deutsch. naturf.*, 1: 192 ("Holzwespe").1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 815 (not a *Belostoma*).1886. " *Zittel-Barrois, Traité de paléont.*, ii: 817.1886. " *Bull. U. S. geol. surv.*, No. 31: 97.See also *Sphinx* ——— *Schlotheim*, *Belostoma schrœteri*, *Hagenia schrœteri*, *Rhipidorhabdus schrœteri*, *Pseudosirex schrœteri*, *Belostoma elongata*, *Pseudosirex elongata*, *Sphinx snelleni*, *Pseudosirex darwini*, *Rhipidorhabdus gracilis*, *Fabellovena compressa*, *F. elegans*, *F. karschi*.

1702. *Sphinx snelleni*. (Uroceridae.)

Locality: Solenhofen, Bavaria. Horizon: Jura.

1869. Weyenbergh. Arch. mus. Teyl., ii: 261-263. *Pl.* 34, *figs.* 9, 9a, 10, 10a.
 1869. " Ins. foss. calc. lithogr., 15-17. *Pl.* 1, *figs.* 9, 9a, 10, 10a.
 1869. " Tijdschr. v. ent., (2), iv: 236.
 1873. " Arch. mus. Teyl., iii: 236-239.
 1873. " Notes ins. calc. jurass., 3-6.
 1874. " Periód. zool., i: 91.
 1874. " Énum. syst. faune ent mésoz., 5.
 1880. Dawson. Chain of life, 149. *Fig.* 130.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii, 813.
 1886. " Zittel-Barrois, Traité de paléont., ii: 814.
 1886. " Bull. U. S. geol. surv., No. 31: 95.

See also *Sphinx schræteri*, etc.**TRACKS AND FOOTPRINTS.**

[Found in the older rocks, mostly in the Trias, and accredited to insects.]

1703. ——— (unnamed).

Locality: Connecticut River, Mass. Horizon: Trias.

1856. Deane. Journ. acad. nat. sc. Philad., (2), iii: 176-177, 177. *Pl.* 19, *figs.* e, h, k, l.
 1861. " Ichogr. Conn. river, 58. *Pl.* 40, *fig.* 4; *Pl.* 42, *figs.* 1-3.

1704. *Acanthichnus alatus*.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 14, 16. *Pl.* 6, *fig.* 6.

1705. *Acanthichnus alternans*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 14, 16 (=A. cursorius pars.). *Pl.* 6, *fig.* 5

1706. *Acanthichnus anguineus*.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 14, 16. *Pl.* 7, *fig.* 4.

1707. *Acanthichnus cursorius*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1856. Deane. Journ. acad. nat. sci. Philad., (2), iii: 176 (without name). *Pl.* 19, *fig.* f.
 1858. Hitchcock. Ichn. N. Engl., 150-151. *Pl.* 28, *fig.* 1; *Pl.* 31, *fig.* 1.
 1865. " Suppl. ichn. N. Engl., 13, 16. *Pl.* 6, *figs.* 1, 7, 8, 18; *Pl.* 7, *fig.* 10.

See also *A. alternans*.**1708. *Acanthichnus divaricatus*.**

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16. *Pl.* 6, *fig.* 10; *Pl.* 7, *fig.* 10.

1709. *Acanthichnus punctatus*.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16. *Pl.* 6, *fig.* 13.

1710. Acanthichnus rectilinearis.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16. *Pl. 6, fig. 2.***1711. Acanthichnus saltatorius.**

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 151. *Pl. 28, figs. 4, 5.*1861. Deane. Ichnogr. Conn. river, 57. *Pl. 40, fig. 1.*1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16. *Pl. 6, figs. 9, 12.***1712. Acanthichnus tardigradus.**

Locality: Turner's Falls, Mass. Horizon: Trias.

1856. Deane. Journ. acad. nat. sc. Philad., (2), iii: 176 (without name). *Pl. 19, fig. g.*1858. Hitchcock. Ichn. N. Engl., 151. *Pl. 28, fig. 1.*1861. Deane. Ichnogr. Conn. river, 58. *Pl. 40, fig. 3.*See also *Pterichnus centipes*.**1713. Acanthichnus trilinearis.**

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 14-15, 16. *Pl. 6, fig. 11.***1714. Ampelichnus sulcatus.**

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 19-20. *Pl. 6, fig. 16.*See also *Grammepus unordinatus*.**1715. Bifurculapes — —.**

Locality: Connecticut River, Mass. Horizon: Trias.

1861. Deane. Ichnogr. Conn. river, 58. *Pl. 41, fig. 4.***1716. Bifurculapes curvatus.**

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16 (*Bifurculipes*). *Pl. 7, figs. 2, 9.*1890. Lesley. Dict. foss. Penns., ii: 807. *Fig.***1717. Bifurculapes elachistotatus.**

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 154-155. *Pl. 29, fig. 4; Pl. 30, fig. 3*

1865. " Suppl. ichn. N. Engl., 16.

1718. Bifurculapes laqueatus.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 153. *Pl. 30, figs. 1-3.* (*Fig. 2* is marked *tardigradus* on the plate.)1861. Deane. Ichnogr. Conn. river, 58. *Pl. 41, figs. 5, 6.*

1865. Hitchcock. Suppl. ichn. N. Engl., 16.

1719. Bifurculapes scolopendroideus.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 153-154. *Pl. 27, fig. 1.*

1865. " Suppl. ichn. N. Engl., 14, 16.

Bifurculapes tardigradus. See *B. laqueatus*.

1720. Bifurculapes tuberculatus.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 153. *Pl. 28, fig. 1; Pl. 30, fig. 4.*
 1861. Deane. Ichnogr. Conn. river, 58. *Pl. 41, fig. 2.*
 1865. Hitchcock. Suppl. ichn. N. Engl., 15 (Bifurculipes).

Bifurculipes curvatus. See *Bifurculapes curvatus*.

Bifurculipes tuberculatus. See *Bifurculapes tuberculatus*.

1721. Conopsoides curtus.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16. *Pl. 6, fig. 4; Pl. 18, fig. 4.*

1722. Conopsoides larvalis.

Localities: Turner's Falls, Mass.; Wethersfield, Conn. Horizon: Trias.

1856. Deane. Journ. acad. nat. sc. Philad., (2), iii: 176 (unnamed). *Pl. 19, figs. b, c.*
 1858. Hitchcock. Ichn. N. Engl., 152. *Pl. 29, fig. 6; Pl. 30, figs. 2, 4.*
 1861. Deane. Ichnogr. Conn. river, 57, 58. *Pl. 40, fig. 2; Pl. 41, fig. 3.*
 1865. Hitchcock. Suppl. ichn. N. Engl., 16.

1723. Copeza cruscularis.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16.
 See also *Lithographus cruscularis*.

1724. Copeza propinquata.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16. *Pl. 7, figs. 1, 10; Pl. 18, fig. 2.*
 1890. Lesley. Dict. foss. Penns., ii: 807 (propinquis). *Fig.*
 See also *Lithographus hieroglyphicus*.

Copeza propinquis. See *Copeza propinquata*.

1725. Copeza punctata.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 15, 16. *Pl. 6, figs. 14, 15 (?); Pl. 18, fig. 1*

1726. Copeza triremis.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 159-160. *Pl. 31, fig. 4.*
 1865. " Suppl. ichn. N. Engl., 15, 16.

1727. Grammepus erismatus.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 155-156. *Pl. 29, fig. 1.*
 1865. " Suppl. ichn. N. Engl., 13, 16.

Grammepus uniordinatus. See *Grammepus unordinatus*.

1728. *Grammepus unordinatus*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 156. *Pl. 29, fig. 2*.
 1865. " Suppl. ichn. N. Engl., 2 (*unordinatus*).
 See also *Ampelichnus sulcatus*.

1729. *Haplotichnus indianensis*.

Locality: Orange County, Ind. Horizon: Kaskaskia group.

1889. Miller. N. A. geol. and pal., 578. *Fig. 1636*.

1730. *Harpepus capillaris*.

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 16. *Pl. 7, fig. 6*.

1731. *Hexapodichnus horrens*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 158. *Pl. 30, fig. 1*.
 1865. " Suppl. ichn. N. Engl., 16.

1732. *Hexapodichnus magnus*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 158. *Pl. 29, fig. 7*.
 1861. Deane. Ichnogr. Conn. river, 58. *Pl. 40, fig. 5*.
 1865. Hitchcock. Suppl. ichn. N. Engl., 16.

1733. *Lithographus cruscularis*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1856. Deane. Journ. acad. nat. sc. Phil., (2), iii: 176 (unnamed). *Pl. 19, fig. d*.
 1858. Hitchcock. Ichn. N. Engl., 157. *Pl. 29, fig. 4; Pl. 30, fig. 3*.

See also *Copeza cruscularis*.

1734. *Lithographus hieroglyphicus*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 156-157. *Pl. 27, fig. 2; Pl. 29, fig. 3*.
 1861. Deane. Ichnogr. Conn. river, 58. *Pl. 41, fig. 1*.

See also *Copeza propinquata*.

1735. *Lunula obscura*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 17-18. *Pl. 2, fig. 6*.

1736. *Plangtichnus erraticus*.

Locality: Orange County, Ind. Horizon: Kaskaskia group.

1889. Miller. N. A. geol. and pal., 580. *Fig. 1093*.

1737. *Pterichnus centipes*.

Locality: Turner's Falls, Mass. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 14. *Pl. 7, fig. 3*.
 1890. Lesley. Dict. foss. Penns., ii: 807. *Figs*.

See also *Acanthichnus tardigradus*.

1738. *Sagittarius alternans.*

Locality: Massachusetts. Horizon: Trias.

1865. Hitchcock. Suppl. ichn. N. Engl., 16. *Pl. 6, fig. 3; Pl. 18, fig. 5.***1739. *Saltator bipedatus.***

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 137. *Pl. 24, fig. 8; Pl. 51, fig. 7.*

1865. " Suppl. ichn. N. Engl., 14.

1740. *Saltator caudatus.*

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 138. *Pl. 24, figs. 9, 11.*

1865. " Suppl. ichn. N. Engl., 14.

1741. *Sphærapus larvalis.*

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 164. *Pl. 28, fig. 2.***1742. *Sphærapus magnus.***

Locality: Turner's Falls, Mass. Horizon: Trias.

1858. Hitchcock. Ichn. N. Engl., 164-165. *Pl. 28, fig. 3.***1743. *Treptichnus bifurcus.***

Locality: Orange County, Ind. Horizon: Kaskaskia group.

1889. Miller. N. A. geol. and pal., 581. *Fig. 1095.***III.—CENOZOIC FOSSILS.****MYRIAPODA.****1744. ———. (Julidæ.)**

Locality: Castelnaud, France. Horizon: Tertiary.

1818. Serres. Journ. physique, lxxxvii: 173.

See also *Julus* ——— Serres, etc.**1745. *Blaniulus* ———. (Julidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 6.

1746. *Cermatia* ———. (Cermatiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1747. *Cermatia* ———. (Cermatiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 6.

1748. *Cermatia illigeri*. (Cermatiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 15-16. *Pl.*
1, *fig.* 6a.1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 8.
See also *Scutigera illigeri*.**1749. *Cermatia leachii*. (Cermatiidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 14-15. *Pl.*
1, *fig.* 6.1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 8.
See also *Scutigera illigeri*.**1750. *Craspedosoma* ———. (Lysiopeltidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1751. *Craspedosoma* ——— (6 sp.). (Lysiopeltidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 6.

1752. *Craspedosoma aculeatum*. (Lysiopeltidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 14.

1856. Giebel. *Insect. d. vorwelt*, 486.**1753. *Craspedosoma affine*. (Lysiopeltidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 13-14. *Pl.*
1, *fig.* 5a.1856. Giebel. *Insect. d. vorwelt*, 486.**1754. *Craspedosoma angulatum*. (Lysiopeltidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 13. *Pl.* 1,
fig. 5.1856. Giebel. *Insect. d. vorwelt*, 486.1885. Scudder. Zittel, *Handb. palaeont.*, i, th. ii: 731. *Fig.* 903.1886. " Zittel-Barrois, *Traité de paléont.*, ii: 730. *Fig.* 919.**1755. *Craspedosoma armatum*. (Lysiopeltidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 14.

1856. Giebel. *Insect. d. vorwelt*, 486-487.**1756. *Craspedosoma cylindricum*. (Lysiopeltidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 14.

1856. Giebel. *Insect. d. vorwelt*, 487.

1757. Craspedosoma obtusangulum. (Lysiopeltidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 14.
 1856. Giebel. Insect. d. vorwelt, 486.

1758. Craspedosoma setosum. (Lysiopeltidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 14.
 1856. Giebel. Insect. d. vorwelt, 487.

1759. Euzonus ———. (Lysiopeltidæ.)

Locality: Prussian Amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 6.

1760. Euzonus collulum. (Lysiopeltidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 14.
 1853-'56. Bronn. Lethæa geogn., 3^e auct., iii: 623.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 731.
 1886. " Zittel-Barrois, Traité de paléont., ii: 730.
 1886. " Bull. U. S. geol. surv., No. 31: 17.

See also *E. zonatus*.**1761. Euzonus zonatus.** (Lysiopeltidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 487.

See also *E. collulum*.**1762. Geophilus** ——— (3 sp.). (Geophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 6.

1763. Geophilus brevicaudatus. (Geophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 19.
 1856. Giebel. Insect. d. vorwelt, 489.

1764. Geophilus crassicornis. (Geophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 19.
 1856. Giebel. Insect. d. vorwelt, 490.

1765. Geophilus filiformis. (Geophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 19.
 1856. Giebel. Insect. d. vorwelt, 490.

1766. Glomeris denticulata. (Glomeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 12.
 1856. Giebel. Insect. d. vorwelt, 485.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 731.
 1886. " Zittel-Barrois, Traité de paléont., ii: 730.
 1886. " Bull. U. S. geol. surv., No. 31: 17.

1767. *Julus* ———. (Julidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1768. *Julus* ———. (Julidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

1769. *Julus* ———. (Julidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 253.

1770. *Julus* ——— (3 sp.). (Julidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 6.

1771. *Julus* ———. (Julidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 288.

Since proved to be a plant.

1772. *Julus* ———. (Julidæ.)Compared with *J. sabulosus*.

Locality: Vicinity of Montpellier, France. Horizon: Calcaires lacustres.

1829. Serres. Geogn. terrains tert., 209-210.

1840. Meyer. Ersch. u. Gruber, encycl. wiss., sect. 2, th. xviii: 538.

See also ——— (Julidæ) Serres, *J. fabulosus*, *J. sabulosus* (vic.)**1773. *Julus antiquus*. (Julidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1878. Heyden. MSS.

1878. Bertkau. Verhandl. naturh. ver. preuss. Rheinl., (4), v: 360. *Pl. 5, fig. 8.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 731. *Fig. 904.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 730. *Fig. 920.*

1886. " Bull. U. S. geol. surv., No. 31: 18.

1774. *Julus badius*. (Julidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 13.

1856. Giebel. *Insect. d. vorwelt*, 486.**1775. *Julus fabulosus*. (Julidæ.)**(By mistake for *Julus* sp. vic. *sabulosus*.)

Locality: Near Montpellier, France. Horizon: Süßwasserkalk.

1834. Keferstein. *Naturg. erdkörp.*, i: 370.1846. Gemitz. *Grundr. versteinierungsk.*, 193See also *Julus* ——— Serres, etc.

1776. *Julus lævigatus.* (Julidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, *Berust. befindl. organ. reste vorw.*, i, th. ii: 12-13. *Pl.* 1, *fig.* 4.

1856. Giebel. *Insect. d. vorwelt*, 485.

1777. *Julus politus.* (Julidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 13.

1856. Giebel. *Insect. d. vorwelt*, 485.

1778. *Julus rubens.* (Julidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 13.

1856. Giebel. *Insect. d. vorwelt*, 486.

1779. *Julus sabulosus* (vic). (Julidæ.)

Locality: Montpellier, France. Horizon: Lacustrine limestone.

1885. Scudder. Zittel, *Handb. palaeont.*, i, th. ii: 731.

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 730.

1886. " Bull. U. S. geol. surv., No. 31: 18.

See also *Julus* ——— Serres, etc.

1780. *Julus telluster.* (Julidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 776.

1885. " Zittel, *Handb. palaeont.*, i, th. ii: 731.

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 730.

1886. " Bull. U. S. geol. surv., No. 31: 18.

1890. " *Tert. ins. N. A.*, 44. *Pl.* 11, *fig.* 5.

1781. *Julus terrestris* (recent). (Julidæ.)

Localities: Amber (Brullé, Berendt); Tharand, Saxony (Cotta). Horizon: Ligurian, (Berendt); Gneiss seams (Cotta).

[1761. Linné. *Faun. succ.*, ed. alt., No. 2066.]

1830. Berendt. *Insekten im bernstein*, 38.

1833. Cotta. *Neues jahrb. min.*, 1833: 392-394. *Pl.* 5, *figs.* 1, 2.

1839. Brullé. *Gisem. ins. foss.*, 19.

1885. Scudder. Zittel, *Handb. palaeont.*, i, th. ii: 731.

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 730.

1782. *Lithobius* ———. (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

1783. *Lithobius* ——— (8 sp.). (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petrishule Danzig*, 1856: 6.

1784. *Lithobius brevicornis.* (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 18.

1856. Giebel. *Insect. d. vorwelt*, 491.

1785. Lithobius longicornis. (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 18. *Pl.* 2, *fig.* 7b.

1856. Giebel. Insect. d. vorwelt, 490.

1786. Lithobius maxillosus. (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 16-17. *Pl.* 2, *fig.* 7.

1856. Giebel. Insect. d. vorwelt, 490.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 727. *Fig.* 895.1886. " Zittel-Barrois, Trait  de pal ont., ii: 726. *Fig.* 912.**1787. Lithobius octops.** (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 18.

1788. Lithobius oxylopus. (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 18.

1856. Giebel. Insect. d. vorwelt, 490.

1789. Lithobius planatus. (Lithobiidæ.)Compared with *L. vulgaris*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 17-18. *Pl.* 2, *fig.* 7a.

1856. Giebel. Insect. d. vorwelt, 490.

1790. Lithobius pleonops. (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 18.

1791. Lithobius scaber. (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 18.

1792. Lithobius spinulosus. (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 18.

1856. Giebel. Insect. d. vorwelt, 490-491.

1793. Lithobius striatus. (Lithobiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 18.

1856. Giebel. Insect. d. vorwelt, 491.

1794. Lophonotus ———. (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 6.

1795. Lophonotus hystrix. (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 12.

1853-'56. Bronn. Lethæa geogn., 3^e aull., iii: 622-623.

1856. Giebel. Insect. d. vorwelt, 488.

See also Phryssonotus hystrix.

1796. Phryssonotus hystrix. (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1885. Scudder. Zittel, Handb. palæont. i, th. ii: 731.

1886. " Zittel-Barrois, Traité de paléont., i: 730.

1886. " Bull. U. S. geol. surv., No. 31: 18.

See also Lophonotus hystrix.

Pollyxenus (several species). See *Polyxenus*, *Idem*.**1797. Polydesmus** ———. (Polydesmidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 6.

1798. Polyxenus ———. (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56 (*Pollyxenus*).**1799. Polyxenus** ——— (4 sp.). (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 6 (*Pollyxenus*).**1800. Polyxenus caudatus.** (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 12
(*Pollyxenus*).

1856. Giebel. Insect. d. vorwelt, 488.

1801. Polyxenus colurus. (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 12
(*Pollyxenus*).

1856. Giebel. Insect. d. vorwelt, 488.

1802. Polyxenus conformis. (Polyxenidæ.)Compared with *P. lagurus*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt, Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 11. *Pl.*
16, fig. 133 (*Pollyxenus*).

1856. Giebel. Insect. d. vorwelt, 487.

1803. Polyxenus lophurus. (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 12
(*Pollyxenus*).

1856. Giebel. Insect. d. vorwelt, 488.

1804. *Polyxenus ovalis*. (Polyxenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Berust. befindl. organ. reste vorw., i, th. ii: 12. *Pl.*
1, *figs.* 3, 1*, 2* (*Polyxenus*).
1856. Giebel. *Insect. d. vorwelt*, 487-488.
1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 731. *Fig.* 905.
1886. " *Zittel-Barrois, Traité de paléont.*, ii: 730. *Fig.* 921.

1805. *Scolopendra* ———. (Scolopendridæ.)

Locality: Prussiau amber. Horizon: Ligurian.

1835. Gravenhorst. *Uebers. schles. gesellsch. vaterl. cult.*, 1834: 93.

1806. *Scolopendra* ———. (Scolopendridæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. *Trans. ent. soc. Lond.*, iv: 253.

1807. *Scolopendra* ——— (2 sp.). (Scolopendridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petr. schule Danzig*, 1856: 6.

1808. *Scolopendra* ———. (Scolopendridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. *Hist. succ.*, 172. *Pl.* 6, *figs.* 6a, b. (*Millepedæ*).
1825. Guerin. *Dict. class. hist. nat.*, viii: 580 (*Scolopendre*).
1829. Serres. *Geogn. terrains tert.*, 240.

1809. *Scolopendra fossilis*. (Scolopendridæ.)

Locality: Near Glarus, Switzerland. Horizon: ———.

1834. Keferstein. *Naturg. erdkörp.*, ii: 370 (undeser.). (Simply quotes Aldrovandi.)

1810. *Scolopendra proavita*. (Scolopendridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 18-19.
1856. Giebel. *Insect. d. vorwelt*, 489.

1811. *Scutigera illigeri*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. *Insect. d. vorwelt*, 491.
See also *Cermatia illigeri*, *C. leachi*.

ARACHNIDA.**1812. ——— ———.**

Locality: Aix, France. Horizon: Ligurian.

1837. Buckland. *Geol. and min.*, ii: 79. *Pl.* 46'', *fig.* 12.
1838. " *Géologie*, éd. Agassiz, ii: expl. pl. 46'', p. 6. *Pl.* 46'', *fig.* 12.
1852. Quenstedt. *Handb. petref.* *Pl.* 21, *fig.* 25.
See also *Theridium bucklandi*.

1813. ———.

Locality: Sinigaglia, Italy. Horizon: Tertiary.

1842. Procaccini. Nuov. ann. sc. nat., vii: 449.

1814. ——— (2 sp.).

One of them compared with *Epeira riparia*.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 776.

See also *Epeira* ——— Scudder, 1890, 89.

1815. ———.

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.

1879. " Geol. mag., n. s., v: 89.

1816. ——— (tick). (Acarina.)

Locality: Green River, Wyo. Horizon: Oligocene.

1882. Scudder. Harv. Univ. bull., ii: 302.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 285.

See also *Ixodes tertiarius*.

1817. ——— (1 or 2). (Agalenides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1818. ———. (Araneides.)

Locality: Prussian amber. Horizon: Ligurian.

1819. Schweigger. Beobacht. naturh. reisen, 111-112. Pl. 8. figs. 68, 68a.

1819. ——— (1 or 2). (Attoïdæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1820. ———. (Attoïdæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Smith. Quart. journ. sc., v: 184. Pl., fig. 10.

1821. ——— (several). (Drassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1822. ——— (1 or 2). (Dysderides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1823. ——— (several). (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1824. ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

1825. ——— (egg cocoon). (Theridides.)

Localities: Green River, Wyo.; Florissant, Colo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 776.

1882. " Harv. univ. bull., ii: 303.

See also *Aranea columbiæ*.**1826.** ——— (several). (Theridides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1827. ——— (several). (Thomisides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1828. *Acantholophus* ———. (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 11 (*Acantholophus*). (Perhaps identical with *Cheirromachus*).**1829.** *Acantholophus nemastomoides*. (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 102.

See also *Gonyleptes nemastomoides*.**1830.** *Acarus* ———. (Acarina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1831. *Acarus* ———. (Acarina.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 358 (milben).

1872. " Monde prim. Suisse, 439.

1876. " Prim. world Switz., ii: 12.

1879. " Urwelt der Schweiz, 2^e Aufl., 332 (milben).**1832.** *Acarus*? ——— (leg). (Acarina.)

Locality: Bilin, Bavaria. Horizon: Tripoli earth.

1838. Turpin. Comptes rend. acad. sc. Paris, vii: 502.

1833. *Acarus resinosus*. (Acarina.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 210.

1834. *Acarus rhombeus*. (Acarina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 110. *Pl.*
13, *figs.* 113, 114.

1856. Giebel. Insect. d. vorwelt, 484.

1835. Actineda —— (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1836. Actineda malleator. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 107.

1856. Giebel. Insect d. vorwelt, 451.

1837. Actineda subnuda. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 107.

1856. Giebel. Insect. d. vorwelt, 480-481.

1838. Actineda venustula. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 106-107.
Pl. 13, fig. 106.

1856. Giebel. Insect. d. vorwelt, 480.

1839. Agalena —— (Agalenides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56 (Agelena).

1840. Agalena tabida. (Agalenides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871 (Agelena).

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 48.

1856. Giebel. Insect. d. vorwelt, 449.

Agalena tabida. See *Agalena tabida*.**1841. Amaurobius** ——.

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1842. Amaurobius —— (3 sp.).

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrisehule Danzig, 1856: 7.

1843. Amaurobius faustus.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 57-58. *Pl.*
6, fig. 47.

1856. Giebel. Insect. d. vorwelt, 453-454.

1844. Amaurobius rimosus.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 56-57. *Pl.*
6, fig. 46.

1856. Giebel. Insect. d. vorwelt, 453.

1845. Amaurobius spinimanus.

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 58.
 1856. " Progr. petrishule Danzig, 1856: 8.
 1856. Giebel. Insect. d. vorwelt, 454.

1846. Amphiclotho breviuscula. (Urocteoidæ.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 465-467. *Pl. 22, fig. 18.*

1847. Amphithomismus barbatus. (Thomisides.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 447-449. *Pl. 21, fig. 12.*

1848. Amphitrogulus sternalis. (Opiliones.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 484-487. *Pl. 23, fig. 26.*

1849. Anandrus ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

1850. Anatone hirsuta. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 8 (undescri.).

1851. Anatone marginata. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 84.
 1856. Giebel. Insect. d. vorwelt, 464.
 1856. Menge. Progr. petrishule Danzig, 1856: 8.

1852. Anatone spinipes. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 84.
 1853-'56. Bronn. Lethæa geogn. 3^e aufl., iii: 627.
 1856. Giebel. Insect. d. vorwelt, 464.
 1856. Menge. Progr. petrishule Danzig, 1856: 8.
 1870. Thorell. European spiders, i: 229.

1853. Androgeus ———. (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1854. Androgeus militaris. (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 28. *Pl. 3, fig. 17.*
 1856. Giebel. Insect. d. vorwelt, 439.
 1890. McCook. Amer. spiders, ii: 452. *Fig. 374.*
 See also *Gea militaris*, etc.

1855. *Androgeus triqueter*. (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 871.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 29. *Pl.*
16, *fig.* 134.1853-'56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 635-636. *Pl. 42'a, fig.* 11.1856. Giebel. *Insect. d. vorwelt*, 439.1870. Thorell. *European spiders*, i: 226.See also *Gea triquetra*, etc.**1856. *Antopia* ——— (3 sp.). (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petrishule Danzig*, 1856: 7.**1857. *Antopia obscura*. (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 8
note, 24, 43.See also *Gea obscura*, etc.**1858. *Antopia punctulata*. (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 8, 43.1853-'56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 637. *Pl. 42'a, fig.* 13.1856. Giebel. *Insect. d. vorwelt*, 446-447.1870. Thorell. *European spiders*, i: 225-226.See also *Mizalia punctulata*.**1859. *Antopia tenera*. (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 43
(undescribed).1856. Giebel. *Insect. d. vorwelt*, 447.**1860. *Anyphæna* ———. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.**1861. *Anyphæna* ———. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petrishule Danzig*, 1856: 7.**1862. *Anyphæna* ———. (Drassides.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. *Harv. univ. bull.*, iii: 303.1882. " *Field nat.*, i: 62.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 287.See also *Anyphæna interita*.

1863. Anyphæna fuscata. (Drassides.)Compared with *A. accentuata*.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 1872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 64-65. *Pl.*
6, *fig.* 56.1856. Giebel. *Insect. d. vorwelt*, 457-458.**1864. Anyphæna interita.** (Drassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 67-68. *Pl.* 11, *fig.* 5.See also *Anyphæna* ——— Scudder.**1865. Aranea** ———. (Theridides.)

Locality: Copal. Horizon: Recent.

1776. Bloch. *Beschäft. berl. gesellsch. naturf. freunde*, ii: 167. *Pl.* 3, *fig.* 5.**1866. Aranea** ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, *Isis*, 1831: 1100.**1867. Aranea** ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlotheim. *Petrefactenk.*, 43.**1868. Aranea (Tegenaria)** ———. (Theridides.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. *Géogn. terrains tert.*, 220.See also *A. fossilis*.**1869. Aranea columbiæ.** (Theridides.)

Localities: Quesnel, British Columbia; Green River, Wyo.; Florissant, Colo. Horizon: Oligocene.

1878. Scudder. *Rep. progr. geol. surv. Can.*, 1876-'77: 463-464.1878. " *Add. ins.-fauna Quesnel*, 7-8.1878. " *Rapp. opér. comm. géol. Can.*, 1876-'77: 521-522.1890. " *Tert. ins. N. A.*, 71-73. *Pl.* 2, *figs.* 1-2.1890. McCook. *Amer. spiders*, ii: 459 (perhaps a *Theridiosoma*), 387-388.

See also ——— (Theridides) Scudder, 1878.

1870. Aranea fossilis. (Theridides.)

Locality: Aix, France. Horizon: Ligurian.

1834. Keferstein. *Naturg. erdkörp.*, ii: 370 (undeser.).See also *Aranea (Tegenaria)* ——— Serres.**1871. Aranea fusca pilosa.** (Theridides.)

Locality: Copal. Horizon: Recent.

1776. Bloch. *Beschäft. berl. gesellsch. naturf. freunde*, ii: 165. *Pl.* 3, *fig.* 2.**1872. Aranea globosa.** (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. *Del. prag.*, i: 208.

1873. Aranea oblonga. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 208-209.

1874. Archæa ———. (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1875. Archæa ——— (5 sp.). (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 9.

1876. Archæa conica. (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 21. *Pl.* 2,
fig. 10.

1856. Giebel. Insect. d. vorwelt, 434.

1877. Archæa hyperoptica. (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 22.

1856. Giebel. Insect. d. vorwelt, 435.

1878. Archæa incomta. (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 22.

1856. Giebel. Insect. d. vorwelt, 435.

1879. Archæa lævigata. (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 21-22. *Pl.*
2, *fig.* 11.

1856. Giebel. Insect. d. vorwelt, 434.

1880. Archæa paradoxa. (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 19-20. *Pl.*
20, *figs.* 8, 9.1853-56. Bronn. Lethæa geogn., 3^e Aufl., iii: 638. *Pl.* 42'a, *fig.* 14.

1856. Giebel. Insect. d. vorwelt, 433-434.

1870. Thorell. European spiders, i: 232.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 742. *Fig.* 919.1886. " Zittel-Barrois, Traité de paléont., ii: 741. *Fig.* 936.1890. McCook. Amer. spiders, ii: 457, 467-468. *Figs.* 400, 401.**1881. Archæa pougneti.** (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1884. Simon. Note compl. Arch., 4-5. *Figs.* 1-2 on p. 2.1884. " Ann. mus. civ. stor. nat. Gen., xx: 376-377. *Figs.* 1-2 on p. 374.

1882. *Archæa sphinx*. (Archæoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 22.
 1856. Giebel. Insect. d. vorwelt, 435.

1883. *Argyroneta* ———. (Agalenides.)

Locality: Aix, France. Horizon: Ligurian.

1841. Buckland. Proc. geol. soc. Lond., iii: 505.
 1842. " Ann. mag. nat. hist., ix: 163.

1884. *Argyroneta* ———. (Agalenides.)Compared with *A. aquatica*.

Locality: Unterkirschburg, Germany. Horizon: Miocene.

1849. Eser. Jahresh. ver. vaterl. naturk. Württ., iv: 265.

1885. *Argyroneta antiqua*. (Agalenides.)

Localities: Stösschen, Rott, Germany. Horizon: Aquitanian.

1859. Heyden. Palæontogr., viii: 1-2. Pl. 1, fig. 12.
 1878. Bertkau. Verhandl. naturh. ver. preuss. rheinl., (4), v: 352-359. Pl. 5,
 fig. 1a-c.
 1878. " Sitzungsab. niederrh. gesellsch. Bonn, 1878: 70-71.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 742. Fig. 922.
 1886. " Zittel-Barrois, Traité de paléont., ii: 742. Fig. 939.
 1886. " Bull. U. S. geol. surv., No. 31: 30.

See also *Elvina antiqua*.**1886. *Argyroneta ? longipes*. (Agalenides.)**Compared with *A. aquatica* Deg.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 356, 357. Fig. 214.
 1870. Thorell. European spiders, i: 224 (not an *Argyroneta*).
 1872. Heer. Monde prim. Suisse, 436, 438. Fig. 214 on p. 437.
 1876. " Prim. world Switz., ii: 10, 11. Fig. 214.
 1879. " Urwelt der Schweiz, 2^e Aufl., 380, 382. Fig. 249 on p. 381.

1887. *Ariames gabrieli*. (Theridides.)Compared with *A. nasicus* Sim.

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 455-457. Pl. 23, fig. 23.

1888. *Artamus radiatus*. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 81.
 1856. Giebel. Insect. d. vorwelt, 464.

See also *Syphax radiatus*.**1889. *Arytæna troguloides*. (Trombididæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 106.
 1853-56. Bronn. Lethæa geogn., 3^e Aufl., iii: 624.
 1856. Giebel. Insect. d. vorwelt, 480.

1890. *Athera exilis*. (Thomisidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 94 (undeser.).
 1853-56. Bronn. Lethæa geogn., 3^e aufl., iii: 639.
 1856. Giebel. Insect. d. vorwelt, 469.
 1856. Menge. Progr. petriscule Danzig, 1856: 9 (undeser.).
 1870. Thorell. European spiders, i: 231.

1891. *Attoides eresiformis*. (Attoidæ.)

Locality: Aix, France. Horizon: Ligurian.

1877. Brongniart. Ann. soc. ent. Fr., (5), vii: 221-224. Pl. 7¹, figs. 7-10.
 1878. Girard. La nature, vi: 144. Figs. 1-4.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 741. Fig. 918.
 1886. " Zittel-Barrois, Traité de paléont., ii: 741. Fig. 935.
 1886. " Bull. U. S. geol. surv., No. 31: 29.

1892. *Attopsis hirsutus*. (Attoidæ.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 441-443. Pl. 23, fig. 27.

1893. *Attus fossilis*. (Attoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1805. Walekenaer. Tabl. aran., 25 (name only).
 1837. " Hist. nat. ins., Apt., i: 462.

1894. *Bdella* ———. (Bdellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1895. *Bdella bicincta*. (Bdellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 108.
 1856. Giebel. Insect. d. vorwelt, 482.
 1884. Karsch. Berl. entom. zeitschr., xxviii: 175.

1896. *Bdella bombycina*. (Bdellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. i: 108.
 1856. Giebel. Insect. d. vorwelt, 482.

1897. *Bdella lata*. (Bdellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 108. Pl. 13, fig. 110.
 1856. Giebel. Insect. d. vorwelt, 482.

1898. *Bdella obconica*. (Bdellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 108, 124.
 1856. Giebel. Insect. d. vorwelt, 482.
 1884. Karsch. Berl. entom. zeitschr., xxviii: 175.

1899. Buthus ———. (Scorpiones.)

Locality: ? Horizon: Tertiary.

*846. Giebel. Paläozool., 267.

1900. Cercidiella aquisextana. (Epeirides.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 452-453. *Pl.* 21, *fig.* 8.**Cheiridion hartmanni.** See *Cheiridium hartmanni*.**1901. Cheiridium hartmanni.** (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1855. Menge. Scheerenspinnen, 33. *Pl.* 5, *figs.* 12, 13 (given variously as *Chelifer* and *Cheiridion*).

1870. Hagen. Proc. Bost. soc. nat. hist., xiii: 264.

See also *Chelifer hartmanni*.**Cheiomachus ?** ——— See *Acantolophus* ———**1902. Cheiomachus coriaceus.** (Phalangioïdæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Berust. befindl. organ. reste vorw., i, th. ii: 102.

1853-56. Bronn. Lethæa geogn., 3^e Aufl., iii: 624.

1856. Giebel. Insect. d. vorwelt, 477.

1903. Chelifer ———. (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1904. Chelifer ———. (Chelonethi.)Compared with *C. hemprichi* Koch.

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 321.

1905. Chelifer ———. (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

1906. Chelifer ———. (Chelonethi.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 253.

1907. Chelifer ———. (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1819. Schweigger. Beobacht. naturh. reisen, 113.

1834. Keferstein. Naturg. erdkörp., i: 370 (or *Obisium*).**1908. Chelifer berendtii.** (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1855. Menge. Scheerenspinnen, 32-33. *Pl.* 4, *fig.* 7.

1870. Hagen. Proc. Bost. soc. nat. hist., xiii: 264.

See also *Dichela berendtii*.

1909. Chelifer ehrenbergi. (Chelonethi.)Compared with *C. museorum*.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 95. *Pl. 10, fig. 95.*1856. Giebel. *Insect. d. vorwelt*, 472.1870. Hagen. *Proc. Bost. soc. nat. hist.*, xiii: 265.**1910. Chelifer hartmanni.** (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 96.1856. Giebel. *Insect. d. vorwelt*, 473.See also *Cheiridium hartmanni*.**1911. Chelifer hemprichi.** (Chelonethi.)Compared with *C. museorum*, *C. caneroides*.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 94-95. *Pl. 10, fig. 94.*1855. Menge. *Scheerenspinnen*, 34. *Pl. 4, fig. 8.*1856. Giebel. *Insect. d. vorwelt*, 472.1870. Hagen. *Proc. Bost. soc. nat. hist.*, xiii: 266.1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 734 (*hemprichti*). *Fig. 908.*1886. " *Zittel-Barrois, Traité de paléont.*, ii: 733 (*hemprichtii*). *Fig. 924.***Chelifer hemprichti.** See *Chelifer hemprichi*.**1912. Chelifer klemanni.** (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 95-96. *Pl. 16, fig. 143.*1855. Menge. *Scheerenspinnen*, 21, 34-35. *Pl. 5, fig. 9.*1856. Giebel. *Insect. d. vorwelt*, 472.1870. Hagen. *Proc. Bost. soc. nat. hist.*, xiii: 266.See also *Obisium rathkei*.**1913. Chelifer sieboldii.** (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1855. Menge. *Scheerenspinnen*, 35-36. *Pl. 5, fig. 10.*1870. Hagen. *Proc. Bost. soc. nat. hist.*, xiii: 267.See also *Obisium sieboldii*.**Chelifer wiegandi.** See *Chelifer wigandi*.**1914. Chelifer wigandi.** (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 96.1856. Giebel. *Insect. d. vorwelt*, 472 (*wiegandi*).See also *Chernes wigandi*.

1915. Chelignathus kochii.

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 97.
 1853-'56. Bronn. Lethæa geogn., 3^e aufl., iii: 624-625.
 1856. Giebel. Insect. d. vorwelt, 473.
 See also Chthonius kochii.

1916. Chernes wigandi. (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1855. Menge. Scheerenspinnen, 41-42. *Pl. 5, fig. 16.*
 1870. Hagen. Proc. Bost. soc. nat. hist., xiii: 268.
 See also Chelifer wigandi.

1917. Cheyletus ———. (Bdellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1918. Cheyletus portentosus. (Bdellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 109. *Pl. 13, fig. 111.*
 1856. Giebel. Insect. d. vorwelt, 483.

1919. Chthonius kochii. (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1855. Menge. Scheerenspinnen, 25-26. *Pl. 4, fig. 2.*
 1870. Hagen. Proc. Bost. soc. nat. hist., xiii: 268.
 See also Chelignathus kochii.

1920. Clostes priscus. (Theraphosoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1869. Menge. Scorp. (Schrift. naturf. gesellsch. Danzig, ii: pt. 2), 7. *Figs. a, b.*
 1870. Thorell. European spiders, i: 230-231.

1921. Clubiona ———. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1922. Clubiona ——— (4 sp.). (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

1923. Clubiona ——— (4 sp.) (Drassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Harv. univ. bull., ii: 303.
 1882. " Field nat., i: 62.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 287.

1924. Clubiona arcana. (Drassides.)

Compared with *C. sericea*, *C. lanata*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 64. *Pl. 11, fig. 4.*

1925. Clubiona attenuata. (Drassides.)Compared with *C. amaranta*.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 65-66. *Pl.*
7, *fig.* 57.1856. Giebel. *Insect. d. vorwelt*, 458.1890. McCook. *Amer. spiders*, ii: 467. *Fig.* 397.**1926. Clubiona eseri.** (Drassides.)Compared with *C. lanata* K. and B.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 356, 357. *Fig.* 213.1870. Thorell. *European spiders*, i: 224 (not a *Clubiona*).1872. Heer. *Monde prim. Suisse*, 436, 438. *Fig.* 213, on p. 437.1876. " *Prim. world Switz.*, ii: 10, 12. *Fig.* 213.1879. " *Urwelt der Schweiz*, 2^e aufl., 380, 382. *Fig.* 248, on p. 381.**1927. Clubiona eversa.** (Drassides.)Compared with *C. tomentosa* K. and B.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 63. *Pl.* 11, *fig.* 22.**1928. Clubiona lanata.** (Drassides.)

Locality: Prussian amber. Horizon: Ligurian

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 67-68. *Pl.*
7, *fig.* 60.1856. Giebel. *Insect. d. vorwelt*, 459.1870. Thorell. *European spiders*, i: 230 (not a *Clubiona*).**1929. Clubiona latebrosa.** (Drassides.)Compared with *C. attenuata* K. and B.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 65. *Pl.* 11, *fig.* 18.**1930. Clubiona latifrons.** (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 69
(undescri.).1856. Giebel. *Insect. d. vorwelt*, 459.**1931. Clubiona microphthalma.** (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 66. *Pl.* 7,
fig. 58.1856. Giebel. *Insect. d. vorwelt*, 458.

1932. Clubiona ostentata. (Drassides.)Compared with *C. microphthalma* K. and B.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 65-66. Pl. 11, fig. 24.

1933. Clubiona pubescens. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 69. Pl. 7, fig. 62.

1856. Giebel. Insect. d. vorwelt, 459.

1934. Clubiona sericea. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 67. Pl. 7, fig. 59.

1856. Giebel. Insect. d. vorwelt, 458-459.

1935. Clubiona tomentosa. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 68. Pl. 7, fig. 61.

1856. Giebel. Insect. d. vorwelt, 459.

1936. Clubionella antiqua. (Drassides.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 471-474. Pl. 23, fig. 25.

1937. Clya ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1938. Clya ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

1939. Clya lugubris. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 31. Pl. 3, fig. 19.

1853-56. Bronn. Lethæa geogn., 3^e Aufl., iii: 633-634. Pl. 42^a, fig. 9.

1856. Giebel. Insect. d. vorwelt, 440-441.

1870. Thorell. European spiders, i: 227.

1940. Clythia ———. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1941. Clythia ——— (3 sp.). (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

1942. *Clythia alma.* (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt, Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 45-46. *Pl.*
5, *fig.* 35.

1856. Giebel. Insect. d. vorwelt, 447.

1870. Thorell. European spiders, i: 231.

1943. *Clythia funesta.* (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 50.

See also *Textrix funesta*.**1944. *Clythia gracilentia.* (Thomisides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 46.

1856. Giebel. Insect. d. vorwelt, 447.

1945. *Clythia leptocarena.* (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 46.

1856. Giebel. Insect. d. vorwelt, 447.

1946. *Clythia lineata.* (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 49.

See also *Textrix lineata*.**1947. *Corynitis* — (2 sp.). (Theridides.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

1948. *Corynitis spinosa.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 30.

1853-56. Bronn. *Lethæa geogn.*, 3^e Aufl., iii: 635.

1856. Giebel. Insect. d. vorwelt, 440.

1870. Thorell. European spiders, i: 226-227.

1949. *Corynitis undulata.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 30.

1853-56. Bronn. *Lethæa geogn.*, 3^e Aufl., iii: 635.

1856. Giebel. Insect. d. vorwelt, 440.

1950. *Dichela berendtii.* (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 96
(undescribed).1853-56. Bronn. *Lethæa geogn.*, 3^e Aufl., iii: 625.

1856. Giebel. Insect. d. vorwelt, 473.

See also *Chelifer berendtii*.

1951. Dielacata superba. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 94
(undescr.).
- 1853-56. Bronn. Lethæa geogn., 3^e aufl., iii: 638.
1856. Giebel. Insect. d. vorwelt., 469.
1856. Menge. Progr. petrishule Dautzig, 1856: 9.
1870. Thorell. European spiders, i: 227.

1952. Drassus ———. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 8.

1953. Drassus oblongus. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 69
(undescr.).
1856. Giebel. Insect. d. vorwelt, 459.

1954. Dysdera ———. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1955. Dysdera glabrata. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 74.
1856. Giebel. Insect. d. vorwelt, 462.

1956. Dysdera hippopodium. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 74.
1856. Giebel. Insect. d. vorwelt, 462.

1957. Dysdera scrobiculata. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 74.
1856. Giebel. Insect. d. vorwelt, 462.

1958. Dysdera thersa. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 74. Pl. 8,
fig. 68.
1856. Giebel. Insect. d. vorwelt, 461-462 (thersa).

Dysdera thersa. See *Dysdera thersa*.**1959. Elvina antiqua.** (Agalenides.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. Thorell. European spiders, i: 223-224.
See also *Argyroneta antiqua*.

1960. Entomocephalus formicoides.

Locality: Prussian amber. Horizon: Ligurian.

1819. Schweigger. Beobacht. naturh. reisen, 111-112. *Pl.* 8, *figs.* 68, 68a.
 1829. Holl. Handb. d. petref., 178-179.
 1846. Geinitz. Grandr. versteinierungsk., 192.

1961. Eoatypus woodwardii. (Theraphosoidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Eocene.

1888. McCook. Proc. acad. nat. sc. Phila., 1888: 200-202. *Figs.* 1, 2.
 1890. " Amer. spiders, ii: 456-457. *Figs.* 383, 384.

1962. Epeira ——— (7 sp.). (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Harv. univ. bull., ii: 303.
 1882. " Field nat., i: 63.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 288.

1963. Epeira ———. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 88-89. *Pl.* 11, *fig.* 1.

1964. Epeira ———. (Epeirides.)

Compared with *E. riparia*.

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 89, first species.
 See also ——— Scudder.

1965. Epeira ———. (Epeirides.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 89, second species.
 See also ——— Scudder.

1966. Epeira abscondita. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 84-85. *Pl.* 11, *fig.* 7.

1967. Epeira cinefacta. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 85-86. *Pl.* 11, *fig.* 16.

1968. Epeira delita. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 85. *Pl.* 11, *fig.* 6.

1969. Epeira emertoni. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 87-88. *Pl.* 11, *figs.* 15, 19.

1970. Epeira eocæna. (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 437.

1971. *Epeira eogena.* (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 24
(undeser.).

1856. " Progr. petrishule Danzig, 1856: 7.

1972. *Epeira krantzii.* (Epeirides.)

Locality: Siebengebirge, Germany. Horizon: Aquitanian.

1870. Thorell. European spiders, i: 223.

See also *Gea krantzii*.

1973. *Epeira meekii.* (Epeirides.)

Compared with *E. tröschelii*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 83-84. Pl. 11, figs. 2, 17.

1890. McCook. Amer. spiders, ii: 453. Fig. 375.

1974. *Epeira molassica.* (Epeirides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 356. Fig. 221.

1872. " Monde prim. Suisse, 436. Fig. 221 on p. 437.

1876. " Prim. world Switz., ii: 9. Fig. 221 on p. 10.

1879. " Urwelt der Schweiz, 2^e aufl., 380. Fig. 256 on p. 381.

1890. McCook. Amer. spiders, ii: 449.

1975. *Epeira tröschelii.* (Epeirides.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1878. Bertkau. Verhandl. naturh. ver. preuss. rheinl., (4), v: 348-349. Pl. 5, fig. 4.

1976. *Epeira vulcanalis.* (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 86-87.

1977. *Epeiridion* ——. (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 6.

1978. *Epeiridion femoratum.* (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 24
(undeser.).

1856. Giebel. Insect. d. vorwelt, 437.

1979. *Eresoides orbicularis.* (Eresoidæ.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 454-455. Pl. 21, fig. 16.

1980. *Eresus* ——. (Eresoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste. vorw., i: 56.

1981. Eresus curtipes. (Eresoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.

1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 87-88. *Pl.*
9, *fig.* 82.

1856. Giebel. *Insect. d. vorwelt*, 466.

1982. Eresus monachus. (Eresoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.

1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 86-87. *Pl.*
9, *fig.* 81.

1856. Giebel. *Insect. d. vorwelt*, 466.

1890. McCook. *Amer. spiders*, ii: 467. *Fig.* 394.

1983. Erigone ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

1984. Erigone deckenii. (Theridides.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1878. Bertkau. *Verhandl. naturh. ver. preuss. rheinl.*, (4), v: 351. *Pl.* 5, *figs.* 3,
3a.

1985. Erigone stigmatosa. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 871.

1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 38. *Pl.* 16,
fig. 136.

1856. Giebel. *Insect. d. vorwelt*, 443-444.

1986. Erithus ———. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petrishule Danzig*, 1856: 8.

1987. Erithus applanatus. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 69
(undeser.).

1853-56. Bronn. *Lethæa geogn.*, 3^e anl., iii: 630.

1856. Giebel. *Insect. d. vorwelt*, 459.

1870. Thorell. *European spiders*, i: 229.

1988. Ero ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

1989. Ero ——— (7 sp.). (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petrishule Danzig*, 1856: 7.

1990. *Ero coronata.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 33
(undescr.).
1856. Giebel. Insect. d. vorwelt, 441.

Ero exculpta. See *Ero exsculpta.***1991. *Ero exsculpta.* (Theridides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 33,
124 (undescr.).
1856. Giebel. Insect. d. vorwelt, 441 (*exculpta*).

1992. *Ero quadripunctata.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 33
(undescr.).
1856. Giebel. Insect. d. vorwelt, 441.

1993. *Ero setulosa.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 31-32. *Pl.*
4, *fig.* 20.
1856. Giebel. Insect. d. vorwelt, 441.
1890. McCook. Amer. spiders, ii: 467. *Fig.* 395.

1994. *Ero sphærica.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 32-33. *Pl.*
4, *fig.* 21.
1856. Giebel. Insect. d. vorwelt, 441.

1995. *Erythræus* ———. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

1996. *Erythræus hirsutus.* (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 107.
1856. Giebel. Insect. d. vorwelt, 481.
1884. Karsch. Berl. entom. zeitschr., xxviii: 175.

1997. *Erythræus lagopus.* (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 107.
1856. Giebel. Insect. d. vorwelt, 481.

1998. Erythræus proavus. (Trombididæ.)

Locality: Prussian amber. Horizon: Lignurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 107.
 1856. Giebel. Insect. d. vorwelt, 481.
 1884. Karsch. Berl. entom. zeitschr., xxviii: 175.

1999. Erythræus raripilus. (Trombididæ.)

Locality: Prussian amber. Horizon: Lignurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 107.
 1856. Giebel. Insect. d. vorwelt, 481.

2000. Euphrys gibberula. (Attoidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93.
 1856. Giebel. Insect. d. vorwelt, 468.

See also *Phidippus gibberulus*.**2001. Euryopus** ———. (Theridides.)

Locality: Prussian amber. Horizon: Lignurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

2002. Euryopus gracilipes. (Theridides.)

Locality: Prussian amber. Horizon: Lignurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 40
 (undescribed).
 1853-'56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 633.
 1856. Giebel. Insect. d. vorwelt, 445.

2003. Flegia ———. (Theridides.)

Locality: Prussian amber. Horizon: Lignurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2004. Flegia ———. (Theridides.)

Locality: Prussian amber. Horizon: Lignurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

2005. Flegia longimana. (Theridides.)

Locality: Prussian amber. Horizon: Lignurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 29-30. *Pl.*
 3, *fig.* 18.
 1853-'56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 634-635. *Pls.* 42^a, *fig.* 10.
 1856. Giebel. Insect. d. vorwelt, 440.
 1870. Thorell. *European spiders*, i: 226.

2006. Gea ———. (Epeirides.)

Locality: Prussian amber. Horizon: Lignurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2007. Gea ——— (4 sp.). (Epeirides.)

Locality: Prussian amber. Horizon: Lignurian.

1856. Menge. Progr. petrishule Danzig, 1856: 6-7.

2008. *Gea epeiroides*. (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 23-24. *Pl.*
3, *fig.* 12.1853-'56. Bronn. Lethæa geogn., 3^e aufl., iii: 636-637. *Pls.* 42'*a*, *fig.* 12.

1856. Giebel. Insect. d. vorwelt, 436.

1890. McCook. Amer. spiders, ii: 452. *Fig.* 373.See also *Græa epeiroides*.**2009. *Gea krantzi*. (Epeirides.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palæontogr., viii: 2. *Pl.* 1, *fig.* 11.

1890. McCook. Amer. spiders, ii: 452.

See also *Epeira krantzi*.**2010. *Gea militaris*. (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 28.

See also *Androgens militaris*, *Græa militaris*.**2011. *Gea obscura*. (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 24. *Pl.* 3,
fig. 13.

1856. Giebel. Insect. d. vorwelt, 436.

See also *Antopia obscura*, *Græa obscura*.**2012. *Gea pubescens*. (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 24.

1856. Giebel. Insect. d. vorwelt, 436.

See also *Græa pubescens*.**2013. *Gea triquetra*. (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 29.

See also *Androgens triqueter*, *Græa triquetra*.**2014. *Gerdia myura*. (Hersilioidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1869. Menge. Scorp. (Schrift. naturf. gesellsch. Danzig, ii pt. ii): 8-9. *Figs.*
a-c.

1870. Thorell. European spiders, i: 228-229.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 743. *Fig.* 923.1886. " Zittel-Barrois, Traité de paléont., ii: 742. *Fig.* 940.**2015. *Gonyleptes* ——. (Gonyleptidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2016. *Gonyleptes nemastomoides*. (Gonyleptidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 102. *Pl.*
12, fig. 101.See also *Acantholophus nemastomoides*.**2017. *Gorgopis* — (5 sp.). (Attoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 9.

2018. *Gorgopis fasciata*. (Attoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93.

1853-'56. Bronn. Lethæa geogn., 3^e aufl., iii: 625-626. *Pls.* 42'a, fig. 1.

1856. Giebel. Insect. d. vorwelt, 467-468.

See also *Phidippus fasciatus*, *P. formosus*.**2019. *Gorgopis frenata*. (Attoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 466-467.

1870. Thorell. European spiders, i: 232-233.

See also *Phidippus frenatus*, *P. pusillus*, *P. paululus*, *Gorgopis torva*.**2020. *Gorgopis lynx*. (Attoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93.

See also *G. melanocephala*, etc.**2021. *Gorgopis marginata*. (Attoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93.

1856. Giebel. Insect. d. vorwelt, 467.

See also *Phidippus marginatus*.**2022. *Gorgopis melanocephala*. (Attoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 467.

See also *Phidippus melanocephalus*, *P. impressus*, *Gorgopis lynx*.**2023. *Gorgopis naumanni*. (Attoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 467.

2024. *Gorgopis torva*. (Attoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93.

See also *G. frenata*, etc.**2025. *Græa epeiroides*. (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1870. Thorell. European spiders, i: 225.

See also *Gea epeiroides*.

2026. *Græa militaris.* (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1870. Thorell. European spiders, i: 225.

See also *Gea militaris*, etc.**2027. *Græa obscura.* (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1870. Thorell. European spiders, i: 225.

See also *Gea obscura*, etc.**2028. *Græa pubescens.* (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1870. Thorell. European spiders, i: 225.

See also *Gea pubescens*.**2029. *Græa triquetra.* (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1870. Thorell. European spiders, i: 225.

See also *Gea triquetra*, etc.***Herselioides thanatiformis.*** See *Herselioides thanatiformis*.**2030. *Hersilia* ———. (Hersilioidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2031. *Hersilia aquisextana.* (Hersilioidæ.)Compared with *Hersilia indica* Luc.

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 458-460. Pl. 21, fig. 14.

2032. *Hersilia longipes.* (Hersilioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 450.

2033. *Hersilia miranda.* (Hersilioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 50. Pl. 17, fig. 147.

1856. Giebel. Insect. d. vorwelt, 450.

2034. *Herselioides thanatiformis.* (Hersilioidæ.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 460-462 (*Herselioides*). Pl. 23, fig. 24.**2035. *Heteromma intersecta.* (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 8.

1870. Thorell. European spiders, i: 229.

2036. *Histopona? anthracina.* (Agalenides.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1878. Bertkau. Verhandl. naturh. ver. preuss. rheinl., (4), v: 351-352. *Pl.* 5, *fig.* 5.

2037. *Idmonia virginea.* (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 94 (undescrib.).
- 1853-'56. Bronn. Lethæa geogn., 3^e aufl., iii: 639.
1856. Giebel. Insect. d. vorwelt, 469.
1870. Thorell. European spiders, i: 230.

2038. *Ixodes tertiaris.* (Ixodidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 733. *Fig.* 906.
1886. " Zittel-Barrois, Traité de paléont., ii: 732. *Fig.* 922.
1890. " Tert. ins. N. A., 47. *Pl.* 6, *fig.* 12.

2039. *Leda* ———. (Attides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2040. *Leda promissa.* (Attides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93-94. *Pl.* 10, *fig.* 93.
1856. Giebel. Insect. d. vorwelt, 463-469.
1870. Thorell. European spiders, i: 232.
- See also *Steneattus promissus*.

2041. *Leiobunum longipes.* (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 102.
1856. Giebel. Insect. d. vorwelt, 477.

***Limnochares* ———.** See II, HEMIPTERA, *Idem*.**2042. *Linoptes* ———. (Lycosoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 8.

2043. *Linoptes oculatus.* (Lycosoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 94 (undescrib.).
- 1853-'56. Bronn. Lethæa geogn., 3^e aufl., iii: 639.
1856. Giebel. Insect. d. vorwelt, 469.
1870. Thorell. European spiders, i: 232.

2044. *Linyphia* ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2045. Linyphia —— (2 sp.). (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

2046. Linyphia —— (Theridides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Harv. univ. bull., ii: 303.

1882. " Field nat., i: 62.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 288.

2047. Linyphia andræi. (Theridides.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1878. Bertkau. Verhandl. naturh. ver. preuss. rheinl., (4), v: 350-351. *Pl.* 5, *fig.* 6.**2048. Linyphia cheiracantha.** (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 41. *Pl.* 16, *fig.* 137.

1856. Giebel. Insect. d. vorwelt, 445.

See also *L. oblonga*.**2049. Linyphia oblonga.** (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 40-41.

1854. Menge. Ibid., 8, 42 (= *L. cheiracantha*).See also *L. cheiracantha*.**2050. Linyphia retensa.** (Theridides.)Compared with *L. cheiracantha*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 75-76. *Pl.* 11, *figs.* 25, 27.**2051. Linyphia rottensis.** (Theridides.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1878. Bertkau. Verhandl. naturh. ver. preuss. rheinl., (4), v: 349-350. *Pl.* 5, *fig.* 2.**2052. Lycosoides hersiliformis.** (Lycosoidæ.)

Locality: Cêlas, Gard, France. Horizon: Oligocene.

1887. Gourret. Rec. zool. Suisse, iv: 443-444. *Pl.* 21, *fig.* 13.**2053. Macaria** —— (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2054. Macaria —— (4 sp.). (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

2055. *Macaria ovata*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 64, 124 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 457.

2056. *Macaria procera*. (Drassides.)

Compared with *M. fastuosa*.

Locality: Prussian amber. Horizon: Ligurian

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 63-64. *Pl.* 6, *fig.* 55.
 1856. Giebel. Insect. d. vorwelt, 457.

2057. *Macaria squamata*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 64 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 457.

2058. *Macaria tenella*. (Drassides.)

Compared with *M. procera* K. and B.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 356, 357. *Fig.* 218.
 1872. " Monde prim. Suisse, 436, 438. *Fig.* 218, on p. 437.
 1876. " Prim. world Switz., ii: 10, 12. *Fig.* 218.
 1879. " Urwelt der Schweiz, 2^e anfl., 380, 382. *Fig.* 253, on p. 381.

2059. *Macaria tenuis*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 64 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 457

2060. *Mastigusa acuminata*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 94 (undeser.).
 1853-'56. Bronn. Lethæa geogn., 3^e anfl., iii: 639.
 1856. Giebel. Insect. d. vorwelt, 469.
 1870. Thorell. European spiders, i: 233.

2061. *Megameropsis aquensis*. (Trombididae.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 435-437. *Pl.* 20, *fig.* 1.

2062. *Melanophora* ———. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2063. *Melanophora* ——— (4 sp.). (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

2064. *Melanophora concinna*. (Drassides.)

Locality: Prussian amber. Horizon; Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 61-62. *Pl.*
6, *fig.* 52.

1856. Giebel. Insect. d. vorwelt, 456.

See also *M. nobilis*.**2065. *Melanophora lepida*. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 63.

1856. Giebel. Insect. d. vorwelt, 457.

2066. *Melanophora mundula*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min. 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 62-63. *Pl.*
6, *fig.* 54.

1856. Giebel. Insect. d. vorwelt, 456-457.

See also *Therea hispida*.**2067. *Melanophora nitida*. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 63
(undescrib.).

1856. Giebel. Insect. d. vorwelt, 457.

2068. *Melanophora nobilis*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 62. *Pl.* 6,
fig. 53.1854. Menge. *Ibid.*, 8 (= *M. concinna*).

1856. Giebel. Insect. d. vorwelt, 456.

See also *M. concinna*.**2069. *Melanophora regalis*. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 60-61. *Pl.*
6, *fig.* 51.

1856. Giebel. Insect. d. vorwelt, 456.

Micriphantes (several species). See *Micriphantes*, same species.**2070. *Micriphantes* ——. (Theridides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2071. *Micriphantes* — (4 sp.). (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 7 (*Micriphantes*).

2072. *Micryphantes globulus.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 40
(undescr.). (*Micriphantes.*)
1856. Giebel. Insect. d. vorwelt, 441.

2073. *Micryphantes infulatus.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 40. *Pl.*
4, fig. 29. (*Micriphantes.*)
1856. Giebel. Insect. d. vorwelt 444.

2074. *Micryphantes molybdinus.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871. (*Micriphantes.*)
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 39. *Pl.*
4, fig. 27.
1856. Giebel. Insect. d. vorwelt, 444.

2075. *Micryphantes regularis.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871. (*Micriphantes.*)
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 38-39. *Pl.*
4, fig. 28.
1856. Giebel. Insect. d. vorwelt, 444.

2076. *Micryphantes turritus.* (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 40
(undescr.). (*Micriphantes.*)
1856. Giebel. Insect. d. vorwelt, 444.

2077. *Mizalia* ———. (*Mizalioidæ.*)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2078. *Mizalia* ——— (2 sp.). (*Mizalioidæ.*)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 8.

2079. *Mizalia globosa.* (*Mizalioidæ.*)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 43. *Pl.* 5,
fig. 32.
1856. Giebel. Insect. d. vorwelt, 446.

See also *Theridium globosum*.

2080. *Mizalia pilulosa.* (Mizalioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 45. *Pl.*
5, *fig.* 34; *Pl.* 16, *fig.* 138.1854. Menge. *Ibid.*, 8 (= *M. rostrata*).See also *Mizalia rostrata*.**2081. *Mizalia punctulata.* (Mizalioidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 42-43.
Pl. 5, *fig.* 31.See also *Antopia punctulata*.**2082. *Mizalia rostrata.* (Mizalioidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 44. *Pl.* 5,
fig. 33.1856. Giebel. *Insect. d. vorwelt*, 445-446.1870. Thorell. *European spiders*, i: 228.1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 743. *Fig.* 924.1886. " *Zittel-Barrois, Traité de paléont.*, ii: 743. *Fig.* 941.See also *M. pilulosa*.**2083. *Mizalia truncata.* (Mizalioidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 45.

1856. Giebel. *Insect. d. vorwelt*, 446.**2084. *Mygale ambigua.* (Theraphosoidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. *Rec. zool. Suisse*, iv: 480-482. *Pl.* 23, *fig.* 28.**2085. *Nemastoma* ———. (Nemastomoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2086. *Nemastoma clavigerum.* (Nemastomoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 99.

1856. Giebel. *Insect. d. vorwelt*, 475.**2087. *Nemastoma denticulatum.* (Nemastomoidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 98-99. *Pl.*
11, *fig.* 98.1856. Giebel. *Insect. d. vorwelt*, 475.

2088. Nemastoma incertum. (Nemastomoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 99. *Pl.*
17, *fig.* 149.

1856. Giebel. Insect. d. vorwelt, 475.

2089. Nemastoma tuberculatum. (Nemastomoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 97-98. *Pl.*
11, *fig.* 97.

1856. Giebel, Insect. d. vorwelt, 474-475.

2090. Nephila ———. (Epeirides.)Compared with *N. plumipes*.

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

1882. " Harv. univ. bull., ii: 303.

1882. " Field nat., i: 63.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 288.

See also *Nephila pennatipes*.**2091. Nephila pennatipes.** (Epeirides.)Compared with *N. plumipes*.

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 744. *Fig.* 926.1886. " Zittel-Barrois, Traité de paléont., ii: 744. *Fig.* 943.1890. " Tert. ins. N. A., 89-90. *Pl.* 11, *fig.* 12.1890. McCook. Amer. spiders, ii: 450-451. *Fig.* 372.See also *Nephila* ———.**2092. Nothrus convexulus.** (Oribatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1884. Karsch. Berl. entom. zeitschr., xxviii: 175.

See also *Oribates convexulus*.**2093. Nothrus kühli.** (Oribatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1884. Karsch. Berl. entom. zeitschr., xxviii: 176. *Figs.* 1-3.**2094. Nothrus punctulus.** (Oribatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1884. Karsch. Berl. entom. zeitschr., xxviii: 176.

2095. Nothrus sulcatus. (Oribatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1884. Karsch. Berl. entom. zeitschr., xxviii: 176.

2096. Obisium ———. (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2097. Obisium ———. (Chelonethi.)

Locality ? Horizon: Tertiary.

1846. Giebel. Paläozool., 267.

Obisium ———. See Chelifer ——— Schweigger.**2098. Obisium rathkei.** (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 96-97. *Pl.*
10, *fig.* 96.1855. Menge. Scheerenspinnen, 28-29. *Pl.* 4, *fig.* 4 (rathkii). (Probably young
of *Chel. kleemanni*.)

1856. Giebel. Insect. d. vorwelt, 473.

See also Chelifer *kleemanni*.**Obisium rathkii.** See *Obisium rathkei*.**2099. Obisium sieboldii.** (Chelonethi.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 97
(*sieboldtii*).1856. Giebel. Insect. d. vorwelt, 473 (*sieboldi*).1870. Hagen. Proc. Bost. soc. nat. hist., xiii: 270 (*sieboldtii*).See also Chelifer *sieboldii*.**Obisium sieboldtii.** See *Obisium sieboldii*.**2100. Ocia hirsuta.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 8 (name
only).**2101. Ocypete** ———. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2102. Ocypete angustifrons. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 85
(*undescr.*).

1856. Giebel. Insect. d. vorwelt, 465.

2103. Ocypete crassipes. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 84-85. *Pl.*
9, *fig.* 79.

1856. Giebel. Insect. d. vorwelt, 465.

2104. Ocypete decumana. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 85. *Pl.* 9,
fig. 80.

1856. Giebel. Insect. d. vorwelt, 465.
 1856. Menge. Progr. petrishule Danzig, 1856: 8 (Oxypete).
- 2105. Oxypete marginata.** (Thomisides.)
 Locality: Prussian amber. Horizon: Ligurian.
1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 85.
 1856. Giebel. Insect. d. vorwelt, 465.
- 2106. Oxypete triguttata.** (Thomisides.)
 Locality: Prussian amber. Horizon: Ligurian.
1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 86. *Pl.*
 16, *fig.* 141.
- See also *Pythonissa triguttata*.
- 2107. Onca** — (2 sp.). (Epeirides.)
 Locality: Prussian amber. Horizon: Ligurian.
1856. Menge. Progr. petrishule Danzig, 1856: 6.
- 2108. Onca lepida.** (Epeirides.)
 Locality: Prussian amber. Horizon: Ligurian.
1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 24
 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 437.
- 2109. Onca pumila.** (Epeirides.)
 Locality: Prussian amber. Horizon: Ligurian.
1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 24
 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 437.
- 2110. Opilio** —. (Phalangioidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.
- 2111. Opilio** —. (Phalangioidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.
- 2112. Opilio corniger.** (Phalangioidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 101.
 1856. Giebel. Insect. d. vorwelt, 476.
- 2113. Opilio ovalis.** (Phalangioidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 99-100.
Pl. 12, *fig.* 99.
 1856. Giebel. Insect. d. vorwelt, 476.

2114. Opilio ramiger. (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 100-101.
*Pl. 12, fig. 100.*1856. Giebel. *Insect. d. vorwelt*, 476.**2115. Opisthophylax exarata.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petriscule Danzig*, 1856: 9.1870. Thorell. *European spiders*, i: 231.**2116. Oribates** ———. (Oribatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.**2117. Oribates convexulus.** (Oribatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 109. *Pl.*
*13, fig. 112.*1856. Giebel. *Insect. d. vorwelt*, 483 (convexus).See also *Nothrus convexulus*.**Oribates convexus.** See *Oribates convexulus*.**2118. Oribates politus.** (Oribatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 110. *Pl.*
*17, fig. 152.*1856. Giebel. *Insect. d. vorwelt*, 483.**Oxypete decumana.** See *Oxypete decumana*.**2119. Parattus** ——— (3 sp.). (Attoidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. *Harv. univ. bull.*, ii: 303.1882. " *Field nat.*, i: 62.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 287.**2120. Parattus evocatus.** (Attoidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 54-55.**2121. Parattus latitatus.** (Attoidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 55-56.**2122. Parattus resurrectus.** (Attoidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 53-54. *Pl. 11, fig. 26.***Pentacleus tristiculus.** See *Penthaleus tristiculus*.

2123. *Penthaleus* ———. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2124. *Penthaleus tristiculus*. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872 (*Penthaclens*).1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 108. *Pl.*
13, *fig.* 109.

1856. Giebel. Insect. d. vorwelt, 482.

2125. *Phalangillum hirsutum*. (Phalangioidæ.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 487-489. *Pl.* 21, *fig.* 15.**2126. *Phalangium* ———.** (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlothheim. Petrefactenk., 43.

2127. *Phalangium* ———. (Phalangioidæ.)Compared with *P. phaleratum*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Geogn. terrains tert., 220.

1847. Walck.-Gerv. Hist. nat. apt., iv: 345.

See also *Phrynus fossilis*.**2128. *Phalangium cancroides* (recent).** (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

[1758. Linné. Syst. nat., ii: 1028.]

1830. Berendt. Insekten im bernstein, 38.

1839. Brullé. Gisem. ins. foss., 19.

2129. *Phalangium opilio* (recent). (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

[1758. Linné. Syst. nat., ii: 1027.]

1830. Berendt. Insekten im bernstein, 38.

1839. Brullé. Gisem. ins. foss., 19.

2130. *Phalangium succineum*. (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 209.

***Phalangopus subtilis*.** See *Phalangopus subtilis*.**2131. *Phalangopus subtilis*.** (Scytodoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 94
(undescri.) (subtiles).1853-56. Bronn. Lethæa geogn., 3^e Aufl., iii: 639.

1856. Giebel. Insect. d. vorwelt, 469.

1870. Thorell. European spiders, i: 228.

2132. Phidippus ——. (Attoïdæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2133. Phidippus fasciatus. (Attoïdæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 89-90. *Pl.* 10, *figs.* 86-87.See also *Gorgopis fasciata*, etc.**2134. Phidippus formosus.** (Attoïdæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 90. *Pl.* 10, *fig.* 88.See also *Gorgopis fasciata*, etc.**2135. Phidippus frenatus.** (Attoïdæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 88-89. *Pl.* 9, *figs.* 83, 84.1890. McCook. Amer. spiders, ii: 467. *Figs.* 391-392.See also *Gorgopis frenata*, etc.**2136. Phidippus gibberulus.** (Attoïdæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 92. *Pl.* 10, *fig.* 92.See also *Euophrys gibberula*.**2137. Phidippus impressus.** (Attoïdæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 91. *Pl.* 10, *fig.* 90.See also *Gorgopis melanocephala*, etc.**2138. Phidippus marginatus.** (Attoïdæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 92-93. *Pl.* 16, *fig.* 142.See also *Gorgopis marginata*.**2139. Phidippus melanocephalus.** (Attoïdæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 89. *Pl.* 9, *fig.* 85.See also *Gorgopis melanocephala*, etc.

2140. Phidippus paululus. (Attoideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 91. *Pl.* 10,
fig. 89.See also *Gorgopis frenata*, etc.**2141. Phidippus pusillus.** (Attoideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 92. *Pl.* 10,
fig. 91.See also *Gorgopis frenata*, etc.**2142. Philodromus** ———. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2143. Philodromus dubius. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 82. *Pl.* 8,
fig. 76.See also *Pythonissa affinis*.**2144. Philodromus griseus.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 9 (undeser.).

2145. Philodromus microcephalus. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 81-82. *Pl.*
8, *fig.* 75.1890. McCook. Amer. spiders, ii: 467. *Fig.* 396.See also *Pythonissa microcephala*.**2146. Philodromus reptans.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 84
(undeser.).

1856. " Progr. petrishule Danzig, 1856: 9.

1856. Giebel. Insect. d. vorwelt, 464.

2147. Philodromus retrogradus. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 84
(undeser.).

1856. Giebel. Insect. d. vorwelt, 464.

2148. *Philodromus spinimanus*. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt, Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 83. *Pl.*
9, *fig.* 78.See also *Pythonissa spinimana*.**2149. *Philodromus squamiger*.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt, Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 83. *Pl.*
9, *fig.* 77.See also *Pythonissa sericata*.**2150. *Pholcus* ———.** (Scytodoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 9 (name only).

2151. *Phrynus* ———. (Pedipalpi.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 220.

2152. *Phrynus fossilis*. (Pedipalpi.)Compared with *P. phaleratus* Panz.

Locality: Aix, France. Horizon: Ligurian.

1834. Kefenstein. Naturg. erdkörp., ii: 370 (undeser.).

See also *Phalangium* ——— Serres.**2153. *Phrynus marioni*.** (Pedipalpi.)Compared with *P. reniformis* Latr.

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 489-491. *Pl.* 21, *fig.* 11.***Pythonissa affinis*.** See *Pythonissa affinis*.***Pythonissa ambigua*.** See *Pythonissa ambigua*.***Pythonissa sericata*.** See *Pythonissa sericata*.**2154. *Phytoptus antiquus*** (gall). (Phytoptidæ.)

Localities: Rott, Salzhausen, Germany. Horizon: Aquitanian.

1860. Heyden. Ber. oberh. gesellsch. nat. u. heilk., viii: 63.

1862. " Palaeontogr., x: 64. *Pl.* 10, *fig.* 1. (Not on *Salix abbreviata*
Göpp., but on *Passiflora brauni* Lindw.).

1865. Heyd.-Heyd. Palaeontogr., xiv: 35.

2155. *Platybunus* ———. (Phalangioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2156. *Platybunus dentipalpus*. (Phalangioideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 101-102.
Pl. 15, fig. 125.

1856. Giebel. Insect. d. vorwelt, 476-477.

1885. Suedder. Zittel, Handb. palaeont., i, th. ii: 741. Fig. 917.

1886. " Zittel-Barrois. Traité de paléont., n: 740. Fig. 934

2157. *Prodysdera intermedia*. (Dysderides.)

Compared with *Dysdera parvula*, D. erythrina.

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, ix: 477-480. Pl. 20, figs. 4-6.

2158. *Propetes* — (5 sp.). (Attoideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 9.

2159. *Propetes argutus*. (Attoideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93
(undescrib.).

1856. Giebel. Insect. d. vorwelt, 468.

2160. *Propetes felinus*. (Attoideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93
(undescrib.).

1856. Giebel. Insect. d. vorwelt, 468.

1870. Thorell. European spiders, i: 233.

2161. *Propetes griseus*. (Attoideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93
(undescrib.).

1856. Giebel. Insect. d. vorwelt, 468.

2162. *Propetes latifrons*. (Attoideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93.

1856. Giebel. Insect. d. vorwelt, 468.

2163. *Propetes pumilus*. (Attoideæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 93
(undescrib.).

1856. Giebel. Insect. d. vorwelt, 468.

2164. *Protochersis spinosus*. (Eresoidæ.)

Compared with *Palpinannus savignyi* Aud.

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 474-477. Pl. 20, fig. 3.

2165. Protolachesis annulata. (Euyoidæ.)Compared with *Lachese perversa* Sav.

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 467-469. *Pl. 21, fig. 17; Pl. 22, figs. 21, 22.***2166. Protolycosa attiformis.** (Lycosoidæ.)Compared with *Lycosa narbonensis* Walek., *Attoides eresiformis* Brongn.

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 444-447. *Pl. 20, fig. 7.***2167. Pseudopachygnathus maculatus.** (Trombididæ.)Compared with *Pachygnathus villosus* Dugès.

Location: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 437-439. *Pl. 20, fig. 2.***2168. Pseudothomisus articulatus.** (Thomisidæ.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret. Rec. zool. Suisse, iv: 449-451. *Pl. 21, figs. 9-10.***2169. Pythonissa** ———. (Drassidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2170. Pythonissa ——— (7 sp.). (Drassidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 7.

2171. Pythonissa affinis. (Drassidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872 (Pythonissa).

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 58-59.
Pl. 6, fig. 48.

1856. Giebel. Insect. d. vorwelt, 454.

See also *Philodromus dubius*.**2172. Pythonissa ambigua.** (Drassidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min. 1845: 872 (Pythonissa).

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 60. *Pl. 6,*
fig. 50.

1856. Giebel. Insect. d. vorwelt, 455.

2173. Pythonissa bipunctata. (Drassidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 60.

1856. " Progr. petrishule Danzig, 1856: 8.

1856. Giebel. Insect. d. vorwelt, 456.

2174. *Pythonissa discophora*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 60.
 1856. Giebel. Insect. d. vorwelt, 455-456.

2175. *Pythonissa glabra*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 60.
 1856. Giebel. Insect. d. vorwelt, 455.

2176. *Pythonissa microcephala*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 82.
 1856. Giebel. Insect. d. vorwelt, 455.

See also *Philodromus microcephalus*.**2177. *Pythonissa sericata*. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872 (*Phytonissa*).
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 59. *Pl.* 6,
fig. 49.

1856. Giebel. Insect. d. vorwelt, 454.

See also *Philodromus squamiger*.**2178. *Pythonissa spinimana*. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 83-84.
Pl. 9, *fig.* 78.

1856. Giebel. Insect. d. vorwelt, 455.

See also *Philodromus spinimanus*.**2179. *Pythonissa triguttata*. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 86.
 1856. Giebel. Insect. d. vorwelt, 455.

See also *Ocyptete triguttata*.**2180. *Pythonissa villosa*. (Drassides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 60.
 1856. Giebel. Insect. d. vorwelt, 455.

2181. *Rhyncholophus* ———. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2182. *Rhyncholophus bifrons*. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 106.
 1856. Giebel. Insect. d. vorwelt, 480.

2183. Rhyncholophus foveolatus. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 104. *Pl.*
13, *fig.* 102.

1856. Giebel. Insect. d. vorwelt, 479.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 734. *Fig.* 907.1886. " Zittel-Barrois, *Traité de paléont.*, ii: 733. *Fig.* 923.**2184. Rhyncholophus illustris.** (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 105. *Pl.*
13, *fig.* 104.

1856. Giebel. Insect. d. vorwelt, 479.

2185. Rhyncholophus incertus. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 105-106.
Pl. 13, *fig.* 105.

1856. Giebel. Insect. d. vorwelt, 479.

2186. Rhyncholophus longipes. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 104-105.
Pl. 13, *fig.* 103.

1856. Giebel. Insect. d. vorwelt, 479.

2187. Rhyncholophus procerus. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 106.

1856. Giebel. Insect. d. vorwelt, 480.

2188. Rhyncholophus rostratus. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 106.

1856. Giebel. Insect. d. vorwelt, 480.

2189. Rhyncholophus saccatus. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 104.

1856. Giebel. Insect. d. vorwelt, 479.

See also *Trombidium saccatum*.**2190. Salticus** ——— (Attoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 9.

2191. Schellenbergia rotundata. (Theridides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 357. *Fig.* 211.
 1870. Thorell. European spiders, i: 224.
 1872. Heer. Monde prim. Suisse, 437. *Fig.* 211.
 1876. " Prim. world Switz., ii: 11. *Fig.* 211 on p. 10.
 1879. " Urwelt der Schweiz, 2^e Aufl., 381. *Fig.* 246.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 743. *Fig.* 925.
 1886. " Zittel-Barrois, Trait e de pal ont., ii: 743. *Fig.* 942.

2192 Scorpio schweiggeri. (Scorpiones.)Compared with *S. americanus*.

Locality: Prussian amber. Horizon: Ligurian.

1819. Schweigger. Beobacht. naturh. reisen, 117-118 (with no specific name). *Pl.* 8, *figs.* 69, 69*ab*.
 1829. Holl. Handb. petref., 177-178.

2193. Segestria ———. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2194. Segestria ———. (Dysderides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Harv. univ. bull., ii: 303.
 See also *Segestria secessa*.

2195. Segestria cristata. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 74.
 1856. Giebel. Insect. d. vorwelt, 461.

2196. Segestria cylindrica. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 73. *Pl.* 7, *fig.* 66.
 1856. Giebel. Insect. d. vorwelt, 461.

2197. Segestria elongata. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 72. *Pl.* 7, *fig.* 65.
 1856. Giebel. Insect. d. vorwelt, 460-461.

2198. Segestria exarata. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 74.
 1856. Giebel. Insect. d. vorwelt, 461.

2199. *Segestria nana.* (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 73-74. *Pl.*
8, *fig.* 67.

1856. Giebel. Insect. d. vorwelt, 461.

1890. McCook. Amer. spiders, ii: 467. *Fig.* 393.**2200. *Segestria pusilla.* (Dysderides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 74.

1856. Giebel. Insect. d. vorwelt, 461.

2201. *Segestria secessa.* (Dysderides.)Compared with *S. senoculata*, Europe.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 61-62. *Pl.* 11, *fig.* 28.See also *Segestria* —— Scudder.**2202. *Segestria tomentosa.* (Dysderides.)**Compared with *S. senoculata*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 71-72. *Pl.*
16, *fig.* 140.

1856. Giebel. Insect. d. vorwelt, 460.

2203. *Segestria undulata.* (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 74.

1856. Giebel. Insect. d. vorwelt, 461.

2204. *Sejus* —— (Gamasidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2205. *Sejus bdelloides.* (Gamasidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 110-111.
Pl. 13, *fig.* 115.

1856. Giebel. Insect. d. vorwelt, 484.

2206. *Siga* —— (Epeirides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petr. schule Danzig, 1856: 7.

Siga citrina. See *Siga crinita*.**2207. *Siga crinita.* (Epeirides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 27
(undescri.).

- 1853-56. Bronn. *Lethæa geogn.*, 3^e Aufl., iii: 636 (*citrina*).
 1856. Giebel. *Insect. d. vorwelt*, 438.
 1870. Thorell. *European spiders*, i: 226.

Sosibius minor. See *Sosybius minor*.

2208. *Sosybius* ———. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

2209. *Sosybius* ——— (2 sp.). (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petr. schule Danzig*, 1856: 8.

2210. *Sosybius major*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.

1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 71. *Pl.*
 7, *fig.* 64.

- 1853-56. Bronn. *Lethæa geogn.*, 2^e Aufl., iii: 629-630. *Pls.* 42'*a*, *fig.* 5.

1856. Giebel. *Insect. d. vorwelt*, 460.

2211. *Sosybius minor*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.

1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 70. *Pl.*
 7, *fig.* 63.

1856. Giebel. *Insect. d. vorwelt*, 460.

1870. Thorell. *European spiders*, i: 229 (*Sosibius*).

2212. *Spheconia brevipes*. (Drassides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 94
 (undeser.).

- 1853-56. Bronn. *Lethæa geogn.*, 3^e Aufl., iii: 638.

1856. Giebel. *Insect. d. vorwelt*, 469.

1870. Thorell. *European spiders*, i: 230.

2213. *Steneattus promissus*. (Attoidea.)

Locality: Prussian amber. Horizon: Ligurian.

- 1853-56. Bronn-Roemer. Bronn's *Lethæa geogn.*, 3^e Aufl., iii: 626-627. *Pls.* 42'*a*,
fig. 2.

See also *Leda promissa*.

2214. *Syphax* ———. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

2215. *Syphax* ——— (3 sp.). (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petr. schule Danzig*, 1856: 9.

2216. Syphax fuliginosus. (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, Bernst. *befindl. organ. reste vorw.*, i, th. ii: 79-80.
*Pl. 8, fig. 73.*1856. Giebel. *Insect. d. vorwelt*, 463.1856. Menge. *Progr. petrishule Danzig*, 1856: 9.**2217. Syphax gracilis.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, Bernst. *befindl. organ. reste vorw.*, i, th. ii: 80. *Pl. 8,*
*fig. 74.*1856. Giebel. *Insect. d. vorwelt*, 464.**2218. Syphax hirtus.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. *befindl. organ. reste vorw.*, i, th. ii: 81.1856. Giebel. *Insect. d. vorwelt*, 464.**2219. Syphax megacephalus.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, Bernst. *befindl. organ. reste vorw.*, i, th. ii: 77-78.
*Pl. 8, fig. 71.*1856. Giebel. *Insect. d. vorwelt*, 463.1870. Thorell. *European spiders*, i: 231.1890. McCook. *Amer. spiders*, ii: 467. *Fig. 399.***2220. Syphax radiatus.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, Bernst. *befindl. organ. reste vorw.*, i, th. ii: 80-81.
*Pl. 17, fig. 148.*See also *Artamus radiatus*.**2221. Syphax thoracicus.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, Bernst. *befindl. organ. reste vorw.*, i, th. ii: 78-79.
*Pl. 8, fig. 72.*1853-56. Bronn. *Lethæa geogn.*, 3^e anal., iii: 625. *Pls. 42 a, fig. 3.*1856. Giebel. *Insect. d. vorwelt*, 463.**2222. Tegenaria** ———. (Agalenides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. *befindl. organ. reste vorw.*, i: 56.**2223. Tegenaria gracilipes.** (Agalenides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 871.1854. " Berendt, Bernst. *befindl. organ. reste vorw.*, i, th. ii: 47. *Pl.*
*16, fig. 139.*1856. Giebel. *Insect. d. vorwelt*, 448.

2224. Tegenaria lacazei. (Agalenides.)

Locality: Aix, France. Horizon: Ligurian.

1887. Gonrret. Rec. zool. Suisse, iv: 469-471. Pl. 22, fig. 20.

2225. Tegenaria obscura. (Agalenides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 46-47. Pl. 5, fig. 36.

1856. Giebel. Insect. d. vorwelt, 448.

2226. Tegenaria virilis. (Agalenides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 47.

1856. Giebel. Insect. d. vorwelt, 448.

1856. Menge. Progr. petrischule Danzig, 1856: 7.

Tethnæus hentzii. See *Tethneus hentzii*.**2227. Tethneus** — (4 sp.). (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Harv. univ. bull., ii: 303.

1882. " Field nat., i: 63.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 288.

2228. Tethneus guyoti. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 78-79. Pl. 11, figs. 8, 10.

2229. Tethneus hentzii. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 744 (*Tethnæus*). Fig. 928.1886. " Zittel-Barrois, Traité de paléont., ii: 743 (*Tethnæus*). Fig. 945.

1890. " Tert. ins. N. A., 80-81. Pl. 11, fig. 14.

2230. Tethneus obduratus. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 79-80. Pl. 11, fig. 31.

2231. Tethneus provectus. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 81-82. Pl. 11, fig. 21.

2232. Tetragnatha — (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Harv. univ. bull., ii: 303.

1882. " Field nat., i: 63.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 288.

See also *Tetragnatha tertiaria*.

2233. Tetragnatha tertiaria. (Epeirides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 744. *Fig.* 927.
 1886. " Zittel-Barrois, Traité de paléont., ii: 744. *Fig.* 944.
 1890. " Tert. ins. N. A., 77-78. *Pl.* 11, *fig.* 11.
 1899. McCook. Amer. spiders, ii: 451.

See also *Tetragnatha* ———.**2234. Tetranychus** ———. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2235. Tetranychus brevipes. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Koch-Berendt. Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 107. *Pl.* 13, *fig.* 108.
 1856. Giebel. Insect. d. vorwelt, 481.

2236. Tetranychus gibbus. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 107. *Pl.* 13, *fig.* 107.
 1856. Giebel. Insect. d. vorwelt, 481.

2237. Tetratrix ———. (Agalenides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2238. Tetratrix funesta. (Agalenides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 49-50. *Pl.* 17, *fig.* 146.
 1856. Giebel. Insect. d. vorwelt, 449.
 1870. Thorell. European spiders, i: 229 (not to *Agalenides*?).
 See also *Clythia funesta*.

2239. Tetratrix lineata.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 48-49. *Pl.* 17, *fig.* 145.
 1856. Giebel. Insect. d. vorwelt, 449.
 See also *Clythia lineata*.

2240. Therea ———. (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2241. *Therea hispida.* (Dysderides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 76-77. *Pl.*
8, *fig.* 70.1854. Menge. *Ibid.*, 77 (= *Melanophora mundula*).See also *Melanophora mundula*.**2242. *Therea petiolata.* (Dysderides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 872.1845. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 75-76. *Pl.*
8, *fig.* 69.1853-56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 628-629. *Pls.* 42^a, *fig.* 4.1856. Giebel. *Insect. d. vorwelt*, 462.1870. Thorell. *European spiders*, i: 230.**2243. *Therea pubescens.* (Dysderides.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 76.1856. Giebel. *Insect. d. vorwelt*, 462.***Theridion annulipes.*** See *Theridium annulipes*.***Theridion globulus.*** See *Theridium globulus*.***Theridion maculipes.*** See *Theridium maculipes*.***Theridiosoma columbiæ.*** See *Aranea columbiæ*.**2244. *Theridium* ———. (Theridides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.**2245. *Theridium* ——— (8 sp.). (Theridides.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petr. schule Danzig*, 1856: 7.**2246. *Theridium* ——— (2 sp.). (Theridides.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. *Harv. univ. bull.*, ii: 303.1882. " *Field nat.*, i: 62.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 288.**2247. *Theridium alutaceum.* (Theridides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 871.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 37. *Pl.*
16, *fig.* 135.1856. Giebel. *Insect. d. vorwelt*, 443.

2248. Theridium annulipes. (Theridides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 356 (Theridion). *Fig.* 212 ("219").
 1872. " Monde prim. Suisse, 436. *Fig.* 212, on p. 437.
 1876. " Prim. world Switz., ii: 9. *Fig.* 212, on p. 10.
 1879. " Urwelt der Schweiz, 2^e Aufl., 380. *Fig.* 247 ("254"), on p. 381.

2249. Theridium bifurcum. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 7
 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 443.

2250. Theridium bucklandi. (Theridides.)

Locality: Aix, France. Horizon: Ligurian.

1870. Thorell. European spiders, i: 223.
 1890. McCook. Amer. spiders, ii: 458.
 See also ——— Buckland.

2251. Theridium chorius. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 7
 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 443.

2252. Theridium clavigerum. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 7
 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 443.

2253. Theridium crassipes. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 7
 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 443.

2254. Theridium deterrentum. (Theridides.)

Compared with *T. lunatum*.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 37. *Pl.*
 17, *fig.* 144.
 1856. Giebel. Insect. d. vorwelt, 443.

2255. Theridium globosum. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 8.
 See also *Mizalia globosa*.

2256. Theridium globulus. (Theridides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 356 (Theridion). *Fig.* 220.
 1872. " Monde prim. Suisse, 436. *Fig.* 220, on p. 437.
 1876. " Prim. world Switz., ii: 9. *Fig.* 220, on p. 10.
 1879. " Urwelt der Schweiz, 2^e Aufl., 380. *Fig.* 255, on p. 381.

2257. Theridium granulatum. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 36. *Pl.* 4,
fig. 26.
 1856. Giebel. Insect. d. vorwelt, 443.

2258. Theridium hirtum. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 35-36. *Pl.*
 4, *fig.* 25.
 1856. Giebel. Insect. d. vorwelt, 442-443.
 1890. McCook. Amer. spiders, ii: 467. *Fig.* 398.

2259. Theridium maculipes. (Theridides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. (Theridion). *Fig.* 219 on p. 356.
 1872. " Monde prim. Suisse. *Fig.* 219 on p. 437.
 1876. " Prim. world Switz., ii. *Fig.* 219 on p. 10.
 1870. Thorell. European spiders, i: 224.
 1879. Heer. Urwelt der Schweiz, 2^e Aufl. *Fig.* 254 on p. 381.

2260. Theridium opertaneum. (Theridides.)Compared with *T. granulatum*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 73-74. *Pl.* 11, *fig.* 3.

2261. Theridium ovale. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 34. *Pl.* 4,
fig. 23.
 1856. Giebel. Insect. d. vorwelt, 442.

2262. Theridium ovatum. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 33-34. *Pl.*
 4, *fig.* 22.
 1856. Giebel. Insect. d. vorwelt, 442.

2263. Theridium seclusum. (Theridides.)Compared with *T. hirtum*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 74. *Pl.* 11, *fig.* 20.

2264. Theridium setulosum. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 7 (undeser.).1856. Giebel. *Insect. d. vorwelt*, 443.**2265. Theridium simplex.** (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 871.1854. " Berendt, *Bernst. befindl. organ. reste vorw.*, i, th. ii: 35. *Pl.* 4, *fig.* 24.1856. Giebel. *Insect. d. vorwelt*, 442.**2266. Thomisus** — (3 sp.). (Thomisides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. *Harv. univ. bull.*, ii: 303.1882. " *Field nat.*, i: 62.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 287.**2267. Thomisus defossus.** (Thomisides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 59-60. *Pl.* 11, *fig.* 23.**2268. Thomisus disjunctus.** (Thomisides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 58-59. *Pl.* 11, *fig.* 9.**2269. Thomisus lividus.** (Thomisides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 356. *Fig.* 216.1872. " *Monde prim. Suisse*, 436. *Fig.* 216 on *p.* 437.1876. " *Prim. world Switz.*, ii: 9. *Fig.* 216 on *p.* 10.1879. " *Urwelt der Schweiz*, 2^e aufl., 380. *Fig.* 251 on *p.* 381.**2270. Thomisus matutinus.** (Thomisides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petr. schule Danzig*, 1856: 9 (undeser.).**2271. Thomisus œningensis.** (Thomisides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 356. *Fig.* 215.1872. " *Monde prim. Suisse*, 436. *Fig.* 215 on *p.* 437.1876. " *Prim. world Switz.*, ii: 9. *Fig.* 215 on *p.* 10.1879. " *Urwelt der Schweiz*, 2^e aufl., 380. *Fig.* 250 on *p.* 381.1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 742. *Fig.* 920.1886. " *Zittel-Barrois, Traité de paléont.*, ii: 741. *Fig.* 937.See also *Xysticus œningensis*.**2272. Thomisus resutus.** (Thomisides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 57-58. *Pl.* 11, *fig.* 13.

2273. Thomisus sulzeri. (Thomisides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 356. *Fig.* 217.
 1872. " Monde prim. Suisse, 436. *Fig.* 217 on p. 437.
 1876. " Prim. world Switz., ii: 9. *Fig.* 217 on p. 10.
 1879. " Urwelt der Schweiz, 2^e Aufl., 380. *Fig.* 252 on p. 381.

2274. Thyelia ———. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2275. Thyelia ——— (8 sp.). (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petr. schule Danzig, 1856: 7.

2276. Thyelia anomala. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 52. *Pl.* 5, *fig.* 39.
 1856. Giebel. Insect. d. vorwelt, 451.
 1870. Thorell. European spiders, i: 227 (probably not a *Thyelia*).

2277. Thyelia convexa. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 54-55. *Pl.* 5, *fig.* 43.
 1856. Giebel. Insect. d. vorwelt, 452.

2278. Thyelia fossula. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 54. *Pl.* 5, *fig.* 42.
 1856. Giebel. Insect. d. vorwelt, 451-452.

2279. Thyelia marginata. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 56. *Pl.* 6, *fig.* 45.
 1856. Giebel. Insect. d. vorwelt, 452.
 1870. Thorell. European spiders, i: 227 (probably not a *Thyelia*).

2280. Thyelia mengei. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 452-453.

2281. Thyelia pallida. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 55. *Pl.* 6, *fig.* 44.
 1856. Geibel. Insect. d. vorwelt, 452.

2282. *Thyelia pectinata*. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 56.
 1856. Giebel. Insect. d. vorwelt, 453.

2283. *Thyelia scotina*. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 53. *Pl.* 5,
fig. 41.
 1856. Giebel. Insect. d. vorwelt, 451.

2284. *Thyelia spinosa*. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 56.
 1856. Giebel. Insect. d. vorwelt, 453.

2285. *Thyelia tristis*. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 51-52. *Pl.*
 5, *fig.* 38.
 1853-'56. Bronn. *Letheæ* geogn., 3^e anfl., iii: 630-631. *Pls.* 42'a, *fig.* 6.
 1856. Giebel. Insect. d. vorwelt, 451.
 1870. Thorell. European spiders, i: 227.

2286. *Thyelia villosa*. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 53. *Pl.* 5,
fig. 40.
 1856. Giebel. Insect. d. vorwelt, 451.

2287. *Titanœca* ——— (2 sp.). (Agalenides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Harv. univ. bull., ii: 303.
 1882. " Field nat., i: 62.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 288.

2288. *Titanœca hesterna*. (Agalenides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 69-70.

2289. *Titanœca ingenua*. (Agalenides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 69. *Pl.* 11, *figs.* 29, 32.

2290. *Tityus eogenus*. (Buthoidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1869. Menge. Scorp. (Schrift. naturf. gesellsch. Danzig, ii, th. ii), 3-6. *Figs.*
a-c.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 740.
 1886. " Zittel-Barrois, Traité de paléont., ii: 740.
 1886. " Bull. U. S. geol. surv., No. 31: 29.

2291. Trombidium ——. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im bernstein, 36.
 1845. " Bernst. befindl. organ. reste vorw., i: 56.

2292. Trombidium aquaticum (recent). (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

- [1793. Fabricius. Ent. syst., iii: 399.]
 1830. Berendt. Insekten im bernstein, 38.
 1839. Brullé. Gisem. ius. foss., 19.

2293. Trombidium clavipes. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 103. *Pl.*
 17, *fig.* 150.
 1856. Giebel. Insect. d. vorwelt, 478.
 1884. Karsch. Berl. entom. zeitschr., xxviii: 175.

2294. Trombidium crassipes. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 104.
 1856. Giebel. Insect. d. vorwelt, 478.
 1885. Karsch. Berl. entom. zeitschr., xxviii: 175.

2295. Trombidium fossile. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1834. Keferstein. Naturg. erdkörp., ii: 371 (undeser.) (Trompidium).

2296. Trombidium granulatum. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 104.
 1856. Giebel. Insect. d. vorwelt, 478.

2297. Trombidium heterotrichum. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 104.
 1856. Giebel. Insect. d. vorwelt, 478.

2298. Trombidium saccatum. (Trombididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.
 1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 103. *Pl.*
 17, *fig.* 151.

See also *Rhyncolophus saccatus*.

2299. Trombidium scrobiculatum. (Trombididæ.)Compared with *T. fuliginosum*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge.

Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 104.

1856. Giebel.

Insect. d. vorwelt, 478.

Trompidium fossile. See *Trombidium fossile*.**2300. Uroctea galloprovincialis.** (Urocteoidæ.)Compared with *U. (Clotho) durandi* Walck.

Locality: Aix, France. Horizon: Ligurian.

1887. Gourret.

Rec. zool. Suisse, iv: 462-464. *Pl.* 22, *fig.* 19.**2301. Xysticus annulipes.** (Thomisidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1878. Bertkau.

Verhandl. naturh. ver. preuss. rheinl., (4), v: 359-360. *Pl.* 5, *figs.* 7, 7a.**2302. Xysticus œningensis.** (Thomisidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1870. Thorell.

European spiders, i: 224.

See also *Thomisus œningensis*.**2303. Zilla** ———. (Therididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt.

Bernst. befindl. organ. reste vorw., i: 56.

2304. Zilla ——— (3 sp.). (Therididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge.

Progr. petrishule Danzig, 1856: 7.

2305. Zilla cornumana. (Therididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge.

Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 27 (undescribed).

1856. Giebel.

Insect. d. vorwelt, 438.

2306. Zilla gracilis. (Therididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. “

Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 26. *Pl.* 3, *fig.* 15.

1856. Giebel.

Insect. d. vorwelt, 437.

1890. McCook.

Amer. spiders, ii: 467. *Fig.* 390.**2307. Zilla porrecta.** (Therididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 871.

1854. “

Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 25-26. *Pl.* 3, *fig.* 14.

1856. Giebel.

Insect. d. vorwelt, 437.

1890. McCook.

Amer. spiders, ii: 467. *Fig.* 389.

2308 *Zilla spinipalpa*. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, *Berest. befindl. organ. reste vorw.*, i, th. ii: 27 (undescri.).1856. Giebel. *Insect. d. vorwelt*, 438.**2309.** *Zilla veterana*. (Theridides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. *Jahrb. min.*, 1845: 871.1854. " Berendt, *Berest. befindl. organ. reste vorw.*, i, th. ii: 26-27. *Pl* 3, *fig.* 16.1856. Giebel. *Insect. d. vorwelt*, 437-438.

HEXAPODA.

2310. ———.

Locality: Serzaune, Marne, France. Horizon: Lower Eocene.

1878. Goss. *Proc. geol. assoc.*, v: 214, note.1878. " *Ius. fauna tert. per.*, 36, note.1879. " *Ent. monthl. mag.*, xvi: 125, note.1880. " *Geol. aut. ins.*, 37, note.

ORTHOPTERA.

2311. ———.

Locality: Menat, France. Horizon: Aquitanian.

1870. Oustalet. *Ann. sc. géol.*, ii: art. 3, 78-79. *Pl.* 2, *fig.* 1.**2312.** ———.

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. *Geol. mag. (n. s.)*, v: 88.**2313.** ——— (several). (Aceridii.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. *Bull. U. S. geol. surv. terr.*, vi: 293.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 283.**2314.** ———. (Aceridii.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. *Quart. journ. geol. soc. Lond.*, xxxv: 344.**2315.** ———. (Blattariae.)

Locality: Rouffach, Alsatia. Horizon: Tongrien.

1881. Bleicher. *Bull. soc. géol. Fr.*, (3), viii: 226-227. (Probably isopod crust., perhaps Blattariae.)**2316.** ———. (Blattariae.)Compared with *Blatta germanica*.

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. *Handb. ent.*, i: 637.1836. " *Man. ent.*, 579.

2317. ————. (Blattariæ.)Compared with *Periplaneta americana*.

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 101.

2318. ————. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1819. Schweigger. Beobacht. naturh. reisen, 113. Pl. 8, figs. 71, 71ab.

2319. ———— (several). (Blattariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 283.

2320. ———— (several). (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 283.

2321. ————. (Locustariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., 31-32. Pl. 4, figs. 7a-d.

2322. ———— (leg). (Locustariæ.)

Compared with Phylloptera.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 774.

1890. " Tert. ins. N. A., 234.

2323. ———— (several). (Locustariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282-283.

2324. ————. (Phasmida.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 283.

2325. *Acheta* ————. (Gryllides.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637 (*Acheton*).

1836. " Man. ent., 579.

2326. *Acheta* ————. (Gryllides.)Compared with *A. campestris*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 226.

2327. Acheta ———. (Gryllides.)Compared with *A. italica*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 226.

2328. Acheta ———. (Gryllides.)Compared with *A. sylvestris*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 226.

2329. Acridium ———. (Acridii.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1831. Boué. Journ. géol., iii: 105, 143. Pl. 2, fig. 2.

2330. Acridium ———. (Acridii.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1842-'43. Unger. Chloris protogæa, 46. Pl. 15, fig. 2.

See also *Gryllacris ungeri*.**2331. Acridium barthelemyi**. (Acridii.)

Locality: Aix, France. Horizon: Ligurian.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 768.

1886. " Zittel-Barrois, Traité de paléont., ii: 768.

1886. " Bull. U. S. geol. surv., No. 31: 49.

1890. " Tert. ins. N. A., 220.

See also *Acridium (Gryllus) barthelemyi*.**2332. Acridium (Gryllus) barthelemyi**. (Acridii.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Descr. ins. foss., 5-6 (*Gryllus*). Pl., fig. 2.See also *Acridium barthelemyi*.**2333. Agathemera** ———. (Phasmida.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 767.

1886. " Zittel-Barrois, Traité de paléont., ii: 768.

1886. " Bull. U. S. geol. surv., No. 31: 49.

See also *Agathemera reclusa*.**2334. Agathemera reclusa**. (Phasmida.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 219-220. Pl. 17, fig. 11.

See also *Agathemera* ———.**Arnilia** ———. See *Leptysma* ———.**2335. Bacteria** ———. (Phasmida.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 13.

2336. Blatta ———. (Blattariae.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im Bernstein, 36-37.

2337. Blatta ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 541-542. *Pl. 16, fig. 1.***2338. Blatta** ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 543. *Pl. 16, fig. 3.*1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw. *Pl. 4, figs. 3a-d.***2339. Blatta** ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 543-544. *Pl. 16, fig. 4.***2340. Blatta** ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 544. *Pl. 16, fig. 5.***2341. Blatta** ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 544-545. *Pl. 16, fig. 6.***2342. Blatta** ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 544-545. *Pl. 16, fig. 7.***2343. Blatta** ———. (Blattariæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 176-177. *Pl. 4, fig. 17.***2344. Blatta** ———. (Blattariæ.)Compared with *B. germanica*.

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1836. " Man. ent., 579.

2345. Blatta ———. (Blattariæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

2346. Blatta ———. (Blattariæ.)

Locality: Eisleben, Rhenish Prussia. Horizon: Aquitanian?.

1856. Giebel. Zeitschr. ges. naturw., vii: 385-386. *Pl. 5, fig. 3.***2347. Blatta** ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

2348. Blatta ———. (Blattariæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guériu. Rev. zool., 1838: 170.

2349. Blatta ———. (Blattariæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1834. Keferstein. Naturg. erdkörp., ii: 331.

2350. Blatta ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 12-13.

2351. Blatta ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlothheim. Petrefacteuk., 43.

2352. Blatta baltica. (Blattariæ.)Compared with *B. lapponica*.

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 543-546 (unnamed). *Pl. 16, figs. 4, 5, 7.*1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, i: 32, 34 (= *Blattina succinea* Germ.?). *Pl. 4, fig. 5.*

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291.

1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also *Blattina succinea*, *Blatta succinea*.**2353. Blatta berendti.** (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 322-323.

2354. Blatta colorata. (Blattariæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig. 229, on p. 366.*1872. " Monde prim. Suisse. *Fig. 229, on p. 449.*1876. " Prim. world Switz., ii. *Fig. 229, on p. 21.*1879. " Urwelt der Schweiz, 2^e Aufl. *Fig. 270, on p. 392.*See also *Blattidium coloratum*.**2355. Blatta didyma.** (Blattariæ.)Compared with *B. lapponica*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, i: 34-35. *Pl. 4, fig. 6.*

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291.

1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also I, ORTHOPT., *Blattina didyma*.**2356. Blatta elliptica.** (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 315-316.

2357. Blatta gedanensis. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 544-546. *Pl. 16, fig. 6.*1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, i: 33-34. *Pl. 4, fig. 4.*

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291.

1877. Goldenberg. Fauna saræp. foss., ii: 21.

2358. *Blatta hyperborea.* (Blattariæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svensk. vet.-akad. handl., viii, No. 7: 78. *Pl. 16, fig. 43a, d.*

2359. *Blatta pauperata.* (Blattariæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 74-75. *Pl. 10, fig. 22.*

2360. *Blatta ruficeps.* (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 314-315.

2361. *Blatta succinea.* (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 323.

See also *Blattina succinea*, *Blatta baltica*.

2362. *Blatta tricuspidata.* (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 542-543. *Pl. 16, fig. 2.*

See also *Polyzosteria tricuspidata*.

2363. *Blattidium coloratum.* (Blattariæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291, 301-302. *Pl., fig. 9.*

1877. Goldenberg. Fauna saræp. foss., ii: 21.

See also *Blatta colorata*.

2364. *Blattidium fragile.* (Blattariæ.)

Locality: Atanekerdluk, N. Greenland. Horizon: Miocene.

1863. Heer. Flora foss. arct., i: 130. *Pl. 50, figs. 13, 13b.*

1883. " Flora foss. grönl., ii: 146.

2365. *Blattina succinea.* (Blattariæ.)

Compared with *Blatta nivea*.

Locality: Prussian amber. Horizon: Ligurian.

1813. Germar. Germ., Mag. ent., i: 16.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291 (= *Blatta baltica* ?).

1888. Schlechtend. Zeitschr. ges. naturw., lxi: 487-489.

See also *Blatta succinea*, *Blatta baltica*.

2366. *Chætoessa breviajata.* (Mantides.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 316-317 (*Chætoessa*).

Chætoessa breviajata. See *Chætoessa breviajata*.

2367. *Chimarocephala* (vic.) ———. (Acridii.)

Locality: Aix, France. Horizon: Ligurian.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 769.

1886. " Zittel-Barrois, Traité de paléont., ii: 769.

1886. " Bull. U. S. geol. surv., No. 31: 49.

1890. " Tert. ins. N. A., 224.

2368. Chimarocephala fischeri. (Acridii.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1890. Scudder. Tert. ins. N. A., 224.

See also *Cedipoda fischeri*.**2369. Cymatomera** ———. (Locustariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 770.

1886. " Zittel-Barrois, Traité de paléont., ii: 770.

1886. " Bull. U. S. geol. surv., No. 31: 50.

See also *Cymatomera maculata*.**2370. Cymatomera maculata.** (Locustariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 230-231. Pl. 17, fig. 7.

See also *Cymatomera* ———.**2371. Cyrtoxiphus macrocerus.** (Gryllides.)

Locality: Aix, France. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 234 (note).

See also *Gryllus macrocerus*.**2372. Decticus exstinctus.** (Locustariæ.)

Locality: Bonn, Germany. Horizon: Aquitanian.

1856. Giebel. Insect. d. vorwelt, 304.

See also *Locusta exstincta*, etc.**2373. Decticus speciosus.** (Locustariæ.)Compared with *D. albifrons* F.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 366. Fig. 222.

1872. " Monde prim. Suisse, 449. Fig. 222.

1876. " Prim. world Switz., ii: 20. Fig. 222 on p. 21.

1879. " Urwelt der Schweiz, 2^e anil., 391. Fig. 263 on p. 392.Compare II, ORTHOPTERA, *Decticus speciosus*.**2374. Decticus umbraceus.** (Locustariæ.)

Locality: Freudenheim, Bohemia. Horizon: ———

1869. Frič. Arch. naturw. landesdurchf. Böhm., i, th. ii: 276. Fig. 55.

2375. Dissosteira haidingeri. (Acridii.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1890. Scudder. Tert. ins. N. A., 224.

See also *Cedipoda haidingeri*.**2376. Forficula** ———. (Forficulariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

2377. Forficula ———. (Forficulariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1834. Keferstein. Naturg. erdkörp., ii: 331 (as of Burmeister, but erroneously, Burmeister mentioning a cricket of the size of *Forficula minor*).

2378. Forficula ———. (Forficulariæ.)Compared with *F. auricularia*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 12.

2379. Forficula ———. (Forficulariæ.)Compared with *F. auricularia et parallela*, Europe.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 225.

2380. Forficula bolcensis. (Forficulariæ.)

Locality: Monte Bolca, Italy. Horizon: Ligurian.

1855. Massalongo. Nereid. foss., 31 (undescrib.).

1856. " Studii paleont., 15-17. Pl. 1, figs. 5-7.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 449.

1886. Omboni. Atti r. ist. ven., (6), iv: 1425. Pl. 2, fig. 5.

1886. " Ins. foss. ven., 5. Pl. 2, fig. 5.

1890. Scudder. Tert. ins. N. A., 203.

2381. Forficula minuta. (Forficulariæ.)Compared with *F. minor* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 367.

1872. " Monde prim. Suisse, 450.

1876. " Prim. world Switz., ii: 22.

1879. " Urwelt der Schweiz, 2^e Aufl., 392.**2382. Forficula primigenia.** (Forficulariæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 367. Fig. 227 on p. 366.

1872. " Monde prim. Suisse, 450. Fig. 228 on p. 449.

1876. " Prim. world Switz., ii: 21. Fig. 227.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 448-449.

1879. Heer. Urwelt der Schweiz, 2^e Aufl., 392. Fig. 268.

1890. Scudder. Tert. ins. N. A., 202.

2383. Forficula recta. (Forficulariæ.)Compared with *F. annulipes* Luc.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 367. Fig. 226 on p. 366.

1872. " Monde prim. Suisse, 450. Fig. 226 on p. 449.

1876. " Prim. world Switz., ii: 21. Fig. 226.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 448-449.

1879. Heer. Urwelt der Schweiz, 2^e Aufl., 392. Fig. 267.

1890. Scudder. Tert. ins. N. A., 202.

2384. Gomphocerus ———. (Acridii.)

Locality: Aix, France. Horizon: Ligurian.

18—. Heer. MSS.

See also *Leptyma* ———.

2385. Gomphocerus abstrusus. (Acridii.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 223. Pl. 17, fig. 6.

2386. Gomphocerus femoralis. (Acridii.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 20-21. Pl. 1, fig. 9.

1852. Giebel. Deutschl. petref., 638.

1854. Pictet. Traité de paléont., 2^e ed., ii: 365. Pl. 40, fig. 16.

1856. Giebel. Insect. d. vorwelt, 309.

1885. Scudder. Zittel, Handb. palaeont., i. th. ii: 768.

1886. " Zittel-Barrois, Traité de paléont., ii: 768.

1886. " Bull. U. S. geol. surv., No. 31: 49.

Grillus barthelemyi. See *Acridium* (*Gryllus*) *barthelemyi*.**2387. Gryllacris** ———. (Locustariae.)

Locality: Gabbro, Italy. Horizon: Tripoli earth.

1878. Capellini. Atti acad. linc., (3), Mem. sc. fis., ii: 285.

2388. Gryllacris ———. (Locustariae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 770.

1886. " Zittel-Barrois, Traité de paléont., ii: 770.

1886. " Bull. U. S. geol. surv., No. 31: 50.

2389. Gryllacris charpentieri. (Locustariae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 12-15. Pl. 1, fig. 5.

1852. Giebel. Deutschl. petref., 637.

1856. " Insect. d. vorwelt, 305-306.

See also *Myrmeleon brevipenne*.**2390. Gryllacris cineris.** (Locustariae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 233-234. Pl. 17, fig. 17.

2391. Gryllacris ungeri. (Locustariae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 8-12. Pl. 1, fig. 4.

1852. Giebel. Deutschl. petref., 637.

1856. " Insect. d. vorwelt, 305.

1874. Swinton. Geol. mag., (2), 1: 338-339. Pl. 14, fig. 2.

1874. " Foss. Orthoptera, 2-3. Fig. 5.

See also *Acridium* ——— Unger.**2392. Gryllotalpa** ———. (Gryllides.)Compared with *G. vulgaris*.

Locality: Aix, France. Horizon: Lignrian.

1829. Serres. Géogn. terr. tert., 225.

2393. Gryllotalpa ——. (Gryllides.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.

1879. " Geol. mag. (n. s.), v: 88.

2394. Gryllotalpa stricta. (Gryllides.)

Locality: Oenningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 367.

1872. " Monde prim. Suisse, 450.

1876. " Prim. world Switz., ii: 20.

1879. " Urwelt der Schweiz, 2^e Aufl., 391.

2395. Gryllus ——. (Gryllides.)

Locality: Prussian amber. Horizon: Ligurian.

1841. Ehrenberg. Frioriep, Neue notizen, xix: 120.

2396. Gryllus ——. (Gryllides.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

2397. Gryllus ——. (Acridii.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. Hist. succ., 104 (unnamed). *Pl. 3, fig. 16ab.*

1825. Guérin. Dict. class. d'hist. nat., viii: 580 (criquet).

1829. Serres. Géogn. terr. tert., 241.

2398. Gryllus ——. (Acridii.)

Compared with *G. cœrulescens*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 226.

See also *Cedipoda* ——.

Gryllus barthelemyi. See *Acridium (Gryllus) barthelemyi*.

2399. Gryllus domesticus (recent). (Gryllides.)

Locality: Prussian amber. Horizon: Ligurian.

[1758. Linné. Syst. nat. ed. x, i: 428.]

1784. Meinecke. Naturforscher, xx: 187.

2400. Gryllus macrocerus. (Gryllides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Berust. befindl. organ. reste vorw., ii, 1: 36. *Pl. 4, figs. 8, 8a-c.*

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 770 (macrocerus) (probably a trigonid.) *Fig. 970.*

1886. " Zittel-Barrois, Traité de paléont., ii: 770 (probably a trigonid.) *Fig. 957.*

1886. " Bull. U. S. geol. surv., No. 31: 50.

See also *Cyrtoxiphus macrocerus*.

Gryllus macrocerus. See *Gryllus macrocerus*.

2401. *Gryllus troglodytes*. (Gryllides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 367. *Fig. 225 on p. 366.*
 1872. " *Monde prim. Suisse*, 450. *Fig. 225 on p. 449.*
 1876. " *Prim. world Switz.*, ii: 21. *Fig. 225.*
 1879. " *Urwelt der Schweiz*, 2^e *anl.*, 391-392. *Fig. 266.*
 1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 770 (probably a *Nemobius*).
 1886. " *Zittel-Barrois, Traité de paléont.*, ii: 770 (probably a *Nemobius*).
 1886. " *Bull. U. S. geol. surv.*, No. 31: 50.

See also *Nemobius troglodytes*.**2402. *Heterogamia antiqua*. (Blattariae.)**

Locality: Parschlug, Styria. Horizon: Tortonian.

1849. Heer. *Insektenf. tertiärg. Oeningen*, ii: 1-3. *Pl. 1, fig. 1.*
 1852. Giebel. *Dentschl. petref.*, 637.
 1856. " *Insect. d. vorwelt*, 313.
 1864. Heer. *Viert. naturf. gesellsch. Zürich*, ix: 291.
 1877. Goldenberg. *Fauna sarap. foss.*, ii: 21.

2403. *Hippiscus melanostictus*. (Acridii.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1890. Scudder. *Tert. ins. N. A.*, 224.

See also *Cedipoda melanosticta*.**2404. *Homœogamia ventriosus*. (Blattariae.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1876. Scudder. *Bull. U. S. geol. surv. terr.*, i: 447.
 1890. " *Tert. ins. N. A.*, 218. *Pl. 17, fig. 8.*

2405. *Labidura lithophila*. (Forficulariae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1876. Scudder. *Bull. U. S. geol. surv. terr.*, ii: 259-260.

See also *Labiduromma lithophilum*.**2406. *Labidura tertiaria*. (Forficulariae.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1876. Scudder. *Bull. U. S. geol. surv. terr.*, i: 447-449.
 1876. " *Bull. U. S. geol. surv. terr.*, ii: 259.

See also *Labiduromma tertiarium*.**2407. *Labiduromma* ———. (Forficulariae.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 214. *Pl. 16, fig. 24.*

2408. *Labiduromma avia*. (Forficulariae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 205-206. *Pl. 16, figs. 3, 5, 11, 22, 23.*

2409. *Labiduromma bormansi*. (Forficulariae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 206-207. *Pl. 16, fig. 1.*

2410. Labiduromma commixtum. (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 208-209. *Pl. 16, figs. 10, 17.***2411. Labiduromma exsulatum.** (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 766. *Fig. 959.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 766. *Fig. 975.*1890. " Tert. ins. N. A., 212-213. *Pl. 16, fig. 12.***2412. Labiduromma gilberti.** (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 211. *Pl. 16, fig. 14.***2413. Labiduromma infernum.** (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 214. *Pl. 16, fig. 7.***2414. Labiduromma labens.** (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 214-215. *Pl. 16, figs. 9, 13, 16.***2415. Labiduromma lithophilum.** (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 213. *Pl. 16, fig. 19.*See also *Labidura lithophila*.**2416. Labiduromma mortale.** (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 207-208. *Pl. 16, figs. 2, 6, 20.***2417. Labiduromma tertiarium.** (Forficulariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 209-211. *Pl. 16, figs. 15, 18, 21.*See also *Labidura tertiaria*.**2418. Leptysma (or Arnilia) ———.** (Aeridii.)

Locality: Aix, France. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 223.

See also *Gomphocerus ———*.**2419. Lithymnetes guttatus.** (Locustariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 533-534.

1885. " Zittel, Handb. palaeont., i, th. ii: 769. *Fig. 969.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 769. *Fig. 986.*1889. Lesley. Dict. foss. Penns., i: 354. *Fig.*1890. Scudder. Tert. ins. N. A., 229-230. *Pl. 17, figs. 14, 15.***2420. Locusta ———.** (Locustariæ.)

Locality: Rhine, Germany. Horizon: Braunkohl.

1831. Goldfuss. Verhandl. leop.-carol. akad. naturf., vii, th. i: 118.

2421. *Locusta* ——. (*Locustariæ*.)

Locality: Prussian amber. Horizon: Ligurian.

1834. Keferstein. Naturg. erdkörp., ii: 332 (as of Burmeister, but erroneously).

2422. *Locusta* ——. (*Locustariæ*.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 770.

1886. " Zittel-Barrois, Traité de paléont., ii: 770.

1886. " Bull. U. S. geol. surv., No. 31: 50.

2423. *Locusta* ——. (*Locustariæ*.)Compared with *L. grisea*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 226.

1890. Scudder. Tert. ins. N. A., 232.

2424. *Locusta exstincta*. (*Locustariæ*.)Compared with *L. grisea*.

Locality: Rhenish Prussia. Horizon: Aquitanian.

1837. Germar. Fauna insect. Europæ, xix: 16. Pl. 16.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 50.

See also *Decticus exstinctus*, *Locustites exstinctus*.**2425. *Locusta grönlandica*. (*Locustariæ*.)**

Locality: Ober Atanekerdluk, Greenland. Horizon: ——.

1883. Heer. Flora foss. grönl., ii: (Grönl. geol. unders.) 146-147. Pl. 109, figs. 12, 12b.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 770.

1886. " Zittel-Barrois, Traité de paléont., ii: 770.

1886. " Bull. U. S. geol. surv., No. 31: 50.

1890. " Tert. ins. N. A., 232.

2426. *Locusta silens*. (*Locustariæ*.)Compared with *L. occidentalis*, United States.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 232. Pl. 17, figs. 9, 10.

2427. *Locustites exstinctus*. (*Locustariæ*.)

Locality: Bonn, Rhenish Prussia. Horizon: Aquitanian.

1852. Giebel. Deutschl. petref., 637.

See also *Locusta exstincta*, etc.**2428. *Locustites maculatus*. (*Locustariæ*.)**

Locality: Parsehlug, Styria. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 5-8. Pl. 1, fig. 5.

1852. Giebel. Deutschl. petref., 637.

1856. " Insect. d. vorwelt, 303.

2429. *Mantis* ——. (*Mantides*.)

Locality: Prussian amber. Horizon: Ligurian.

1825. Guérin. Dict. class. d'hist. nat., viii: 580 (*Mante*).

1829. Serres. Géogn. terr. tert., 241.

2430. *Mantis protogæa*. (Mantides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 21-22. *Pl. 1, fig. 8.*
 1852. Giebel. Deutschl. petref., 638.
 1856. " Insect. d. vorwelt, 311.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 767.
 1886. " Zittel-Barrois, Traité de paléont., ii: 767.
 1886. " Bull. U. S. geol. surv., No. 31: 49.

2431. *Myrmeleon brevipenne*. (Locustariæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1843. Charpentier. Verhandl. leop.-carol. akad. naturf., xx: 406-407. *Pl. 22, fig. 1.*
 1866. Hagen. Steff. ent. zeit., xxvii: 436 (an orthopteron?).
 See also *Gryllacris charpentieri*.

2432. *Nanthacia torpida*. (Acridii.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 224-225.

2433. *Nemobius* ——— (2 sp.). (Gryllides.)

Locality: Aix, France. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 234 (undescribed).

2434. *Nemobius tertiaris*. (Gryllides.)Compared with *N. vittatus* (Harr.).

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 774.
 See also *Pronemobius tertiaris*.

2435. *Nemobius troglodytes*. (Gryllides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1890. Scudder. Tert. ins. N. A., 234.
 See also *Gryllus troglodytes*

2436. *Ædipoda* ———. (Acridii.)

Locality: Aix, France. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 225.
 See also *Gryllus* ——— Serres.

2437. *Ædipoda fischeri*. (Acridii.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 367. *Fig. 224, on p. 366.*
 1872. " Monde prim. Suisse, 450. *Fig. 224, on p. 449.*
 1876. " Prim. world Switz., ii: 20. *Fig. 224, on p. 21.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 391. *Fig. 265, on p. 392.*
 See also *Chimarocephala fischeri*.

2438. *Ædipoda germari*. (Acridii.)Compared with *Æ. migratoria*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 367.
 1872. " Monde prim. Suisse, 450.
 1876. " Prim. world Switz., ii: 20.
 1879. " Urwelt der Schweiz, 2^e Aufl., 391.

2439. *Ædipoda haidingeri*. (Acridii.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1865. Heer. Urwelt der Schweiz, 367. Fig. 223, on p. 366.
 1872. " Monde prim. Suisse, 450. Fig. 223, on p. 449.
 1876. " Prim. world Switz., ii: 20. Fig. 223, on p. 21.
 1879. " Urwelt der Schweiz, 2^e aull., 391. Fig. 264, on p. 392.

See also *Dissosteira haidingeri*.

2440. *Ædipoda melanosticta*. (Acridii.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1840. Unger. Chloris protogæa, i (unnamed). Pl. 5.
 1843. Charpentier. Verhandl. leop.-carol. akad. naturf., xx: 405-406. Pl. 21, figs. 1-5.
 1846. Geinitz. Grundr. versteinerungsk., 189. Pl. 8, figs. 6-7.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 15-18. Pl. 2, fig. 1.
 1852. Giebel. Deutschl. petref., 637.
 1856. " Insect. d. vorwelt, 308.

See also *Hippiscus melanostictus*.

2441. *Ædipoda nigro-fasciolata*. (Acridii.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 18-20. Pl. 2, fig. 2.
 1852. Giebel. Deutschl. petref., 637.
 1856. " Insect. d. vorwelt, 308.
 1855. Scudder. Zittel, Handb. palaeont., i, th. ii: 768.
 1886. " Zittel-Barrois, Traité de paléont., ii: 768.
 1886. " Bull. U. S. geol. surv., No. 31: 49.

See also *Seyllina nigrofasciolata*.

2442. *Ædiopda œningensis*. (Acridii.)

Locality: Oeningen, Baden. Horizon: Tortonian.

- " 1755. Knorr. Merkwürd. d. nat., (unnamed). Pl. 33, fig. 5." Heer.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 20. Pl. 2, fig. 4.
 1852. Giebel. Deutschl. petref., 637.
 1856. " Insect. d. vorwelt, 309.
 1890. Scudder. Tert. ius. N. A., 225.

2443. *Ædipoda præfocata*. (Acridii.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 225. Pl. 17, fig. 5.

2444. *Orchelimum* ——. (Locustariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 770.
 1886. " Zittel-Barrois, Traité de paléont., ii: 770.
 1886. " Bull. U. S. geol. surv., No. 31: 50.

See also *Orchelimum placidum*.

2445. *Orchelimum placidum*. (Locustariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 231-232. Pl. 17, figs. 16, 18, 19.

See also *Orchelimum* ——.

***Pachytilus* ——. See *Pachytilus* ——. ***

2446. Pachytylus ———. (Acridii.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. ent., iii: 51 (Pachytylus).

2447. Paralatindia ———. (Blattariæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 767.

1886. " Zittel-Barrois, Traité de paléont., ii: 767.

1886. " Bull. U. S. geol. surv., No. 31: 48.

See also *Paralatindia saussurei*.**2448. Paralatindia saussurei**. (Blattariæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 216. Pl. 6, fig. 25.

See also *Paralatindia* ———.**2449. Phaneroptera vetusta**. (Locustariæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 3-5. Pl. 1, fig. 2.

1852. Giebel. Deutschl. petref., 637.

1856. " Insect. d. vorwelt, 302-303.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 770.

1886. " Zittel-Barrois, Traité de paléont., ii: 770.

1886. " Bull. U. S. geol. surv., No. 31: 50.

2450. Phasma ———. (Phasmida.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 122. Pl. 4, fig. 11.

1856. Menge. Progr. petrishule Danzig, 1856: 13.

Phylloptera ———. See ——— (Locustariæ) Scudder.**2451. Polyzosteria** ———. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 12-13.

2452. Polyzosteria parvula. (Blattariæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Berendt. Ann. soc. ent. Fr., v: 541-542 (unnamed). Pl. 16, fig. 1.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 32, 35. Pl. 4, fig. 2.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291.

1877. Goldenberg. Fauna saræp. foss., ii: 21.

2453. Polyzosteria tricuspudata. (Blattariæ.)Compared with *P. decipiens* Burm., Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 32, 35-36. Pl. 4, fig. 1.

1864. Heer. Viert. naturf. gesellsch. Zürich, ix: 291.

1877. Goldenberg. Fauna saræp. foss., 21.

See also *Blatta tricuspudata*.

2454. *Pronemobius induratus*. (Gryllides.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 235. Pl. 6, fig. 18.

2455. *Pronemobius smithii*. (Gryllides.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 236-237. Pl. 6, fig. 22.

2456. *Pronemobius tertiaris*. (Gryllides.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 235-236. Pl. 6, figs. 13, 21, 23.

See also *Nemobius tertiaris*.**2457. *Pseudoperla gracilipes*. (Phasmida.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 228.

1854. Pictet. Traité de paléont., 2^e ed., ii: 364. Pl. 40, fig. 25.

1856. " Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 38. Pl. 4, fig. 9.

1856. Hagen. Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 39-40.

2458. *Pseudoperla lineata*. (Phasmida.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e ed., ii: 364 (undescrib.).

1856. " Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 38-39. Pl. 4, fig. 10.

1856. Hagen. Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 39-40.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 768. Fig. 964.

1886. " Zittel-Barrois, Traité de paléont., ii: 768. Fig. 981.

2459. *Scyllina ? nigrofasciolata*. (Acridii.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1890. Scudder. Tert. ins. N. A., 220.

See also *Ædipoda nigrofasciolata*.**2460. *Taphacris reliquata*. (Acridii.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 226-227. Pl. 12, figs. 8, 19.

2461. *Tetrix gracilis*. (Acridii.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. Fig. 228 on p. 366.

1872. " Monde prim. Suisse. Fig. 228 on p. 449.

1876. " Prim. world Switz., ii. Fig. 228 on p. 21.

1879. " Urwelt der Schweiz, 2^e autl. Fig. 269 on p. 392.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 768 (Tettigidea in expl. of ent). Fig. 966.

1886. " Zittel-Barrois, Traité de paléont., ii: 768 (Tettigidea in expl. of ent). Fig. 983.

1886. " Bull. U. S. geol. surv., No. 31: 49.

See also *Tettigidea gracilis*.

2462. *Tettigidea gracilis*. (Acridii.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1890. Scudder. Tert. ins. N. A., 220.

See also *Tetrix gracilis*.**2463. *Tyrbula multispinosa*. (Acridii.)**

Localities: Green River, Wyo.; Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 221-222. Pl. 17, fig. 13.

2464. *Tyrbula russelli*. (Acridii.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 768. Fig. 965.

1886. " Zittel-Barrois, Traité de paléont., ii: 768. Fig. 982.

1890. " Tert. ins. N. A., 222-223. Pl. 17, figs. 1-4.

2465. *Xya* ———. (Gryllides.)Compared with *X. variegata*, Europe.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 226.

2466. *Zetobora* ———. (Blattariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 767.

1886. " Zittel-Barrois, Traité de paléont., ii: 767.

1886. " Bull. U. S. geol. surv., No. 31: 46.

2467. *Zetobora brunneri*. (Blattariæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 217. Pl. 17, fig. 12.

NEUROPTERA.**2468. ——— ———.**

Locality: England. Horizon: Pleistocene.

1888. Bell. Entom., xxi: 2.

2469. ——— ———.

Locality: Bournemouth, England. Horizon: Middle Eocene.

1878. Goss. Proc. ent. soc. Lond., 1878: 8.

2470. ——— ———.

Locality: Sinigaglia, Italy. Horizon: Helvetian?.

1842. Procaccini. Nuov. ann. sc. nat., vii: 449.

2471. ——— ——— (larva).

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 294.

See also *Planocephalus aselloides*.

2472. ——— (several). (Ephemeridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 284.

2473. ——— (several). (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

2474. ——— (several). (Leptoceridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293

2475. ——— (under wing). (Odonata.)

Locality: Eisleben, Saxony. Horizon: ———

1856. Giebel. Zeitschr. ges. naturw., vii: 386. Pl. 5, fig. 4.

2476. ———. (Odonata-Libellulina).

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 775.

See also *Libellula* ——— Scudder.

2477. ——— *calypso*. (Odonata-Libellulina).

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86.

2478. ——— *cassandra*. (Odonata-Libellulina).

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86.

See also *Libellula cassandra*.

2479. ——— *ceres*. (Odonata-Libellulina).

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86 (= *cellulosa*?).

See also *Libellula ceres*, etc.

2480. ——— *doris*. (Odonata-Libellulina).

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Brauer. Verhandl. zool. bot.-gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86.

See also *Libellula doris*.

2481. ——— *eurynome*. (Odonata-Libellulina).

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86.

See also *Libellula eurynome*. *Libellula* ——— Schencher.

2482. ——— melobasis. (Odonata-Libellulina).

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86.

See also *Libellula melobasis*.**2483.** ——— perse. (Odonata-Libellulina).

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86.

See also *Libellula perse*.**2484.** ——— thetis. (Odonata-Libellulina).

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86.

See also *Libellula thetis*.**2485.** ——— thoe. (Odonata-Libellulina).

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neur., 86.

See also *Libellula thoe*.**2486.** ——— ——— (several). (Perlina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

2487. ——— ——— (several). (Phryganidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

2488. ——— ——— (several). (Rhyacophilidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

2489. ——— ——— (7 sp.). (Termitina.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. ent., iii: 51.

2490. ——— ———. (Thysanura.)

Locality: Prussian amber. Horizon: Lignurian.

1819. Schweigger. Beobacht. naturh. reisen, 113. Pl. 8, figs. 71, 71ab.

2491. ——— ———. (Trichoptera.)

Locality: Prussian amber. Horizon: Lignurian.

1841. Ehrenberg. Froriep, Neue notizen, xix: 120.

2492. ——— ——— (larval tubes). (Trichoptera.)

Locality: Gard, France. Horizon: Oligocene.

1884. Marion. Saporta, Organ. probl. anc. mers, 24-26 (on leaves of *Nymphæa dumasii*). Pls. 3, 4, and fig. 4, on p. 25.

2493. *Acreagris* ———. (Thysanura ?.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2494. *Acreagris crenata*. (Thysanura ?.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Ber. Jahrb. f. mineral., 1845: 873.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 123. *Pl.* 17,
fig. 157.1854. Menge. *Ibid.*, i, th. ii: 123 (= *Monophlebus* ♀).1856. Giebel. *Insect. d. vorwelt.*, 331.See also III, HEMIPTERA, *Monophlebus* ———.**2495. *Æschna* ———.** (Odonata.)Compared with *Æschna grandis*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1832. Curtis. Murch., *Trans. geol. soc. Lond.*, (2), iii: 286 (*Æschna*). *Pl.* 34,
figs. 4-5.**2496. *Æschna* ———.** (Odonata.)

Locality: Bournemouth, England. Horizon: Middle Eocene, Bagshot Sands.

1878. Goss. *Entom.*, xi: 193-195. *Fig.*1878. " *Proc. ent. soc. Lond.*, 1887: 8.See also *Basiaeschna* ———.**2497. *Æschna* ———** (tip of wing). (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. *Verhandl. zool.-bot. ver. Wien*, iv: 227.See also *Gomphoides oculata*.**2498. *Æschna* ———** (2 sp.). (Odonata.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. *Bull. U. S. geol. surv. terr.*, vi: 293.1882. " *Proc. Bost. soc. nat. hist.*, xxi: 409.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 284.**2499. *Æschna* ———** (larva). (Odonata.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. *Bull. U. S. geol. surv. terr.*, vi: 293.1882. " *Proc. Bost. soc. nat. hist.*, xxi: 409.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 284.See also *Æschna larvata*.**2500. *Æschna dido*** (nymph). (Odonata.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. *Palaeontogr.*, x: 268. *Pl.* 44, *fig.* 8.1870. L. Heyden. *Foss. Dipt. Rott*, 30.1870. " *Palaeontogr.*, xvii: 266.

2501. *Æschna eudore* (larva). (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 73-74. *Pl. 8, fig. 4.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 362.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 278.

2502. *Æschna larvata* (larva). (Odonata.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 145. *Pl. 13, fig. 11.*
 See also *Æschna* — Scudder.

2503. *Æschna metis*. (Odonata.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 68-73. *Pl. 5, fig. 1.*
 1856. Giebel. Insect. d. vorwelt, 277-278.
 See also *Anax metis*.

2504. *Æschna polydore*. (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 63-67. *Pl. 4, fig. 6.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 362.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 277.
 See also *Æschna* (*Æschna*) *polydore*.

2505. *Æschna* (*Æschna*) *polydore*. (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1890. Scudder. Tert. ins. N. A., 142.
 See also *Æschna polydore*.

2506. *Æschna* (*Basiæschna*) *separata*. (Odonata.)Compared with *Æ. janata* Say.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 144-145. *Pl. 13, fig. 15.*

2507. *Æschna* (*Æschna*) *solida*. (Odonata.)Compared with *Æ. constricta*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 143-144. *Pl. 13, fig. 1.*

2508. *Æschna tyche*. (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 67-68. *Pl. 4, fig. 7.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 362.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 277.
 See also *Æschna* (*Æschna*) *tyche*.

2509. *Æschna* (*Æschna*) *tyche*. (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1890. Scudder. Tert. ins. N. A., 142.
 See also *Æschna tyche*.

2510. Agapetus æqualis. (Rhyacophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 120-121.
Pl. 8, fig. 30.
1864. " Phryg. synopsis synom., 3.
1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 801.

2511. Agraylea succinea. (Hydroptilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1864. Hagen. Verhandl. zool.-bot. gesellsch. Wien, xiv: 4.
1864. " Phryg. synopsis synom., 4.

2512. Agrion ———. (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 57.

2513. Agrion ———. (Odonata.)Compared with *A. sanguineum*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1832. Curtis. Mureh., Trans. geol. soc. Lond., (2), iii: 286. *Pl. 34, fig. 6.*
 See also *Agrion aglaope*.

2514. Agrion ———. (Odonata.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 252.

2515. Agrion ——— (2 sp.). (Odonata.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.
1882. " Proc. Bost. soc. nat. hist., xxi: 409.
1883. " Ann. rep. U. S. geol. surv. terr., xii: 284.

2516. Agrion ——— (nymph). (Odonata.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.
1882. " Proc. Bost. soc. nat. hist., xxi: 409.

See also *Agrion telluris*.**2517. Agrion** ———. (Odonata.)

Locality: Garnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.
1879. " Geol. mag. (n. s.), v: 89.

2518. Agrion aglaope. (Odonata.)Compared with *A. elegans* Lind.

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 59-62. *Pl. 4, fig. 4.*
1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 356.
1852. Giebel. Deutschl. petref., 638.
1856. " Insect. d. vorwelt, 272.

1865. Heer. Urwelt der Schweiz, 369.
 1872. " Monde prim. Suisse, 453.
 1876. " Prim. world Switz., ii: 24.
 1879. " Urwelt der Schweiz, 2^e anfl., 395.
 1890. Scudder. Tert. ins. N. A., 137.

See also *Agrion* ——— Curtis.

2519. *Agrion aglaopheme.* (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 62-63. *Pl. 4, fig. 5.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 356.
 1852. Giebel. Deutschl. petref., 638.
 1856. " Insect. d. vorwelt, 273.

2520. *Agrion antiquum.* (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1848. Pictet. MSS.
 1848. Hagen. Stett. ent. zeit., ix: 7.
 1850. " Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 356-357.
 1854. " Verhandl. zool.-bot. ver. Wien, iv: 227.
 1856. Giebel. Insect d. vorwelt, 273.
 1856. Pict.-Hag. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 78-80.
Pl. 6, figs. 4b-d; Pl. 8, fig. 11.

See also *Argia antiqua*, *Platynemis antiqua*.

2521. *Agrion (Lestes) coloratum.* (Odonata.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Charpentier. Neues jahrb. min., 1841: 332-337 (unnamed). *Pl. 1.*
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 55-56.
 1856. Giebel. Insect. d. vorwelt, 273.

See also *Lestes coloratus*.

2522. *Agrion exsularis.* (Odonata.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 139-140. *Pl. 13, fig. 6.*

2523. *Agrion icarus.* (Odonata.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 260. *Pl. 44, fig. 5.*

See also *Platynemis icarus*.

2524. *Agrion iris.* (Odonata.)

Compared with *A. fasciatum* and *longicaudum*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1879. Heer. Urwelt der Schweiz, 2^e anfl., 395. *Fig. 275.*

See also *Lestes iris*.

2525. *Agrion leucosia.* (Odonata.)

Compared with *A. longicaudum*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 369.
 1872. " Monde prim. Suisse, 453.
 1876. " Prim. world Switz., ii: 24.
 1879. " Urwelt der Schweiz, 2^e anfl., 395.

See also *Agrion (Lestes) leucosia*, etc.

2526. Agrion (Lestes) leucosia. (Odonata.)Compared with *A. longicaudum*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 56-57. *Pl. 4, fig. 1.*

1856. Giebel. Insect. d. vorwelt, 273-274.

See also *Lestes leucosia*, *Agrion leucosia*.**2527. Agrion (Lestes) ligea.** (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 57-59. *Pl. 4, fig. 2.*

1856. Giebel. Insect. d. vorwelt, 274.

See also *Lestes ligea*.**2528. Agrion mascescens.** (Odonata.)

Locality: Florissant, Colo. Horizon: Oligocene.

890. Scudder. Tert. ins. N. A., 138-139. *Pl. 13, figs. 8, 9.***2529. Agrion mysis** (nymph). (Odonata.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 269. *Pl. 44, fig. 6.***2530. Agrion parthenope.** (Odonata.)Compared with *A. fasciatum*, South Africa..

Locality: Oeningen, Baden. Horizon: Tortonian.

1852. Giebel. Deutschl. petref., 638.

1865. Heer. Urwelt der Schweiz, 369.

1872. " Monde prim. Suisse, 453.

1876. " Prim. world Switz., ii: 24.

1879. " Urwelt der Schweiz, 2^e aufl., 395.See also *Agrion (Sterope) parthenope*, etc.**2531. Agrion (Sterope) parthenope.** (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 45-55. *Pl. 3, fig. 11.*

1856. Giebel. Insect. d. vorwelt, 274-275.

See also *Agrion parthenope*, *Sympycna parthenope*, *Sterope parthenope*.**2532. Agrion (Lestes) peisinoe.** (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 59. *Pl. 4, fig. 3.*

1856. Giebel. Insect. d. vorwelt, 274.

See also *Lestes peisinoe*.**2533. Agrion telluris** (nymph). (Odonata.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 140-141. *Pl. 13, fig. 10.*See also *Agrion* — Scudder.**2534. Agrion thais** (nymph). (Odonata.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 269 (pnpa). *Pl. 44, fig. 7.*

2535. Agrypnia ———. (Trichoptera.)Compared with *A. pagetana*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germar. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 101.
See also *Limnophilus* ——— Hagen.

2536. Amphientomum ———. (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2537. Amphientomum paradoxum. (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 225 (undescri.).
1854. " Traité de paléont., 2^e éd., ii: 376. *Pl.* 40, *figs.* 27, 27*ab*.
1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 61-64. *Pl.*
7, *figs.* 21*b-d*; *pl.* 8, *figs.* 10*a-c*.
1865. Hagen. Ent. monthl. mag., ii: 149.
1866. " Verhandl. zool.-bot. gesellsch. Wien, xvi: 204.
1866. " Psoc. Emb. synopsis, 4.
1882. " Stett. ent. zeit., xliii: 268-276. *Pl.* 1, *fig.* 6 (9 *figs.*).

2538. Anax metis. (Odonata.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liége, vi): 361.
1852. Giebel. Deutschl. petref., 639.
1890. Scudder. Tert. ins. N. A., 142.
See also *Æschna metis*.

2539. Apeilocheira ———. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57 (*Apeilocheira*).

2540. Apeilocheira fusconigra. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 376 (undescri.).
1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 115. *Pl.*
7, *fig.* 18.
1864. Hagen. Phryg. synopsis synom., 7 (= *Polycentropus dubius*).
1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 805 (= *Polycentropus*
dubius).

See also *Polycentropus fusconiger*, etc.**Apeilocheira** ———. See *Apeilocheira* ———.**2541. Archipsocus puber.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1882. Künow. MSS.
1882. Hagen. Stett. ent. zeit., xliii: 222-225. *Pl.* 1, *figs.* 10¹⁻⁹.

2542. *Argia antiqua*. (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen.

Verhandl. zool.-bot. ver. Wien, iv: 227 (*Argia*).

1856. “

Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 79-80
(*Argia*).See also *Agrion antiquum*, etc.*Argia antiqua*. See *Argia antiqua*.**2543. *Ascalaphus edwardsii*. (Hemerobina.)**Compared with *A. barbarus*, S. Europe.

Locality: Saint-Gérand le Puy, France. Horizon: Aquitanian.

1870. Oustalet.

Ann. sc. géol., ii, art. 3: 93-94. *Pl.* 2, *figs.* 8, 9.**2544. *Ascalaphus proavus*. (Hemerobina.)**Compared with *A. subvertens*, Venezuela.

Locality: Stösschen, bei Linz, Austria. Horizon: Aquitanian.

1858. Hagen.

Palaeontogr., v: 125-126. *Pl.* 25.See also *Suphalasca proavus*.**2545. *Aspatherium geinitzii*. (Trichoptera.)**

Locality: Prussian amber. Horizon: Ligurian.

1851. Kolenati.

Abhandl. böhm. gesellsch. wiss., (5), vi: 15 (undescrib.).

2546. *Atropos succinea*. (Psocina.)Compared with *A. divinatoria*.

Locality: Prussian amber. Horizon: Ligurian.

1882. Künow.

MSS.

1882. Hagen.

Stett. ent. zeit., xliii: 231, 289-292. *Pl.* 2, *figs.* 3¹, 1a-c, 2, 3, 3b.

1883. “

Stett. ent. zeit., xliv: 296.

See also *Troctes succinicus*.**2547. *Bætis* ———. (Ephemeridæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt.

Bernst. befindl. organ. reste vorw., i: 57.

2548. *Bætis anomala*. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet.

Hagen, Verhandl. zool.-bot. ver. Wien, iv: 227 (undescrib.).

1844. “

Traité de paléont., 2^e éd., ii: 371 (undescrib.).1856. Pictet-Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 75-76. *Pl.*6, *fig.* 1b-c.See also *Cronicus anomalus*.**2549. *Bætis gigantea*. (Ephemeridæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen.

Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 75.

2550. *Bætis grossa*. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen.

Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 75.

2551. *Bætis longipes*. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 227 (undescrip.).

1856. " Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 76-77.

2552. *Basiaeschna* ———. (Odonata.)

Locality: Bournemouth, England. Horizon: Middle Eocene.

1890. Scudder. Tert. ins. N. A., 142.

See also *Æschna* ——— Goss.***Basiaeschna separata*. See *Æschna (Basiaeschna) separata*.****2553. *Bittacus* ———. (Panorpidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 57.

2554. *Bittacus antiquus*. (Panorpidæ.)Compared with *B. italicus*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undescrip.).

1854. " Traité de paléont., 2^e éd., ii: 379. Pl. 40, fig. 26.

1856. " Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 92. Pl. 7, fig. 23; pl. 8, fig. 23.

2555. *Bittacus reticulatus*. (Panorpidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 90. Pl. 5, fig. 11.

1852. Giebel. Deutschl. petref., 640.

1856. " Insect. d. vorwelt, 258.

2556. *Bittacus validus*. (Panorpidæ.)Compared with *B. testaceus*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229 (undescrip.).

1856. " Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 92. Pl. 8, fig. 23.

2557. *Bothromicromus lachlani*. (Hemerobina.)Compared with *Micromus hirtus*, Europe.

Locality: Quesnel, British Columbia. Horizon: ———

1878. Scudder. Add. ins. fauna Quesnel, 6-7.

1878. " Rep. progr. geol. surv. Can., 1876-77: 462-463.

1878. " Rapp. oper. comm. géol. Can., 1 76-77: 520-521.

1890. " Terr. ins. N. A., 164-165. Pl. 2, figs. 7-10.

2558. *Brachycentrus labialis*. (Sericostomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Phyg. synopsis synom., 9.

1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 807.

See also *Hydronautia labialis*.

2559. *Cæcilius abnormis*. (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1866. Hagen. Psoc. Emb. synopsis, 4.

1866. " Verhandl. zool.-bot. gesellsch. Wien, xvi: 204.

See also *Elipsoeus abnormis*, etc.

2560. *Cæcilius debilis*. (Psocina.)

Compared with *C. obsoletus*.

Locality: Prussian amber. Horizon: Ligurian.

1882. Hagen. Stett. ent. zeit., xliii: 284-287. Pl. 1, figs. 4¹⁻³.

See also *Psocus debilis*, *Epipsoeus debilis*.

2561. *Cæcilius pilosus*. (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1882. Hagen. Stett. ent. zeit., xliii: 283-284. Pl. 1, figs. 3¹⁻², 4⁷.

2562. *Cæcilius proavus*. (Psocina.)

Compared with *C. aridus*, *C. dimidiatus*.

Locality: Prussian amber. Horizon: Ligurian.

1866. Hagen. Stett. ent. zeit., xxvii: 206.

1866. " Psoc. Emb. synopsis, 6.

1882. " Stett. ent. zeit., xliii: 280-283. Pl. 1, figs. 2¹⁻³, 8a, 9-11.

1866. " Verhandl. zool.-bot. gesellsch. Wien, xvi: 206

See also *Psocus proavus*.

2563. *Calopteryx* ? — (nymph). (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 227 (undescribed).

2564. *Calotermes affinis*. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 222.

1858. " Catal. Neuropt. Brit. mus., 8.

1858. " Linn. entom., xii: 53-54.

1860. " Linn. entom., xiv: 100-101.

See also *Termes* (*Calotermes*) *affinis*, etc.

2565. *Calotermes berendtii*. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 222 (undescribed).

1858. " Catal. Neuropt. Brit. mus., 7.

1858. " Linn. entom., xii: 49-51.

1860. " Linn. entom., xiv: 100.

See also *Termes berendtii*, etc.

2566. *Calotermes rhenanus*. (Termitina.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 250-251. Pl. 44, figs. 1-2.

2567. Celithemis cellulosa. (Odonata.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1868. Brauer. Verhandl. zool.-bot. gesellsch. Wien, xviii: 738.

1868. " Verz. bek. Neuropt., 86.

See also *Libellula cellulosa*, L. *ceres*, etc.**2568. Chauliodes** ———. (Sialina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2569. Chauliodes prisca. (Sialina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 228 (undescribed).

1854. " Traité de paléont., 2^e éd., ii: 377. Pl. 40, figs. 24, 24a.

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 82. Pl. 7, fig. 22.

2570. Chrysopa ———. (Hemerobina.)Compared with *C. perla* Linn.

Locality: Thalheim, Siebenbürgen. Horizon: ———.

1855. Andrá. Foss. flora Siebenb., 26. Pl. 5, figs. 3, 3a.

1856. Giebel. Insect. d. vorwelt, 262-263.

1866. Hagen. Stett. ent. zeit., xvi: 399 (a *Chrysopa*?).**2571. Chrysopa** ———. (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2572. Chrysopa (vic.) ———. (Hemerobina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

See also *Palæochrysa* ———, *Tribochrysa* ———.**Chrysopa or Hemerobius** ———. See *Hemerobius* (or *Chrysopa*) ———.**2573. Coniopteryx timida.** (Coniopterygidae.)

Locality: Prussian amber. Horizon: Ligurian.

1866. Hagen. Stett. ent. zeit., xxvii: 401.

See also *Coniortes* ——— *Hagen*, *Coniortes timidus*.**2574. Coniortes, (Osmylus, or Nymphes)** ——— (larva.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 90.

See also *Coniopteryx timida*, etc.**2575. Coniortes timidus.** (Coniopterygidae.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 228 (undescribed).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 89.

See also *Coniopteryx timida*, etc.

2576. *Cordulia platyptera.* (Odonata.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 74-79. *Pl. 5, fig. 3.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 363.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 288-289.

See also *Libellula platyptera*.

2577. *Cordulia scheuchzeri.* (Odonata.)

Locality: Monte Bolca, Italy. Horizon: Ligurian.

- [1723. Schenckzer. Herb. diluv. (unnamed). *Pl. 5, fig. 2.*]
 1855. Massalongo. Nereid. foss., 31 (undescri.).
 1856. " Stud. paleont., 17-18. *Pl. 2, fig. 7.*
 1886. Omboni. Atti r. ist. Ven., (6), iv: 1425-1426. *Pl. 2, fig. 6.*
 1886. " Ins. foss. Ven., 5-6. *Pl. 2, fig. 6.*

2578. *Corydalis?* — (leg).

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 77. *Pl. 10, fig. 26.*
 1863. Hagen. Palaeontogr., x: 250 (not *Corydalis*, perhaps *Termes*).

2579. *Cronicus anomalus.* (Ephemeroidea.)

Locality: Prussian amber. Horizon: Ligurian.

1871. Eaton. Trans. ent. soc. Lond., 1871: 133-134. *Pl. 6, fig. 8.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 774. *Fig. 976.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 774. *Fig. 993.*

See also *Bætis anomala*.

2580. *Cyrnus subatomarius.* (Trichoptera.)

Locality: Prussian amber. Horizon: Ligurian.

1851. Kolenati. Abhandl. böhm. gesellsch. wiss., (5), vi: 15 (undescri.).

2581. *Derobrochus abstractus.* (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 183.

2582. *Derobrochus æternus.* (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 184.

2583. *Derobrochus cænulentus.* (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 183.

2584. *Derobrochus commoratus.* (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 184.

2585. *Derobrochus crateræ.* (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 186. *Pl. 13, fig. 13; Pl. 15, fig. 4.*

2586. *Derobrochus frigescens*. (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 779. Fig. 986.
 1886. " Zittel-Barrois, Traité de paléont., ii: 779. Fig. 1003.
 1890. " Tert. ins. N. A., 185-186. Pl. 15, figs. 6, 16.

2587. *Derobrochus marcidus*. (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 185. Pl. 15, fig. 2.

2588. *Diplax*? ——— (Odonata.)

Compared with *D. minuscula* Ramb.

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. progr. geol. surv. Can., 1875-'76: 280.
 1877. " Ins. tert. Quesn., 15.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 310.

2589. *Dysagrion* ——— (3 sp.). (Odonata.)

Locality: Green River, Wyo. Horizon: Oligocene.

1882. Scudder. Proc. Bost. soc. nat. hist., xxi: 409.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 254.

See also the following species.

2590. *Dysagrion fredericii*. (Odonata.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 536-537, 775.
 1890. " Tert. ins. N. A., 130-131. Pl. 6, figs. 2, 5, 6, 9, 10, 14, 17.

See also *Dysagrion* ———.

2591. *Dysagrion lakesii*. (Odonata.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 132.

See also *Dysagrion* ———.

2592. *Dysagrion packardii*. (Odonata.)

Locality: Green River, Wyo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 776. Fig. 979.
 1886. " Zittel-Barrois, Traité de paléont., ii: 776. Fig. 996.
 1890. " Tert. ins. N. A., 132-133. Pl. 6, figs. 1, 3, 11.

See also *Dysagrion* ———.

2593. *Elipsocus abnormis*. (Psocina.)

Compared with *E. hyalinus*.

Locality: Prussian amber. Horizon: Ligurian.

1882. Hagen. Stett. ent. zeit., xliii: 287-289. Pl. 1, fig. 7.

See also *Psoeus abnormis*, *Cæcilinus abnormis*, *Philotarsus abnormis*.

2594. *Elipsocus kühli*. (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1883. Kolbe. Stett. ent. zeit., xliv: 188-190.

2595. Embia ———. (Embidina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2596. Embia antiqua. (Embidina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 370. *Pl. 40, fig. 28.*1854. Hagen. *Verhandl. zool.-bot. ver. Wien*, iv: 225.1856. Pictet. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 56-57. *Pl. 5, figs. 7 b-f.*1866. Hagen. *Psoc. Emb. synopsis*, 21.1866. " *Verhandl. zool.-bot. gesellsch. Wien*, xvi: 221.1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 773.See also *Oligotoma antiqua*.**2597. Empheria reticulata.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. *Verhandl. zool.-bot. ver. Wien*, iv: 225 (undescribed).1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 64. *Pl. 8, fig. 6.*1865. " *Ent. monthl. mag.*, ii: 171.1866. " *Psoc. Emb. synopsis*, 7.1866. " *Verhandl. zool.-bot. gesellsch. Wien*, xvi: 207.1882. " *Stett. ent. zeit.*, xliii: 217-221. *Pl. 1, fig. 8 (12 figs.).***2598. Empheria villosa.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1882. Hagen. *Stett. ent. zeit.*, xliii: 221-222. *Pl. 1, figs. 9¹⁻⁶.***Entermes** ———. See *Eutermes* ———.**2599. Ephemera** ———. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. *Handb. ent.*, i: 637.1836. " *Man. ent.*, 578.**2600. Ephemera (or Phryganea)** ———.

Locality: Oeningen, Baden. Horizon: Tortonian.

1820. Schlotheim. *Petrefactenk.*, 43.**2601. Ephemera** ———. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. *Hist. succ.*, 60-61 (inter *ephemeræ minores*). *Pl. 1, fig. 33.*1825. Guérin. *Dict. class. d'hist. nat.*, viii: 580 (ephémère).1829. Serres. *Géogn. terr. tert.*, 241.1830. Berendt. *Insekten im Bernstein*, 35.**2602. Ephemera** ———. (Ephemeridæ.)

Locality: Vegetable Creek, Australia. Horizon: ———

1883. Wilkinson. *Abstr. proc. Linn. soc. N. S. Wales*, Aug. 29, 1883: 4.

2603. Ephemera exsucca. (Ephemeridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 124. *Pl. 12, fig. 9.***2604. Ephemera immobilis** (larva). (Ephemeridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 121. *Pl. 12, fig. 5.***2605. Ephemera interempta** (nymph). (Ephemeridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 123-124.

2606. Ephemera macilentata (larva). (Ephemeridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 122. *Pl. 12, figs. 4, 10.***2607. Ephemera cœningensis.** (Ephemeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 370.

1872. " Monde prim. Suisse, 453.

1876. " Prim. world Switz., ii: 25.

1879. " Urwelt der Schweiz, 2^e Aufl., 395.**2608. Ephemera pumicosa** (larva, nymph). (Ephemeridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 122-123. *Pl. 12, figs. 7, 15, 16.***2609. Ephemera tabifica** (nymph). (Ephemeridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 120.

2610. Epipsocus ciliatus. (Psocina.)Compared with *E. delicatus*, *E. pictus*.

Locality: Prussian amber. Horizon: Ligurian.

1866. Hagen. Psoc. Emb. synopsis, 7.

1866. " Verhandl. zool.-bot. gesellsch. Wien, xvi: 207.

1862. " Stett. ent. zeit., xliii: 276-280. *Pl. 1, figs. 5¹⁻¹¹.*See also *Psocus ciliatus*.**2611. Epipsocus debilis.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1866. Hagen. Psoc. Emb. synopsis, 7.

1866. " Verhandl. zool.-bot. gesellsch. Wien, xvi: 207.

See also *Psocus debilis*, *Cæcilius debilis*.**2612. Epipsocus tener.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1866. Hagen. Psoc. Emb. synopsis, 7.

1866. " Verhandl. zool.-bot. gesellsch. Wien, xvi: 207.

See also *Psocus tener*, etc.

2613. Eutermes —— (2 sp.). (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Harv. univ. bull., ii: 219.

1881. " Bull. U. S. geol. surv. terr., vi: 294.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 285.

2614. Eutermes —— (worker). (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 116.

2615. Eutermes antiquus. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 222.

See also *Termes* (*Eutermes*) *antiquus*.**Eutermes croaticus.** See *Termes croaticus*.**Eutermes debilis.** See *Termes debilis*.**Eutermes diaphanus.** See *Termes* (*Eutermes*) *diaphanus*.**2616. Eutermes fossarum.** (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Proc. Amer. acad. arts sc., xix: 143-144.

1890. " Tert. ins. N. A., 115. Pl. 12, fig. 20.

2617. Eutermes meadii. (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Proc. Amer. acad. arts sc., xix: 144-145.

1890. " Tert. ins. N. A., 115-116. Pl. 12, figs. 12, 17.

Eutermes mæstus. See *Termes* (*Eutermes*) *mæstus*.**Eutermes obscurus.** See *Termes* (*Eutermes*) *obscurus*.**Eutermes pristinus.** See *Termes pristinus*.**Eutermes punctatus.** See *Termes* (*Eutermes*) *punctatus*.**Eutermes pusillus.** See *Termes pusillus*.**2618. Forbicina** —— (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2619. Forbicina —— (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 11.

2620. Forbicina acuminata. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 115-116.

Pl. 14, fig. 121.

See also *Machilis acuminatus*.**Friganea major.** See *Phryganea major*.

2621. Glessaria ———. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2622. Glessaria rostrata. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 117-118.
*Pl. 17, figs. 154A-F.*1853-'56. Bronn. Lethæa geogn. 3^e aufl., iii: 649-650. *Pl. 42^{la}, fig. 15.*

1856. Giebel. Insect. d. vorwelt., 328.

2623. Glossosoma ———. (Rhyacophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1864. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 230.

2624. Gœra proava. (Sericostomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Phryg. synopsis synom., 16.

1864. " Verhandl. zool.-bot. gesellsch. Wien, xix: 814.

See also *Trichostomum proavum*.**2625. Gomphoides occulta.** (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 81.

See also *Æschna* ——— Hagen.**2626. Gomphus** ———. (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2627. Gomphus ——— (larva). (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 80. *Pl. 8, fig. 12.***2628. Gomphus resinatus.** (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1848. Hagen. Stett. ent. zeit., ix: 8.

1850. " Rev. Odon. (Mém. soc. roy. se. Liège, vi): 358.

1852. Giebel. Deutschl. petref., 639.

See also *Libellula resinata*.**2629. Halesus retusus.** (Limnophilidæ.)Compared with *H. nigricornis*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229 (undescrib.) (*Hallesus*).1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 102 (*Hallesus*).

1864. " Phryg. synopsis synom., 20.

1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 818.

Hallesus retusus. See *Halesus retusus*.

2630. Hemerobites antiquus. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1813. Germar. Germ., Mag. entom., i: 16-17.
 1832. Burmeister. Handb. ent., i: 637 (Hemerobius) (is a Termes).
 1836. " Man. ent., 578-579 (is a Termes).
 1866. Hagen. Stett. ent. zeit., xxvii: 407.
 1888. Schlechtend. Zeitschr. gesellsch. naturw., lxi: 489-490.
 See also *Termes antiquus*, etc.

2631. Hemerobius ———. (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im Bernstein, 30, 35, 37.

2632. Hemerobius ———. (Hemerobina.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. fr., ii: 173-175. *Pl. 4, fig. 13.*

2633. Hemerobius ———. (Hemerobina.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. fr., ii: 186.

2634. Hemerobius ———. (Hemerobina.)Compared with *H. hirtus* or *H. pulchellus*.

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.
 1836. " Man. ent., 578.

2635. Hemerobius ———. (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

2636. Hemerobius (or Chrysopa) ——— (larva). (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 90.

2637. Hemerobius ———. (Hemerobina.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag. (n. s.), v: 89.

Hemerobius antiquus. See *Hemerobites antiquus*.**2638. Hemerobius mæstus.** (Hemerobina.)Compared with *H. pygmaeus*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 228 (undescrib.).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 88-89. *Pl. 8, fig. 18.*
 1866. " Stett. ent. zeit., xxvii: 415.

2639. Hemerobius resinatus. (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv : 228 (undescrip.).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 88. *Pl. 7, figs. 24b-d; pl. 8, fig. 17.*
 1866. " Stett. ent. zeit., xxvii: 419.
 See also *Mucropalpus elegans*.

2640. Heterophlebia jucunda. (Odonata.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Hagen. Palaeontogr., v: 121-123. *Pl. 24, figs. 1, 2.*

2641. Hodotermes ———. (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Harv. univ. bull., ii: 291.
 1881. " Bull. U. S. geol. surv. terr., vi: 294.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 285.
 See also *Hodotermes coloradensis*.

2642. Hodotermes coloradensis. (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Proc. Amer. acad. arts sc., xix: 142-143.
 1890. " Tert. ins. N. A., 113-114. *Pl. 12, fig. 6.*
 See also *Hodotermes* ———.

2643. Hodotermes haidingeri. (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1858. Hagen. Linn. entom., xii: 98-99.
 1858. " Catal. Neuropt. Brit. mus., 15.
 See also *Termes (Termopsis) haidingeri*, etc.

2644. Hodotermes heerianus. (Termitina.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1869. Assmann. Beitr. ins. vorwelt, 45-47. *Pl. 1, figs. 7, 7a.*
 1869. " Schles. zeitschr. f. ent., (2), i: 45-47. *Pl. 1, figs. 7, 7a.*
 See also *Termopsis heeriana*, *T. heerii*.

2645. Hodotermes insignis. (Termitina.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1858. Hagen. Linn. entom., xii: 100-101.
 1858. " Catal. Neuropt. Brit. mus., 15.
 See also *Termes (Termopsis) insignis*, etc.

2646. Hodotermes procerus. (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1858. Hagen. Linn. entom., xii: 97-98.
 1858. " Catal. Neuropt. Brit. mus., 15.
 See also *Termes pristinus*, etc.

2647. Hodotermes spectabilis. (Termitina.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1858. Hagen. Linn. entom., xii: 99-100.
 1858. " Catal. Neuropt. Brit. mus., 15.
 See also *Termes (Termopsis) spectabilis*, etc.

2657. *Hydropsyche submaculata.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1851. Kolenati. Abhandl. böhm. gesellsch. wiss., (5), vi: 15 (undeser.).

2658. *Hydropsyche subvariabilis.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1851. Kolenati. Abhandl. böhm. gesellsch. wiss., (5), vi: 15 (undeser.).

2659. *Hydropsyche xanthocoma.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1864. Kollar. Hagen, Phryg. synopsis synom., 26.

1864. " Hagen, Verhandl. zool.-bot. gesellsch. Wien, xiv: 824.

See also *Phryganeolitha vetusta*, etc.**2660. *Hydroptila* ———. (Hydroptilidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229.

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 108 (undeser.).

2661. *Hydrorchestia succinica.* (Hydroptilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229 (undeser.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 107-108.

See also *Agraylea succinica*.**2662. *Ictinus fur.* (Odonata.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 258-260. Pl. 43, fig. 9.

2663. *Indusia calculosa.* (Limnophilidæ.)

Locality: Horse Creek, Wyo. Horizon: Upper Green River Group.

1878. Seudder. Bull. U. S. geol. surv. terr., iv: 542-543.

1879. " Ann. rep. U. S. geol. surv. terr., xi: 528, 638-639.

1885. " Zittel, Handb. palaeont., i, th. ii: 778. Fig. 985.

1886. " Zittel-Barrois, Traité de paléont., ii: 778. Fig. 1002.

1890. " Tert. ins. N. A., 194-195. Pl. 4, fig. 4.

2664. *Indusia tubulata.* (Limnophilidæ?).

Locality: Auvergne, France. Horizon: Aquitanian.

1810. Brongniart. Ann. mus. hist. nat., xv: 392-393.

1822. Defrance. Dict. sc. nat., xxiii: 411-412.

1833. Croizet. Bull. soc. géol. Fr., iv: 25.

1833. St. Hilaire. Rev. encycl., lix: 77-78.

1838. Bronn. Lethæa geogn., ii: 1160-1161. Pl. 36, fig. 15.

1842. Viquesnel. Bull. soc. géol. Fr., xiv: 149.

1843. Burmeister. Geschichte d. schöpfung, 446.

1848. Bronn. Index palaeont., nomencl., 609.

1849. " Index palaeont., enumerat., 612.

1853-56. Bronn. Lethæa geogn., 3^e anfl., iii: 645. Pl. 36, fig. 15.

1856. Giebel. Insect. d. vorwelt, 269.

See also *Phryganea corentiana*, *P. gerandiana*, *P. gigantea*, *Ind. tubulosa*.

2665. *Indusia tubulosa*. (Limnophilidae ?.)

Locality: Auvergne, France. Horizon: Aquitanian.

- Au XIII. Bosc. Journ. d. mines, xvii: 397-400. *Pl.* 7, *figs.* C-E.
 1825. Guérin. Dict. class. d'hist. nat., viii: 581.
 1827. Scrope. Geol. centr. France (without name).
 1829. Serres. Géogn. terr. tert., 208.
 1840. Meyer. Ersch u. Gruber, Encycl. wiss., sect. 2, th. xviii: 136 (no name).
 1846. Pictet. Traité élém. paléont., iv: 108 (no name).
 1854. " Traité de paléont., 2^e éd., ii: 375-376 (no name).
 1858. Scrope. Geol. centr. France, 2^d éd., 10-13 (without name).
 1864. Hagen. Phryg. synopsis synom., 28.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 826.
 1865. Lyell. Elem. geol., 6th ed., 223-225 (no name). *Fig.* 168.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 778.
 1886. " Zittel-Barrois, Traité de paléont., ii: 778.

See also *Indusia tubulata*, etc.**2666. *Inocellia* ——— (4 sp.).** (*Sialina*.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Proc. Bost. soc. nat. hist., xxi: 407.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 283.

See also the following species.

***Inocellia erigena*.** See *Raphidia (Inocellia) erigena*.**2667. *Inocellia eventa*.** (*Sialina*.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 160-161.

See also *Inocellia* ———.**2668. *Inocellia somnolenta*.** (*Sialina*.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 157-158. *Pl.* 14, *fig.* 12.

See also *Inocellia* ———.**2669. *Inocellia tumulata*.** (*Sialina*.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 158-159. *Pl.* 14, *fig.* 15.

See also *Inocellia* ———.**2670. *Inocellia veterana*.** (*Sialina*.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 156-157. *Pl.* 14, *fig.* 1.

See also *Inocellia* ———.***Kalotermes* ———.** See *Calotermes* ———.**2671. *Lampropholis* ——— (2 sp.).** (*Thysanura*.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 11.

2672. *Lampropholis argentata*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Ber., Bernst. befindl. organ. reste vorw., i, th. ii: 117.
See also *Lepisma mengei*.

2673. *Lepidion* ———. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 11.

2674. *Lepidion pisciculus*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Ber., Bernst. befindl. organ. reste vorw., i, th. ii: 117.
See also *Lepisma pisciculus*.

2675. *Lepidotrix* ——— (2 sp.). (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 11.

2676. *Lepidotrix piliferum*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Ber., Bernst. befindl. organ. reste vorw., i, th. ii: 117.
See also *Lepisma pilifera*.

2677. *Lepisma* ———. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2678. *Lepisma* ———. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlotheim. Petrefactenk., 43.

2679. *Lepisma* ———. (Thysanura.)

Locality: Florissant, Colo. Horizon: Oligocene.

1891. Scudder. Bull. U. S. geol. surv. terr., vi: 294.
1883. " Ann. rep. U. S. geol. surv. terr., xii: 284.
See also *Lepisma platymera*.

2680. *Lepisma argentata*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 117. *Pl.*
14, *fig.* 123.
1856. Giebel. Insect. d. vorwelt, 327.

2681. *Lepisma dubia*. (Thysanura.)Compared with *L. saccharina*.

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 116. *Pl.*
14, *fig.* 122.
1856. Giebel. Insect. d. vorwelt, 327.

2682. *Lepisma mengei*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 327.

See also *Lampropholis argentata*.**2683. *Lepisma pilifera*.** (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 327-328.

See also *Lepidotrix piliferum*.**2684. *Lepisma pisciculus*.** (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 327.

See also *Lepidion pisciculus*.**2685. *Lepisma platymera*.** (Thysanura.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 102-103. Pl. 12, fig. 18.

See also *Lepisma* — Scudder.**2686. *Leptobrochus luteus*.** (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 187-188. Pl. 15, figs. 1, 3.

2687. *Leptophlebia prisca*. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1871. Eaton. Monogr. Ephemeridæ, 87.

See also *Potamanthus priscus*.**2688. *Lestes coloratus*.** (Odonata.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Charpentier. Neues jahrb. mineral., 1841: 332-337 (no name). Pl. 1.

1848. Hagen. Stett. ent. zeit., ix: 7-8.

1850. " Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 357.

1852. Giebel. Deutschl. petref., 638.

See also *Agrion coloratum*.**2689. *Lestes iris*.** (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1890. Scudder. Tert. ins. N. A., 127

See also *Agrion iris*.**2690. *Lestes leucosia*.** (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 357.

1852. Giebel. Deutschl. petref., 638.

1890. Scudder. Tert. ins. N. A., 127.

See also *Agrion leucosia*, etc.

2691. *Lestes ligea*. (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 357.

1852. Giebel. Deutsch. petref., 633.

1890. Scudder. Tert. ins. N. A., 126-127.

See also *Agrion ligea*.**2692. *Lestes peisinoe*. (Odonata.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 357.

1852. Giebel. Deutschl. petref., 638.

1890. Scudder. Tert. ins. N. A., 127.

See also *Agrion peisinoe*.**2693. *Lestes vicina*. (Odonata.)**

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Hagen. Palaeontogr., v: 123-124. *Pl.* 24, *figs.* 3, 4.**2694. *Leuctra* ———. (Perlina.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2695. *Leuctra antiqua*. (Perlina.)Compared with *L. cylindrica*.

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 251-253. *Pl.* 44, *figs.* 3, 4.**2696. *Leuctra fusca*. (Perlina.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. * Hagen, Verhandl. zool.-bot. ver. Wien, iv: 226 (undescri.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 70. *Pl.* 6, *figs.* 10b-d.See also *Nemura (Leuctra) fusca*.**2697. *Leuctra gracilis*. (Perlina.)**Compared with *L. cylindrica*, etc.

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 226 (undescri.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 69. *Pl.* 6, *figs.* 9b-f; *pl.* 8, *fig.* 2.See also *Nemura (Leuctra) gracilis*.**2698. *Leuctra linearis*. (Perlina.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 226 (undescri.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 69-70. *Pl.* 8, *fig.* 3.**2699. *Leuctra minuscula*. (Perlina.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 226 (undescri.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 71.

Libella ———. See *Libellula* ——— Scheuchzer.

2700. Libellula ———. (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im bernstein, 35.

2701. Libellula ——— (larva). (Odonata.)

Localities: Porcarecca, Pane e vino, Limone, etc., Italy. Horizon: Tortonian.

1875. Capellini. Rend. sess. accad. sc. ist. Bologna. 1874-75; 24, 133.

1880. " Atti accad. Inc., (3), mem. sc. fis., v: 379, 383-385.

2702. Libellula ———. (Odonata.)

Locality: Gabbro, Italy. Horizon: Tripoli.

1878. Capellini. Atti accad. Inc., (3), mem. sc. fis., ii: 285.

2703. Libellula ——— (larva). (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1723. Schenckher. Herb. diluv., ed. nov., 21 (Libella). Pl. 5, fig. 1.

See also *Libellula eurynome*, ——— *eurynome* (Odonata-Libellulina).**2704. Libellula** ———. (Odonata.)

Locality: Monte Bolea, Italy. Horizon: Ligurian.

1723. Schenckher. Herb. diluv., ed. nov., 21 (Libella). Pl. 5, fig. 2.

2705. Libellula ———. (Odonata.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 146. Pl. 6, figs. 4, 16.

See also ——— (Odonata-Libellulina).

2706. Libellula ——— (Odonata.)Compared with *Æsch. a grandis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 228.

2707. Libellula ——— (larva). (Odonata.)Compared with *L. eurynome*, Oeningen.

Locality: Montescano presso Stradella, Italy. Horizon: Marne gessifere.

1882. Sordelli. Alc. ins. foss. Lomb., 3-4.

1882. " Bull. soc. ent. ital., xiv: 226-227.

2708. Libellula ——— (larva). (Odonata.)Compared with *L. doris*, Oeningen.

Locality: Montescano presso Stradella, Italy. Horizon: Marne gessifere.

1882. Sordelli. Alc. inc. foss. Lomb., 4.

1882. " Bull. soc. ent. ital., xiv: 227.

2709. Libellula ——— (Odonata.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. Journ. geol. soc. Lond., xxxv: 344.

1879. " Geol. mag. (n. s.), v: 89.

2710. *Libellula aglaia*. (Odonata.)

Locality: Aix, France. Horizon: Ligurian.

1861. Heer. Saporta, Heer, Rech. climat pays tert., 153 (undeser.).

2711. *Libellula calypso* (pupa). (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 87. *Pl. 5, fig. 9; pl. 6, fig. 7.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 364.
 1852. Giebel. Deutschl. petref., 639.
 1854. Pietet. Traité de paléont., 2^e éd., ii: 374. *Pl. 40, fig. 19.*
 1856. Giebel. Insect. d. vorwelt, 284.
 1865. Heer. Urwelt der Schweiz, 368. *Fig. 232 on p. 366.*
 1872. " Monde prim. Suisse, 452. *Fig. 232 on p. 449.*
 1876. " Prim. world Switz., ii: 23. *Fig. 232 on p. 21.*
 1879. " Urwelt der Schweiz, 2^e anfl., 394. *Fig. 273 on p. 392.*

2712. *Libellula cassandra* (pupa). (Odonata.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 264-267. *Pl. 45, figs. 1-4.*
 1870. L. Heyden. Foss. Dipt. Rott, 30.
 1870. " Palaeontogr., xvii: 266.
 See also ——— *cassandra* (Odonata-Libellulina).

2713. *Libellula cellulosa*. (Odonata.)Compared with *L. eponina*.

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 253-258. *Pl. 43, figs. 1-8.*
 1870. L. Heyden. Foss. Dipt. Rot', 29.
 1870. " Palaeontogr., xvii: 265.
 See also *Celithemis cellulosa*, *Libellula ceres*, etc.

2714. *Libellula ceres* (pupa). (Odonata.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1863. Hagen. Palaeontogr., x: 260-264. *Pl. 44, figs. 9-11; pl. 45, figs. 5-12.*
 1870. L. Heyden. Foss. Dipt. Rott, 30.
 1870. " Palaeontogr., xvii: 266.

See also ——— *ceres* (Odonata-Libellulina), *Libellula cellulosa*, *Celithemis cellulosa*.

Libellula dorii. See *Libellula doris*.**2715. *Libellula doris* (larva, pupa). (Odonata.)**Compared with *L. depressa* L.

- Localities: Limone, near LAVORNO, Sogliano, Peticara, Monte Donato nel Bolognese, Ancona, Guarène, Sinigallia, Italy; Girgenti, Sicily; Grasseth, Bohemia; Oeningen, Baden. Horizon: Tortonian, Helvetian.
1849. Heer. Insektenf. tertiärg. Oeningen, ii: 81-83. *Pl. 5, fig. 5; pl. 6, fig. 4.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 363-364.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 282-283.
 1856. Massalongo. Stud. paleont., 23. *Pl. 1, figs. 12, 13.*
 1857. Jökely. Jahrb. geol. reichsanst., viii: 502 (*dorii*).

1859. Scarabelli. Massal.-Scarab., Stud. flora foss. Senig., 25.
 1865. Sismonda. Mem. accad. sc. Torino, (2), xxii: 470. *Pl. 17, fig. 6.*
 1865. Heer. Urwelt der Schweiz, 368. *Fig. 231 on p. 366.*
 1872. " Monde prim. Suisse, 452. *Fig. 231 on p. 449.*
 1873. Capellini. Mem. accad. sc. ist. Bologna, (3), iv: 539, 557.
 1875. Heyden. Stoechr, Bull. com. geol. ital., 1875: 286.
 1876. Heer. Prim. world Switz., ii: 23. *Fig. 231 on p. 21.*
 1879. " Urwelt der Schweiz, 2^e aufl., 391. *Fig. 272 on p. 392.*
 1880. Bosniaski. Atti soc. tosc. sc. nat., 1880: 93.
 1882. Sordelli. Alc. ins. foss. Lomb., 5, note 3.
 1882. " Bull. soc. ent. ital., xiv: 228, note 3.

See also ——— doris (Odonata-Libellulina).

2716. *Libellula eurynome* (larva, pupa). (Odonata.)

Compared with *L. depressa* L.

Localities: Sinigallia, Italy; Girgenti, Sicily; Oeningen, Baden. Horizon: Tortonian, Helvetian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 85-86. *Pl. 5, fig. 7.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 364.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 283.
 1856. Massalongo. Stud. paleont., 23. *Pl. 1, figs. 8-11.*
 1859. Scarabelli. Massal.-Scarab., Stud. flora foss. Senig., 25.
 1865. Heer. Urwelt der Schweiz, 368.
 1872. " Monde prim. Suisse, 452.
 1875. Heyden. Stoechr, Bull. com. geol. ital., 1875: 286.
 1876. Heer. Prim. world Switz., ii: 23.
 1879. " Urwelt der Schweiz, 2^e aufl., 391.

See also ——— eurynome (Odonata-Libellulina), *Libellula* ——— Scheuchzer.

2717. *Libellula kieseli*. (Odonata.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1869. Assmann. Beitr. ins. vorwelt, 52-56. *Pl. 1, figs. 10, 10a.*
 1869. " Schles. zeitschr. f. ent., (2), i: 52-56. *Pl. 1, figs. 10, 10a.*

2718. *Libellula melobasis* (pupa). (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 86-87. *Pl. 5, fig. 8; pl. 6, fig. 6.*
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 364.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 283.

See also ——— melobasis (Odonata-Libellulina).

2719. *Libellula minuscula*. (Odonata.)

Locality: Coirent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. geol., ii, art. 3: 88. *Pl. 2, fig. 6.*

2720. *Libellula oeningensis* (larva). (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian

1825. König. Icon. foss. sectiles, 2. *Pl. 2, fig. 17.*

2721. *Libellula oeningensis*. (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1852. Quenstedt. Handb. petref., 317. *Pl. 24, fig. 8.*

2722. *Libellula pannewitziana*. (Odonata.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1855. Göppert. Tert. flora Schossnitz, vii. *Pl.* 26, *fig.* 55.
 1869. Assmann. Beitr. ins. vorwelt (Schles. zeitschr. f. ent., (2), i): 56-57. *Pl.* 1, *fig.* 11.

2723. *Libellula perse* (pupa). (Odonata.)

Localities: Oeningen?, Baden; Aix, France. Horizon: Tortonian, ? Ligurian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 80-81. *Pl.* 5, *fig.* 4; *pl.* 6, *fig.* 3.
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 363.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 282.
 1856. Heer. Viert. naturf. gesellsch. Zürich, i: 28.
 See also ——— *perse* (Odonata-Libellulina).

2724. *Libellula platyptera*. (Odonata.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1843. Charpentier. Verhandl. leop.-carol. akad. naturf., xx: 408 (platyptera). *Pl.* 22, *fig.* 3.
 1848. Hagen. Stett. ent. zeit., ix: 12.
 See also *Cordulia platyptera*.

Libellula platyptera. See *Libellula platyptera*.**2725. *Libellula resinata*. (Odonata.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 284 (*resinatus*).
 See also *Gomphus resinatus*.

2726. *Libellula sieboldiana*. (Odonata.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1855. Göppert. Tert. flora Schossnitz, vii. *Pl.* 26, *fig.* 54.
 1869. Assmann. Beitr. ins. vorwelt (Schles. zeitschr. f. ent., (2), i): 48-52. *Pl.* 1, *figs.* 9, 9a.

2727. *Libellula thetis* (pupa). (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 83-85. *Pl.* 5, *fig.* 6; *pl.* 6, *fig.* 5.
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 364.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 283.
 See also ——— *thetis* (Odonata-Libellulina).

2728. *Libellula thoe* (pupa). (Odonata.)

Locality: Oeningen, Baden. Horizon: Tortonian.

- [1755. Knorr. Samml. v. merkwürd., 1 (unnamed). *Pl.* 33, *figs.* 3-4.]
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 79-80. *Pl.* 6, *fig.* 2.
 1850. Hagen. Rev. Odon. (Mém. soc. roy. sc. Liège, vi): 363.
 1852. Giebel. Deutschl. petref., 639.
 1856. " Insect. d. vorwelt, 282.
 See also ——— *thoe* (Odonata-Libellulina).

Limnophilus dubius. See *Limnophilus dubius*.*Limnophilus piceus*. See *Limnophilus piceus*.

2729. *Limnophilus* ———. (*Limnophilidæ.*)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2730. *Limnophilus* ——— (2 sp.). (*Limnophilidæ.*)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229 (undeser.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 101 (undeser.).

See also *Agrypnia* ———.**2731. *Limnophilus dubius.*** (*Limnophilidæ.*)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 376 (undeser.) (*Limnophilus*).1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 100-101 (*Limnophilus*).See also *Phryganea dubia*.**2732. *Limnophilus piceus.*** (*Limnophilidæ.*)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 376 (undeser.) (*Limnophilus*).1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 99 (*Limnophilus*).See also *Phryganea picea*, *Neuronia picea*.**2733. *Limnophilus soporatus.*** (*Limnophilidæ.*)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 193. Pl. 15, fig. 5.

2734. *Limnopsyche dispersa.* (*Phryganidæ.*)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 199-200. Pl. 13, fig. 2.

2735. *Lithagrion* ———. (*Odonata.*)

Locality: Florissant, Colo. Horizon: Oligocene.

881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.

1882. " Proc. Bost. soc. nat. hist., xxi: 409 (2 sp.).

1883. " Ann. rep. U. S. geol. surv. terr., xii: 284.

See also *Lithagrion hyalinum*, *L. umbratum*.**2736. *Lithagrion hyalinum.*** (*Odonata.*)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 135-136. Pl. 13, fig. 4.

See also *Lithagrion* ———.**2737. *Lithagrion umbratum.*** (*Odonata.*)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 136-137. Pl. 13, figs. 12, 14.

See also *Lithagrion* ———.

2738. *Litobrochus externatus*. (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 186-187. Pl. 15, fig. 10.

2739. *Machilis* ———. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

2740. *Machilis (Forbicina) acuminatus*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 326.

See also *Forbicina acuminata*.**2741. *Machilis (Petrobius) albomaculatus*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 326.

See also *Petrobius albomaculatus*.**2742. *Machilis (Petrobius) angueus*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 326.

See also *Petrobius angueus*.**2743. *Machilis (Petrobius) coruscus*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 324-325.

See also *Petrobius imbricatus*, etc.**2744. *Machilis (Petrobius) electus*. (Thysanura.)**

Locality: Prussian amber. Horizon: Oligocene.

1856. Giebel. Insect. d. vorwelt, 325.

See also *Petrobius electus*, etc.**2745. *Machilis (Petrobius) imbricatus*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 325.

See also *Petrobius imbricatus*, etc.**2746. *Machilis (Petrobius) macrura*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 326.

See also *Petrobius macrura*.**2747. *Machilis polypoda*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 578.

2748. *Machilis (Petrobius) saliens*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 326.

See also *Petrobius saliens*.

2749. Machilis (Petrobius) seticornis. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 325-326.

See also *Petrobius seticornis*.**Macropalpus elegans.** See *Mucropalpus elegans*.**2750. Maresa plebeja.** (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 298.

See also *Termes antiqua*, etc.**2751. Megasemum ronzonense.** (Odonata.)

Locality: Le Puy, France. Horizon: ———.

1854. Aymard. Congr. scient. Fr., sess. xxii: 42 (undeser.).

2752. Mesobrochus imbecillus. (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 189. Pl. 15, fig. 13.

2753. Mesobrochus lethæus. (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 188. Pl. 15, fig. 11.

2754. Mormonia ———. (Sericostomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2755. Mormonia ———. (Sericostomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229.

2756. Mormonia tæniata. (Sericostomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undeser.).

1854. " Traité de paléont., 2^e éd., ii: 376 (undeser.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 103-105.

Pl. 7, figs. 5b-d.

1864. Hagen. Phryg. synopsis synom., 50.

1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 848.

2757. Mucropalpus elegans. (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 378 (undeser.) (*Macropalpus*).

1856. Berendt. Bernst. befindl. organ. reste vorw., ii, th. i: 88.

See also *Hemerobius resinatus*.**2758. Myrmecoleon** ———. (Myrmeleontidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2759. Myrmecoleon ———. (Myrmeleontidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 578.

2760. Myrmecoleon reticulatum. (Myrmeleontidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1856. Giebel. Insect. d. vorwelt, 256.

See also *Myrmeleon reticulatum*.**2761. Myrmeleon** ———. (Myrmeleontidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im bernstein, 35.

2762. Myrmeleon ——— (larva). (Myrmeleontidæ.)

Locality: Seeberg, near Gotha, Germany. Horizon: Flötzmuschelkalkstein.

1823. Schlotheim. Nachtr. z. petrefactenk., ii: 60-61, 85. Pl. 22, fig. 10.

Myrmeleon brevipenne. See III, ORTHOPTERA. Idem.**2763. Myrmeleon reticulatum.** (Myrmeleontidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1843. Charpentier. Verhandl. leop.-carol. akad. naturf., xx: 407-408. Pl. 22, fig. 2.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 92.

1852. Giebel. Deutschl. petref., 640.

1866. Hagen. Stett. ent. zeit., xxvii: 447 (a *Myrmeleon*?).See also *Myrmecoleon reticulatum*.**2764. Mystacides** ———. (Leptoceridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

2765. Mystacides ———. (Leptoceridæ.)Compared with *M. ferruginea*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 121.

2766. Mystacides ———. (Leptoceridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 121.

2767. Necropsocus ———.

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Ann. rep. U. S. geol. surv. terr., xii: 284.

See also III, HEMIPTERA, *Necropsylla rigida*.**Nemoura** (several sp.). See *Nemura*, the same species.**2768. Nemura** ———. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57 (*Nemoura*).

2769. *Nemura* ———. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 73 (*Nemoura*).

2770. *Nemura affinis*. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Berendt. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 226 (undeser.) (*Nemoura*).
1856. " Bernst. befindl. organ. reste vorw., ii, th. i: 72. *Pl.* 6, *figs.* 12*b-d*.

2771. *Nemura (Tæniopteryx) ciliata*. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 375 (undeser.) (*Nemoura*).
- See also *Tæniopteryx ciliata*.

2772. *Nemura (Leuctra) fusca*. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 375 (undeser.) (*Nemoura*).
- See also *Leuctra fusca*.

2773. *Nemura (Leuctra) gracilis*. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 375 (undeser.) (*Nemoura*).
- See also *Leuctra gracilis*.

2774. *Nemura lata*. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 226 (undeser.) (*Nemoura*).
1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 72.

2775. *Nemura ocularis*. (Perlina.)Compared with *N. variegata*, *N. meyeri*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 226 (undeser.) (*Nemoura*).
1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 71-72. *Pl.* 6, *figs.* 11 *b-f*.

2776. *Nemura puncticollis*. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 226 (undeser.) (*Nemoura*).
1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 73.

2777. *Neuronia evanescens*. (Phryganidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 196-197. *Pl.* 13, *fig.* 3.

2778. *Neuronia picea*. (Phryganidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1864. Hagen. *Phryg. synopsis synom.*, 54.
1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 852.
- See also *Phryganica picea*, *Limnophilus piceus*,

2779. Neuropterites deperditus.

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsab. acad. wiss. Wien, lxxvi: 82-83. *Pl. 2, fig. 4.*
 1877. " Fauna eger. tertiärb., 12-13. *Pl. 2, fig. 4.*

2780. Nothochrysa ———. (Hemerobina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.
 See also Palæochrysa ———, Tribochrysa ———.

2781. Nymphes mengeanus. (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 228 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 85-86. *Pl. 8, fig. 15.*
 1866. " Stett. ent. zeit., xxvii: 453 (an hujus generis?).

2782. Nymphon (vic.) ———. (Hemerobina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.
 See also Palæochrysa ———, Tribochrysa ———.

2783. Odontocerus ——— (2 sp.). (Leptoceridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 121.

Æschna ———. See *Æschna* ——— Curtis.

2784. Oligotoma antiqua. (Embidina.)

Locality: Prussian amber. Horizon: Ligurian.

1885. Hagen. Monogr. Emb., (2), 6-7.
 1885. " Can. ent., xvii: 176-177.
 1886. Scudder. Bull. U. S. geol. surv., No. 31: 53.
 1886. " Zittel-Barrois, Traité de paléont., ii: 773.
 See also *Embia antiqua*.

2785. Osmylus ———. (Hemerobina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Proc. Bost. soc. nat. hist., xxi: 408.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 283.
 See also *Osmylus requietus*.

2786. Osmylus pictus. (Hemerobina.)

Compared with *O. chrysops*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 228 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 86-87. *Pl. 8, fig. 16.*
 1866. " Stett. ent. zeit., xxvii: 455.

2787. *Osmylus requietus*. (Hemerobiua.)Compared with *O. pictus*, Amber.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 162-163. *Pl.* 14, *figs.* 3, 8.See also *Osmylus* ———.**2788. *Paidium* ———. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2789. *Paidium crassicorne*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 122. *Pl.* 17, *fig.* 155.

1856. Giebel. Insect. d. vorwelt, 331.

Paidium piriforme*. See *Paidium pyriforme*.*2790. *Paidium pyriforme*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872 (*piriforme*).1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 123. *Pl.* 17, *fig.* 156.

1856. Giebel. Insect. d. vorwelt, 331.

2791. *Paladicella eruptionis*. (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 189-190. *Pl.* 15, *fig.* 14.**2792. *Palæochrysa* ——— (Hemerobina.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Proc. Bost. soc. nat. hist., xxi: 408.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 283.

See also *Chrysopa* (*vic.*) ———, *Nothochrysa* ———, *Nymphon* (*vic.*) ———, *Palæochrysa stricta*.**2793. *Palæochrysa stricta*. (Hemerobina.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 166-168. *Pl.* 14, *figs.* 13, 14.See also *Palæochrysa* ———.**2794. *Palæopsocus tener*. (Psocina.)**

Locality: Prussian amber. Horizon: Ligurian.

1883. Kolbe. Stett. ent. zeit., xlv: 190.

See also *Psocus tener*, etc.**2795. *Palingenia* ———. (Ephemeroidea.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2796. Palingenia gigas. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 227 (undescr.).

2797. Palingenia macrops. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 227 (undescr.).

1854. " Traité de paléont., 2^e éd., ii: 371 (undescr.).1856. Pictet-Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 74-75. *Pl.* 6, *fig.* 2b; *pl.* 8, *fig.* 5.**2798. Panorpa** ——. (Panorpidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im bernstein, 35.

2799. Panorpa brevicauda. (Panorpidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229 (undescr.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 91. *Pl.* 8, *fig.* 21.**2800. Panorpa rigida.** (Panorpidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 176.

2801. Paropsocus disjunctus. (Psocina.)

Locality: White River, Utah. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 118. *Pl.* 5, *fig.* 51.**2802. Parotermes** —— (3 sp.). (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Harv. univ. bull., ii: 291.

1881. " Bull. U. S. geol. surv. terr., vi: 294.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 285.

See also the following species.

2803. Parotermes fodinæ. (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Proc. Amer. acad. arts sc., xix: 141.

1890. " Tert. ins. N. A., 112-113. *Pl.* 12, *figs.* 3, 22.See also *Parotermes* ——.**2804. Parotermes hagenii.** (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Proc. Amer. acad. arts sc., xix: 139-140.

1890. " Tert. ins. N. A., 110-112. *Pl.* 12, *fig.* 2.See also *Parotermes* ——.

2805. Parotermes insignis. (Termitina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Proc. Amer. acad. arts sc., xix: 137-139.
 1885. " Zittel, Handb. palaeont., i, th. ii: 773. Fig. 974.
 1886. " Zittel-Barrois, Traité de paléont., ii: 773. Fig. 991.
 1890. " Tert. ins. N. A., 108-110. Pl. 12, figs. 13, 14.

See also *Parotermes* ———.**2806. Perla** ———. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2807. Perla ———. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. Hist. succ., 30-31 (unnamed). Pl. 1, figs. 5, 5a, 6.
 1825. Guérin. Dict. class. d'hist. nat., viii: 580 (Perle).
 1829. Serres. Géogn. terr. tert., 242.

2808. Perla ———. (Perlina.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag. (n. s.), v: 89.

2809. Perla prisca. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pietet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 226 (undescri.).
 1854. " Traité de paléont., 2^e éd., ii: 375 (undescri.).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 65-66. Pl. 6, figs. 7b-d.

2810. Perla resinata. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 226 (undescri.).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 66-67. Pl. 8, fig. 1.

2811. Perla succinica. (Perlina.)Compared with *P. annulicanda*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 226 (undescri.).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 67.

2812. Petalura acutipennis. (Odonata.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian

1859. Hagen. Palaeontogr., viii: 22-26. Pl. 3, figs. 1-4.

2813. Petalura ovatipennis. (Odonata.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1861. Hagen. Hassencamp, Würzb. naturw. zeitschr., i: 79 (undescri.).

2814. Petrobius ———. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2815. Petrobius — (8 sp.). (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Dauzig, 1856: 11.

2816. Petrobius albomaculatus. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 115.

See also *Machilis albomaculatus*.**Petrobius anguens.** See *Petrobius angueus*.**2817. Petrobius angueus.** (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral, 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 114-115
(*anguens* on plate). *Pl.* 14, *fig.* 120.See also *Machilis anguens*.**2818. Petrobius confinis.** (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 115. *Pl.*
17, *fig.* 153.See also *Petrobius electus*, etc.**2819. Petrobius coruscus.** (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 111-112.
Pl. 14, *fig.* 116.See also *Petrobius imbricatus*, etc.**2820. Petrobius electus.** (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 113. *Pl.*
14, *fig.* 119.See also *Machilis* (*Petrobius*) *electus*, *P. confinis*.**2821. Petrobius imbricatus.** (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 112. *Pl.*
14, *fig.* 117.See also *Machilis* (*Petrobius*) *imbricatus*, *P. coruscus*, *Machilis* (*Petrobius*) *coruscus*, *P. longipalpus*.**2822. Petrobius longipalpus.** (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 113. *Pl.*
14, *fig.* 118.See also *Petrobius imbricatus*, etc.

2823. *Petrobius macrura.* (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 115.
See also Machilis (*Petrobius*) *macrura*.

2824. *Petrobius saliens.* (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Koch-Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 115.
See also Machilis (*Petrobius*) *saliens*.

2825. *Petrobius seticornis.* (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. mineral., 1845: 872.
1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 114. *Pl.*
15, fig. 124.
1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 772. Fig. 971.
1886. " Zittel-Barrois, Traité de paléont., ii: 772. Fig. 988.
See also Machilis (*Petrobius*) *seticornis*.

2826. *Philopotamus* — (2 sp.). (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 119.

2827. *Philotarsus abnormis.* (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1883. Kolbe. Stett. ent. zeit., xlv: 190.
See also *Elipsocus abnormis*, etc.

2828. *Philotarsus antiquus.* (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1883. Kolbe. Stett. ent. zeit., xlv: 187-188.

2829. *Phryganea* — (cases). (Trichoptera.)

Locality: Jutland, Denmark. Horizon: Pliocene f.

1836. Beck. Proc. geol. soc. Lond., ii: 219.
1836. " Lond. Edinb. phil. mag., (3), viii: 555.

2830. *Phryganea* —. (Trichoptera.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2831. *Phryganea* —. (Trichoptera.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.
1836. " Man. ent., 578.

2832. *Phryganea* —. (Trichoptera.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92

2833. Phryganea ———. (Trichoptera.)Compared with *P. grandis*.

Locality: Mombach, Rhenish Prussia. Horizon: Middle Tertiary.

1845. Hoeninghaus. *Micheln*, Ann. soc. ent. Fr., (2), iii, bull. ent., 31.See also *P. mombachiana*.**2834 Phryganea** ——— (cases). (Trichoptera.)

Locality: Lewes levels, England. Horizon: Alluvium.

1829. Mantell. *Trans. geol. soc. Lond.*, (2), iii: 201.1838. Bell. *Entom.*, xxi: 2.**2835. Phryganea (or Ephemera)** ———.

Locality: Oeningen, Baden. Horizon: Tortonian.

1820. Schlotheim. *Petrefactenk.*, 43.**2836. Phryganea** ———. (Trichoptera.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. *Hist. succ.*, 85. *Pl. 2, figs.* 21, 23.1852. Guérin. *Dict. class. d'hist. nat.*, viii: 580 (Friganæ).1829. Serres. *Géogn. terr. tert.*, 242.1830. Berendt. *Insekten im Bernstein*, 35.**2837. Phryganea** ———. (Trichoptera.)

Locality: Garnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. *Quart. journ. geol. soc. Lond.*, xxxv: 344.1879. " *Geol. mag. (n. s.)*, v: 89.**2838. Phryganea antiqua**. (Phryganidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. *Insektenf. tertiärg. Oeningen*, ii: 89-90. *Pl. 5, fig.* 10.1852. Giebel. *Deutschl. petref.*, 639.1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 376 (undescrib.).1856. " *Berendt, Bernst. befindl. organ. reste vorw.*, ii, th. i: 97-98 (= *P. fossilis* Pict. nec *antiqua* Heer).1856. Giebel. *Insect. d. vorwelt*, 268.1864. Hagen. *Phryg. synopsis synom.*, 59.1864. " *Verhandl. zool.-bot. gesellschaft. Wien*, xiv: 857.See also *Phryganea fossilis*.**2839. Phryganea aquensis**. (Phryganidæ.)

Locality: Aix, France. Horizon: Ligurian.

1883. Heer. *Flora foss. grönl.*, ii: 148. *Pl. 109, fig.* 15.**2840. Phryganea blumii** (larval cases). (Phryganidæ.)

Locality: Leistadt, near Dürkheim, Bavaria. Horizon: ———.

1844. Hepp. *Jahresb. Pollich.*, ii: 19-23.**2841. Phryganea corentiana** (cases). (Phryganidæ.)

Locality: Gergovia, France. Horizon: Aquitanian.

1870. Onstalet. *Am. sc. géol.*, ii, art. 3: 101.See also *Indusia tabulata*, etc.

2842. Phryganea dubia. (Limnophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet.

Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undescr.).

1856. Hagen.

Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 100-101.

*Pl. 7, figs. 4b-d.*See also *Limnophilus dubius*.**2843. Phryganea fossilis.** (Phryganidæ.)Compared with *P. minor*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet.

Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undescr.).

1854. "

Traité de paléont., 2^e éd., ii: 376 (undescr.).

1856. "

Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 96. *Pl. 7,**figs. 1b-d, 2b-c.*

1864. Hagen.

Phryg. synopsis synom., 63.

1864. "

Verhandl. zool.-bot. gesellsch. Wien, xiv: 861.

See also *Phryganea antiqua*.**2844. Phryganea gerandiana** (cases). (Phryganidæ.)

Locality: Chavroches, Allier, France. Horizon: Aquitanian.

1870. Oustalet.

Ann. sc. géol., ii, art., 3: 101-102.

See also *Indusia tubulata*, etc.**2845. Phryganea gigantea** (cases). (Phryganidæ.)

Locality: Auvergne, France. Horizon: Aquitanian.

1844. Hepp.

Jahresb. Pollich., ii: 23.

See also *Indusia tubulata*, etc.**2846. Phryganea hyperborea.** (Phryganidæ.)Compared with *P. grandis*, etc.

Locality: Ober Atanakerdluk, Greenland. Horizon: ———.

1883. Heer.

Flora foss. grönl., ii: 147-148. *Pl. 109, figs. 13, 13b.***2847. Phryganea labefacta.** (Phryganidæ.)Compared with *P. grandis*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Sender.

Tert. ins. N. A., 197-198. *Pl. 13, fig. 5.***2848. Phryganea longirostris.** (Phryganidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen.

Verhandl. zool.-bot. ver. Wien, iv: 229 (undescr.).

1856. "

Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 100.

1864. "

Phryg. synopsis synom., 65.

1864. "

Verhandl. zool.-bot. gesellsch. Wien, xiv: 863.

2849. Phryganea major. (Phryganidæ.)

Locality: Valnerina, Italy. Horizon: Quaternary.

1880. Verri.

Atti soc. ital. sc. nat., xxiii: 289 (*Friganea*).***Phryganea mombachana.*** See *Phryganea mombachiana*.

2850. Phryganea mombachiana. (Phryganidæ.)Compared with *P. grandis*.

Locality: Mombach, Rhenish Prussia. Horizon: Middle Tertiary.

1844. Hoeninghaus. *Phryganea mombachiana*. *Figs.*
 1848. Bronn. Index palaeont., i, nomencl., 969 (*mombachiana*).
 1873. Hagen. Verhandl. zool.-bot. gesellsch. Wien, xxiii: 379.
 1873. Hagen. Beitr. kenntn. Phryg., 3.
 See also *Phryganea* ——— Hoeninghaus.

2851. Phryganea operta. (Phryganidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 762.
 See also *Hydropsyche operta*.

2852. Phryganea parschlugiana. (Phryganidæ.)

Locality: Parschlug, Styria. Horizon: ———.

1883. Heer. Flora foss. grönl., ii: 148. *Pl.* 109, *fig.* 14.

2853. Phryganea picea. (Phryganidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pietet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (*undescrib.*).
 1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 98-99. *Pl.*
7, figs. 3b-c; pl. 8, fig. 24.
 See also *Limnophilus piceus*, *Neuronia picea*.

2854. Phryganeolitha vetusta. (Trichoptera.)Compared with *Phryganea wæneri* Linn.

Locality: Prussian amber. Horizon: Ligurian.

1813. Germar. Germ., Mag. entom., i: 17-18.
 1856. Giebel. Insect. d. vorwelt, 268-269.
 See also *Polycentropus vetustus*, *P. xanthocoma*, *Hydropsyche xanthocoma*.

2855. Planocephalus aselloides. (Thysanura.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Describ. artic., 1-6. *Figs.* 1-3.
 1885. " Mem. nat. acad. sc., iii: 85-90. *Figs.* 1-3.
 1885. Bertkau. Sitzungsber. niederrhein. gesellsch. natur.- u. heilk., 1885: 298-300.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 772. *Figs.* 972ab.
 1886. " Zittel-Barrois, Traité de paléont., ii: 772. *Figs.* 989ab.
 1886. " Bull. U. S. geol. surv., No. 31: 52.
 1890. " Tert. ins. N. A., 94-101. *Figs.* 1-3.
 1890. Lesley. Diet. foss. Penns., ii: 651. *Figs.*
 See also ——— Scudder.

2856. Platycnemis antiqua. (Odonata.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 127.
 See also *Agrion antiquum*, etc.

2857. *Platycnemis icarus*. (Odonata.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1890. Scudder. Tert. ins. N. A., 127.

See also *Agrion icarus*.**2858. *Podagrion abortivum*. (Odonata.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 775-776.

1890. " Tert. ins. N. A., 134. Pl. 6, figs. 7, 8.

2859. *Podura* ———. (Thysanura.)

Locality: Prussian amber. Horizon: Lignurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2860. *Podura* ———. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

2861. *Podura fuscata*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 119. Pl. 15, fig. 127.

1856. Giebel. Insect. d. vorwelt, 330.

2862. *Podura pilosa*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 120. Pl. 15, fig. 129.

1856. Giebel. Insect. d. vorwelt, 330.

2863. *Podura pulchra*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 119-120. Pl. 15, fig. 128.

1856. Giebel. Insect. d. vorwelt, 330.

2864. *Podura tæniata*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 119 (tænita). Pl. 15, fig. 126.

1856. Giebel. Insect. d. vorwelt, 329-330.

Podura tænita*. See *Podura tæniata*.*2865. *Polycentropus* ———. (Hydropsychidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2866. *Polycentropus affinis*. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undeser.).
 1854. " Traité de paléont., 2^e éd., ii: 376 (undeser.).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 114. *Pl.*
 7, figs. 7b-c.
 1864. Hagen. Phryg. synopsis synonym., 75.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xvi: 873.

2867. *Polycentropus antiquus*. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 113.
 1864. " Phryg. synopsis synonym., 75.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 873.

2868. *Polycentropus atratus*. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undeser.).
 1854. " Traité de paléont., 2^e éd., ii: 376 (undeser.).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 114. *Pl.* 7,
 fig. 10.
 1864. Hagen. Phryg. synopsis synonym., 75.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 873.

2869. *Polycentropus barbatus*. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undeser.).
 1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 112. *Pl.*
 6, fig. 17b.
 1864. " Phryg. synopsis synonym., 75.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 873.

See also *Hydropsyche barbata*.**2870. *Polycentropus dubius*. (Hydropsychidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undeser.).
 1854. " Traité de paléont., 2^e éd., ii: 376 (undeser.).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., i, th. ii: 115. *Pl.* 7
 fig. 14.
 1864. Hagen. Phryg. synopsis synonym., 75.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 873.

See also *Polycentropus fusconiger*, etc.**2871. *Polycentropus eviratus*. (Hydropsychidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Seudder. Tert. ins. N. A., 182. *Pl.* 13, fig. 7.

2872. *Polycentropus exesus*. (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Seudder. Tert. ins. N. A., 181.

2873. *Polycentropus fusconiger.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 115 (= *P. incertus?*).

See also *Polycentropus incertus*, *P. dubius*, *P. macrocephalus*, *Aphelocheira fusconigra*.

2874. *Polycentropus guttulatus.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undescribed).
 1854. " Traité de paléont., 2^e éd., ii: 376 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 111-112. *Pl. 7, figs. 8b-c.*
 1864. Hagen. Phryg. synopsis synom., 76.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 874.

2875. *Polycentropus incertus.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 376 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 115. *Pl. 7, fig. 13.*
 1864. Hagen. Phryg. synopsis synom., 76.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 874.

See also *Polycentropus fusconiger*, etc.

2876. *Polycentropus lævis.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 376 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 110-111.
 1864. Hagen. Phryg. synopsis synom., 76 (= *P. latus*).
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 874 (= *P. latus*).

See also *Polycentropus latus*.

2877. *Polycentropus latus.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undescribed).
 1854. " Traité de paléont., 2^e éd., ii: 376 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 109-111.
Pl. 7, figs. 11b-c; pl. 8, fig. 27.
 1864. Hagen. Phryg. synopsis synom., 76.
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 874.

See also *Polycentropus lævis*.

2878. *Polycentropus macrocephalus.* (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 376 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw. ii, th. i: 115.
 1864. Hagen. Phryg. synopsis synom., 76 (= *P. dubius*).
 1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 874 (= *P. dubius*).

See also *Polycentropus fusconiger*, etc.

2879. Polycentropus priscus. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 116. *Pl.* 7,
fig. 16.
1864. " Phryg. synopsis synom., 76.
1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 874.

See also *Hydropsyche prisca*.**2880. Polycentropus vetustus.** (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Germar. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 229 (undescrib.).
1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 113. *Pl.*
7, fig. 9.
1864. " Phryg. synopsis synom., 77.
1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 875.

See also *Phryganeolitha vetusta*, etc.**2881. Polycentropus xanthocoma.** (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 376 (undescrib.).
1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 113.
1864. Kollar. Hagen, Phryg. synopsis synom., 77.
1864. " Hagen, Verhandl. zool.-bot. gesellsch. Wien, xiv: 875.

See also *Phryganeolitha vetusta*, etc.**2882. Potamanthus** ———. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2883. Potamanthus priscus. (Ephemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 227 (undescrib.).
1854. " *Traité de paléont.*, 2^e éd., ii: 371 (undescrib.) (*Pothamanthus*).
1856. Pictet-Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 77. *Pl.* 6,
fig. 3b.

See also *Leptophlebia prisca*.**Pothamanthus priscus.** See *Potamanthus priscus*.**2884. Psocus** ———. (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2885. Psocus ———. (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, *Isis.*, 1831: 1100.
1832. " *Handb. ent.*, i: 637.
1836. " *Man. ent.*, 579.

2886. Psocus ———. (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. *Uebers. schles. gesellsch. vaterl. cult.*, 1834: 92.

2887. Psocus ———. (Psocina.)

Locality: Sicilian amber. Horizon: ———

1838. Guérin. Rev. zool., 1838: 170. *Pl.* 1, *fig.* 8.**2888. Psocus abnormis.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 225 (undescrib.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 61. *Pl.* 8, *figs.* 9a-c.See also *Elipsocus abnormis*, etc.**2889. Psocus affinis.** (Psocina.)Compared with *P. nervosus*, *P. bifasciatus*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 225 (undescrib.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 58. *Pl.* 5, *figs.* 9b-c, 12.

1866. Hagen. Psoc. Emb. synopsis, 12.

1866. " Verhandl. zool.-bot. gesellsch. Wien, xvi: 212.

1882. " Stett. ent. zeit., xliii: 232-237. *Pl.* 1, *fig.* 1 (22 *figs.*).**2890. Psocus ciliatus.** (Psocina.)Compared with *P. lasiopterus*.

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 225 (undescrib.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 59-60. *Pl.* 5, *figs.* 10b-c.See also *Epipsocus ciliatus*.**2891. Psocus debilis.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 225 (undescrib.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 60. *Pl.* 5, *fig.* 11b.See also *Cæcilium debilis*, *Epipsocus debilis*.**2892. Psocus proavus.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 225 (undescrib.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 59. *Pl.* 5, *fig.* 8b; *pl.* 8, *fig.* 7.See also *Cæcilium proavus*.**2893. Psocus tener.** (Psocina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 225 (undescrib.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 60. *Pl.* 8, *fig.* 8.

1882. " Stett. ent. zeit., xliii: 225-226.

See also *Palæopsocus tener*, *Epipsocus tener*.**Psychomyia** (several species). See *Psychomyia*, the same species.

2894. Psychomyia ———. (Hydropsychidæ.)

Locality: Prussiau amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2895. Psychomyia lata. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 119 (Psychomia).

See also *Psychomyia sericea*, etc.**2896. Psychomyia pallida.** (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 376 (undescrib.) (Psychomia).1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 118 (=P. sericea). *Pl. 7, figs. 19b-d.*See also *Psychomyia sericea*, etc.**2897. Psychomyia sericea.** (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 376 (undescrib.) (Psychomia).1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 118 (Psychomia). *Pl. 7, figs. 19b-e; pl. 8, fig. 28.*1864. Hagen. *Phryg. synopsis synom.*, 79.1864. " *Verhandl. zool.-bot. gesellsch. Wien*, xiv: 877.See also *Psychomyia pallida*, *P. lata*.**2898. Raphidia** ———. (Sialina.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. *Insekten im bernstein*, 35.**2899. Raphidia** ——— (larva). (Sialina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 83-84. *Pl. 8, fig. 31.***2900. Raphidia** ———. (Sialina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. *Bull. U. S. geol. surv. terr.*, vi: 293.1882. " *Proc. Bost. soc. nat. hist.*, xxi: 407.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 283.See also *Raphidia tranquilla*.**2901. Raphidia erigena.** (Sialina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Menge. Hagen, *Verhandl. zool.-bot. ver. Wien*, iv: 228 (undescrib.).See also *Raphidia (Inocellia) erigena*.**2902. Raphidia (Inocellia) erigena.** (Sialina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 83. *Pl. 8, fig. 14.*See also *Raphidia erigena*.

2903. *Raphidia trauquilla.* (Sialina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 154-155. Pl. 14, fig. 2.

See also *Raphidia* — Scudder.

2904. *Rhyacophila* ———. (Rhyacophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2905. *Rhyacophila occulta.* (Rhyacophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 120.

1864. " Phryg. synopsis synom., 81.

1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv: 879.

2906. *Rhyacophila prisca.* (Rhyacophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 376 (undeser.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 116-117.
Pl. 7, fig. 6.

See also *Tinodes prisca*.

2907. *Rhyacophila subumbrosa.* (Rhyacophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1851. Kolenati. Abhandl. böhm. gesellsch. wiss., (5), vi: 15 (undeser.).

2908. *Rhyacophila succinica major.* (Rhyacophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1851. Kolenati. Abhandl. böhm. gesellsch. wiss., (5), vi: 15 (undeser.).

2909. *Rhyacophila succinica media.* (Rhyacophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1851. Kolenati. Abhandl. böhm. gesellsch. wiss., (5), vi: 15 (undeser.).

2910. *Rhyacophila succinica minor.* (Rhyacophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1851. Kolenati. Abhandl. böhm. gesellsch. wiss., (5), vi: 15 (undeser.).

Rophalis amissa. See *Sisyra* (*Rophalis*) *amissa*.

2911. *Rophalis relictæ.* (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1842. Erichson. MSS.; cf. Hagen in Berendt, Bernst. befindl. organ. reste vorw.,
ii, th. i: 87.

1854. Pictet. Traité de paléont., 2^e éd., ii: 378 (undeser.).

1866. Hagen. Stett. ent. zeit., xxvii: 459.

See also *Sisyra relictæ*, 8. (*Rophalis*) *relictæ*.

2912. *Semblis* ———. (Sialina.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 57.

2913. Semblis ——. (Sialina.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

2914. Sericostomum ——. (Sericostomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229.

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 107.

2915. Sericostomum hyalinum. (Sericostomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229 (undescrib.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 106-107.

2916. Setodes abbreviata. (Leptoceridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 192.

2917. Setodes portionalis. (Leptoceridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 191-192. Pl. 15, fig. 15.

2918. Sisyra ——. (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2919. Sisyra amissa. (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 228.

1866. " Stett. ent. zeit., xxvii: 460.

See also *Sisyra* (*Rophalis*) *amissa*.**2920. Sisyra (Rophalis) amissa.** (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 87-88. Pl. 8, fig. 20.

See also *Sisyra amissa*.**2921. Sisyra relictæ.** (Hemerobina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 228 (undescrib.).

1866. " Stett. ent. zeit., xxvii: 460.

See also *Rophalis relictæ*, etc.**2922. Sisyra (Rophalis) relictæ.** (Hemerobina.)Compared with *S. fuscata*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 87. Pl. 7, figs. 25b-f; pl. 8, fig. 19.

See also *Rophalis relictæ*, etc.

2923. *Smynthurus* ———. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

2924. *Smynthurus brevicornis*. (Thysanura.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 873.

1854. " Bernst. befindl. organ. reste vorw., i, th. ii: 121. *Pl. 15, fig. 131.*1856. Giebel. *Insect. d. vorwelt*, 329.**2925. *Smynthurus longicornis*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 873.

1854. " Bernst. befindl. organ. reste vorw., i, th. ii: 121. *Pl. 15, fig. 130.*1856. Giebel. *Insect. d. vorwelt*, 329.**2926. *Smynthurus ovatulus*. (Thysanura.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Koch-Berendt. Jahrb. min., 1845: 872.

1854. " Bernst. befindl. organ. reste vorw., i, th. ii: 121-122. *Pl. 15, fig. 132.*1856. Giebel. *Insect. d. vorwelt*, 329.**2927. *Sphæropsocus künowi*. (Psocina.)**

Locality: Prussian amber. Horizon: Ligurian.

1882. Hagen. *Stett. ent. zeit.*, xliii: 226-231, 300. *Pl. 2, figs. 1¹⁴.*1883. " *Stett. ent. zeit.*, xliv: 320.1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 773. *Fig. 975.*1886. " *Zittel-Barrois, Traité de paléont.*, ii: 773. *Fig. 992.***2928. *Sterope parthenope*. (Odonata.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1850. Hagen. *Rev. Odon. (Mém. soc. roy. sc. Liège, vi)*: 358.See also *Agrion* (*Sterope*) *parthenope*, etc.**2929. *Suphalasca proavus*. (Hemerobina)**

Locality: Stösschen, Austria. Horizon: Aquitanian.

1866. Hagen. *Stett. ent. zeit.*, xxvii: 461.See also *Ascalaphus proavus*.**2930. *Sympycna parthenoe*. (Odonata.)**

Locality: Oeningen, Baden. Horizon: Tortonian

1890. Scudder. *Tert. ins. N. A.*, 127.See also *Agrion* (*Sterope*) *parthenoe*, etc.**2931. *Tæniopteryx* ———. (Perlina.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57 (*Tænioptrix*).

2932. Tæniopteryx ciliata. (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Hagen, Verhandl. zool.-bot. ver. Wien, iv: 226 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 68. *Pl.* 6,
figs. 89b-g.

See also *Nemoura* (*Tæniopteryx*) *ciliata*.**2933. Tæniopteryx elongata.** (Perlina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 226 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 68-69. *Pl.*
 8, *fig.* 4.

Tæniotrix ———. See *Tæniopteryx* ———.**2934. Termes** ———. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

2935. Termes ———. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

2936. Termes ———. (Termitina.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 164.
 1889. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

2937. Termes ———. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1825. Guérin. Dict. class. d'hist. nat., viii: 580.

2938. Termes ———. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1838. Ouchakoff. Bull. soc. imp. Mosc., 1838: 37-42. *Pl.* 1, *figs.* 1-2.
 1840. " Ann. sc. nat., (2), xiii: 204-207. *Pl.* 1, *fig.* B.
 1842. " Calc. journ. nat. hist., ii: 74-78.
 1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 224 (= ? *Entermes antiquus*).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 55 (= ? *Termes antiquus*).

See also *Termes antiquus*, etc.**2939. Termes** ———. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlotheim. Petrefactenk., 43.

2940. Termes ———. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Smith. Quart. journ. sc., v: 1-4. *Pl.*, *fig.* 9.

2941. Termes ———. (Termitina.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag., (n. s.), v: 89.

2942. Termes (Calotermes) affinis. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 50-51 (Kalo-
 termes). Pl. 5, figs. 5b-e.

See also *Termes obscurus*, T. (*Eutermes*) *obscurus* (1), T. *girardi*, T. (*Termopsis*) *girardi*; also I, NEUROPT., *Termes (Calotermes) affinis*, *Calotermes affinis*.

2943. Termes antiquus. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1858. Hagen. Catal. Neuropt. Brit. mus., 24-25.
 1858. " Linn. entom., xii: 180-181.
 1860. " Linn. entom., xiv: 107.

See also *Termes* ——— *Ouchakoff*, T. (*Eutermes*) *antiquus*, *Hemerobites antiquus*, *Maresa plebeja*, *Termes gracilis*.

2944. Termes (Eutermes) antiquus. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. Hist. succ., 30 (unnamed). Pl. 1, fig. 5.
 1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 54-55. Pl.
 5, figs. 6b-i.
 1856. Giebel. Insect. d. vorwelt., 296-297.
 1860. Hagen. Linn. entom., xii: 297 (not Germar's *Hemerobites antiquus*, as
 Giebel thought).

See also *Termes antiquus*, etc.

2945. Termes berendtii. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 370 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 49-50. Pl.
 5, figs. 2b-e.

See also *Calotermes berendtii*, *Termes (Calotermes) berendtii*.

2946. Termes (Calotermes) berendtii. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 49 (Kalo-
 termes).

See also *Termes berendtii*, etc.

2947. Termes breinii. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1852. Giebel. Deutschl. petref., 638 (*breinii*).

See also T. (*Termopsis*) *breinii*, etc.

2948. Termes (Termopsis) breinii. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 31-32. Pl. 3, fig. 2.
 1852. Giebel. Deutschl. petref., 638.

1856. Giebel. Insect. d. vorwelt, 294.
 1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 51-53.
Pl. 5, figs. 3b-c.
 See also *Termes pietetii*, *T. granulicollis*, *T. bremii*, *Termopsis bremii*.

2949. *Termes büchii*. (Termitina.)

Compared with *T. lucifugus* Latr.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 360, 368.
 1872. " Monde prim. Suisse, 442, 451.
 1876. " Prim. world Switz., ii: 14, 22.
 1879. " Urwelt der Schweiz, 2^e aufl., 386, 393.

2950. *Termes croaticus*. (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1852. Giebel. Deutshl. petref., 638.
 See also *Termes (Eutermes) croaticus*.

***Termes (Eutermes) croaticus*. See *Termes (Eutermes) croaticus*.**

2951. *Termes (Eutermes) croaticus*. (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 34. *Pl. 3, fig. 5.*
 1852. Giebel. Deutshl. petref., 638.
 1856. " Insect. d. vorwelt, 295.
 1858. Hagen. Linn. entom., xii: 205.
 1858. " Catal. Neuropt. Brit. mus., 28 (*Eutermes*).
 See also *Termes croaticus*.

2952. *Termes debilis*. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1852. Giebel. Deutshl. petref., 638.
 See also *Termes (Eutermes) debilis*.

2953. *Termes (Eutermes) debilis*. (Termitina.)

Locality: Prussian amber (Heer); Copal (Hagen). Horizon: Ligurian (Heer);
 Recent (Hagen).

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 35. *Pl. 3, fig. 6.*
 1856. Giebel. Insect. d. vorwelt, 295.
 1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 48.
 See also *Termes debilis*.

2954. *Termes (Termopsis) deciduus*. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 52-53.
 See also *Termopsis decidua*.

2955. *Termes (Eutermes) diaphanus*. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 296.
 1860. Hagen. Linn. entom., xii: 297 (= *T. pusillus*).
 See also *Termes pusillus*, etc.

2956. *Termes girardi*. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1888. Schlechtend. Zeitschr. ges. naturw., lxi: 491.

See also *Termes* (*Calotermes*) *affinis*, etc.**2957. *Termes* (*Termopsis*) *girardi*. (Termitina.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 294.

1860. Hagen. Linn. entom., xii: 297 (=T. *affinis*).See also *Termes* (*Calotermes*) *affinis*, etc.**2958. *Termes gracilicornis*. (Termitina.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Pictet. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 53-54. *Pl.*
5, *figs.* 4b-d.See also *Termes* (*Termopsis*) *gracilicornis*, *Termopsis gracilicornis*.**2959. *Termes* (*Termopsis*) *gracilicornis*. (Termitina.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 370 (undeser.).1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 53-54.
Pl. 5, *figs.* 4, 9b-d.See also *Termes gracilicornis*, etc.**2960. *Termes gracilis*. (Termitina.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 370 (undeser.).1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 54-55, 124.
Pl. 5, *figs.* 6b-i.See also *Termes antiquus*, etc.**2961. *Termes granulicollis*. (Termitina.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 370 (undeser.).

1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 51.

See also *Termes* (*Termopsis*) *brunmii*, etc.**2962. *Termes haidingeri*. (Termitina.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Haidinger, Berichte, v: 87.

1852. Giebel. Deutschl. petref., 638.

See also *Termes* (*Termopsis*) *haidingeri*, etc.**2963. *Termes* (*Termopsis*) *haidingeri*. (Termitina.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 26-28.

1852. Giebel. Deutschl. petref., 638.

1854. Goldenberg. Palaeontogr., iv. *Pl.* 5, *fig.* 1.1854. " Foss. ins. Saarbr. *Pl.* 3, *fig.* 1.

1856. Giebel. Insect. d. vorwelt, 293.

See also *Hodotermes haidingeri*, *Termes haidingeri*.

2964. Termes hartungi. (Termitina.)Compared with *T. lucifugus* Latr.

Localities: Radoboj, Croatia; Oeningen, Baden. Horizon: Mayencian, Tortonian.

1858. Heer. Hagen, Linn. entom., xii: 181 (undescribed).
 1865. " Urwelt der Schweiz, 360, 368. Fig. 230, on p. 366.
 1872. " Monde prim. Suisse, 442, 451. Fig. 230, on p. 449.
 1876. " Prim. world Switz., ii: 14, 22. Fig. 230.
 1879. " Urwelt der Schweiz, 2^e Aufl., 386, 393. Fig. 271, on p. 392.

2965. Termes hassencampi. (Termitina.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1860. Heer. Hassencamp, Würzb. naturw. zeitschr., i: 79 (undescribed).

2966. Termes insignis. (Termitina.)Compared with *T. fatalis* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1852. Giebel. Deutschl. petref., 638.
 1865. Heer. Urwelt der Schweiz, 367.
 1872. " Monde prim. Suisse, 451.
 1876. " Prim. world Switz., ii: 22.
 1879. " Urwelt der Schweiz, 2^e Aufl., 393.

See also *Termes (Termopsis) insignis*, etc.**2967. Termes (Termopsis) insignis.** (Termitina.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 29-31. Pl. 3, fig. 1.
 1852. Giebel. Deutschl. petref., 638.

See also *Hodotermes insignis*, *Termes insignis*.**2968. Termes (Eutermes) mæstus.** (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 497.

See also *Termes (Eutermes) obscurus* (2).**2969. Termes obscurus.** (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1852. Giebel. Deutschl. petref., 638.
 1854. Pietet. Traité de paléont., 2^e éd., ii: 370 (undescribed).
 1856. " Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 50-51. Pl. 5, figs. 3b-c.

See also *Termes (Calotermes) affinis*, etc.**Termes (Eutermes) obscurus.** See *Termes (Eutermes) obscurus* (1).**2970. Termes (Eutermes) obscurus** (1). (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 33-34. Pl. 3, fig. 4.
 1858. Hagen. Linn. entom., xii: 204-205.
 1858. " Catal. Neuropt. Brit. mus., 28 (Eutermes)

See also *Termes (Calotermes) affinis*, etc.

2971. Termes (Eutermes) obscurus (2). (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 297.
 1858. Hagen. Linn. entom., xii: 205, 297.
 See also *Termes (Eutermes) maestus*.

2972. Termes peccanæ. (Termitina.)

Locality: Monte Bolca, Italy. Horizon: Ligurian.

1856. Massalongo. Stud. paleont., 19. *Pl. 2, figs. 5, 6.*
 1886. Omboni. Atti r. ist. Ven., (6), iv: 1426 (*peccanæ*). *Pl. 2, fig. 7.*
 1886. " Ins. foss. ven., 6. *Pl. 2, fig. 7.*

Termes peccanæ. See *Termes peccanæ*.**2973. Termes pictetii**. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Berendt. MSS.
 1854. Pictet. Traité de paléont., 2^e éd., ii: 370. *Pl. 40, figs. 23, 23a.*
 1856. Berendt. Bernst. befindl. organ. reste vorw., ii, th. i: 51-53. *Pl. 5, figs. 3b-e.*

See also *Termes (Termopsis) breinii*, etc.**2974. Termes pristinus**. (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1843. Charpentier. Verhandl. leop.-carol. akad. naturf., xx: 409-410. *Pl. 23, figs. 2-4.*
 1847. Unger. Chloris protogæa, 134-135 (without specific name). *Pl. 44, fig. 1.*
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 33, note.
 1852. Giebel. Deutschl. petref., 638.
 1858. Hagen. Linn. entom., xii: 161-162.
 1858. " Catal. Neuropt. Brit. mus., 22.

See also *Termes (Eutermes) pristinus*. T. *procerus*, T. (*Termopsis*) *procerus*, *Hodotermes procerus*.**2975. Termes (Eutermes) pristinus**. (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 32-33. *Pl. 3, fig. 3.*
 1856. Giebel. Insect. d. vorwelt, 294-295.

See also *Termes pristinus*, etc.**2976. Termes procerus**. (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1852. Giebel. Deutschl. petref., 638.

See also *Termes pristinus*, etc.**2977. Termes (Termopsis) procerus**. (Termitina.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 23-26. *Pl. 2, fig. 5.*
 1856. Giebel. Insect. d. vorwelt, 292-293.

See also *Termes pristinus*, etc.

2978. *Termes pusillus.* (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1852. Giebel. Deutschl. petref., 638.

See also *Termes* (*Eutermes*) *pusillus*, *T. diaphanus*, *T. (E.) punctatus*.**2979. *Termes (Eutermes) pusillus.* (Termitina.)**Localities: Prussian amber (Heer); Copal (Hagen). Horizon: Ligurian (Heer);
Recent (Hagen).

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 35-36. Pl. 3, fig. 7.

1856. Giebel. Insect. d. vorwelt, 295.

1856. Hagen. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 48.

See also *Termes pusillus*, etc.**2980. *Termes (Eutermes) punctatus.* (Termitina.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 296.

1860. Hagen. Linn. entom., xii: 297 (= ?*T. pusillus*).See also *Termes pusillus*, etc.**2981. *Termes spectabilis.* (Termitina.)**Compared with *T. fatalis* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1852. Giebel. Deutschl. petref., 638.

1865. Heer. Urwelt der Schweiz, 367.

1872. " Monde prim. Suisse, 451.

1876. " Prim. world Switz., ii: 22.

1879. " Urwelt der Schweiz, 2^e Aufl., 393.See also *Termes* (*Termopsis*) *spectabilis*, etc.**2982. *Termes (Termopsis) spectabilis.* (Termitina.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 28-29. Pl. 2, fig. 6.

1856. Giebel. Insect. d. vorwelt, 293.

See also *Hodotermes spectabilis*, *Termes spectabilis*.**2983. *Termopsis bremii.* (Termitina.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 222.

1858. " Linn. entom., xii: 78-80.

1858. " Catal. Neuropt. Brit. mus., 12.

1860. " Linn. entom., xiv: 102.

See also *Termes* (*Termopsis*) *bremii*, etc.**2984. *Termopsis decidua.* (Termitina.)**

Locality: Prussian amber. Horizon: Ligurian.

1858. Hagen. Linn. entom., xii: 80-81 (*deciduus*.)

1858. " Catal. Neuropt. Brit. mus., 13.

See also *Termes* (*Termopsis*) *deciduus*.***Termopsis girardi.* See *Termes* (*Termopsis*) *girardi*.**

2985 Termopsis gracilicornis. (Termitina.)

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv : 222 (undescrib.).

1858. " Linn. entom., xii : 80.

1858. " Catal. Neuropt. Brit. mus., 12-13.

See also *Termes gracilicornis*, etc.**Termopsis haidingeri.** See *Termes (Termopsis) haidingeri*.**2986. Termopsis heeriana.** (Termitina.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1855. Göppert. Tert. flora Schossnitz. Pl. 26, fig. 53.

See also *Termopsis heerii*, *Hodotermes heerianus*.**2987. Termopsis heerii.** (Termitina.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1855. Göppert. Tert. flora Schossnitz, p. vii.

See also *Termopsis heeriana*, *Hodotermes heerianus*.**Termopsis insignis.** See *Termes (Termopsis) insignis*.**Termopsis procera.** See *Termes (Termopsis) procerus*.**Termopsis spectabilis.** See *Termes (Termopsis) spectabilis*.**2988. Tinodes grossa.** (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Berust. befindl. organ. reste vorw., ii, th. i : 117.

1864. " Phryg. synopsis synom., 89.

1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv : 887.

2989. Tinodes paludigina. (Hydropsychidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 190-191. Pl. 15, fig. 9.

2990. Tinodes prisca. (Hydropsychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Hagen. Berendt, Berust. befindl. organ. reste vorw., ii, th. i : 117. Pl. 7, figs. 6b-d; pl. 8, fig. 29.

1864. " Phryg. synopsis synom., 90.

1864. " Verhandl. zool.-bot. gesellsch. Wien, xiv : 888.

See also *Rhyacophila prisca*.**2991. Tribochrysa** — (3 sp.). (Hemerobina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1882. Scudder. Proc. Bost. soc. nat. hist., xxi : 408.

1883. " Ann. rep. U. S. geol. surv. terr., xii : 283.

See also *Chrysopa (vic.)* —, *Nothochrysa* —, *Nymphon (vic.)* —, and the following species.**2992. Tribochrysa firmata.** (Hemerobina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 172. Pl. 14, figs. 6, 7, 10, 11.

See also *Tribochrysa* —.

2993. *Tribochrysa inequalis*. (Hemerobina.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 777. Fig. 982.
 1886. " Zittel-Barrois, Traité de paléont., ii: 777. Fig. 999.
 1890. " Tert. ins. N. A., 170-171.

See also *Tribochrysa* ———.**2994. *Tribochrysa vetuscula*. (Hemerobina.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 170. Pl. 14, fig. 9.

See also *Tribochrysa* ———.**2995. *Trichostomum proavum*. (Sericostomida.)**

Locality: Prussian amber. Horizon: Ligurian.

1854. Hagen. Verhandl. zool.-bot. ver. Wien, iv: 229 (undescribed).
 1856. " Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 103. Pl. 8,
 fig. 25.

See also *Gæra proava*.**2996. *Troctes succinicus*. (Psocina.)**

Locality: Prussian amber. Horizon: Ligurian.

1883. Kolbe. Stett. ent. zeit., xlv: 190.

See also *Atropos succinea*.**HEMIPTERA.****2997. ——— ———.**

Locality: [Sinigaglia †], Italy. Horizon: ———.

1841. Bassi. Atti reün. scienz. ital., iii: 401.

2998. ——— ———. ("Baumwanze.")

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1885. Foerster. Tagebl. versamml. deutsch. naturforsch., lviii: 392.
 1885. " Mitth. ober-elsäss. tertiär., 7.
 1888. " Mitth. comm. geol. Elsass-Lothr., i: 164.

2999. ——— ——— (10 sp.).

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3000. ——— ———.

Locality: Sinigaglia, Italy. Horizon: Helvetian †.

1842. Procaccini. Nuov. ann. sc. nat., vii: 449.

3001. ——— ——— (several). ("Water-bugs.")

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3002. ——— ———.

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag. (n. s.), v: 88.

3003. ———. (Aphides ?.)

Locality: British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-'78: 186B.
 1879. " Ins. tert. Nicola, 11.

3004. ——— (several). (Aphides-Aphidinae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3005. ———. (Aphides-Schizoneurinae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3006. ——— (2 sp.). (Aradidae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3007. ——— (several). (Cercopidae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3008. ———. ("Cicadariae.")

Locality: Rouffach, Alsatia. Horizon: Tongrian.

1881. Bleicher. Bull. soc. géol. Fr., (3), viii: 226.

3009. ——— (2 sp.). ("Cicadellidae.")

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3010. ———. ("Cimicidae.")

Locality: (Italy?). Horizon: ———.

1796. ———. Ittiol. veron., i: 31.

3011. ——— (9 sp.). ("Cimicidae.")

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3012. ——— (1 or 2). (Coreidae-Alydinae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3013. ——— (2 sp.). (Fulgoridae.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3014. ——— (several). (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3015. ——— (Jassides.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3016. ——— (several). (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296.
 1829. " Murchison-Lyell, Tert. form. Aix, 12.

3017. ——— (7 sp.). (Lygæidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3018. ——— (several). (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3019. ——— (several). (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3020. ——— (several). (Pentatomidæ-Corimalænidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3021. ——— (8 sp.). (Pentatomidæ-Cydnida.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3022. ——— (Reduviidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3023. ——— (several). (Reduviidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3024. *Acanthosoma*? ——— (Pentatomidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3025. *Acanthosoma livida*. (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 41-42. *Pl. 3, fig. 6; pl. 8, fig. 3.*
 1856. " Ber. oesterreich. litt., 1850-'53: 200.
 1856. Giebel. Insect. d. vorwelt, 346.

3026. *Acanthosoma maculata*. (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 42-43. *Pl. 3, fig. 7; pl. 8, fig. 5.*
 1855. " Ber. oesterreich. litt., 1850-'53: 200.
 1856. Giebel. Insect. d. vorwelt, 346-347.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 785. *Fig. 1003.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 785. *Fig. 1020.*

3027. *Acanthosoma morloti*. (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 39-41. *Pl. 3, fig. 5; pl. 8, fig. 4.*
 1855. " Ber. oesterreich. litt., 1850-'53: 200.
 1856. Giebel. Insect. d. vorwelt, 346.

3028. *Achrestocoris cinerarius*. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 413-414. *Pl. 22, fig. 1.*

3029. *Acocephalus adæ*. (Jassides.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 771.
 1890. " Tert. ins. N. A., 311. *Pl. 6, fig. 29.*

3030. *Acocephalus callosus*. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 311-312. *Pl. 19, fig. 15.*

3031. *Acocephalus crassiusculus*. (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 112. *Pl. 13, fig. 2.*
 1855. " Ber. oesterreich. litt., 1850-'53: 203.
 1856. Giebel. Insect. d. vorwelt, 385.

3032. *Acocephalus curtulus*. (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 110-112. *Pl. 13, fig. 1.*
 1855. " Ber. oesterreich. litt., 1850-'53: 203.
 1856. Giebel. Insect. d. vorwelt, 384-385.

3033. *Ælia obsoleta*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 32. *Pl. 2, fig. 9.*
 1856. Giebel. Insect. d. vorwelt, 343.

See also *Pentatoma obsoletum*.

3034. *Æthus punctulatus*. (Pentatomidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 769-770.

See also *Stenopelta punctulata*.**3035. *Ætorhinus* ———. (Capsidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3036. *Agallia abstracta*. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ms. N. A., 307. Pl. 19, fig. 5.

3037. *Agallia flaccida*. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ms. N. A., 306. Pl. 19, fig. 18.

3038. *Agallia instabilis*. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 306-307. Pl. 21, fig. 1.

3039. *Agallia lewisii*. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 305-306. Pl. 19, figs. 7, 21.

3040. *Aleurodes aculeatus*. (Coccidæ.)Compared with *A. chelidonii* Latr.

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 18.

3041. *Alydus herrichii*. (Coreidæ.)Compared with *A. lateralis* Germ.

Locality: Oeningen, Baden. Horizon: Tortonian.

1861. Heer. Rech. climat pays tert., 203 (undeser.).

3042. *Alydus pristinus*. (Coreidæ.)Compared with *A. calcaratus*.

Locality: Vic. Bonn, Rhenish Prussia. Horizon: Aquitanian?.

1837. Germar. Fauna insect. Europae, xix: 18. Pl. 18.

1852. Giebel. Deutschl. petref., 636.

1856. " Insect. d. vorwelt, 349.

3043. *Alydus pulchellus*. (Coreidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 47-49, 128. Pl. 4, fig. 2; pl. 8, fig. 9; pl. 14, fig. 19.

1856. Giebel. Insect. d. vorwelt, 349.

3044. *Amalancon lutosus*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 270-271. Pl. 18, fig. 13.

3045. *Anasa priscoputida*. (Coreoidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 412-413. Pl. 24, fig. 4.

3046. *Anconatus bucktoni*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 272-273.

3047. *Anconatus dorsuosus*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Buckton. Monogr. Brit. aphid., iv: 177-178. Pl. 133, fig. 4.

1890. Scudder. Tert. ins. N. A., 272. Pl. 18, fig. 9.

3048. *Aphana atava*. (Fulgorina.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 759-760.

1890. " Tert. ins. N. A., 281-282. Pl. 5, figs. 96, 97.

3049. *Aphana rotundipennis*. (Fulgorina.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 772.

1890. " Tert. ins. N. A., 282. Pl. 6, fig. 27.

3050. *Aphantaphis exsua*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 254.

3051. *Aphidioides succifera*. (Aphides.)Compared with *Aphis pinophila*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Étud. entom., v: 29. Pl., fig. 8.

1883. Buckton. Monogr. Brit. aphid., iv: 164 (Aphioides). Pl. 132, fig. 7.

3052. *Aphidopsis* ——. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 266. Pl. 18, fig. 11.

3053. *Aphidopsis dalli*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 264-265.

3054. *Aphidopsis emaciata*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 265.

3055. *Aphidopsis hargeri*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 262-263.

3056. *Aphidopsis lutaria*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 263.

3057. *Aphidopsis margarum*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 264. Pl. 18, fig. 8.

3058. *Aphidopsis subterna*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 261-262.

Aphioides succifera*. See *Aphidioides succifera*.*3059. *Aphis* ———. (Aphides.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3060. *Aphis* ———. (Aphides.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296.

1829. " Murchison-Lyell, Tert. form. Aix, 12.

3061. *Aphis araneiformis*. (Aphides.)Compared with *A. pomi*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 6. Pl. 1, fig. 8.

1883. Buckton. Monogr. Brit. aphid., iv: 165. Pl. 131, fig. 4.

Aphis cimicoides*. See *Lachnus cimicoides*.*3062. *Aphis delicatula*. (Aphides.)**

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 40. Pl. 2, fig. 13.

1883. Buckton. Monogr. Brit. aphid., iv: 170. Pl. 132, fig. 6.

3063. *Aphis hirsuta*. (Aphides.)Compared with *A. picridis*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 6. Pl. 1, fig. 7.

1883. Buckton. Monogr. Brit. aphid., iv: 166. Pl. 131, fig. 5.

3064. *Aphis largiflua*. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 19 (undescrib.).

3065. *Aphis longicaudata*. (Aphides.)

Locality: Ambérieux, France. Horizon: ———.

1853. Millière. Ann. soc. ent. Fr. (5), i: 9-11 (*longicaudatus*). Pl. 3¹¹.

1883. Buckton. Monogr. Brit. aphid., descr. pl. cxxxii. Pl. 132, fig. 1.

3066. *Aphis longicornis*. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 19.

3067. *Aphis macrostyla*. (Aphides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 121-122. *Pl.* 15, *fig.* 3.
 1855. " Ber. oesterreich. litt., 1850-'53: 203.
 1856. Giebel. Insect. d. vorwelt, 389.
 1883. Buckton. Monogr. Brit. aphid., iv: 169-170. *Pl.* 132, *fig.* 2.

3068. *Aphis morloti*. (Aphides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 122-123. *Pl.* 15, *figs.* 5ab.
 1855. " Ber. oesterreich. litt., 1850-'53: 203.
 1856. Giebel. Insect. d. vorwelt, 389.
 1883. Buckton. Monogr. Brit. aphid., iv: 171 (*morlotti*). *Pl.* 132, *fig.* 9.
 See also Lachnus ——— Buckton.

Aphis morlotti*. See *Aphis morloti*.*3069. *Aphis pallescens*. (Aphides.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 122. *Pl.* 15, *fig.* 4.
 1855. " Ber. oesterreich. litt., 1850-'53: 203.
 1856. Giebel. Insect. d. vorwelt, 389.
 1883. Buckton. Monogr. Brit. aphid., iv: 170-171. *Pl.* 132, *figs.* 10, 10a.

3070. *Aphis retrolactens*. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 19 (*undescrib.*).

3071. *Aphis transparens*. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 7. *Pl.* 2, *fig.* 1.
 1883. Buckton. Monogr. Brit. aphid., iv: 168. *Pl.* 131, *fig.* 10.

3072. *Aphrophora* ———. (Cercopidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 55.

3073. *Aphrophora* ——— (4 sp.). (Cercopidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3074. *Aphrophora* ———. (Cercopidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3075. *Aphrophora* ———. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 337. *Pl.* 19, *fig.* 10.

3076. *Aphrophora (Ptyelus) carbonaria.* (Cercopidæ.)Compared with *A. leucophthalma*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 11-12
(*Ptyela*). *Pl.* 2, *fig.* 3.

3077. *Aphrophora electrina.* (Cercopidæ.)Compared with *A. (Ptyela) leucophthalma*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 10-11.
Pl. 1, *fig.* 15.

3078. *Aphrophora molassica.* (Cercopidæ.)

Locality: Greith, Hohe Rhonen, Germany. Horizon: Aquitanian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 107-109. *Pl.* 12, *fig.* 9.
1856. Giebel. Insect. d. vorwelt, 383.

Aphrophora pinguicola.* See *Aphrophora pinguicola.**3079. *Aphrophora pinguicola.* (Cercopidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 107. *Pl.* 12, *fig.* 8.
1856. " Viert. naturf. gesellsch. Zürich, i: 39.
1856. Giebel. Insect. d. vorwelt, 383 (*pinguicola*).

3080. *Aphrophora spumarioides.* (Cercopidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 106-107. *Pl.* 12, *fig.* 7.
1856. Giebel. Insect. d. vorwelt, 383.

3081. *Aphrophora spumifera.* (Cercopidæ.)

Localities: Radoboj, Croatia; Aix, France. Horizon: Mayencian, Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 104-106, 134. *Pl.* 12, *fig.* 6.
1855. " Ber. oesterreich. litt., 1850-'53: 202.
1856. " Viert. naturf. gesellsch. Zürich, i: 39.
1856. Giebel. Insect. d. vorwelt, 383.

See also *Tettigonia* — Curtis, *Tettigonia spumaria*.**3082. *Aphrophora vetusta.* (Cercopidæ.)**Compared with *Gypona glauca*, Brazil.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 11. *Pl.*
1, *fig.* 16.

3083. *Aporema præstrictum.* (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 370. *Pl.* 20, *fig.* 4.

3084. *Aradus* ——. (Aradidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3085. Aradus ——— (Aradidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 23. *Pl.* 3, *fig.* 17.**3086. Aradus** ———. (Aradidæ.)Compared with *A. corticalis*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 252.

3087. Aradus ———. (Aradidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 784.

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 784.

1886. " Bull. U. S. geol. surv., No. 31: 62.

3088. Aradus ———. (Aradidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 227.

3089. Aradus antediluvianus. (Aradidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 73. *Pl.* 5, *fig.* 16.

1855. " Ber. oesterreich. litt., 1850-'53: 201.

1856. Giebel. Insect. d. vorwelt, 362.

3090. Aradus assimilis. (Aradidæ.)Compared with *A. depressus*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 22. *Pl.* 2, *fig.* 12.**3091. Aradus consimilis.** (Aradidæ.)Compared with *A. annulicornis*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 23. *Pl.* 2, *fig.* 13.**3092. Aradus superstes.** (Aradidæ.)Compared with *A. corticalis*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 22. *Pl.* 2, *fig.* 11.1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 784. *Fig.* 998.1886. " Zittel-Barrois, *Traité de paléont.*, ii: 784. *Fig.* 1015.**3093. Archilachnus mudgei.** (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 247-248.

3094. Archilachnus pennatus. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Buckton. Monogr. Brit. aphid., iv: 177. *Pl.* 133, *fig.* 3.
 1890. Scudder. Tert. ins. N. A., 247. *Pl.* 18, *figs.* 1, 15-17.

3095. Arma ———. (Pentatomidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3096. Asira tertiaria. (Fulgoridæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 377.
 See also *Asiraca* ———, *A. tertiaria*, *Cicadellites obscurus*.

3097. Asiraca ———. (Fulgoridæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. *Pl.* 6, *fig.* 5.
 1829. " Murchison-Lyell, Tert. form. Aix, 12. *Pl.* 6, *fig.* 5.
 See also *Asira tertiaria*, etc.

3098. Asiraca tertiaria. (Fulgoridæ.)

Locality: Aix, France. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 295.
 See also *Asira tertiaria*, etc.

3099. Belostoma ———. (Belostomatidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian?.

1831. Goldfuss. Verhandl. leop.-carol. akad. naturf., vii, abth. 1: 118.

3100. Belostoma goldfussi. (Belostomatidæ.)Compared with *B. grandis*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian?.

1837. Germar. Fauna insect. Europæ, xix: 17. *Pl.* 17.
 1852. Giebel. Deutschl. petref., 636.
 1856. " Insect. d. vorwelt, 371 (*Belostomum*).

3101. Belostoma speciosum. (Belostomatidæ.)Compared with *B. grande*, Brazil.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 392. *Fig.* 303, on p. 391.
 1872. " Monde prim. Suisse, 481. *Fig.* 303, on p. 479.
 1876. " Prim. world Switz., ii: 51. *Fig.* 303, on p. 49.
 1879. " Urwelt der Schweiz, 2^e aufl., 418. *Fig.* 345, on p. 417.
 See also *Belostomates speciosa*.

3102. Belostomates harrisii. (Belostomatidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. ent., iii: 61 (undescribed).

3103. *Belostomates speciosa* (Belostomatidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. ent., iii: 61.

See also *Belostoma speciosum*.***Belostomum goldfussi***. See *Belostoma goldfussi*.**3104. *Berytopsis femoralis*** (Coreidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 55-56. Pl. 4, fig. 9; pl. 9, fig. 3.

1853-56. Bronn. Lethæa geogn., 3^e anfl., iii: 642. Pl. 42', figs. 17a-c.

1856. Giebel. Insect. d. vorwelt, 352.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 785. Fig. 1002.

1886. " Zittel-Barrois, Traité de paléont., ii: 785. Fig. 1019.

3105. *Berytus* ———. (Coreidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 20.

3106. *Brachypelta* ———. (Pentatomidæ.)

Locality: Brunstatt Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3107. *Brachypelta rotundata* (Pentatomidæ.)

Localities: Krottensee, Aag bei Franzensbad, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsab. akad. wiss. Wien, lxxvi: 80-81. Pl. 3, figs. 5ab.

1877. " Faun. egerer tertiärb., 10-11. Pl. 3, figs. 5ab.

3108. *Bythoscopus* ———. (Jassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3109. *Bythoscopus homousius* (Jassides.)Compared with *B. (Jassus) flavicollis* or *B. bipustulatus*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 8. Pl. 1, fig. 10.

3110. *Bythoscopus lapidescens* (Jassides.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 761.

1890. " Tert. ins. N. A., 305. Pl. 5, fig. 94.

3111. *Bythoscopus melanoneurus* (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 113. Pl. 13, fig. 5.

1855. " Ber. oesterreich. litt., 1850-53: 203.

1856. Giebel. Insect. d. vorwelt, 385.

3112. *Bythoscopus muscarius* (Jassides.)

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 112-114. Pl. 13, fig. 4.

1856. " Viert. naturf. gesellsch. Zürich, i: 39.

1856. Giebel. Insect. d. vorwelt, 385.

3113. *Cacalydus exstirpatus*. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 420. *Pl.* 25, *fig.* 3.**3114. *Cacalydus lapsus*. (Coreidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 419-420. *Pl.* 25, *fig.* 12.**3115. *Cacoschistus maceriatius*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 459.

3116. *Calothrips scudderii*. (Physapodes.)

Locality: Aix, France. Horizon: Ligurian.

1873. Oustalet. Bull. soc. philom. Paris, x: 23-24.

3117. *Capsus* ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3118. *Capsus* ———. (Capsidæ.)Compared with *C. spissicornis*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3119. *Capsus* ———. (Capsidæ.)Compared with *C. triguttatus*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3120. *Capsus* ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3121. *Capsus lacus*. (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 369. *Pl.* 22, *fig.* 2.**3122. *Capsus obsolefactus*. (Capsidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 368-369. *Pl.* 23, *fig.* 13.**3123. *Carmelus gravatus*. (Capsidæ.)**Compared with *C. parvus*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 364. *Pl.* 24, *fig.* 10.**3124. *Camelus sepositus*. (Capsidæ.)**Compared with *C. parvus*.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 364. *Pl.* 24, *fig.* 6.

3125. *Cataneura absens.* (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 245.

3126. *Cataneura rileyi.* (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 245-246.

3127. *Catopamera augheyi.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 387. *Pl.* 27, *fig.* 7.**3128. *Catopamera bradleyi.*** (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 387-388. *Pl.* 26, *fig.* 12.**3129. *Catopsylla prima.*** (Psyllidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 277-278.

3130. *Cephalocoris pilosus.* (Lygæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 61-62. *Pl.* 4, *fig.* 16; *pl.* 9, *fig.* 7.1853-'56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 641-642. *Pl.* 42', *figs.* 16ab.1856. Giebel. *Insect. d. vorwelt.*, 355.1885. Scudder. *Zittel, Handb. palæont.*, i, th. ii: 785. *Fig.* 1000.1886. " *Zittel-Barrois, Traité de paléont.*, ii: 784. *Fig.* 1017.**3131. *Ceroopidium rugulosum.*** (Ceroopidæ.)

Locality: Atanekerdluk, Greenland. Horizon: Miocene.

1870. Heer. *Phil. trans.*, clix (*Flora foss. arct.*, ii): 485. *Pl.* 44, *figs.* 9b, 9bb.1883. " *Flora foss. grönl.*, ii: 148.**3132. *Cercopis* ———.** (Cercopidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 55.**3133. *Cercopis* ———.** (Cercopidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. *In litt.***3134. *Cercopis* ———.** (Cercopidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian.

1831. Goldfuss. *Verhandl. leop.-carol. akad. naturf.*, vii, abth. i: 118.**3135. *Cercopis* ———.** (Cercopidæ.)Compared with *C. gibba*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. *Uebers. schles. gesellsch. vaterl. cult.*, 1834: 93.

3136. *Cercopis* ———. (Cercopidæ.)Compared with *C. pini*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3137. *Cercopis* ———. (Cercopidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains. tert., 267.

3138. *Cercopis astricta*. (Cercopidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 318-319. *Pl. 7, fig. 15.***3139. *Cercopis aurata*. (Cercopidæ.)**Compared with *C. rubra*, Brazil.

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 314.

3140. *Cercopis charpentieri*. (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 101-103. *Pl. 12, fig. 1.*

1855. " Ber. oesterreich. litt., 1850-'53: 202.

1856. Giebel. Insect. d. vorwelt, 381-382.

See also *Hylotoma cineracea*.**3141. *Cercopis fasciata*. (Cercopidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 100-101. *Pl. 11, fig. 9 (not 10).*

1855. " Ber. oesterreich. litt., 1850-'53: 202.

1856. Giebel. Insect. d. vorwelt, 381.

1890. Scudder. Tert. ins. N. A., 333.

3142. *Cercopis germari*. (Cercopidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 393. *Fig. 305, on p. 391.*1872. " Monde prim. Suisse, 482. *Fig. 305, on p. 479.*1876. " Prim. world Switz., ii: 52. *Fig. 305, on p. 49.*1879. " Urwelt der Schweiz, 2^e aufl., 419. *Fig. 347, on p. 417.***3143. *Cercopis gigantea*. (Cercopidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 94-95. *Pl. 11, fig. 5.*

1855. " Ber. oesterreich. litt., 1850-'53: 202.

1856. Giebel. Insect. d. vorwelt, 380.

3144. *Cercopis glückseligi*. (Cercopidæ.)

Locality: Grasseth, Bohemia. Horizon: ———.

1857. Heer. Jokély, Jahrb. geol. reichsanst., viii: 502 (undescri.).

3145. *Cercopis hageni*. (Cercopidæ.)

Locality: Oeningen, Baden. Horizon: Fortonian.

1865. Heer. Urwelt der Schweiz, 393.
 1872. " Monde prim. Suisse, 482.
 1876. " Prim. world Switz., ii: 52.
 1879. " Urwelt der Schweiz, 2^e anfl., 419.

3146. *Cercopis haidingeri*. (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 95-96. *Pl. 11, fig. 6*.
 1855. " Ber. oesterreich. litt., 1850-'53: 202.
 1856. Giebel. Insect. d. vorwelt, 380.

See also *Locrites haidingeri*.**3147. *Cercopis herrichi*. (Cercopidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 393.
 1872. " Monde prim. Suisse, 482.
 1876. " Prim. world Switz., ii: 52.
 1879. " Urwelt der Schweiz, 2^e anfl., 419.

3148. *Cercopis lanceolata*. (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 104. *Pl. 12, fig. 3*.
 1855. " Ber. oesterreich. litt., 1850-'53: 202.
 1856. Giebel. Insect. d. vorwelt, 382.

3149. *Cercopis longicollis*. (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 103-104. *Pl. 12, fig. 2*.
 1855. " Ber. oesterreich. litt., 1850-'53: 202.
 1856. Giebel. Insect. d. vorwelt, 382.

3150. *Cercopis melæna*. (Cercopidæ.)Compared with *C. sanguinolenta*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 12. *Pl. 1, fig. 17*.
 1890. Scudder. Tert. ins. N. A., 333.

3151. *Cercopis œningensis*. (Cercopidæ.)

Locality: Oeningen, Baden. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 98-99. *Pl. 11, fig. 8* (not 9).
 1856. Giebel. Insect. d. vorwelt, 380-381.
 1890. Scudder. Tert. ins. N. A., 333.

3152. *Cercopis pallida*. (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 97-98. *Pl. 11, fig. 7* (not 8).
 1855. " Ber. oesterreich. litt., 1850-'53: 202.
 1856. Giebel. Insect. d. vorwelt, 380.
 1890. Scudder. Tert. ins. N. A., 333.

3153. *Cercopis rectelinea.* (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 99-100. *Pl. 11, fig. 10* (not 11).
 1855. " Ber. oesterreich. litt., 1850-'53: 202 (rectilinea).
 1856. Giebel. Insect. d. vorwelt, 381 (rectilinea).
 1890. Scudder. Tert. ins. N. A., 333.

Cercopis rectilinea.* See *Cercopis rectelinea.**3154. *Cercopis selwyni.* (Cercopidæ.)**

Locality: Nine-Mile Creek, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-'78: B 184-185.
 1879. " Ins. tert. Nicola, 9-10.
 1890. " Tert. ins. N. A., 318. *Pl. 2, figs. 14, 15.*

3155. *Cercopis suffocata.* (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 319. *Pl. 19, figs. 2, 3.*

3156. *Cercopis ungeri.* (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 96-97. (Heer quotes *pl. 11, fig. 7*, but this species is not figured at all.)
 1855. " Ber. oesterreich. litt., 1850-'53: 202.
 1856. Giebel. Insect. d. vorwelt, 380.

3157. *Cercopites calliscens.* (Cercopidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 317. *Pl. 6, fig. 32.*

3158. *Cercopites umbratilis.* (Cercopidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 316-317. *Pl. 7, fig. 9.*

3159. *Cholula triguttata.* (Lygæidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 389-390. *Pl. 7, fig. 21.*

3160. *Cicada* ———. (Stridulantia.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im bernstein, 37.

3161. *Cicada* ———. (Stridulantia.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 187.

3162. *Cicada* ———. (Stridulantia.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

3163. Cicada ——. (Stridulantia.)Compared with *C. plebeja*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 228.

3164. Cicada ——. (Stridulantia.)Compared with *C. violacea*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terr. tert., 228.

3165. Cicada aichhorni. (Stridulantia.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 89. *Pl. 11, fig. 2.*

1855. " Ber. oesterreich. litt., 1850-'53: 202.

1856. Giebel. Insect. d. vorwelt, 374.

3166. Cicada bifasciata. (Stridulantia.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 90. *Pl. 11, fig. 4.*

1855. " Ber. oesterreich. litt. 1850-'53: 202.

1856. Giebel. Insect. d. vorwelt, 374-375.

3167. Cicada emathion. (Stridulantia.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 88. *Pl. 11, fig. 1.*

1856. Giebel. Insect. d. vorwelt, 374.

1865. Heer. Urwelt der Schweiz, 393. *Fig. 304, on p. 391.*1872. " Monde prim. Suisse, 481. *Fig. 304, on p. 479.*1876. " Prim. world Switz., ii: 51. *Fig. 304, on p. 49.*1879. " Urwelt der Schweiz, 2^e Aufl., 418. *Fig. 346, on p. 417.***3168. Cicada ungeri.** (Stridulantia.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 89-90. *Pl. 11, fig. 3.*

1855. " Ber. oesterreich. litt., 1850-'53: 202.

1856. Giebel. Insect. d. vorwelt, 374.

3169. Cicadellites bruckmanni. (Jassides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 120. *Pl. 13, fig. 8.*

1856. Giebel. Insect. d. vorwelt, 387.

3170. Cicadellites nigriventris. (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 119-120. *Pl. 13, fig. 13.*

1855. " Ber. oesterreich. litt., 1850-'53: 203.

1856. Giebel. Insect. d. vorwelt, 387.

3171. Cicadellites oblongus. (Jassides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 120. *Pl. 13, fig. 9.*

1856. Giebel. Insect. d. vorwelt, 387.

3172. Cicadellites obscurus. (Jassides.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 39-40.

See also *Asira tertiaria*, etc.**3173. Cicadellites pallidus.** (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 119. Pl. 13, fig. 7.

1855. " Ber. oesterreich. litt., 1850-'53: 203.

1856. Giebel. Insect. d. vorwelt, 387.

3174. Cicadula saxosa. (Jassides.)Compared with *C. sexnotata*, United States.

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 310-311. Pl. 6, fig. 26.

3175. Cimex ———.

Locality: Unterkirchberg, Germany. Horizon: Miocene.

1849. Esch. Jahresh. ver. vaterl. naturk. Württ., iv: 265.

3176. Cimex ———.

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlotheim. Petrefactenk., 43.

3177. Cimex ———.

Locality: Prussian amber. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 241.

1830. Berendt. Insekten im bernstein, 37.

3178. Cimex ———.

Locality: Ulverston, England. Horizon: Pleistocene.

1862. Stainton. Bolton, Quart. journ. geol. soc. Lond., xviii, pt. i: 274-275.

1888. Bell. Entom., xxi: 2.

3179. Cixius ———. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3180. Cixius ——— (2 sp.). (Fulgoridæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3181. Cixius ———. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 19.

3182. Cixius fraternus. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 14-15.

3183. *Cixius gracilis*. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 16. *Pl. 1, fig. 25.*

3184. *Cixius?* *hesperidum*. (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 772-773.
1890. " Tert. ins. N. A., 287. *Pl. 6, fig. 19.*

3185. *Cixius insignis*. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 13-14. *Pl. 1, fig. 20.*

3186. *Cixius loculatus*. (Fulgoridæ.)Compared with *C. seriatus*, Brazil.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 15-16. *Pl. 1, fig. 24.*

3187. *Cixius longirostris*. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 15. *Pl. 1, fig. 22.*

3188. *Cixius?* *proavus*. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 287. *Pl. 19, fig. 14.*

3189. *Cixius sieboldtii*. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 14. *Pl. 1, fig. 21.*

3190. *Cixius succineus*. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 15. *Pl. 1, fig. 23.*

3191. *Cixius testudinarius*. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 13. *Pl. 1, fig. 19.*

3192. *Cixius vitreus*. (Fulgoridæ.)Compared with *C. nervosus*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 12-13. *Pl. 1, fig. 18.*

3193. Clastoptera comstocki. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 338. *Pl.* 19, *fig.* 22.**3194. Closterocoris elegans.** (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 363. *Pl.* 24, *fig.* 7.**3195. Coccus avitus.** (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 17.

3196. Coccus termitinus. (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 17.

3197. Cœlidia columbiana. (Jassides.)

Locality: Similkameen River, British Columbia. Horizon: ———

1879. Scudder. Rep. progr. geol. surv. Can., 1877-'78: 185B.

1879. " Ins. tert. Nicola, 10.

1890. " Tert. ins. N. A., 313. *Pl.* 2, *fig.* 13.**3198. Cœlidia wyomingensis.** (Jassides.)

Locality: Twin Creek, Wyo. Horizon: ———.

1890. Scudder. Tert. ins. N. A., 313-314. *Pl.* 4, *fig.* 8.**3199. Cophocoris tenebricosus.** (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 391.

3200. Coptochromus manium. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 405.

Coræus ———. See **Coreus** ———.**3201. Coreites crassus.** (Coreidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 56-57. *Pl.* 4, *fig.* 10.

1855. " Ber. oesterreich. litt., 1850-'53: 201.

1856. Giebel. *Insect. d. vorwelt, 352.

3202. Coreites oblongus. (Coreidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 57. *Pl.* 4, *fig.* 11.

1856. Giebel. Insect. d. vorwelt, 353.

3203. Coreites redemptus. (Coreidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 57-58. *Pl.* 4, *fig.* 12.

1856. Giebel. Insect. d. vorwelt, 353.

3204. Coreus ——. (Coreidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 227 (Coreus).

3205. Corimalæna ——. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 786.

1886. " Zittel-Barrois, Traité de paléont., ii: 786.

1886. " Bull. U. S. geol. surv., No. 31: 64.

Corisa fasciolata. See *Corixa fasciolata*.**3206. Corixa** ——. (Corixidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3207. Corixa fasciolata. (Corixidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 86-87 (*Corisa*). Pl. 10, fig. 12.1856. Giebel. Insect. d. vorwelt, 372 (*Corisa*).**3208. Corixa immersa.** (Corixidæ.)Compared with *C. hellensii* Sahlb., Europe.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 345-348. Pl. 22, fig. 16.

3209. Corixa pullus. (Corixidæ.)

Locality: Stösschen, Austria. Horizon: Miocene.

1859. Heyden. Palæontogr., viii: 10-11. Pl. 1, fig. 13.

3210. Corixa vanduzeei. (Corixidæ.)Compared with *C. interrupta* Say, United States; *C. præusta* Fieb., Europe.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 344-345. Pl. 22, fig. 17.

3211. Corizus ——. (Coreidæ.)Compared with *C. hyoseyami* Linn.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296.

1829. " Murchison-Lyell, Tert. form. Aix, 12.

3212. Corizus abditivus. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 433-434. Pl. 25, fig. 5; pl. 26, fig. 4.

3213. Corizus boyeri. (Coreidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 255. Pl. 19, figs. 3, 3*.

See also *Pachymerus boyeri*.

3214. *Corizus celatus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 433. *Pl. 27, fig. 15.***3215. *Corizus guttatus.* (Coreidæ.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 434-435. *Pl. 7, fig. 11.*See also *Reduvius guttatus.***3216. *Corizus somnurnus.* (Coreidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 434.

3217. *Cryptochromus letatus.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 409.

3218. *Ctereacoris primigenus.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 394-395.

3219. *Cydamus robustus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 420-421. *Pl. 26, fig. 3.***3220. *Cydnopsis atavina.* (Pentatomidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 18. *Pl. 1, fig. 9.*

1856. Giebel. Insect. d. vorwelt, 337.

3221. *Cydnopsis brevicollis.* (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 21-22. *Pl. 2, fig. 1; pl. 6, fig. 11.*

1855. " Ber. oesterreich. litt., 1850-'53: 200.

1866. Giebel. Insect. d. vorwelt, 338.

3222. *Cydnopsis coleopteroides.* (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 16-17. *Pl. 1, fig. 7; pl. 6, fig. 6.*

1855. " Ber. oesterreich. litt., 1850-'53: 199.

1856. Giebel. Insect. d. vorwelt, 337.

3223. *Cydnopsis deleta.* (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 17-18. *Pl. 1, fig. 8; pl. 6, fig. 7.*

1856. Giebel. Insect. d. vorwelt, 337.

3224. *Cydnopsis exilis*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 127. *Pl.* 15, *fig.* 7.
 1856. Giebel. Insect. d. vorwelt, 338.

3225. *Cydnopsis haidingeri*. (Pentatomidæ.)

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 15-16, 127. *Pl.* 1, *fig.* 6; *pl.* 6, *fig.* 5.
 1855. " Ber. oesterreich. litt., 1850-'53: 199.
 1856. Giebel. Insect. d. vorwelt, 336-337.

3226. *Cydnopsis heeri*. (Pentatomidæ.)

Locality: Aix, France. Horizon: Ligurian.

1877. Oustalet. Bull. soc. philom. Paris, (6), xi, 1874: 14-16.

3227. *Cydnopsis pygmæa*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 22. *Pl.* 2, *fig.* 2; *pl.* 6, *fig.* 12.
 1856. Giebel. Insect. d. vorwelt, 338.

3228. *Cydnopsis sagittifera*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 23. *Pl.* 2, *fig.* 3; *pl.* 6, *fig.* 13.
 1856. Giebel. Insect. d. vorwelt, 338-339.

3229. *Cydnopsis scutellaris*. (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 21. *Pl.* 1, *fig.* 13; *pl.* 6, *fig.* 10.
 1855. " Ber. oesterreich. litt., 1850-'53: 200.
 1856. Giebel. Insect. d. vorwelt, 338.

3230. *Cydnopsis tertiaria*. (Pentatomidæ.)

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 18-20. *Pl.* 1, *figs.* 10a-l; *pl.* 6, *fig.* 9.
 1855. " Ber. oesterreich. litt., 1850-'53: 199-200.
 1856. Giebel. Insect. d. vorwelt, 337-338.
 1853-'56. Bronn. *Lethæa géogn.*, 3^e aufl., iii: 643-644. *Pl.* 42', *fig.* 20ab.
 1865. Heer. *Urwelt der Schweiz*, 390. *Fig.* 300, on *p.* 391.
 1872. " *Monde prim. Suisse*, 479. *Fig.* 300.
 1876. " *Prim. world Switz.*, ii: 49. *Fig.* 300.
 1879. " *Urwelt der Schweiz*, 2^e aufl., 416. *Fig.* 342, on *p.* 417.

3231. *Cydnus* ———. (Pentatomidæ.)

Compared with *C. albomarginatus* Fabr.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. *Edinb. new phil. journ.*, vii: 296.
 1829. " *Murchison-Lyell, Tert. form. Aix*, 12.

3232. *Cydnus* ——— (19 sp.). (Pentatomidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. *In litt.*

3233. *Cydnus* (vic.) ———. (Pentatomidæ.)

- Locality: Rocky River, Sydney Flats, Australia. Horizon: ———.
 1870. Moore. Quart. journ. geol. soc. Loud., xxvi: 263. *Pl. 18, fig. 11.*

3234. *Cydnus costæ*. (Pentatomidæ.)

- Locality: Aix, France. Horizon: Ligurian.
 1847. Hope. Ann. acad. aspir. nat. Napoli, 1847: 6-7. *Pl. 10, fig. 4.*
 1847. " Deser. ins. foss., 6-7. *Pl., fig. 4.*

3235. *Cydnus?* *mamillanus*. (Pentatomidæ.)

- Locality: Green River, Wyo. Horizon: Oligocene.
 1878. Scudder. Bull. U. S. geol. surv. terr., iv: 770.
 See also *Procydnus mamillanus*.

3236. *Cydnus œningensis*. (Pentatomidæ.)

- Locality: Oeningen, Baden. Horizon: Tortonian.
 1853. Heer. Insektenf. tertiärg. Oeningen, iii: 12-13. *Pl. 1, fig. 5; pl. 6, fig. 4.*
 1856. Giebel. Insect. d. vorwelt, 336.
 1865. Heer. Urwelt der Schweiz, 359.
 1872. " Monde prim. Suisse, 441.
 1876. " Prim. world Switz., ii: 14.
 1879. " Urwelt der Schweiz, 2^e Aufl., 385.

3237. *Cyrtomenus concinnus*. (Pentatomidæ.)

Compared with *C. mutabilis* Perty.

- Locality: Green River, Wyo. Horizon: Oligocene.
 1878. Scudder. Bull. U. S. geol. surv. terr., iv: 769.
 1890. " Tert. ins. N. A., 451-452. *Pl. 7, fig. 14.*

3238. *Delphax* ———. (Fulgoridæ.)

Locality: ———. Horizon: ———.

1846. Giebel. Paläozool., 269.

3239. *Delphax senilis*. (Fulgoridæ.)

- Locality: White River, Colo. Horizon: Oligocene.
 1877. Scudder. Bull. U. S. geol. surv. terr., iii: 760.
 1890. " Tert. ins. N. A., 295. *Pl. 5, fig. 95.*

3240. *Deltocephalus* ———. (Jassides.)

- Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.
 1890. Foerster. In litt.

3241. *Diaplegma abductum*. (Fulgoridæ.)

- Locality: Florissant, Colo. Horizon: Oligocene.
 1890. Scudder. Tert. ins. N. A., 290-291. *Pl. 15, fig. 8.*

3242. *Diaplegma haldemani*. (Fulgoridæ.)

- Locality: Florissant, Colo. Horizon: Oligocene.
 1890. Scudder. Tert. ins. N. A., 289-290.

3243. *Diaplegma obdormitum*. (Fulgoridæ.)

- Locality: Green River, Wyo. Horizon: Oligocene.
 1890. Scudder. Tert. ins. N. A., 292.

3244. Diaplegma occultorum. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 291-292.

3245. Diaplegma ruinosum. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 292.

3246. Diaplegma venerabile. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 291.

3247. Diaplegma veterascens. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 290.

3248. Dichrooscytus ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3249. Dictyophara bouvei. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 286. *Pl. 21, fig. 16.***3250. Dictyophorites tingitinus.** (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 115-116. *Pl. 13, fig. 6.*

1855. " Ber. oesterreich. litt., 1850-53: 203.

1856. Giebel. Insect. d. vorwelt, 386.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 781. *Fig. 990.*1886. " Zittel-Barrois, Trait  de pal ont., ii: 781. *Fig. 1007.***3251. Diplonychus rotundatus.** (Nepidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 85-86. *Pl. 10, fig. 10.*

1856. Giebel. Insect. d. vorwelt, 371.

1865. Heer. Urwelt der Schweiz, 392.

1872. " Monde prin. Suisse, 481.

1876. " Prim. world Switz., ii: 51.

1879. " Urwelt der Schweiz, 2^e Aufl., 418.**3252. Discostoma** ———. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 452. *Pl. 22, fig. 6.***3253. Docimus psylloides.** (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 314-315. *Pl. 19, figs. 6, 17.***3254. Dorthesia** ———. (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 18.

3255. *Dysdercus cinctus*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 410. *Pl. 24, figs. 11, 13, 14.***3256. *Dysdercus unicolor*. (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 410.

3257. *Elidiptera regularis*. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 297. *Pl. 19, fig. 13.***3258. *Eothes elegans*. (Reduviidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 355-356. *Pl. 26, fig. 5.***3259. *Eotingis antennata*. (Tingididæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 360. *Pl. 23, figs. 1, 3.***3260. *Eotingis quinquecarinata*. (Tingididæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 359-360.

See also *Tingis quinquecarinata*.**3261. *Etiroooris infernalis*. (Coreidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 426. *Pl. 26, fig. 16.***3262. *Eucorites serescens*. (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 392.

3263. *Eurydema arcuata*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 36. *Pl. 2, fig. 15; pl. 7, fig. 9.*

1856. Giebel. Insect. d. vorwelt, 344-345.

3264. *Eurydema brevicollis*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 36-37. *Pl. 2, fig. 17; pl. 7, fig. 10.*

1856. Giebel. Insect. d. vorwelt, 345.

3265. *Eurydema effossa*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 37. *Pl. 2, fig. 16; pl. 7, fig. 11.*

1856. Giebel. Insect. d. vorwelt, 345.

3266. Eurydema impudica. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen., iii: 35-36, 127-128. *Pl. 3, fig. 1; pl. 7, fig. 8; pl. 14, fig. 21.*

1856. Giebel. Insect. d. vorwelt, 344.

3267. Eurygaster ———. (Pentatomidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3268. Eusarcoris. ——— (5 sp.). (Pentatomidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3269. Eusarcoris pinguis. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 38-39. *Pl. 3, fig. 4; pl. 8, fig. 2.*

1856. Giebel. Insect. d. vorwelt, 345-346.

3270. Eusarcoris prodromus. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 37-38. *Pl. 3, fig. 3; pl. 8, fig. 1.*

1856. Giebel. Insect. d. vorwelt, 345.

3271. Euschistus antiquus. (Pentatomidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1878. Scudder. Add. ins. fauna Quesn., 3-5.

1878. " Rep. progr. geol. surv. Can., 1876-'77: 459-461.

1878. " Rapp. opér. comm. géol. Can., 1876-'77: 516-518.

See also *Teleoschistus antiquus*.**3272. Evagoras impressus.** (Reduviidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 83-84. *Pl. 5, fig. 27; pl. 10, fig. 8.*

1856. Giebel. Insect. d. vorwelt, 368.

3273. Exitelus exsanguis. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 408. *Pl. 27, fig. 2.***3274. Ficarasites stigmaticus.** (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 301 (*stigmaticum*). *Pl. 6, fig. 20.***3275. Flata** ———. (Fulgoridæ.)Compared with *F. cunicularia*.

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 638.

1836. " Man. ent., 579.

3276. Flata ———. (Fulgoridæ.)Compared with *F. nervosa*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3277. Florissantia elegans. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 294. Pl. 19, fig. 12.

3278. Fulgora granulosa. (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 771-772.

1890. " Tert. ins. N. A., 284. Pl. 6, fig. 35.

3279. Fulgora obticescens. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 285. Pl. 19, fig. 1.

3280. Fulgora populata. (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 284-285. Pl. 7, fig. 16.

3281. Fuscus ? fæcatus. (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 365. Pl. 22, fig. 5.

3282. Geocoris inferorum. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 381. Pl. 23, figs. 17, 26.

3283. Gerancon davisii. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 248-249.

3284. Gerancon petrorum. (Aphides.)

Locality: Quesnel, British Columbia. Horizon: ———.

1890. Scudder. Tert. ins. N. A., 249-250. Pl. 2, fig. 6.

See also *Lachnus petrorum*.**3285. Gerris** ———. (Veliidæ.)Compared with *G. currens*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 228.

3286. Gypona cinercia. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 308. Pl. 19, fig. 4.

3287. Hadronema cinerescens. (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 370. Pl. 24, fig. 12.

3288. Halobates ———. (Hydrobatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3289. Halobates (or Hydrometra) ——— (larva). (Hydrobatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1853. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 19. *Pl. 2, figs. 7, 8.***3290. Halobates** ———. (Hydrobatidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 783.

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 783.

1886. " Bull. U. S. geol. surv., No. 31: 62.

See also *Metrobates æternalis*.**3291. Halys bruckmanni.** (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 32-35. *Pl. 3, fig. 2; pl. 7, fig. 7.*

1856. Giebel. Insect. d. vorwelt, 343-344

See also *Pentatoma bruckmanni*.**3292. Halys spectabilis.** (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig. 299, on p. 391.*1872. " Monde prim. Suisse. *Fig. 299, on p. 479.*1876. " Prim. world Switz., ii. *Fig. 299, on p. 49.*1879. " Urwelt der Schweiz, 2^e Aufl. *Fig. 341, on p. 417.***3293. Hammapteryx reticulata.** (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 298-299. *Pl. 6, fig. 34.***3294. Harmostites oeningensis.** (Coreidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 49-50. *pl. 4, fig. 4; pl. 9, fig. 1.*1853-'56. Bronn. *Lethæa geogn.*, 3^e Aufl., iii: 642-643. *Pl. 42', figs. 18ab.*

1856. Giebel. Insect. d. vorwelt, 350.

3295. Harpactor ———. (Reduviidæ.)

Locality: Brunstatt Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3296. Harpactor bruckmanni. (Reduviidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 82. *Pl. 5, fig. 24.*

1856. Giebel. Insect. d. vorwelt, 367.

3297. Harpactor constrictus. (Reduviidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 80-81. *Pl. 5, fig. 22; pl. 10, fig. 5.*

1856. Giebel. Insect. d. vorwelt, 366.

3298. Harpactor gracilis. (Reduviidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 81-82. *Pl. 5, fig. 23; pl. 10, fig. 6.*
 1855. " Ber. oesterreich. litt., 1850-'53: 201.
 1856. Giebel. Insect. d. vorwelt, 367.

3299. Harpactor longipes. (Reduviidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 78. *Pl. 5, fig. 20; pl. 10, fig. 3.*
 1856. Giebel. Insect. d. vorwelt, 366.

3300. Harpactor maculipes. (Reduviidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 79-80, 132. *Pl. 5, fig. 21; pl. 10, fig. 4; pl. 15, fig. 10.*
 1856. Giebel. Insect. d. vorwelt, 366.
 1865. Lyell. Elem. geol., 6th ed., 255. *Fig. 193.*
 1865. Heer. Urwelt der Schweiz. *Fig. 306, on p. 391.*
 1872. " Monde prim. Suisse. *Fig. 306, on p. 479.*
 1876. " Prim. world Switz., ii. *Fig. 306, on p. 49.*
 1879. " Urwelt der Schweiz, 2^e Aufl. *Fig. 348, on p. 417.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 784. *Fig. 997.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 783. *Fig. 1014.*

3301. Harpactor obsoletus. (Reduviidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 82. *Pl. 5, fig. 25.*
 1856. Giebel. Insect. d. vorwelt, 367.

3302. Harpocera ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3303. Heeria foeda. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 432.

3304. Heeria gulosa. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 431. *Pl. 27, figs. 5, 12, 18; pl. 28, fig. 17.*

3305. Heeria lapidosa. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 432. *Pl. 27, figs. 3, 19.*

3306. Heliothrips clypeata. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. ges. naturw., lx: 589-591. *Pl. 5, fig. 24.*

3307. Heliothrips cucullata. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. ges. naturw., lx: 582-586. *Pl. 5, figs. 21a-d, 22a, 22AB.*

3308. *Heliothrips frechi* (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. ges. naturw., lx: 591-592. Pl. 4, figs. 25, 25a.

3309. *Heliothrips longipes*. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. ges. naturw., lx: 586-589. Pl. 4, figs. 23, 23a.

3310. *Heterogaster* —— (2 sp.). (Lygæidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3311 *Heterogaster antiquus*. (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 65-69. Pl. 5, fig. 11; pl. 9, fig. 14.

1856. " Viert. naturf. gesellsch. Zürich, i: 39.

1856. Giebel. Insect. d. vorwelt, 359.

3312. *Heterogaster pumilio*. (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 69. Pl. 5, fig. 12; pl. 9, fig. 15.

1856. " Viert. naturf. gesellsch. Zürich, i: 39.

1856. Giebel. Insect. d. vorwelt, 359.

3313. *Heterogaster radobojanus*. (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 69-70. Pl. 5, fig. 13; pl. 9, fig. 16.

1855. " Ber. oesterreich. litt., 1850-'53: 201.

1856. Giebel. Insect. d. vorwelt, 359.

3314. *Heterogaster redivivus*. (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 71, 131. Pl. 5, fig. 15; pl. 14, fig. 17.

1855. " Ber. oesterreich. litt., 1850-'53: 201.

1856. Giebel. Insect. d. vorwelt, 360.

3315 *Heterogaster tristis*. (Lygæidæ.)Compared with *H. urticae* F.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 392.

1872. " Monde prim. Suisse, 480.

1876. " Prim. world Switz., ii: 50.

1879. " Urwelt der Schweiz, 2^e Aufl., 416.**3316. *Heterogaster troglodytes***. (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 70-71, 131. Pl. 5, fig. 14; pl. 9, fig. 17; pl. 14, fig. 18.

1855. " Ber. oesterreich. litt., 1850-'53: 201.

1856. Giebel. Insect. d. vorwelt, 360.

3317. Homodemus ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3318. Hoplomachus ——— (2 sp.). (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3319. Hydrometra ———. (Hydrobatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3320. Hydrometra ———. (Hydrobatidæ.)

Locality: Aix, France. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 640.

1836. " Man. ent., 581.

See also Ploiaria ———.

3321. Hydrometra ———. (Hydrobatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Dauzig, 1856: 20.

Hydrometra ———. See Halobates (or Hydrometra) ———.**3322. Hygrotrechus stâli.** (Hydrobatidæ.)

Locality: Similkameen River, British Columbia. Horizon: ———.

1879. Sudder. Rep. progr. geol. surv. Can., 1877-'78: B 183-184.

1879. " Ins. tert. Nicola, 8-9.

See also Telmatrechus stâli.

3323. Hylotoma cineracea. (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1843. Charpentier. Verhandl. leop.-carol. akad. naturf., xx: 409. Pl. 23, fig. 1.

1856. Giebel. Insect. d. vorwelt, 153.

See also Cercopis charpentieri.

3324. Hypselonotus lavateri. (Coreidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 50-51. Pl. 4, fig. 3; pl. 9, fig. 2.

1856. Giebel. Insect. d. vorwelt, 350.

3325. Jassopsis evidens. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 312. Pl. 19, fig. 16.

3326. Jassus ———. (Jassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3327. Jassus ———. (Jassides.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. " Handb. ent., i: 638.

1836. " Man. ent., 579.

3328. Jassus ———. (Jassides.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3329. Jassus ———. (Jassides.)

Compared with *J. atomarius*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3330. Jassus ———. (Jassides.)

Compared with *J. lineatus*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3331. Jassus ———. (Jassides.)

Compared with *J. unifasciatus*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3332. Jassus immersus. (Jassides.)

Compared with *J. subfuscus*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 8-9. *Pl. 1, fig. 11.*

3333. Jassus ? latebræ. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 308. *Pl. 20, fig. 19.*

3334. Jassus spinicornis. (Jassides.)

Compared with *J. fumipennis*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 9. *Pl. 1, fig. 12.*

3335. Lachnus ———. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3336. Lachnus ? ———. (Aphides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1883. Buckton. Monogr. Brit. aphid., iv. *Pl. 132, fig. 11* (= Heer's figure 5a).

See also *Aphis morloti*.

3337. *Lachnus bonneti*. (Aphides.)

Locality: (Oeningen?). Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 124-125. *Pl. 15, fig. 1.*
 1856. Giebel. Insect. d. vorwelt, 390.
 1883. Buckton. Monogr. Brit. aphid., iv: 170. *Pl. 132, fig. 3.*

3338. *Lachnus cimicoides*. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 5-6. *Pl. 1, fig. 6.*
 1883. Buckton. Monogr. Brit. aphid., iv: 167 (Aphis in expl. pl.). *Pl. 131, fig. 8.*

3339. *Lachnus dryoides*. (Aphides.)

Compared with *L. quercus*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 4-5. *Pl. 1, fig. 4.*
 1883. Buckton. Monogr. Brit. aphid., iv: 166-167. *Pl. 131, figs. 6-7.*

3340. *Lachnus glandulosus*. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 19.

3341. *Lachnus longulus*. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 5. *Pl. 1, fig. 5.*
 1883. Buckton. Monogr. Brit. aphid., iv: 167. *Pl. 131, fig. 9.*

3342. *Lachnus pectorosus*. (Aphides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 123-124. *Pl. 15, fig. 2.*
 1855. " Ber. oesterreich. litt., 1850-'53: 203.
 1856. Giebel. Insect. d. vorwelt, 390.
 1883. Buckton. Monogr. Brit. aphid., iv: 171-172. *Pl. 132, fig. 8.*

3343. *Lachnus petrorum*. (Aphides.)

Compared with *L. pini* (Linn.).

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. progr. geol. surv. Can., 1875-'76: 279.
 1877. " Ins. tert. Quesn., 14.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 309-310.
 See also *Gerancon petrorum*.

3344. *Lachnus quesneli*. (Aphides.)

Locality: Quesnel, British Columbia. Horizon: ———.

1878. Scudder. Add. ins. fauna Quesn., 5-6.
 1878. " Rep. progr. geol. surv. Can., 1876-'77: 461-462.
 1878. " Rapp. opér. comm. géol. Can., 1876-'77: 518-519.
 See also *Sbenaphis quesneli*.

3345. *Ledophora producta.* (Jassides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 116-117. *Pl. 12, fig. 12.*
 1853-56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 641. *Pl. 42, figs. 15a-d.*
 1856. Giebel. *Insect. d. vorwelt*, 386-387.

3346. *Leptoscelis humata.* (Coreidæ.)Compared with *Pyrrhocoris kœnigi* Fabr.

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Heyden. *Palæontogr.*, v: 117-119. *Pl. 23, fig. 16.*

Ligæus mutilus. See *Lygeus mutilus.***3347. *Ligyrocoris exsuctus.* (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 385. *Pl. 24, fig. 5.*

3348. *Limnaxis succini.* (Hydrobatidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 19. *Pl. 3, fig. 18.*

3349. *Limnobates prodromus.* (Limnobatidæ.)Compared with *L. stagnorum* L., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 392.
 1872. " *Monde prim. Suisse*, 481.
 1876. " *Prim. world Switz.*, ii: 51.
 1879. " *Urwelt der Schweiz*, 2^e aufl., 418.

3350. *Limnochares antiquus.* (Galgulidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. *Palæontogr.*, x: 63. *Pl. 10, figs. 27-29.*
 1878. Bertkau. *Verhandl. naturh. ver. preuss. Rheinl.*, 1878: 346-347, anm.
 1885. " *Sitzungsb. niederrh. gesellsch. natur- u. heilk.*, 1885: 298-299.
 1890. Scudder. *Tert. ins. N. A.*, 347.

3351. *Linnæa abolita.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 398.

3352. *Linnæa carcerata.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 398-399. *Pl. 23, fig. 2.*

3353. *Linnæa evoluta.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 399. *Pl. 23, fig. 21.*

3354. *Linnæa gravida.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 399. *Pl. 23, fig. 19.*

3355. *Linnæa holmesii*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 397. *Pl. 23, fig. 10.***3356. *Linnæa putnami*. (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 397-398. *Pl. 23, fig. 4.***3357. *Lithadothrips vetusta*. (Physapodes.)**

Locality: White River, Utah. Horizon: Oligocene.

1875. Scudder. Bull. U. S. geol. surv. terr., i: 222.

1875. " Tert. Phys. Col., 2.

1877. " Bull. U. S. geol. surv. terr., iii: 761.

1890. " Tert. ins. N. A., 372. *Pl. 5, figs. 88, 89, 102, 103.***3358. *Lithaphis diruta*. (Aphides.)**

Localities: Florissant, Colo.; Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 258.

3359. *Lithecephora diaphana*. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 330-331. *Pl. 21, fig. 13.***3360. *Lithecephora murata*. (Cercopidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 331. *Pl. 21, figs. 3, 8.***3361. *Lithecephora setigera*. (Cercopidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 330. *Pl. 20, fig. 22.***3362. *Lithecephora unicolor*. (Cercopidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 331. *Pl. 21, figs. 4, 5, 11, 14.***3363. *Lithochromus extraneus*. (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 404. *Pl. 26, fig. 6.***3364. *Lithochromus gardneri*. (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 403. *Pl. 26, fig. 10; pl. 27, fig. 8.***3365. *Lithochromus mortuarius*. (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 404. *Pl. 26, fig. 2.***3366. *Lithochromus obstrictus*. (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 403-404.

3367 *Lithocoris evulsus*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 391.

3368. *Lithopsis elongata*. (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 301. *Pl. 6, fig. 28.***3369 *Lithopsis fimbriata*.** (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 774.

1885. " Zittel, Handb. palæont., i, th. ii: 781. *Fig. 989.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 781. *Fig. 1006.*1890. " Tert. ins. N. A., 300. *Pl. 6, figs. 36, 37.***3370. *Locrites copei*.** (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 323-324. *Pl. 21, fig. 19***3371. *Locrites haidingeri*.** (Cercopidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1890. Scudder. Tert. ins. N. A., 323.

See also *Cercopis haidingeri*.**3372. *Locrites whitei*.** (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene

1890. Scudder. Tert. ins. N. A., 324. *Pl. 21, fig. 17.***3373. *Lopus* ———.** (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3374. *Lyctocoris terreus*. (Acanthidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 361. *Pl. 7, fig. 20.*See also *Rhyparochromus terreus*.**3375. *Lygæites acutus*.** (Lygæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 131-132. *Pl. 14, fig. 15.*

1856. Giebel. Insect. d. vorwelt, 361.

3376. *Lygæites lividus*. (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 131. *Pl. 14, fig. 14.*

1855. " Ber. oesterreich. litt., 1850-53: 201.

1856. Giebel. Insect. d. vorwelt, 361.

3377. *Lygæites obsoletus*. (Lygæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 72. *Pl. 14, fig. 12.*

1856. Giebel. Insect. d. vorwelt, 361.

3378. *Lygæites ovalis.* (Lygæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 71-72. *Pl. 14, fig. 11.*
 1856. Giebel. Insect. d. vorwelt, 360-361.

3379. *Lygæites pusillus.* (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 72-73. *Pl. 14, fig. 13.*
 1856. Giebel. Insect. d. vorwelt, 361.

3380. *Lygæus* ———. (Lygæidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3381. *Lygæus* ———. (Lygæidæ.)Compared with *L. abietis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296.
 1829. " Murchison-Lyell, Tert. form. Aix, 12.

3382. *Lygæus* ——— (2 sp.). (Lygæidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3383. *Lygæus* ———. (Lygæidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3384. *Lygæus* ———. (Lygæidæ.)Compared with *L. compressicornis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 227.

3385. *Lygæus* ———. (Lygæidæ.)Compared with *L. errans*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 227.

3386. *Lygæus* ———. (Lygæidæ.)Compared with *L. melanocephalus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 227.

3387. *Lygæus* ———. (Lygæidæ.)Compared with *L. punctum*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 227.

3388. *Lygæus atavinus*. (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 60-61. *Pl. 4, fig. 14; pl. 9, fig. 6.*
 1856. Giebel. Insect. d. vorwelt, 355 (*atavinus*).

Lygæus attavinus. See *Lygæus atavinus*.

3389. *Lygæus dasypus*. (Lygæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 128-129. *Pl. 15, fig. 8.*
 1856. Giebel. Insect. d. vorwelt, 354-355.

3390. *Lygæus delle-chiaje*. (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Descr. ins. foss., 6. *Pl., fig. 3.*

3391. *Lygæus deprehensus*. (Lygæidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 16. *Pl. 3, fig. 8.*
 1860. " Hassenc., Würzb. naturw. zeitschr., i: 79.

3392. *Lygæus deucalionis*. (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 59-60. *Pl. 4, fig. 15; pl. 9, fig. 5.*
 1855. " Ber. oesterreich. litt., 1850-'53: 201.
 1856. Giebel. Insect. d. vorwelt, 354.

3393. *Lygæus fæculentus*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 377.

3394. *Lygæus fossitius*. (Lygæidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Heyden. Palaeontogr., v: 119. *Pl. 23, fig. 17.*

3395. *Lygæus mutilus*. (Lygæidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. akad. wiss. Wien, lxxvi: 81 (*Ligæus*). *Pl. 2, fig. 6.*
 1877. " Faun. egerer tertiärb., 11 (*Ligæus*). *Pl. 2, fig. 6.*
 1890. Scudder. Tert. ins. N. A., 376 (not a *Lygæus*).

3396. *Lygæus obsolescens*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 377. *Pl. 24, fig. 15.*

3397. *Lygæus stabilitus*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 376-377. *Pl. 23, fig. 10; pl. 24, fig. 16.*

3398. *Lygæus tinctus*. (Lygæidæ.)Compared with *L. venustus* Böb., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 58-59. *Pl. 4, fig. 13; pl. 9, fig. 4.*
1856. Giebel. Insect. d. vorwelt, 354.
1865. Heer. Urwelt der Schweiz, 362, 391. *Fig. 301, on p. 391*
1872. " Monde prim. Suisse, 444, 480. *Fig. 301, on p. 479.*
1876. " Prim. world Switz., ii: 16, 50. *Fig. 301, on p. 49.*
1879. " Urwelt der Schweiz, 2^e aufl., 388, 416. *Fig. 343, on p. 417.*

3399. *Lygæus ventralis*. (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 129-130. *Pl. 15, fig. 9.*
1855. " Ber. oesterreich. litt., 1850-53: 201.
1856. Giebel. Insect. d. vorwelt, 355.

3400. *Lygus* ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3401. *Lystra ? leei*. (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 283-284. *Pl. 7, fig. 2.*

3402. *Lystra ? richardsoni*. (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 772.
1890. " Tert. ins. N. A., 283. *Pl. 6, figs. 24, 30, 31; pl. 7, figs. 1, 3.*

3403. *Mataeschistus limigenus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 460.

3404. *Mecocephala* ———. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 464. *Pl. 28, fig. 6.*

3405. *Melanothrips extincta*. (Physapodes.)

Locality: White River, Colo. Horizon: Oligocene.

1875. Scudder. Bull. U. S. geol. surv. terr., i: 221.
1875. " Tert. Phys. Colo., 1.
1877. " Bull. U. S. geol. surv. terr., iii: 761.
1890. " Tert. ins. N. A., 371. *Pl. 5, figs. 90, 91.*

3406. *Membracites cristatus*. (Jassides.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 93. *Pl. 13, fig. 12.*
1856. Giebel. Insect. d. vorwelt, 378.

3407 *Metrobates æternalis*. (Hydrobatidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 353-354. Pl. 22, fig. 15.

See also *Halobates* — Scudder.**3408** *Micropus* —. (Lygæidæ.)

Locality: Stösschen, Austria. Horizon: Miocene.

1859. Heyden. Palæontogr., viii. 11. Pl. 1, fig. 15.

3409 *Miris* —. (Capsidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new. phil. journ., vii: 296.

1829. " Murchison-Lyell, Tert. form. Aix, 12.

3410 *Miris* —. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3411 *Miris* —. (Capsidæ.)Compared with *M. campestris*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3412 *Miris* —. (Capsidæ.)Compared with *M. populi*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3413 *Miris* —. (Capsidæ.)Compared with *M. rufipennis*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3414 *Miris* —. (Capsidæ.)Compared with *M. tanaceti*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

3415 *Mnemosyne terrentula*. (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 773.

See also *Oliarites terrentulus*.**3416** *Monanthia flexuosa*. (Tingididæ.)Compared with *M. quadrimaculata* Wolff, and *M. wolfii* Fieb., Europe.

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. akad. wiss. Wien, lxxvi: 79-80. Pl. 2, figs. 8-11.

1877. " Fann. egerer tertiärb., 9-10. Pl. 2, figs. 8-11.

1890. Scudder. Tert. ins. N. A., 358.

3417. *Monanthia veterna.* (Tingididæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 359. *Pl.* 23, *figs.* 5, 9.**3418. *Monanthia wollastoni.*** (Tingididæ.)Compared with *M. convergens* Klug.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 392 (in *fig.* as *Tingis wollastoni*).

1872. " Monde prim. Suisse, 480 (as above).

1876. " Prim. world Switz., ii: 50 (as above).

1879. " Urwelt der Schweiz, 2^e Aufl., 417 (as above).

1890. Scudder. Tert. ins. N. A., 358.

See also *Tingis wollastoni*.**3419. *Monophlebus* ———.** (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

See also III, NEUROPTERA, *Acreagris crenata*.**3420. *Monophlebus irregularis.*** (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 4. *Pl.* 1, *fig.* 3.

1856. Menge. Progr. petrishule Danzig, 1856: 18 (undeser.).

3421. *Monophlebus pinnatus.* (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 3. *Pl.* 1, *fig.* 1.

1856. Menge. Progr. petrishule Danzig, 1856: 18.

3422. *Monophlebus simplex.* (Coccidæ.)Compared with *M. pinnatus*, Amber.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 242.

3423. *Monophlebus trivenosus.* (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 3-4. *Pl.* 1, *fig.* 2.**3424. *Nabis* ———.** (Nabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3425. *Nabis gracillima.* (Nabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig.* 308, on p. 391.1872. " Monde prim. Suisse. *Fig.* 308, on p. 479.1876. " Prim. world Switz., ii. *Fig.* 308, on p. 49.1879. " Urwelt der Schweiz, 2^e Aufl. *Fig.* 350, on p. 417.

3426. *Nabis livida*. (Nabidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 76. *Pl. 5, fig. 18.*
 1855. " Ber. oesterreich. litt., 1850-'53: 201.
 1856. Giebel. Insect. d. vorwelt, 365.

3427. *Nabis lucida*. (Nabidæ.)

Compared with *N. vagans*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 21. *Pl. 2, fig. 10.*

3428. *Nabis maculata*. (Nabidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 76-78. *Pl. 5, fig. 19; pl. 10, fig. 1.*
 1855. " Ber. oesterreich. litt., 1850-'53: 201.
 1856. Giebel. Insect. d. vorwelt, 365.

3429. *Nabis prototypa*. (Nabidæ.)

Locality: Prussiau amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 20 (undescri.).
 See also Reduvius ——— Germ.-Ber.

3430. *Nabis vagabunda*. (Nabidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 75-76. *Pl. 5, fig. 17; pl. 10, fig. 2.*
 1855. " Ber. oesterreich. litt., 1850-'53: 201.
 1856. Giebel. Insect. d. vorwelt, 364-365.

3431. *Naucoris dilatatus*. (Naucoridæ.)

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 86. *Pl. 10, fig. 11.*
 1856. Giebel. Insect. d. vorwelt, 372.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 783. *Fig. 995.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 782. *Fig. 1012.*

3432. *Necrochromus cockerelli*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 407. *Pl. 27, fig. 10.*

3433. *Necrochromus labatus*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 407. *Pl. 27, fig. 14.*

3434. *Necrochromus saxificus*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 407-408.

3435. *Necrocydnus amyzonus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 446-447. *Pl. 28, fig. 16.***3436. *Necrocydnus gosiutensis*. (Pentatomidæ.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 445. *Pl. 7, fig. 22.***3437. *Necrocydnus revector*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 448.

3438. *Necrocydnus senior*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 447.

3439. *Necrocydnus solidatus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 447. *Pl. 28, fig. 13.***3440. *Necrocydnus stygius*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 446.

3441. *Necrocydnus torpens*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 445-446.

3442. *Necrocydnus vulcanius*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 444-445.

3443. *Necropsylla rigida*. (Psyllidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 276-277. *Pl. 12, figs. 11, 21.*See also III, NEUROPTERA, *Necropsocus* ———.**3444. *Necygonus rotundatus*. (Galgulidæ.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 348. *Pl. 7, fig. 8.***3445. *Nepa* ———. (Nepidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. *Insekten im bernstein*, 36.**3446. *Nepa* ———. (Nepidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1834. Keferstein. *Naturg. erdkörp.*, ii: 340.

3447 Nepa — (Nepidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. ent., iii: 61.

3448. Nepa — (Nepidæ.)Compared with *N. cinerea*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 228.

3449 Nepa atavina. (Nepidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 85. Pl. 10, fig. 9.

1856. Giebel. Insect. d. vorwelt, 370 (*attavina*).**Nepa attavina.** See *Nepa atavina*.**3450. Neurocoris elongatus.** (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 25. Pl. 2, fig. 5; pl. 6, fig. 15.

1855. " Ber. oesterreich. litt., 1850-'53: 200.

1856. Giebel. Insect. d. vorwelt, 339.

3451. Neurocoris rotundatus. (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 24-25. Pl. 2, fig. 4; pl. 6, fig. 14.

1853-'56. Bronn. Lethæa geogn., 3^e Aufl., iii: 643. Pl. 42', fig. 19.

1855. Heer. Ber. oesterreich. litt., 1850-'53: 200.

1856. Geibel. Insect. d. vorwelt, 339.

1855. Scudder. Zittel, Handb. palæont., i, th. ii: 786. Fig. 1004.

1886. " Zittel-Barrois, Traité de paléont., ii: 786 Fig. 1021.

3452. Notonecta — (Notonectidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 252.

3453. Notonecta — (Notonectidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. ent., iii: 61.

3454. Notonecta — (Notonectidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 782.

1886. " Zittel-Barrois, Traité de paléont., ii: 782.

1886. " Bull. U. S. geol. surv., No. 31: 61.

See also the following.

3455. Notonecta emersoni. (Notonectidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ms. N. A., 346-347. Pl. 22, fig. 11.

See also the preceding.

3456 Notonecta heydeni. (Notonectidæ.)Compared with *N. glauca*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 36-38. Pl. 21, figs. 16-18.

1881. " Verhandl. leop.-carol. akad. naturf., xlii: 328-330. Pl. 21, figs. 16-18.

3457 Notonecta primæva. (Notonectidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 11. Pl. 2, fig. 12.

3458. Nyctophylax uhleri. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 279-280. Pl. 19, fig. 11.

3459 Nyctophylax vigil. (Fulgoridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 280. Pl. 19, fig. 8.

3460. Nysius stratus. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 330. Pl. 23, figs. 14, 27; pl. 25, figs. 2, 8.

3461. Nysius terræ. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 379. Pl. 23, fig. 31.

3462. Nysius tritus. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 379. Pl. 23, fig. 20.

3463. Nysius vecula. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 378. Pl. 22, fig. 7.

3464. Nysius vinctus. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 378.

3465. Ochyrocoris electrina. (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 17-18.

3466. Oliarites terrentulus. (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 293 (terrentula). Pl. 7, fig. 17.

See also *Mnemosyne terrentula*.**3467 Oliarus? lutensis** (Fulgoridæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 288. Pl. 7, fig. 18.

3468. *Oncotylus* ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3469. *Orthops* ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3470. *Orthriocorisa longipes*. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1899. Scudder. Tert. ins. N. A., 430. *Pl.* 26, *fig.* 1.**3471. *Oryctaphis leaeurii*. (Aphides.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 267.

3472. *Oryctaphis recondita*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 266-267. *Pl.* 18, *fig.* 14.**3473. *Pachycoris burmeisteri*. (Pentatomidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig.* 298, on *p.* 391.1872. " Monde prim. Suisse. *Fig.* 298, on *p.* 479.1876. " Prim. world Switz., ii. *Fig.* 298, on *p.* 49.1879. " Urwelt der Schweiz, 2^e auf. *Fig.* 340, on *p.* 417.**3474. *Pachycoris escheri*. (Pentatomidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 10-11. *Pl.* 1, *fig.* 2; *pl.* 6, *fig.* 2.

1856. Giebel. Insect. d. vorwelt, 334.

3475. *Pachycoris germari*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 9-10. *Pl.* 1, *fig.* 1; *pl.* 6, *fig.* 1.

1856. Giebel. Insect. d. vorwelt, 334.

3476. *Pachycoris protogæus*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 126. *Pl.* 14, *fig.* 20.

1856. Giebel. Insect. d. vorwelt, 335 (protogæus).

Pachycoris protogæus*. See *Pachycoris protogæus*.*3477. *Pachymerus* ———. (Lygæidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., 1: 55.

3478. Pachymerus ——— (4 sp.). (Lygæidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3479. Pachymerus antiquus. (Lygæidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 16-17. *Pl. 3, fig. 9.*

1860. " Hassenc., Würzb. naturw. zeitschr., i: 79.

3480. Pachymerus bisignatus. (Lygæidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 63-64. *Pl. 5, fig. 2; pl. 9, fig. 9.*

1855. " Ber. oesterreich. litt., 1850-'53: 201.

1856. Giebel. Insect. d. vorwelt, 356.

Pachymerus bojeri. See *Pachymerus boyeri*.**3481. Pachymerus boyeri.** (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 64-65 (bojeri). *Pl. 5, fig. 1; pl. 9, fig. 10.*

1856. " Viert. naturf. gesellsch. Zürich, i: 38 (bojeri).

1856. Giebel. Insect. d. vorwelt, 357 (bojeri).

See also *Corizus boyeri*.**3482. Pachymerus coloratus.** (Lygæidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 30. *Pl. 3, fig. 15.***3483. Pachymerus cruciatus.** (Lygæidæ.)Compared with *P. luscus* H.-S., *P. bactris*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1861. Heer. Rech. climat pays tert., 203 (undeser.).

1865. " Urwelt der Schweiz, 391.

1872. " Monde prim. Suisse, 480.

1876. " Prim. world Switz., ii: 50.

1879. " Urwelt der Schweiz, 2^e Aufl., 416.**3484. Pachymerus dryadum.** (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 65. *Pl. 5, fig. 4.*

1856. " Viert. naturf. gesellsch. Zürich, i: 38.

1856. Giebel. Insect. d. vorwelt, 357.

3485. Pachymerus fasciatus. (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 67. *Pl. 5, fig. 7; pl. 9, fig. 12.*

1856. " Viert. naturf. gesellsch. Zürich, i: 38.

1856. Giebel. Insect. d. vorwelt, 358.

1890. Scudder. Tert. ins. N. A., 397.

3486. Pachymerus heeri. (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 357.

3487. Pachymerus morio. (Lygæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 130. *Pl.* 14, *fig.* 16.

1856. Giebel. Insect. d. vorwelt, 358.

3488. Pachymerus murchisoni. (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 62-63. *Pl.* 4, *fig.* 17; *pl.* 9, *fig.* 8.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 38.

1856. Giebel. Insect. d. vorwelt, 356.

3489. Pachymerus oblongus. (Lygæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 67-68. *Pl.* 5, *fig.* 3; *pl.* 9, *fig.* 13.

1856. Giebel. Insect. d. vorwelt, 358.

3490. Pachymerus obsoletus. (Lygæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 66. *Pl.* 5, *fig.* 5.

1856. Giebel. Insect. d. vorwelt, 357.

3491. Pachymerus petrensis. (Lygæidæ.)

Locality: White River, Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 761.

1890. " Tert. ins. N. A., 401. *Pl.* 5, *figs.* 70, 71.**3492. Pachymerus pulchellus.** (Lygæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 66-67. *Pl.* 5, *fig.* 6; *pl.* 9, *fig.* 11.

1856. " Viert. naturf. gesellsch. Zürich, i: 38.

1856. Giebel. Insect. d. vorwelt, 358.

1890. Scudder. Tert. ins. N. A., 397.

3493. Pachymerus senius. (Lygæidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 30. *pl.* 3, *fig.* 14.**3494. Palæocoris spectabilis.** (Coreidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 46-47. *Pl.* 4, *fig.* 1; *pl.* 8, *fig.* 11.1853-56. Broun. Lethæa geogn., 3^r anfl., iii: 643. *Pl.* 42^r, *fig.* 21.

1855. Heer. Ber. oesterreich. litt., 1850-53: 201.

1856. Giebel. Insect. d. vorwelt, 348.

3495. Palæothrips fossilis. (Physapodes.)

Locality: White River, Utah. Horizon: Oligocene.

1867. Scudder. Proc. Bost. soc. nat. hist., xi: 117.
 1868. " Geol. mag., v: 221.
 1873. Oustalet. Bull. soc. philom. Paris, x: 27.
 1875. Scudder. Bull. U. S. geol. surv. terr., i: 222-223.
 1875. " Tert. Phys. Colo., 2-3.
 1877. " Bull. U. S. geol. surv. terr., iii: 761.
 1885. " Zittel, Handb. palaeont., i, th. ii: 784. Fig. 999.
 1886. " Zittel-Barrois, Traité de paléout., ii: 784. Fig. 1016.
 1890. Lesley. Dict. foss. Penns., ii: 590. Fig.
 1890. Scudder. Tert. ins. N. A., 373-374. Pl. 5, figs. 104, 105, 115.

3496. Palæovelia spinosa. (Veliidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 349. Pl. 22, fig. 13.

3497. Palaphrodes cincta. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 334-335. Pl. 20, fig. 16; pl. 21, fig. 15.

3498. Palaphrodes irregularis. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 335-336. Pl. 20, figs. 2, 18; pl. 21, figs. 6, 7.

3499. Palaphrodes obliqua. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1870. Scudder. Tert. ins. N. A., 336. Pl. 21, fig. 10.

3500. Palaphrodes obscura. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 335. Pl. 21, fig. 18.

3501. Palaphrodes transversa. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 336-337.

3502. Palecphora communis. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 328. Pl. 20, figs. 3, 20, 21.

3503. Palecphora inornata. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 329. Pl. 20, fig. 15.

3504. Palecphora maculata. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 326-327. Pl. 20, figs. 10, 17.

3505. Palecphora marvinei. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 327-328. Pl. 20, figs. 11-13; pl. 21, figs. 9, 12.

3506. *Palecphora patefacta.* (Cercopidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 327. *Pl. 7, fig. 7.***3507. *Palecphora prævalens.*** (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 329. *Pl. 20, fig. 1; pl. 21, fig. 2.***3508. *Parodarmistus abscissus.*** (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 422.

3509. *Parodarmistus caducus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 422.

3510. *Parodarmistus collisus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 422-423. *Pl. 25, fig. 13.***3511. *Parodarmistus defectus.*** (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 423.

3512. *Parodarmistus exanimatus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 423-424.

3513. *Parodarmistus inhibitus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 424.

3514. *Pediopsis* ———. (Jassides.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3515. *Pemphigus bursifex.* (Aphides.)Compared with *P. bursarius* L., Europe.

Locality: (Oeningen?, Baden.) Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 125. *Pl. 15, fig. 6.*

1856. Giebel. Insect. d. vorwelt, 390.

1865. Heer. Urwelt der Schweiz, 389.

1872. " Monde prim. Suisse, 477.

1876. " Prim. world Switz., ii: 47.

1879. " Urwelt der Schweiz, 2^e Aufl., 414.1883. Buckton. Monogr. Brit. aphid., iv: 172-173. *Pl. 132, figs. 12a, 12b.***3516. *Pentatoma?* ———.** (Pentatomidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296.

1829. " Murchison-Lyell, Tert. form. Aix, 12.

3517. *Pentatoma* ——— (4 sp.). (Pentatomidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3518. *Pentatoma* ———. (Pentatomidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1829. Serres. Géogn. terrains tert., 241.

3519. *Pentatoma* ———. (Pentatomidæ.)Compared with *P. grisea*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 227, 271 (on p. 271 called *P. grisea*). *Pl.* 4, *figs.* 5, 6.**3520. *Pentatoma* ———. (Pentatomidæ.)**Compared with *P. oleracea*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 227.

3521. *Pentatoma antiquum*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 26-27. *Pl.* 2, *fig.* 7; *pl.* 7, *fig.* 1.

1856. Giebel. Insect. d. vorwelt, 340-341.

3522. *Pentatoma appendiculatum*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 29. *Pl.* 2, *fig.* 11; *pl.* 7, *fig.* 4.

1856. Giebel. Insect. d. vorwelt, 341.

3523. *Pentatoma böttgeri*. (Pentatomidæ.)Compared with *P. rufipes*.

Locality: Salzhausen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 34. *Pl.* 9, *fig.* 22.**3524. *Pentatoma boreale*. (Pentatomidæ.)**

Locality: Atanekerdluk, North Greenland. Horizon: Miocene.

1868. Heer. Flora foss. arct., i: 130. *Pl.* 19, *figs.* 15, 15*b*.

1883. " Flora foss. Grönl., ii: 148.

3525. *Pentatoma bruckmanni*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1851. Stizenberger. Uebers. verstein. Baden, 95 (as of Heer; name only. By mistake for some other name, perhaps *Halys bruckmanni*).***Pentatoma grisea*. See *Pentatoma* ——— Serres.****3526. *Pentatoma lividum*. (Pentatomidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1851. Heer. Insektenf. tertiärg. Oeningen, iii: 30-31. *Pl.* 2, *fig.* 13; *pl.* 7, *fig.* 6.

1855. " Ber. oesterreich. litt., 1850-53: 200.

1856. Giebel. Insect. d. vorwelt, 342.

3527. *Pentatoma longiceps.* (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 29-30. *Pl. 2, fig. 12; pl. 7, fig. 5.*

1856. Giebel. Insect. d. vorwelt, 342.

3528. *Pentatoma morloti.* (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 28-29. *Pl. 2, fig. 10; pl. 7, fig. 3.*

1855. " Ber. oesterreich. litt., 1850-'53: 200.

1856. Giebel. Insect. d. vorwelt, 341.

3529. *Pentatoma obsoletum.* (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Mitth. naturf. gesellsch. Zürich, iii: 191.

1853. " Rhynehoten tertiärz., 23.

See also *Elia obsoleta.***3530. *Pentatoma pictum.* (Pentatomidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig. 309 on p. 391.*1872. " Monde prim. Suisse. *Fig. 309 on p. 479.*1876. " Prim. world Switz., ii. *Fig. 309 on p. 49.*1879. " Urwelt der Schweiz, 2^e Aufl. *Fig. 351 on p. 417.***3531. *Pentatoma schaurothi.* (Pentatomidæ.)**Compared with *P. dissimile*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. gesellsch. naturw., xx: 313-314.

3532. *Pentatoma stigmatum* (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 31-32. *Pl. 2, fig. 14.*

1856. Giebel. Insect. d. vorwelt, 342.

3533. *Pentatoma vetustum.* (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 27-28. *Pl. 2, fig. 8; pl. 7, fig. 2.*

1856. Giebel. Insect. d. vorwelt, 341.

3534. *Pentatomites foliarum.* (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 462. *Pl. 28, fig. 1.***3535. *Petrolystra gigantea.* (Cercopidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 531-532.

1885. " Zittel. Handb. palaeont., i, th. ii: 781. *Fig. 992.*1886. " Zittel-Barrois, Traité de paléont., ii: 781. *Fig. 1009.*1890. " Tert. ins. N. A., 321-322. *Pl. 20, figs. 5-7.*

3536. *Petrolystra heros.* (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 532.

1890. " Tert. ins. N. A., 322-323. Pl. 20, fig. 8.

3537. *Phlæocoris monstrosus.* (Pentatomidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 25-26. Pl. 2, fig. 6.

1855. " Ber. oesterreich. litt., 1850-'53: 200.

1856. Giebel. Insect. d. vorwelt, 340.

3538. *Phlæothrips pohligi.* (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. gesellsch. naturw., lx: 560-563. Pl. 3, fig. 1.

3539. *Phrudopamera chittendeni.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 389. Pl. 26, figs. 7, 9.

3540. *Phrudopamera wilsoni.* (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 388-389. Pl. 27, figs. 9, 16.

3541. *Phthinocoris colligatus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 414-415. Pl. 22, fig. 3.

3542. *Phthinocoris languidus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 415-416. Pl. 27, fig. 6.

3543. *Phthinocoris lethargicus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 415. Pl. 26, fig. 17; pl. 27, fig. 17.

3544. *Phthinocoris petræus.* (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 416.

3545. *Phytocoris* ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3546. *Phytocoris* ———. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3547. *Phytocoris* ——— (larva). (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 29-30. Pl. 2, fig. 14.

1856. Giebel. Insect. d. vorwelt, 362.

3548. *Phytocoris angustulus*. (Capsidæ.)Compared with *P. betuleti*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 29. *Pl. 3, fig. 11.***3549. *Phytocoris balticus*. (Capsidæ.)**Compared with *P. angulatus*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 26-27. *Pl. 3, fig. 4.***3550. *Phytocoris consobrinus*. (Capsidæ.)**Compared with *P. sexguttatus*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 25-26. *Pl. 3, fig. 2.***3551. *Phytocoris electrinus*. (Capsidæ.)**Compared with *P. thoracicus*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 28. *Pl. 3, fig. 8.***3552. *Phytocoris ? euglotta*. (Capsidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 24-25. *Pl. 2, fig. 16.***3553. *Phytocoris gulosus*. (Capsidæ.)**Compared with *P. albostriatus*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 27-28. *Pl. 3, fig. 7.***3554. *Phytocoris gummosus*. (Capsidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 25. *Pl. 3, fig. 1.***3555. *Phytocoris involutus*. (Capsidæ.)**Compared with *P. flavovarius*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 28-29. *Pl. 3, fig. 9.*

1890. Scudder. Tert. ms. N. A., 363.

3556. *Phytocoris merus*. (Capsidæ.)Compared with *Capsus capillaris*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 27. *Pl. 3, fig. 6.*

3557 *Phytocoris punctiger*. (Capsidæ.)Compared with *P. thunbergi*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 27. *Pl. 3, fig. 5.***3558 *Phytocoris raptorius*. (Capsidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 26. *Pl. 3, fig. 3.***3559 *Phytocoris sendelii*. (Capsidæ.)**Compared with *P. thunbergi*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 24. *Pl. 2, fig. 15.***3560 *Phytocoris vetustus*. (Capsidæ.)**Compared with *P. ferrugatus*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 29. *Pl. 3, fig. 10.***3561. *Piesma rotunda*. (Tingididæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 358. *Pl. 23, fig. 6.***3562. *Piezocoris compactilis*. (Coreidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 417.

3563. *Piezocoris ? peremptus*. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 417-418. *Pl. 26, fig. 14.***3564. *Piezocoris peritus*. (Coreidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 417. *Pl. 25, fig. 15.***3565. *Pirates cœningensis*. (Reduviidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 132-134. *Pl. 15, fig. 11.*

1856. Giebel. Insect. d. vorwelt, 368.

3566. *Planophlebia gigantea*. (Fulgoridæ.)

Locality: Similkameen River, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-'78: B 186.

1879. " Ins. tert. Nicola, 11.

1890. " Tert. ins. N. A., 296-297. *Pl. 2, fig. 16.*

3567. *Platymeris* ———. (Reduviidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3568. *Platymeris insignis*. (Reduviidæ.)Compared with *P. fornicaria*, Brazil.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 21. *Pl.* 3, *fig.* 12.**3569. *Ploiaria* ———.** (Reduviidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 228.

See also *Hydrometra* ——— Burmeister.**3570. *Pæcilocapsus fremontii*.** (Capsidæ.)Compared with *P. ornatulus* (Stål), Mexico.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 365-366. *Pl.* 24, *fig.* 3.**3571. *Pæcilocapsus ostentus*.** (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 368. *Pl.* 24, *fig.* 2.**3572. *Pæcilocapsus tabidus*.** (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 367-368. *Pl.* 24, *fig.* 8.**3573. *Pæcilocapsus veterandus*.** (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 366. *Pl.* 24, *fig.* 9.**3574. *Pæcilocapsus veterosus*.** (Capsidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 367.

3575. *Pæocera* ———. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3576. *Pæocera nassata*. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 17-18. *Pl.* 2, *fig.* 5.**3577. *Pæocera pristina*.** (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 18. *Pl.* 2, *fig.* 6.

3578. *Pæocera venulosa*. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. gesellsch. naturw., xx: 312-313.

3579. *Polioschistus lapidarius*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 461. Pl. 28, fig. 10.

3580. *Polioschistus ligatus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 461. Pl. 28, fig. 5.

3581. *Polyclona* ———. (Coccidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 18.

3582. *Poteschistus obnubilus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 458. Pl. 28, fig. 18.

3583. *Prinecphora balteata*. (Cercopidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 332. Pl. 20, fig. 14.

3584. *Procoris bechleri*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 393-394. Pl. 27, fig. 4.

3585. *Procoris sanctæjohannis*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 393.

3586. *Procrophius communis*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 382. Pl. 23, figs. 12, 18, 28, 29; pl. 24, fig. 1.

3587. *Procrophius costalis*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 382-383. Pl. 23, fig. 8.

3588. *Procrophius languens*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 383. Pl. 23, fig. 23.

3589. *Procydnus devictus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 440. Pl. 28, fig. 4.

3590. *Procydnus divexus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 440.

3591. *Procydnus eatoni*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 442.

3592. *Procydnus mamillanus*. (Pentatomidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 443. *Pl. 7, fig. 19.*See also *Cydnus mamillanus*.**3593. *Procydnus pronus*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 439. *Pl. 28, fig. 5.***3594. *Procydnus quietus*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 441.

3595. *Procydnus reliquus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 441.

3596. *Procydnus vesperus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 442. *Pl. 28, fig. 15.***3597. *Prolygæus inundatus*. (Lygæidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 406. *Pl. 27, fig. 13.***3598. *Prosigara flabellum*. (Corixidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 344. *Pl. 22, fig. 12.***3599. *Prostemma oeningensis*. (Nabidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 82-83. *Pl. 5, fig. 26; pl. 10, fig. 7.*

1856. Giebel. Insect. d. vorwelt, 367.

3600. *Protenor imbecillis*. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 424-425. *Pl. 26, fig. 8.***3601. *Pseudophana* ———. (Fulgoridæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., 1: 55.

3602. *Pseudophana amatoria.* (Fulgoridæ.)Compared with *P. europæa* F., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 90-91 (*Pseudophania*). *Pl.* 13, *fig.* 10.
 1856. " Viert. naturf. gesellsch. Zürich, i: 39.
 1856. Giebel. Insect. d. vorwelt, 376.
 1865. Heer. Urwelt der Schweiz, 359, 393.
 1872. " Monde prim. Suisse, 441, 482.
 1876. " Prim. world Switz., ii: 14, 52.
 1879. " Urwelt der Schweiz, 2^e aull., 385, 419.

3603. *Pseudophana reticulata.* (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 16-17. *Pl.* 2, *fig.* 4.

Pseudophania amatoria.* See *Pseudophana amatoria.**3604. *Pterostigma nigrum.* (Aphides.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 275. ♀

3605. *Pterostigma recurvum.* (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Buckton. Monogr. Brit. aphid., iv: 178. *Pl.* 133, *fig.* 6.
 1890. Scudder. Tert. ins. N. A., 274. *Pl.* 18, *fig.* 18.

Ptyela carbonaria.* See *Aphrophora (Ptyelus) carbonaria.**3606. *Ptyelus* (vic.) ——— (several). (Cercopidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

Ptyelus carbonarius.* See *Aphrophora (Ptyelus) carbonaria.**3607. *Ranatra* ? ———. (Nepidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 252.

3608. *Reduvius* ———. (Reduviidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3609. *Reduvius* ——— (larva). (Reduviidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 20. *Pl.* 2, *fig.* 9.

See also *Nabis* protypa.

3610. Reduvius ———. (Reduviidæ.)Compared with *R. hirticornis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 228.

3611. Reduvius? *guttatus*. (Coreidæ.)Compared with *R. personatus* Linn., Europe.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 771.

See also *Corizus guttatus*.**3612. Rheapocoris macrescens**. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 427.

3613. Rheapocoris minimus. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 429 (minima).

3614. Rheapocoris prætectus. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 427.

3615. Rheapocoris prævalens. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 427-428. *Pl.* 25, *figs.* 4, 6, 7, 9, 10, 11, 14, 16; *pl.* 26, *fig.* 11.**3616. Rheapocoris propinquans**. (Coreidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 428-429. *Pl.* 25, *fig.* 1; *pl.* 26, *fig.* 13.**3617. Rhyparochromus?** *terreus*. (Lygæidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 770-771.

See also *Lycocoris terreus*.**3618. Rhyparochromus verrillii**. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 400. *Pl.* 23, *figs.* 15, 30.**3619. Ricania multinervis**. (Fulgoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 313.

3620. Salda ———. (Saldidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., 1: 55.

3621. *Salda* ———. (Saldidae.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 19.

3622. *Salda exigua*. (Saldidae.)

Compared with *S. zosteræ*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Berust. befindl. organ. reste vorw., ii, th. i: 20. *Pl. 3, fig. 13.*

3623. *Sbenaphis lassa*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 253.

3624. *Sbenaphis quesneli*. (Aphides.)

Localities: Quesnel, British Columbia; Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 250-252. *Pl. 2, figs. 4, 5; pl. 18, fig. 12.*

See also *Lachnus quesneli*.

3625. *Sbenaphis uhleri*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 252.

3626. *Schizoneura* ———. (Aphides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3627. *Schizoneuroides scudderi*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Buckton. Monogr. Brit. aphid., iv: 178. *Pl. 133, fig. 5.*

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 780. *Fig. 988.*

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 780. *Fig. 1005.*

1890. " Tert. ins. N. A., 269-270. *Pl. 18, fig. 2.*

3628. *Siphonophoroides antiqua*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Buckton. Monogr. Brit. aphid., iv: 176. *Pl. 133, fig. 1.*

1890. Scudder. Tert. ins. N. A., 255-256. *Pl. 18, figs. 3, 5, 7, 10.*

3629. *Siphonophoroides propinqua*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 257.

3630. *Siphonophoroides rafinesquei*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 256-257.

3631. *Siphonophoroides simplex*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Buckton. Monogr. Brit. aphid., iv: 176-177. *Pl. 133, fig. 2.*

See also *Tephraphis simplex*.

3632. *Spartocerus insignis* (Coreidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiär. Oeningen, iii: 43-45. *Pl. 3, fig. 9; pl. 8, fig. 10.*
 1855. " Ber. oesterreich. litt., 1850-'53: 200.
 1856. Giebel. Insect. d. vorwelt, 347-348.

3633. *Spartocerus maculatus*. (Coreidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiär. Oeningen, iii: 45-46. *Pl. 3, fig. 10.*
 1855. " Ber. oesterreich. litt., 1850-'53: 200.
 1856. Giebel. Insect. d. vorwelt, 348.

3634. *Stenopamera subterrea*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 386. *Pl. 23, fig. 7.*

3635. *Stenopamera tenebrosa*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 386. *Pl. 23, figs. 16, 24.*

3636. *Stenopelta punctulata*. (Pentatomidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 438. *Pl. 7, figs. 12, 13.*
 See also *Æthus punctulatus*.

3637. *Stenopoda gracilis*. (Reduviidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1861. Heer. Rech. climat pays tert., 203 (undescrib.).

3638. *Stenopoda œningensis*. (Reduviidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1861. Heer. Rech. climat pays tert., 203 (undescrib.).

3639. *Stenovelia nigra*. (Veliidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 350. *Pl. 22, figs. 8, 14.*

3640. *Sychnobrochus reviviscens*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 268-269. *Pl. 18, fig. 6.*

3641. *Syromastes affinis*. (Coreidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiär. Oeningen, iii: 52. *Pl. 4, fig. 6; pl. 8, fig. 7.*
 1856. Giebel. Insect. d. vorwelt, 351.
 1865. Heer. Urwelt der Schweiz, 362.
 1872. " Monde prim. Suisse, 444.
 1876. " Prim. world Switz., ii: 16.
 1879. " Urwelt der Schweiz, 2^e anfl., 387.

3642. *Syromastes buchii*. (Coreidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 54. *Pl. 4, fig. 8.*
 1856. Giebel. Insect. d. vorwelt, 351.

3643. *Syromastes coloratus*. (Coreidæ.)Compared with *S. scapha* F., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 52-54, 128. *Pl. 4, fig. 7; pl. 8, fig. 8.*
 1856. Giebel. Insect. d. vorwelt, 351.
 1865. Heer. Urwelt der Schweiz, 391. *Fig. 302.*
 1872. " Monde prim. Suisse, 479. *Fig. 302.*
 1876. " Prim. world Switz., ii: 50. *Fig. 302, on p. 49.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 416. *Fig. 344, on p. 417.*

3644. *Syromastes seyfriedi*. (Coreidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 51-52. *Pl. 4, fig. 5; pl. 8, fig. 6.*
 1856. Giebel. Insect. d. vorwelt, 351.
 1865. Heer. Urwelt der Schweiz, 390.
 1872. " Monde prim. Suisse, 479.
 1876. " Prim. world Switz., ii: 50.
 1879. " Urwelt der Schweiz, 2^e Aufl., 416.

3645. *Syrtis* ——. (Phymatidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 226-227.

3646. *Systemonotus* ——. (Capsidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1890. Scudder. Tert. ins. N. A., 362.

3647. *Tagalodes inermis*. (Reduviidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 357. *Pl. 26, fig. 15.*

3648. *Teleoschistus antiquus*. (Pentatomidæ.)

Locality: Quesnel, British Columbia. Horizon: ———

1890. Scudder. Tert. ins. N. A., 454-456. *Pl. 2, figs. 17-19.*
 See also *Euschistus antiquus*.

3649. *Teleoschistus placatus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 457. *Pl. 28, fig. 3.*

3650. *Teleoschistus rigoratus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 456-457. *Pl. 28, figs. 2, 14.*

3651. *Telmatrechus parallelus*. (Hydrobatidæ.)

Locality: Twin Creek, Wyo. Horizon: ———.

1890. Scudder. Tert. ins. N. A., 353. Pl. 4, fig. 1.

3652. *Telmatrechus stáli*. (Hydrobatidæ.)Compared with *Hygrotrechus remigis* (Say).

Locality: Similkameen River, British Columbia. Horizon: ———.

1890. Scudder. Tert. ins. N. A., 351-353. Pl. 2, figs. 11, 12.

See also *Hygrotrechus stáli*.**3653. *Tenor speluncæ*. (Coreidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 425.

3654. *Tephraphis simplex*. (Aphides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 259-260. Pl. 18 fig. 4.

See also *Siphonophoroides simplex*.**3655. *Tephraphis walshii*. (Aphides.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 260. Pl. 18, fig. 19.

3656. *Tettigometra debilis*. (Fulgoridæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 91-92. Pl. 13, fig. 11.

1856. Giebel. Insect. d. vorwelt, 378.

3657. *Tettigonia* ———. (Jassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3658. *Tettigonia* ———. (Jassides.)Compared with *T. spumaria*.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. Pl. 6, fig. 6.

1829. " Murchison-Lyell, Tert. form. Aix, 12. Pl. 6, fig. 6.

1839. Mantell. Wonders of geology, i: 248. Fig. 1.

See also *Aphrophora spumifera*, etc.**3659. *Tettigonia* ———. (Jassides.)**

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 298.

3660. *Tettigonia antiqua*. (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 109-110. Pl. 12, fig. 5.

1855. " Ber. oesterreich. litt., 1850-53: 202.

1856. Giebel. Insect. d. vorwelt, 384.

3661. *Tettigonia morio*. (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 110. *Pl. 12, fig. 4.*
 1855. " Ber. oesterreich. litt., 1850-'53: 203.
 1856. Giebel. Insect. d. vorwelt, 384.

3662. *Tettigonia obtecta*. (Jassides.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 761.
 1890. " Tert. ins. N. A., 304. *Pl. 5, figs. 58, 59.*

3663. *Tettigonia priscomarginata*. (Jassides.)

Compared with *Aulacipes irroratus* (Fabr.).

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 302-303. *Pl. 7, fig. 4.*

3664. *Tettigonia priscotincta*. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 303. *Pl. 19, fig. 9.*

3665. *Tettigonia priscovariegata*. (Jassides.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 303-304.

3666. *Tettigonia proavia*. (Jassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 9-10. *Pl. 1, fig. 13.*

3667. *Tettigonia spumaria*. (Jassides.)

Locality: Aix, France. Horizon: Ligurian.

1854. Mantell. Medals of creation, 2d ed., ii: 558. *Fig. 183.1.*
 See also *Aphrophora spumifera*, etc.

3668. *Tettigonia terebrans*. (Jassides.)

Compared with *T. viridis*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 10. *Pl. 1, fig. 14.*

3669. *Tetyra hassii*. (Pentatomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 11-12. *Pl. 1, fig. 4; pl. 6, fig. 3.*
 1856. Giebel. Insect. d. vorwelt, 335.

3670. *Thamnotettix fundi*. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 310. *Pl. 19, fig. 20.*

3671. *Thamnotettix gannetti*. (Jassides.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 309-310. *Pl. 6, fig. 33; pl. 7, fig. 5.***3672. *Thamnotettix mutilata*. (Jassides.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 309. *Pl. 7, fig. 6.***3673. *Thlibomenus limosus*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 450. *Pl. 28, fig. 12.***3674. *Thlibomenus macer*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 451.

3675. *Thlibomenus parvus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 449-450. *Pl. 19, fig. 23.***3676. *Thlibomenus perennatus*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 450.

3677. *Thlibomenus petreus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 449.

3678. *Thlimmoschistus gravidatus*. (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 463-464. *Pl. 28, figs. 7, 19.***3679. *Thnetoschistus revulsus*. (Pentatomidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 458. *Pl. 28, fig. 4.***3680. *Thrips annosa*. (Physapodes.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 367. *Fig. 233 on p. 366.*1872. " *Monde prim. Suisse*, 450. *Fig. 233 on p. 449.*1876. " *Prim. world Switz.*, ii: 22. *Fig. 233 on p. 21.*1879. " *Urwelt der Schweiz*, 2^e anfl., 392. *Fig. 274.***3681. *Thrips annulata*. (Physapodes.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petriscule Danzig*, 1856: 11-12.**3682. *Thrips antiqua*. (Physapodes.)**

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. *Viert. naturf. gesellsch. Zürich*, i: 27. *Pl. 2, figs 9, 10.*1873. Oustalet. *Bull. soc. philom. Paris*, x: 24-25.

3683. Thrips breviventris. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. ges. naturw., lx: 572-574. *Pl. 4, figs. 13-15.*

3684. Thrips capito. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. ges. naturw., lx: 579-582. *Pl. 5, fig. 20.*

3685. Thrips electrina. (Physapodes.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 12.

3686. Thrips excellens. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. ges. naturw., lx: 564-567. *Pl. 3, figs. 2-8.*

3687. Thrips formicoides. (Physapodes.)

Locality: Aix, France. Horizon: Ligurian.

1873. Oustalet. Bull. soc. philom. Paris, x: 25-26.

3688. Thrips longula. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. gesellsch. naturw., lx: 568-570. *Pl. 3, fig. 9.*

3689. Thrips minima. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. gesellsch. naturw., lx: 574-577. *Pl. 4, figs. 16-17.*

3690. Thrips obsoleta. (Physapodes.)

Locality: Aix, France. Horizon: Ligurian.

1873. Oustalet. Bull. soc. philom. Paris, x: 25.

3691. Thrips oeningensis. (Physapodes.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 367.

1872. " Monde prim. Suisse, 450.

1876. " Prim. world Switz., ii: 22.

1879. " Urwelt der Schweiz, 2^e Aufl., 392.

3692. Thrips pennifera. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. gesellsch. naturw., lx: 570-572. *Pl. 3, figs. 10-12.*

3693. Thrips pygmæa. (Physapodes.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1887. Schlechtend. Zeitschr. gesellsch. naturw., lx: 577-579. *Pl. 4, figs. 18, 19.*

3694. Thrips sericata. (Physapodes.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 12.

3695. *Tingis* ———. (Tingididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3696. *Tingis* ———. (Tingididæ.)Compared with *T. cardui*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 252.

3697. *Tingis* ———. (Tingididæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

3698. *Tingis* ———. (Tingididæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 227.

3699. *Tingis obscura*. (Tingididæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 74-75. *Pl.* 13, *fig.* 15.

1856. Giebel. Insect. d. vorwelt, 363.

3700. *Tingis quinquecarinata*. (Tingididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 23-24. *Pl.* 3, *fig.* 19.See also *Eotingis quinquecarinata*.**3701. *Tingis wollastoni*.** (Tingididæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz (Monanthia in text). *Fig.* 307 on p. 391.1872. " Monde prim. Suisse. *Fig.* 307 on p. 479.1876. " Prim. world Switz., ii. *Fig.* 307 on p. 49.1879. " Urwelt der Schweiz, 2^e anil. *Fig.* 349 on p. 417.See also *Monanthia wollastoni*.**3702. *Tiroschistus indurescens*.** (Pentatomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 463. *Pl.* 22, *fig.* 4.**3703. *Tiromerus tabifluus*.** (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 402.

3704. *Tiromerus torpefactus*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 402.

3705. *Trapezonotus exterminatus*. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 395. *Pl.* 22, *fig.* 9; *pl.* 23, *figs.* 11, 22, 25.

3706. Trapezonotus stygialis. (Lygæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 396. *Pl. 27, fig. 11.***Triecophora sanguinolenta.** See *Triecophora sanguinolenta*.**3707. Triecophora sanguinolenta** (recent). (Cercopidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

[1843. Amyot-Serv. Hémiptères, 561-562.]

1879. Woodward. Quart. Journ. geol. soc. Lond., xxxv: 344.

1879. " Geol. mag., n. s., v: 88.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 782 (*Triecophora*.)1886. " Zittel-Barrois, *Traité de paléont.*, ii: 781.

1886. " Bull. U. S. geol. surv., No. 31: 60.

3708. Typhlocyba ———. (Jassides.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 55.

3709. Typhlocyba ———. (Jassides.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 293 (*Typhlocypha*.)

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3710. Typhlocyba breinii. (Jassides.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1853. Heer. Insektenf. tertiärg. Oeningen, iii: 117-119. *Pl. 13, fig. 3.*

1855. " Ber. oesterreich. litt., 1850-'53: 203.

1856. Giebel. Insect. d. vorwelt, 387.

3711. Typhlocyba carbonaria. (Jassides.)

Locality: Stösschen, Austria. Horizon: Miocene.

1859. Heyden. Palæontogr., viii: 11. *Pl. 1, fig. 14.***3712. Typhlocyba encaustica.** (Jassides.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 7. *Pl. 1, fig. 9.***3713. Typhlocyba resinosa.** (Jassides.)Compared with *T. rosæ*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Germ.-Ber. Berendt, Bernst. befindl. organ. reste vorw., ii, th. i: 8. *Pl. 2, fig. 2.***Typhlocypha** ———. See *Typhlocyba* ———.**COLEOPTERA.****3714.** ——— ———.

Localities: Le Puy, Auvergne, France. Horizon: ———.

1845. Brodie. Foss. ins. sec. rocks Engl., 107.

3715. ———.

- Localities: Lenden, Colchester, England. Horizon: Postglacial drift.
1874. Brodie. Distr. corr. foss. ins., 13.

3716. ———.

- Locality: Stanway, England. Horizon: Peat.
1858. Brown. Geologist, 1858: 254.

3717. ———.

- Locality: Montagne Ste. Catherine, near Rouen, France. Horizon: "Roche calcaire."
1826. Desmoulins. Ferr., Bull. sc. nat., ix: 253.

3718. ———.

- Locality: Peckham, England. Horizon: Paludina beds, Lower Eocene.
1861. Evans. Geologist, iv: 39. Fig.

3719. ——— (several).

- Locality: Nantucket amber, Mass. Horizon: ———.
1879. Goldsmith. Proc. acad. nat. sc. Phil., 1879: 207.

3720. ———.

- Locality: Scotland. Horizon: Interglacial.
1880. Goss. Entom. monthl. mag., xvi: 198. (On the authority of Buchanan White.)

3721. ———.

- Locality: Oldham, England. Horizon: Pleistocene (peat).
1881. Hollingworth. Quart. journ. geol. soc. Lond., xxxvii: 713.

3722. ———.

- Locality: Grasse, Bohemia. Horizon: ———.
1857. Jókely. Jahrb. geol. reichsanst., viii: 502.

3723. ———.

- Locality: Drigg, England. Horizon: Quaternary.
1881. Kendall. Quart. journ. geol. soc. Lond., xxxvii: 34.

3724. ———.

- Locality: St. Bees, England. Horizon: Quaternary.
1881. Kendall. Quart. journ. geol. soc. Lond., xxxvii: 35.

3725. ———.

- Locality: Parkhurst Barracks, England. Horizon: London clay.
1847. Mantell. Geol. exc. Isle of Wight, 140.

3726. ——— (8 sp.).

- Locality: Rocky River, Sydney flats, Australia. Horizon: ———.
1870. Moore. Quart. journ. geol. soc. Lond., xxvi: 263. Pl. 18, figs. 2-9.

3727. ——— ———.

Locality: Senigaglia, Italy. Horizon: Helvetian f.

1842. Procaccini. Nuov. ann. sc. nat., vii: 449.

3728. ——— ——— (coprolites of larvæ).

Locality: Westerwald, Germany. Horizon: "Braunkohl."

1852. Quenstedt. Handb. petref., 314. Pl. 24, fig. 7.

3729. ——— ———.

Locality: Prussian amber. Horizon: Ligurian.

1838. Robert. Bull. soc. géol. France, ix: 114.

3730. ——— ——— (borings).

Localities: Anzers, Mauriac, France. Horizon: "Lignite."

1875. Rouchy. Petites nouv. entom., i: 551.

3731. ——— ——— (eggs and larvæ).

Locality: Bodensee, Baden. Horizon: Alluvium.

1851. Stizenberger. Uebers. verstein. Baden, 119.

3732. ——— ———.

Locality: Lincolnshire coast, England. Horizon: Peat beds.

1830. Taylor. Loud., Mag. nat. hist., iii: 361.

3733. ——— ———.

Locality: Mount's Bay, England. Horizon: "Submarine forest."

1830. Taylor. Loud., Mag. nat. hist., iii: 361.

3734. ——— ———.

Locality: Norfolk coast, England. Horizon: Peat beds.

1830. Taylor. Loud., Mag. nat. hist., iii: 361.

3735. ——— ———.

Locality: Yorkshire coast, England. Horizon: Peat beds.

1830. Taylor. Loud., Mag. nat. hist., iii: 361.

3736. ——— ———.

Locality: Lexden, England. Horizon: Peat beds.

1863. Wollaston. Quart. journ. geol. soc. Lond., xix: 401, No. 10.

3737. ——— ———. ("Schwimmkäfer.")

Locality: Oberelsass. Horizon: Middle Oligocene.

1885. Foerster. Tagebl. versamml. deutsch. naturf., lviii: 392.

1885. " Mitth. oberelsäss. tertiär, 7.

3738. ——— ——— (several). ("Water beetles.")

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Sendder. Bull. U. S. geol. surv. terr., vi: 291.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 231.

3739. ———. ("Water beetle.")

Locality: Lexden, England. Horizon: Peat beds.

1863. Wollaston. Quart. journ. geol. soc. Lond., xix: 401 No. 11-12.

———— (Aleocharini). See ——— (Staphylinidæ-Aleocharini).

3740. ———. (Anthicidæ; "Notoxida.")

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

———— (Bostrychini.) See ——— (Ptinidæ-Bostrychini).

3741. ——— (several). (Bruchidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3742. ———. (Buprestidæ.)

Locality: Dorset, England. Horizon: Bagshot series, Middle Eocene.

1870. Brodie. Geol. mag., vii: 141.

3743. ———. (Buprestidæ.)

Locality: Bournemouth, England. Horizon: Middle Eocene.

1878. Goss. Proc. ent. soc. Lond., 1878: 8.

3744. ———. (Buprestidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1856. Heyden. Palaeontogr., iv: 200. Pl. 38, fig. 4.

3745. ———. (Buprestidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 22.

3746. ——— (several). (Buprestidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291-292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3747. ———. (Buprestidæ.)

Locality: Creech, near Corfe, England. Horizon: ———.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 381, 395. Pl. 16, fig. 34.

3748. ———. (Buprestidæ.)

Locality: Lexden, England. Horizon: Peat beds.

1863. Wollaston. Quart. journ. geol. soc. Lond., xix: 401, No. 8.

3749. ———. (Carabidæ or Rhynchophora.)

Locality: Antrim, Ireland. Horizon: Tertiary basalt beds.

1869. Baily. Quart. journ. geol. soc. Lond., xxv: 359-362. Compared to the Entimides, p. 362, to Carabidæ, p. 360. Pl. 14, figs. 14ab.

3750. ———. (Carabidæ or Rhynchophora.)

Locality: Antrim, Ireland. Horizon: Tertiary basalt beds.

1869. Baily. Quart. journ. geol. soc. Lond., xxv: 359-362. Compared to Apion, p. 362, to Carabidæ, p. 360. *Pl.* 14, *fig.* 15.

3751. ———. (Carabidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 103.

3752. ———. (Carabidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3753. ———. (Carabidæ.)

Locality: Caverne de Lunel Vieil, Hérault, France. Horizon: Postpliocene.

1827. Serres. Mém. soc. linn. Paris, v: 457.

3754. ———. (Carabidæ.)

Locality: Lexden, England. Horizon: Peat beds.

1863. Wollaston. Quart. journ. geol. soc. Lond., xix: 401, No. 7.

3755. ———. (Cerambycidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3756. ——— (several). (Cerambycidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

————— (Cetonini). See ——— (Scarabæidæ-Cetonini).

3757. ———. (Chrysomelidæ.)

Locality: Schössnitz, Austria. Horizon: Miocene.

1855. Göppert. Tert. flora Schössnitz, vii. *Pl.* 26, *fig.* 56.

See also *Curculionites silesiacus*, etc.

3758. ———. (Chrysomelidæ-Halticini.)

Locality: Prussian amber. Horizon: Ligurian.

1838. Robert. Bull. soc. géol. France, ix: 114 (Altises).

3759. ——— (several). (Chrysomelidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3760. ———. (Chrysomelidæ.)

Locality: Caverne de Lunel Vieil, Hérault, France. Horizon: Postpliocene.

1827. Serres. Mém. soc. linn. Paris, v: 457.

3761. ———. (Chrysomelidæ or Curculionidæ.)

Locality: Creech, near Corfe, England. Horizon: ———.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 382.

3762. ———. (Cleridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

3763. ———. (Cleridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1882. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3764. ——— (several). (Coccinellidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3765. ———. (Curculionidæ.)

Locality: Dorset, England. Horizon: Bagshot series, Middle Eocene.

1870. Brodie. Geol. mag., vii: 141.

3766. ———. (Curculionidæ.)

Locality: Corfe, England. Horizon: ———.

1874. Brodie. Distr. corr. foss. ins., 13.

3767. ———. (Curculionidæ.)

Locality: Bournemouth, England. Horizon: Middle Eocene.

1878. Goss. Proc. ent. soc. Lond., 1878: 8.

3768. ———. (Curculionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 22.

3769. ———. (Curculionidæ or Chrysomelidæ.)

Locality: Creech, near Corfe, England. Horizon: ———.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 382.

3770. ———. (Curculionidæ.)

Locality: Creech, near Corfe, England. Horizon: ———.

1854. Westwood. Quart. journ. geol. soc. Lond., x: 382, 395. *Pl. 16, fig. 35.*

3771. ———. (Dasyllidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21 (Cyphones).

3772. ——— (several). (Dermestidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3773. ———. (Dytiscidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1885. Foerster. Tagebl. versamml. deutsch. naturf., lviii: 392.

1885. " Mitth. oberelsäss. tertiär., 7.

3774. ———. (Elateridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 22.

3775. ———. (Elateridæ ?.)

Locality: Nicola River, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-78: 182B.

1879. " Ins. tert. Nicola, 7.

1890. " Tert. ins. N. A., 498. Pl. 2, fig. 28.

3776. ——— (several). (Elateridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

——— (Geotrupini). See ——— (Scarabæidæ-Geotrupini).

——— (Halticini). See ——— (Chrysomelidæ-Halticini).

——— (Helopini). See ——— (Tenebrionidæ-Helopini).

3777. ——— (several). (Histeridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3778. ———. (Lampyridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 21.

3779. ———. (Lucanidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 23.

3780. ——— (several). (Malacodermata.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3781. ———. (Meloidæ.)Compared with *Lytta vesicatoria*.

Locality: Prussian amber. Horizon: Ligurian.

1847. Hammerschm. Haidinger, Berichte, i: 39.

3782. ———. (Meloidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 21.

3783. ——— (several). (Meloidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3784. ——— (Mordellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 21.

3785. ——— (several). (Mordellidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3786. ——— (Nitidulidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 103.

3787. ——— (several). (Nitidulidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3788. ——— (Ptinidæ-Bostrychini.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

3789. ——— (several). (Ptinidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

———— (Ptinidæ). See ——— (Scolytidæ or Ptinidæ).

———— (Ptinidæ). See ——— (Scolytidæ) Kolbe.

3790. ——— (many). (Rhynchophora.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

———— (Rhynchophora). See ——— (Carabidæ or Rhynchophora)
Baily.**3791.** ——— (Scarabæidæ-Geotrupini.)

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 12-13, 39. Pl. 21, fig. 3.

1881. " Nova acta acad. leop.-carol., xlii: 305-306, 331. Pl. 21, fig. 3.

3792. ——— (several). (Scarabæidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3793. ———. (Scarabæidæ-Cetonini.)

Locality: Caverne de Lunel Vieil, Hérault, France. Horizon: Postpliocene.
1827. Serres. Mém. soc. linn. Paris, v: 457.

3794. ———. (Scolytidæ or Ptinidæ.)

Locality: Zschipkau, Nieder Lausitz. Horizon: Braunkohl.
1888. Kolbe. Zeitschr. deutsch. geol. gesellsch., xl: 135. Pl. 11, fig. 6x.

3795. ———. (Scolytidæ.)

Locality: Scarboro, Canada. Horizon: Interglacial.
1886. Scudder. Can. ent., xviii: 194-196.
See also *Hylastes squalidens*.

3796. ——— (several). (Silphidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.
1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3797. ———. (Staphylinidæ-Aleocharini.)

Locality: Prussian amber. Horizon: Ligurian.
1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3798. ———. (Staphylinidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.
1889. Foerster. Mitth. comm. geol. Elsass.-Lothr., ii: 103.

3799. ——— (several). (Staphylinidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.
1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.

3800. ———. (Tenebrionidæ-Helopini.)

Locality: Dorset, England. Horizon: Middle Eocene, Bagshot series.
1870. Brodie. Geol. mag., vii: 141.

3801. ———. (Tenebrionidæ-Helopini.)

Locality: Corfe, England. Horizon: ———.
1874. Brodie. Distr. corr. foss. ins., 13.

3802. ——— (several). (Tenebrionidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.
1881. Scudder. Bull. U. S. geol. surv. terr., vi: 292.
1883. " Ann. rep. U. S. geol. surv. terr., xii: 282.

3803. ———. (Tenebrionidæ-Helopini.)

Locality: Creech, near Corfe, England. Horizon: ———.
1854. Westwood. Quart. journ. geol. soc. Lond., x: 381-382.

Abax parallela. See *Feronia (Abax) parallela*.

Abax vetustus. See *Pterostichus (Abax) vetustus*.

3804. *Acalles icarus*. (Curculionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 152. *Pl. 24, fig. 6.*1866. " Käfer u. polypen, 22. *Pl. 3, fig. 6.***3805. *Acanthoderes lepidus*. (Cerambycidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 362 (*Acanthoderes*).1872. " Monde prim. Suisse, 441 (*Acanthoderes*).1876. " Prim. world Switz., ii: 16 (*Acanthoderes*).1879. " Urwelt der Schweiz, 2^e aufl., 357 (*Acanthoderes*).**3806. *Acanthoderes phrizi*. (Cerambycidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 167-168. *Pl. 5, fig. 13.*

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 130.

3807. *Acanthoderes sepultus*. (Cerambycidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 362, 375 (*Acanthoderes*).1872. " Monde prim. Suisse, 444, 461 (*Acanthoderes*).1876. " Prim. world Switz., ii: 16, 31 (*Acanthoderes*).1879. " Urwelt der Schweiz, 2^e aufl., 357, 401 (*Acanthoderes*).***Acanthoderes lepidus*. See *Acanthoderes lepidus*.*****Acanthoderes sepultus*. See *Acanthoderes sepultus*.****3808. *Achenium ingens*. (Staphylinidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 142-143. *Pl. 2, fig. 18.***3809. *Acmæodera antholitha*. (Buprestidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 89. *Pl. 7, fig. 23.***3810. *Acmæodera brevicollis*. (Buprestidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 89. *Pl. 7, fig. 22.***3811. *Adalia* ——. (Coccinellidæ.)**

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3812. *Adelocera granulata*. (Elateridæ.)

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 139-140. *Pl. 8, fig. 7.*

1852. Giebel. Deutschl. petref., 651.

1856. " Insect. d. vorwelt, 96-97.

3813. *Adimonia*? ——. (Chrysomelidæ.)

Locality: Jarville, France. Horizon: Pleistocene.

1875. Fliche. Comptes rendus, lxxx: 1234.

3814. *Ægialia rupta*. (Scarabæidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 489. *Pl.* 8, *fig.* 19.

3815. *Agabus* ———. (Dytiscidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. Käfer unterpleist. Hösbach, 8.

1884. “ Verhandl. physik.-med. gesellsch. Wurzb., n. f., xviii: 292.

3816. *Agabus* ? ———. (Dytiscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 23.

3817. *Agabus bipunctatus* (recent). (Dytiscidæ.)

Locality: Cambridge, England. Horizon: Peat beds.

[1787. Fabricius. Mant. ins., 190.]

1808. Bell. Entom., xxi: 2.

See also *Agabus nebulosus*.

3818. *Agabus nebulosus* (recent). (Dytiscidæ.)

Locality: Cambridge, England. Horizon: Peat beds.

[1781. Forster. Nov. spec. ins., 56.]

See also *Agabus bipunctatus*.

3819. *Agabus reductus*. (Dytiscidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 135. *Pl.* 22, *fig.* 4.

1866. “ Käfer u. polypen, 5. *Pl.* 1, *fig.* 4.

3820. *Agatoides carinulatus*. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Études entom., v: 26.

3821. *Agelasa* ———. (Chrysomelidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3822. *Agonum gracile* (recent). (Carabidæ.)

Locality: Jarville, France. Horizon: Pleistocene.

[1824. Sturm. Ins., v: 197. *Pl.* 136, *fig.* A.]

1875. Fliche. Comptes rendus, lxxx: 1234.

3823. *Agonum sismondæ*. (Carabidæ.)

Locality: La Boisse, France. Horizon: Quaternary.

1876. Mortillet. MSS.

1876. Lart.-Chantre. Arch. mus. hist. nat. Lyon, i: 104.

3824. *Agrilus* ———. (Buprestidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i; 56.

3825. *Agrilus* ———. (Buprestidæ.)

Locality: Creech, England. Horizon: Corfe clay.

1854. Westwood. Proc. geol. soc. Loud., 381, 395. Pl. 16, fig. 34.

3826. *Agrilus baueri*. (Buprestidæ.)Compared with *A. biguttatus* Fabr.

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 68-69. Pl. 10, fig. 21.

3827. *Akulosamphus montanus*. (Curculionidæ.)

Locality: Le Puy, France. Horizon: ———.

1854. Aymard. Congr. scient. France, sess. xxii: 42 (undescrib.).

***Alaus spectabilis*.** See *Elater* (*Alaus*) *spectabilis*.**3828. *Aleochara* ———.** (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

3829. *Amara* ——— (2 sp.). (Carabidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3830. *Amara aulica* (recent). (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1797. Panzer. Faun. germ., xxxviii: 3.]

1884. Flach. Käfer unterpleist. Hösbach, 6. Pl. 1, fig. 9.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 290. Pl. 8, fig. 9.

3831. *Amara famelica* (recent). (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1831?. Zimmermann. Mon. Carab. i: 36.]

1884. Flach. Käfer unterpleist. Hösbach, 6-7. Pl. 1, fig. 10.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 290-291. Pl. 8, fig. 10.

3832. *Amara familiaris* (recent). (Carabidæ.)

Locality: Hochheim, Germany. Horizon: Kalkmergel.

[1812. Duftschmid. Faun. austr., ii: 119 (Carabus?).]

1840. Meyer. Ersch u. Grüber, Allg. encycl. d. wissensch., sect. 2, th. xviii: 539.

3833. *Amara pinguicula*. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 26. Pl. 1, figs. 14, 15.

3834. *Amara primigenia*. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 25-26. Pl. 1, figs. 12, 12b.

3835. *Amara princeps*. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 24-25. *Pl. 1, figs. 13, 13b-c.*
 1865. " Urwelt der Schweiz. *Fig. 285 on p. 384.*
 1872. " Monde prim. Suisse. *Fig. 285 on p. 471.*
 1876. " Prim. world Switz., ii. *Fig. 285 on p. 42.*
 1879. " Urwelt der Schweiz, 2^e Aufl. *Fig. 327 on p. 410.*

3836. *Ammœcius* ———. (Scarabæidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3837. *Ampedus seyfriedii*. (Elateridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 131-133. *Pl. 4, fig. 2.*
 1852. Giebel. Deutschl. petref., 651.
 1856. " Insect. d. vorwelt, 98.
 1865. Heer. Urwelt der Schweiz, 362.
 1872. " Monde prim. Suisse, 444.
 1876. " Prim. world Switz., ii: 16.
 1879. " Urwelt der Schweiz, 2^e Aufl., 387.

3838. *Amphotis bella*. (Nitidulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 38-39. *Pl. 7, fig. 22.*
 1852. Giebel. Deutschl. petref., 654.
 1856. " Insect. d. vorwelt, 44.

3839. *Amphotis œningensis*. (Nitidulidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 53. *Pl. 3, fig. 31.*

3840. *Anaspis* ———. (Pythidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3841. *Anaspis antica*. (Pythidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1838: 170 (undescrib.).

3842. *Anchomenus* ———. (Carabidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 165.

3843. *Anchomenus* ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

3844. *Anchomenus orphanus*. (Carabidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 21-22. *Pl. 1, fig. 4.*
 1852. Giebel. Deutschl. petref., 655.
 1856. " Insect. d. vorwelt, 66.

3845. *Ancylocheira alemanica.* (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1879. Heer. Urwelt der Schweiz, 2^e aull., 384. *Figs. 258ab.***3846. *Ancylocheira coucinna.*** (Buprestidæ.)Compared with *A. octoguttata* Fabr.

Locality: Oeningen, Baden. Horizon: Tortonian.

1879. Heer. Urwelt der Schweiz, 2^e aull., 387, 403. *Fig. 259 on p. 384.***3847. *Ancylocheira deleta.*** (Buprestidæ.)

Localities: Oeningen, Baden; Monte Bolea, Italy. Horizons: Tortonian, Ligurian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 108 (*Ancylochira*). *Pl. 3, fig. 6.*

1852. Giebel. Deutschl. petref., 652.

1855. Massalongo. Monogr. nereid. foss., 31 ("Comp. faun. foss. bolc., *pl. 10, figs. 5-7*").1856. " Stud. palcut., 14. *Pl. 1, figs. 1-3.*

1856. Giebel. Insect. d. vorwelt, 83-84.

1886. Omboni. Atti r. ist. Ven., (6), iv: 1425. *Pl. 2, figs. 2-3.*1886. " Ins. foss. Ven., 5. *Pl. 2, figs. 2-3.***3848. *Ancylocheira gracilis.*** (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 111-112 (*Ancylochira*). *Pl. 3, fig. 9.*

1852. Giebel. Deutschl. petref., 652.

1856. " Insect. d. vorwelt, 84.

3849. *Ancylocheira heydenii.* (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 106-108 (*Ancylochira*). *Pl. 3, fig. 5.*

1852. Giebel. Deutschl. petref., 652.

1856. " Insect. d. vorwelt, 83.

3850. *Ancylocheira pristina.* (Buprestidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 68 (*Ancylochira*.)**3851. *Ancylocheira redempta.*** (Buprestidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 4 (*Ancylochira*). *Pl. 1, fig. 1.***3852. *Ancylocheira rusticana.*** (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 109-110 (*Ancylochira*). *Pl. 3, fig. 7.*

1852. Giebel. Deutschl. petref., 652.

1856. " Insect. d. vorwelt, 84.

3853. *Ancylocheira seyfriedii.* (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 110-111 (*Ancylochira*). *Pl. 3, fig. 8.*

1852. Giebel. Deutschl. petref., 652.

1856. " Insect. d. vorwelt, 84.

3854. *Ancylocheira tinctoria*. (Buprestidæ.)Compared with *A. octoguttata* Fabr.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 87 (*Ancylochira*). Pl. 7, figs. 19, 20.
 1865. " Urwelt der Schweiz, 362, 378. Fig. 258.
 1872. " Monde prim. Suisse, 444, 464. Fig. 258, on p. 463.
 1876. " Prim. world Switz., ii: 16, 35. Fig. 258, on p. 34.
 1879. " Urwelt der Schweiz, 2^e Aufl., 387, 403. Fig. 300, on p. 404.

Ancylochira (various species). See *Ancylocheira*, the same species.**3855. *Anisorhynchus deletus*. (Otiorhynchidæ.)**Compared with *A. bajulus* and *A. hespericus*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 21-22. Pl. 21, fig. 7.
 1881. " Verhandl. leop.-carol. acad. naturf., xlii: 313-314. Pl. 21, fig. 7.

3856. *Anisorhynchus effossus*. (Otiorhynchidæ.)Compared with *A. bajulus*, Europe.

Locality: Coirent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 72-73. Pl. 1, fig. 9.

3857. *Anisotoma* ———. (Silphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3858. *Anobium* ———. (Ptinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3859. *Anobium* ———. (Ptinidæ.)Compared with *A. pertinax* and *A. rufipes*.

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.
 1836. " Man. ent., 577.

3860. *Anobium* ———. (Ptinidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. jour. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag., (n. s.), v: 89.

3861. *Anobium* ? *deceptum*. (Ptinidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 763.
 1890. " Tert. ins. N. A., 492. Pl. 8, fig. 18.

3862. *Anobium lignitum*. (Ptinidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 763.
 1890. " Tert. ins. N. A., 492-493. Pl. 8, fig. 24.

3863. Anobium ? ovale. (Ptinidæ.)Compared with *Endecatomus rugosus* LeC.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv., terr., iv: 762-763.
 1890. " Tert. ins. N. A., 491-492. *Pl. 8, fig. 1.*

3864. Anomala fugax. (Scarabæidæ.)Compared with *A. julii* F., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer Verhandl. holl. maatsch. wetensch., xvi: 80. *Pl. 6, fig. 23.*
 1865. " Urwelt der Schweiz, 380.
 1872. " Monde prim. Suisse, 466.
 1876. " Prim. world Switz., ii: 37.
 1879. " Urwelt der Schweiz, 2^e aufl., 406.

3865. Anomala primigenia. (Scarabæidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 140-141. *Pl. 22, figs. 18, 19.*
 1866. " Käfer u. polypen, 10-11. *Pl. 1, figs. 18, 19.*

3866. Anomala thetis. (Scarabæidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 141. *Pl. 24, fig. 12.*
 1866. " Käfer u. polypen, 11. *Pl. 3, fig. 12.*

3867. Anomala tumulata. (Scarabæidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 140. *Pl. 23, figs. 18, 19.*
 1866. " Käfer u. polypen, 10. *Pl. 2, figs. 18, 19.*

3868. Anomalites fugitivus. (Scarabæidæ.)

Locality: Nogent le Rotrou, France. Horizon: ———.

1884. Frið. Sitzungsber. k. böhm. gesellsch. wiss., 1884: 163-165. *Fig.*

Anoplites breinii. See *Anoplitis breinii.***3869. Anoplitis breinii.** (Chrysomelidæ.)Compared with *Anoplitis quadrata* F.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 202-204 (*Anoplites*). *Pl. 7, fig. 5; pl. 8, fig. 9.*
 1852. Giebel. Deutschl. petref., 648.
 1853. " Insect. d. vorwelt, 115.
 1865. Heer. Urwelt der Schweiz, 372. *Fig. 241, on p. 371.*
 1872. " Monde prim. Suisse, 456. *Fig. 241, on p. 455.*
 1876. " Prim. world Switz., ii: 28. *Fig. 241, on p. 27.*
 1879. " Urwelt der Schweiz, 2^e aufl., 398. *Fig. 283, on p. 397.*

3870. Anoplognathus rhenanus. (Scarabæidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 65-66. *Pl. 10, fig. 19.*

3871. Anthaxia ———. (Buprestidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1885. Foerster. Tagebl. versamml. deutsch. naturf., lviii: 392.
 1885. " Mitth. oberelsäss. tertiär., 7.
 1888. " Mitth. comm. geol. Elsass-Lothr., i: 165.
 1889. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

3872. Anthaxia buschi. (Buprestidæ.)

Locality: Naumburg, Prussia. Horizon: Oligocene.

1869. Assmann. Beitr. ins. vorwelt, 61-62. *Figs. 2a, b.*
 1869. " Zeitschr. f. ent. ver. schles. insektenk., ii, pt. i: 61-62. *Figs. 2a, b.*

3873. Anthaxia carbonaria. (Buprestidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 32. *Pl. 9, figs. 15-16.*

3874. Anthaxia crassicollis. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 88. *Pl. 7, fig. 16.*

3875. Anthaxia deleta. (Buprestidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 32.

3876. Anthaxia doris. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 88-89. *Pl. 7, fig. 21.*

3877. Anthaxia pallida. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 88. *Pl. 7, fig. 25.*

3878. Anthaxia primæva. (Buprestidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 32-33.

3879. Antherophagus priscus. (Cryptophagidæ.)Compared with *A. ochraceus.*

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 79-80.
 1878. " Bull. U. S. geol. surv. terr., iv: 762.
 1885. " Zittel, Handb. palaeont., i, th. ii: 800. *Fig. 1051.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 800. *Fig. 1068*
 1890. " Tert. ins. N. A., 501. *Pl. 7, figs. 24, 35.*

3880. Anthicus ———. (Anthicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3881. Anthicus melancholicus. (Anthicidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 208-210 (Anthicus). Pl. 5, fig. 12.

3882. Anthonomus defossus. (Cureulionidæ.)Compared with *A. hamatopus*.

Locality: Florissant, Colo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 86.

3883. Anthonomus saporus. (Cureulionidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 472-473. Pl. 8, fig. 16.

3884. Anthophagus ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3885. Anthophagus giebeli. (Staphylinidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 138. Pl. 22, fig. 15.

1866. " Käfer u. polypen, 8. Pl. 1, fig. 15.

3886. Anthrenus ———. (Dermestidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3887. Anthribites moussoni. (Anthribidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 177-178. Pl. 6, fig. 7.

1852. Giebel. Deutschl. petref., 649.

See also *Anthribus moussoni*.**3888. Anthribites pusillus.** (Anthribidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 178-179. Pl. 6, fig. 6.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 135.

3889. Anthribites rechenbergi. (Anthribidæ.)

Locality: Zschipkau, Nieder Lausitz. Horizon: Braunkohl.

1888. Kolbe. Zeitschr. deutsch. geol. gesellsch., xi: 131-134. Pl. 11; figs. 1-3, 4ab.

3890. Anthribus ———. (Anthribidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3891. Anthribus moussoni. (Anthribidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1856. Giebel. Insect. d. vorwelt, 135.

See also *Anthribites moussoni*.**Anthicus melancholicus.** See *Anthicus melancholicus*.

3892. Antliarhinites gracilis. (Rhynchitidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 374. *Fig.* 246, on *p.* 371.
 1872. " Monde prim. Suisse, 458. *Fig.* 246, on *p.* 455.
 1876. " Prim. world Switz., ii: 29. *Fig.* 246, on *p.* 27.
 1879. " Urwelt der Schweiz, 2^e Aufl., 390. *Fig.* 288, on *p.* 397.

3893. Apate ———. (Ptinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.
 1836. " Man. ent., 577.

3894. Apate ———. (Ptinidæ.)Compared with *A. capucina*.

Locality: Aix, France. Horizon: Ligurian

1829. Serres. Géogn. terrains tert., 224.

3895. Apate ———. (Ptinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 241.

3896. Aphodius ———. (Scarabæidæ.)Compared with *A. fimetarius* Fabr.

Locality: Habichtswald, Germany. Horizon: "Polirschiefer."

1843. Landgrebe. Neues Jahrb. f. min., 1843: 141-142.

3897. Aphodius antiquus. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 66-67. *Pl.* 7, *fig.* 28.
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 40.

3898. Aphodius brevipennis. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 77-78. *Pl.* 6, *fig.* 21.

3899. Aphodius fossor (recent). (Scarabæidæ.)

Locality: Prussian amber. Horizon: Ligurian.

- [1746. Linné. Faun. suec., 134.]
 1838. Robert. Bull. soc. géol. France, ix: 114.

3900. Aphodius krantzi. (Scarabæidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 140. *Pl.* 22, *fig.* 24.
 1866. " Käfer u. polypen, 10. *Pl.* 1, *fig.* 24.

3901. Aphodius meyeri. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 67. *Pl.* 7, *fig.* 27.
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 40.

3902. Aphodius præcursor. (Scarabæidæ.)

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. ent. soc., v: 245.
 1889. Lesley. Dict. foss. Penns., i: p. v.
 1890. Scudder. Tert. ins. N. A., 488-489. *Pl. 1, fig. 11.*

3903. Apion ———. (Curculionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3904. Apion ———. (Curculionidæ.)Compared with *A. trifolii*.

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. Käfer unterpleist. Hösbach, 10. *Pl. 2, fig. 9.*
 1884. “ Verhandl. physik.-med. gesellsch. Würzburg, n. f., xviii: 294
 Pl. 2, fig. 9.

3905. Apion ——— (2 sp.). (Curculionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3906. Apion ——— (4 sp.). (Curculionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3907. Apion ———. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 222, 267.

Apion ———. See ——— ——— (Carabidæ) Baily.**3908. Apion antiquum.** (Curculionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig. 242, on p. 371.*
 1872. “ Monde prim. Suisse. *Fig. 242, on p. 455.*
 1876. “ Prim. world Switz., ii. *Fig. 242, on p. 27.*
 1879. “ Urwelt der Schweiz, 2^e Aufl. *Fig. 234, on p. 397.*

3909. Apion primigenius. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS. in Oustalet.
 See also *Celiodes primigenius*.

3910. Apion primordiale. (Curculionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Hayd.-Heyd. Palæontogr., xv: 148. *Pl. 23, fig. 9.*
 1866. “ Käfer u. polypen, 18. *Pl. 2, fig. 9.*

Argutor ———. See *Harpalus* (*Argutor* or *Ophonas*) ———.

3911. Argutor antiquus. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 22-23. *Pl. 1, fig. 5.*

1852. Giebel. Deutschl. petref., 655.

See also *Pterostichus antiquus*.**Argutor diligens.** See *Feronia (Argutor) diligens*.**Argutor minutulus.** See *Pterostichus (Argutor) minutulus*.**3912. Argutor vernalis.** (Carabidæ.)

Locality: Basel, Switzerland. Horizon: Interglacial.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 84.

See also *Pterostichus vernalis*.**3913. Arthropterus kuhlii.** (Paussidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1877. Stein. Mittheil. münch. entom. ver., i: 29.

3914. Asida ——. (Tenebrionidæ.)Compared with *A. grisea*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 222, 266-267.

3915. Astynomus tertiaris. (Cerambycidæ.)

Locality: Zschipkau, Nieder Lausitz. Horizon: Braunkohl.

1888. Kolbe. Zeitschr. deutsch. geol. gesellsch., xl: 134-135. *Pl. 11, figs. 5, 6.***3916. Atomaria protogæa.** (Cryptophagidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 53. *Pl. 3, figs. 32, 32b.***3917. Atopa** ——. (Dasyllidæ.)Compared with *A. cervina*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 251.

3918. Atopa cervina (recent). (Dasyllidæ.)

Locality: Cambridge, England. Horizon: Peat.

1888. Bell. Entom., xxi: 2.

See also *Dasyllus cervinus*.**3919. Atractocerus** ——. (Lymexylidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1825. Guérin. Dict. class. d'hist. nat., viii: 580 (*Atractocère*).

1829. Serres. Géogn. terrains tert., 241.

3920. Attagenus extinctus. (Dermestidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 31-32. *Pl. 9, fig. 14.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 799. *Fig. 1047.*1886. " Zittel-Barrois, Traité de paléont., ii: 799. *Fig. 1064.*

3921. Attelabus ——. (Attelabidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 168-170. *Pl. 3, figs. 7-8.*

3922. Attelabus durus. (Attelabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 373. *Fig. 244, on p. 371.*
 1872. " *Monde prim. Suisse*, 458. *Fig. 244, on p. 455.*
 1876. " *Prim. world Switz.*, ii: 29. *Fig. 244, on p. 27.*
 1879. " *Urwelt der Schweiz*, 2^e Aufl., 399. *Fig. 286, on p. 397.*

3923. Badister debilis. (Carabidæ.)

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg. Oeningen*, i: 20-21. *Pl. 8, fig. 1.*
 1852. Giebel. *Deutschl. petref.*, 655.
 1856. " *Insect. d. vorwelt*, 68.

3924. Badister fragilis. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch.*, xvi: 21. *Pl. 1, figs. 9, 10.*

3925. Badister grandis. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch.*, xvi: 19-20. *Pl. 1, figs. 5, 5b, 6, 6b.*

3926. Badister macrocephalus. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch.*, xvi: 19. *Pl. 1, fig. 8.*
 See also *Badister macrocephalus* var. *major*.

3927. Badister macrocephalus var. *major.* (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch.*, xvi: 19. *Pl. 1, fig. 7.*
 See also *Badister macrocephalus*.

Badister major. See *Badister macrocephalus* var. *major*.**3928. Badister prodromus.** (Carabidæ.)

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg. Oeningen*, i: 18-20. *Pl. 1, fig. 3.*
 1852. Giebel. *Deutschl. petref.*, 655.
 1856. " *Insect. d. vorwelt*, 67-68.

3929. Bagous ——. (2 sp.). (Curculionidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. *In litt.*

3930. Bagous atavus. (Curculionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. *Ann. sc. géol.*, ii, art. 3: 76. *Pl. 1, fig 11.*

3931. *Balaninus barthelemyi*. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 254. *Pl.* 19, *figs.* 1, 1*.

1856. Giebel. Insect. d. vorwelt, 147 (Barthelemy).

1874. Oustalet. Ann. sc. géol., v, art. 2: 294.

3932. *Balaninus geinitzi*. (Curculionidæ.)

Compared with *B. apicalis*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 22. *Pl.* 21, *figs.* 8, 8a.

1881. " Verhandl. leop.-carol. akad. naturf., xlii: 314. *Pl.* 21, *figs.* 8, 8a.

3933. *Baridium* ———. (Curculionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3934. *Baris* ———. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 351 (fide Serres MSS.).

3935. *Bembicidioides inæquicollis*. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1888. Schaufuss. Berl. ent. zeitschr., xxxii: 267-268.

3936. *Bembidium* ———. (Carabidæ.)

Locality: Jarville, France. Horizon: Pleistocene.

1875. Fliche. Comptes rendus, lxxx: 1234.

3937. *Bembidium* ———. (Carabidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass.-Lothr., ii: 103.

3938. *Bembidium absolutum*. (Carabidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1856. Giebel. Insect. d. vorwelt, 64 (refers to "Heer, Insectenfauna i, tf. 10, fig. 91," which does not exist, and moreover Heer describes no *Bembidium* from Radoboj, and Giebel's short description fits no Radoboj carabid figured by Heer).

3939. *Bembidium assimile* (recent). (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1810. Gyllenhal. Ins. suec., ii: 26.]

1884. Flach. Käfer unterpleist. Hösbach, 7. *Pl.* 1, *fig.* 12.

1884. " Verhandl. physik.-med. gesellsch. Würzburg, n. f., xviii: 291. *Pl.* 8, *fig.* 12.

3940. *Bembidium exoletum*. (Carabidæ.)

Compared with *B. inaequale*

Locality: White River, Colo. or Utah. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 77-78.

1877. " Bull. U. S. geol. surv. terr., iii: 759.

1890. " Tert. ins. N. A., 530-531. *Pl.* 5, *figs.* 121, 122.

3941. *Bembidium fragmentum*. (Carabidæ.)Compared with *B. constrictum* Say.

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 531-532. *Pl. 1, fig. 45.***3942. *Bembidium glaciatum*. (Carabidæ.)**Compared with *B. longulum* LeC.

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 531. *Pl. 1, fig. 40.***3943. *Bembidium infernum*. (Carabidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 14. *Pl. 1, fig. 1.*1874. Oustalet. Ann. sc. géol., v, art. 2: 98. *Pl. 6, fig. 12.***3944. *Bembidium nitidulum* (recent). (Carabidæ.)**

Locality: Jarville, France. Horizon: Pleistocene.

[1802. Marshall. Ent. brit., 454.]

1875. Fliche. Comptes rendus, lxxx: 1234.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 84.

3945. *Bembidium obtusum* (recent). (Carabidæ.)

Locality: Jarville, France. Horizon: Pleistocene.

[1825. Sturm. Ins., vi: 165. *Pl. 161, figs. c, C.*]

1875. Fliche. Comptes rendus, lxxx: 1234.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 84.

3946. *Bembidium saportanum*. (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS.

1874. Oustalet. Ann. sc. géol., v, art. 2: 98-100. *Pl. 1, fig. 7.***3947. *Bembidium succini*. (Carabidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 64.

3948. *Berosus sexstriatus*. (Hydrophilidæ.)Compared with *B. punctipennis* Chevr. (MSS.), Mexico.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 760-761.

1890. " Tert. ins. N. A., 513-514. *Pl. 7, fig. 40.***3949. *Berosus tenuis*. (Hydrophilidæ.)**Compared with *B. cuspidatus* Chevr., Mexico.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 760.

1890. " Tert. ins. N. A., 514. *Pl. 8, fig. 8.***3950. *Bledius* ———. (Staphylinidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 23.

3951. *Bledius adamus*. (Staphylinidæ.)Compared with *B. annularis* LeC.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Seudder. Bull. U. S. geol. surv. terr., iv: 762.

1890. " Tert. ins. N. A., 504. Pl. 8, fig. 10.

3952. *Bledius glaciatus*. (Staphylinidæ.)Compared with *B. brevidens* LeC.

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Seudder. Tert. ins. N. A., 505. Pl. 1, fig. 35.

3953. *Bledius speciosus*. (Staphylinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 46-47. Pl. 3, fig. 2.

1865. " Urwelt der Schweiz, 353. Fig. 278, on p. 381.

1872. " Monde prim. Suisse, 469. Fig. 278, on p. 467.

1876. " Prim. world Switz., ii: 40. Fig. 278, on p. 38.

1879. " Urwelt der Schweiz, 2^e aufl., 408. Fig. 320, on p. 407.**3954. *Bolboceras tertiarium*. (Scarabeidæ.)**

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 12-14. Pl. 21, figs. 2, 2ab.

1881. " Verhandl. leop.-carol. akad. naturf., xlii: 304-306. Pl. 21, figs. 2, 2ab.

Boletophagus* ———. See *Bolitophagus* ———.*3955. *Bolitophagus* ———. (Tenebrionidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 56 (*Boletophagus*).**3956. *Bolitophagus vetustus*. (Tenebrionidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palacontogr., xv: 145. Pl. 22, fig. 23.

1866. " Käfer u. polypen, 15. Pl. 1, fig. 23.

Bostrichus* ———. See *Bostrychus* ——— Hope, Menge.*3957. *Bostrychus* ———. (Ptinidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.

1836. " Man. ent., 577.

3958. *Bostrychus* ———. (Ptinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 251 (*Bostrichus*).**3959. *Bostrychus* ——— (larva). (Ptinidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23 (*Bostrichus*).

3960. Bothriдерes kunowi. (Colydiidæ.)Compared with *B. vittatus*, Australia.

Locality: Prussian amber. Horizon: Ligurian.

1881. Stein. Berl. entom. zeitschr., xxv: 221.

3961. Bothriдерes succinicola. (Colydiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1881. Stein. Berl. entom. zeitschr., xxv: 221.

Brachinus primordialis. See *Brachynus primordialis*.**3962. Brachycerus** ———. (Byrsopidæ.)Compared with *B. algirus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert. 223.

3963. Brachycerus ———. (Byrsopidæ.)Compared with *B. hispanicus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 223.

1874. Oustalet. Ann. sc. géol., v, art. 2: 211 (= *Hipporhinus heeri*?).See also *Hipporhinus heeri*.**3964. Brachycerus** ———. (Byrsopidæ.)Compared with *B. undatus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 223, 272 (*Brachyurus*). Pl. 5, fig. 8.**3965. Brachycerus exilis.** (Byrsopidæ.)

Locality: Aix, France. Horizon: Ligurian.

1837. Germar. Fauna insect. Europæ, xix: 11. Pl. 11.

1856. Giebel. Insect. d. vorwelt, 137.

1874. Oustalet. Ann. sc. géol., v, art. 2: 211 (= *Phytonomus annosus*?).See also *Phytonomus annosus*.**3966. Brachycerus germanus.** (Byrsopidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 180-182. Pl. 6, fig. 9.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 136-137.

3967. Brachycerus lecoquii. (Byrsopidæ.)

Locality: Gergovia, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 65. Pl. 1, fig. 4.

3968. Brachycerus nanus. (Byrsopidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. Fig. 247, on p. 371.

1872. " Monde prim. Suisse. Fig. 247, on p. 455.

1876. " Prim. world Switz., ii. Fig. 247, on p. 27.

1879. " Urwelt der Schweiz, 2^e Aufl. Fig. 259, on p. 397.

3969. Brachyderes aquisextanus. (Otiiorhynchidæ.)

Locality: Aix, France. Horizon: Lignurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 242-245. Pl. 3, figs. 12, 12a.

3970. Brachyderes longipes. (Otiiorhynchidæ.)

Locality: Aix, France. Horizon: Lignurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 235-242. Pl. 3, figs. 22, 23.

See also *Hipporhinus longipes*, Cleonus — Heer.**3971. Brachymycterus curculionoides.** (Byrsopidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr. xv: 148-149. Pl. 23, figs. 13-15.

1866. " Käfer u. polypen, 18-19. Pl. 2, figs. 13-15.

1870. L. Heyden. Foss dipt. Rott, 29.

1870. " Palaeontogr., xvii: 265.

3972. Brachynus primordialis. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 16 (*Brachinus*). Pl. 7, fig. 18.

1852. Giebel. Deutschl. petref., 655.

1856. " Insect. d. vorwelt, 70.

3973. Brachytarsus pristinus. (Anthribidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 87.

1878. " Bull. U. S. geol. surv. terr., iv: 769.

1890. " Tert. ins. N. A., 466. Pl. 7, fig. 26.

Brachyurus —. See *Brachycerus* — Serres.**3974. Bruchus** —. (Bruchidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

3975. Bruchus — (2 sp.). (Bruchidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

3976. Bruchus —. (Bruchidæ.)

Locality: Aix, France. Horizon: Lignurian.

1829. Serres. Géogn. terrains tert., 222.

3977. Bruchus anilis. (Bruchidæ.)

Locality: White River, Colo. Horizon: Oligocene

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 82.

1877. " Bull. U. S. geol. surv. terr., iii: 759.

1890. " Tert. ins. N. A., 484. Pl. 5, fig. 125.

3978. Bruchus bituminosus. (Bruchidæ.)

Locality: Arzberg, Germany. Horizon: Miocene?

1837. Germar. Fauna insect. Europæ, xix: 10. Pl. 10.

1840. —. Verz. samml. Bayr., 71.

1856. Giebel. Insect. d. vorwelt, 133.

3979. *Bruchus decrepitus*. (Bruchidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Heyden. Palaeontogr., v: 116. Pl. 23, fig. 13.

3980. *Bruchus striolatus*. (Bruchidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insectenf. tertiärg. Oeningen, i: 174-176. Pl. 6, fig. 5.
 1852. Giebel. Deutschl. petref., 649.
 1856. " Insect. d. vorwelt, 133-134.
 1865. Heer. Urwelt der Schweiz, 374.
 1872. " Monde prim. Suisse, 458.
 1876. " Prim. world Switz., ii: 29.
 1879. " Urwelt der Schweiz, 2^e Aufl., 399.

3981. *Bryaxis* ———. (Pselaphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

3982. *Buprestis* ———. (Buprestidæ.)

Locality: Lexden, England. Horizon: Pleistocene.

1888. Bell. Entom., xxi: 2.

3983. *Buprestis* ———. (Buprestidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian?.

1831. Goldfuss. Verhandl. leop.-carol. akad. naturf., vii, th. i: 118.

3984. *Buprestis* ——— (larva). (Buprestidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

3985. *Buprestis* ———. (Buprestidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1838. Robert. Bull. soc. géol. France, ix: 114.

3986. *Buprestis* ———. (Buprestidæ.)

Compared with *B. nana*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 221.

3987. *Buprestis alutacea*. (Buprestidæ.)

Compared with *B. marianæ*.

Locality: Vic. Bonn, Rhenish Prussia. Horizon: Aquitanian.

1837. Germar. Fauna insect. Europæ, xix: 3. Pl. 3.

1852. Giebel. Deutschl. petref., 651.

1856. " Insect. d. vorwelt, 79.

See also *Buprestites alutacea*.

3988. Buprestis carbonum. (Buprestidæ.)Compared with *B. mæsta*.

Localities: Bonn, Baireuth, Rhenish Prussia. Horizon: Aquitanian.

1837. Germar. Isis., 1837: 423 (undescrib.).
 1837. " Fauna insect. Europæ, xix: 4. Pl. 4.
 1840. ———. Verz. samml. Bayr., 71.
 1852. Giebel. Deutschl. petref., 651.

See also *Dicerca carbonum*, *Buprestites carbonum*.**3989. Buprestis major.** (Buprestidæ.)Compared with *B. cariosæ*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian.

1837. Germar. Fauna insect. Europæ, xix: 2. Pl. 2.
 1847. Heer. Insektenf. tertiärg. Oeningen, i: 102.
 1852. Giebel. Deutschl. petref., 651.
 1856. " Insect. d. vorwelt, 78-79.

See also *Buprestites major*.**3990. Buprestis meyeri.** (Buprestidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Heyden. Palaeontogr., v: 115. Pl. 23, fig. 11.

3991. Buprestis minnæ. (Buprestidæ.)

Locality: Schwarze Minna, vicinity Eisleben, Saxony. Horizon: ———.

1856. Giebel. Insect. d. vorwelt, 79.

See also *Buprestites minnæ*.**3992. Buprestis saxigena.** (Buprestidæ.)

Locality: Nicola River, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-78: B 181.
 1879. " Insect. tert. Nicola, 6.
 1890. " Tert. ins. N. A., 494-495. Pl. 2, figs. 24, 25.

3993. Buprestis senecta. (Buprestidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Heyden. Palaeontogr., v: 116. Pl. 23, fig. 12.

3994. Buprestis sepulta. (Buprestidæ.)

Locality: Nicola River, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-78: B 181.
 1879. " Insect. tert. Nicola, 6.
 1890. " Tert. ins. N. A., 495. Pl. 2, fig. 26.

3995. Buprestis tertiaria. (Buprestidæ.)

Locality: Nicola River, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-78: B 180-181.
 1879. " Insect. tert. Nicola, 5-6.
 1890. " Tert. ins. N. A., 493-494. Pl. 2, fig. 23.

3996. Buprestis tradita. (Buprestidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 3. Pl. 2, fig. 9.

3997. *Buprestis xylographica.* (Buprestidæ.)

Locality: Stösschen, vicinity Linz, Austria. Horizon: Miocene.

1849. Germar. Zeitschr. deutsch. geol. gesellsch., i: 55-57. *Pl. 2, fig. 1.*

1852. Giebel. Deutschl. petref., 651.

See also *Chrysobothris xylographica*, *Buprestites xylographica*.

3998. *Buprestites agriloides* (1). (Buprestidæ.)

Distinct from the next.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 90. *Pl. 7, fig. 24.*

3999. *Buprestites agriloides* (2). (Buprestidæ.)

Distinct from the preceding.

Locality: Haseninsel, Greenland. Horizon: ———.

1883. Heer. Flora foss. grönl., ii: 144. *Pl. 109, figs. 11, 11b.*

4000. *Buprestites alutacea.* (Buprestidæ.)

Locality: Bonn, Rhenish Prussia. Horizon: Aquitanian.

1852. Giebel. Deutschl. petref., 651.

See also *Buprestis alutacea*.

4001. *Buprestites carbonum.* (Buprestidæ.)

Locality: Bonn, Rhenish Prussia. Horizon: Aquitanian.

1852. Giebel. Deutschl. petref., 651.

See also *Buprestis carbonum*, etc.

4002. *Buprestites debilis.* (Buprestidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1860. Heer. Hassencamp, Würzb. naturwiss. zeitschr, i: 79 (undescri.).

4003. *Buprestites exstinctus.* (Buprestidæ.)

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1847. Heer. Insektenf. tertiärz. Oeningen, i: 129-130 (exstincta). *Pl. 3, fig. 13.*

1852. Giebel. Deutschl. petref., 651 (exstincta).

1856. " Insect. d. vorwelt, 79.

Buprestites exstincta. See *Buprestites exstinctus*.

4004. *Buprestites falconeri.* (Buprestidæ.)

Locality: Bovey Tracey, Devonshire, England. Horizon: Miocene.

1862. Heer. Phil. trans., clii: 1082. *Pl. 68, fig. 21.*

4005. *Buprestites major.* (Buprestidæ.)

Locality: Bonn, Rhenish Prussia. Horizon: Aquitanian.

1852. Giebel. Deutschl. petref., 651.

See also *Buprestis major*.

4006. *Buprestites minnæ.* (Buprestidæ.)

Locality: Vicinity Eisleben, Saxony. Horizon: ———.

1856. Giebel. Zeitschr. ges. naturwiss., vii: 384-385. *Pl. 5, fig. 1.*

See also *Buprestis minnæ*.

4007. Buprestites œningensis. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 128-129. *Pl. 2, fig. 17.*
 1852. Giebel. Deutschl. petref., 651.
 1856. " Insect. d. vorwelt, 79.

4008. Buprestites xylographicus. (Buprestidæ.)

Locality: Linz, Austria. Horizon: Miocene.

1852. Giebel. Deutschl. petref., 651 (xylographica).

See also *Buprestis xylographica*, etc.

4009. Byrrhus ———. (Byrrhidæ.)

Locality: Mundesley, England. Horizon: Pleistocene.

1888. Bell. Entom., xxi: 2.

4010. Byrrhus ———. (Byrrhidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4011. Byrrhus exanimatus. (Byrrhidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 139-140. *Pl. 24, fig. 22.*
 1866. " Käfer u. polypen, 9-10. *Pl. 3, fig. 22.*

4012. Byrrhus lucæ. (Byrrhidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 3. *Pl. 1, fig. 7.*

4013. Byrrhus œningensis. (Byrrhidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 44-46. *Pl. 2, figs. 5, 9, 9b-d.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 49.
 1862. Heer. Verdandl. holl. maatsch. wetensch., xvi: 57. *Pl. 3, fig. 25.*
 See also *Byrrhus pauper*.

4014. Byrrhus pauper. (Byrrhidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1851. Stizenberger. Uebers. verstein. Baden, 101 (as of Heer. Name only; by mistake for *B. œningensis*?).

See also *Byrrhus œningensis*.

4015. Bythinus ———. (Pselaphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 22.

Calænius punctulatus. See *Chlænius punctulatus*.

4016. Calandra ———. (Calandridæ.)

Locality: Aix, France. Horizon: Ligurian.

1854. Pietet. *Traité de paléont.*, 2^e éd., ii: 351 (fide Serres MSS.).

Calasposoma ———. See *Colasposoma* ———.

4017. Calathus ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4018. Callidium ———. (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4019. Callidium ———. (Cerambycidæ.)Compared with *C. fennicum*.

Locality: Uznach, Switzerland. Horizon: Pleistocene ?.

1839. Brullé. Gism. ins. foss., 20.

4020. Callidium ———. (Cerambycidæ.)Compared with *C. abdominale*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 225.

4021. Callidium escheri. (Cerambycidæ.)Compared with *C. strepens*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 375. *Fig. 253, on p. 376.*1872. " Monde prim. Suisse, 460. *Fig. 253, on p. 461.*1876. " Prim. world Switz., ii: 31. *Fig. 253, on p. 32.*1879. " Urwelt der Schweiz, 2^e Aufl., 401. *Fig. 295, on p. 402.***4022. Callidium procerum.** (Cerambycidæ.)Compared with *C. strepens*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 375.

1872. " Monde prim. Suisse, 460.

1876. " Prim. world Switz., ii: 31.

1879. " Urwelt der Schweiz, 2^e Aufl., 401.**Callisthenes agassizii.** See *Calosoma* (*Callisthenes*) *agassizii*.**4023. Calosoma agassizii.** (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Onstalet. La nature, iii: 33. *Fig.*See also *Calosoma* (*Callisthenes*) *agassizii*, etc.**4024. Calosoma (Callisthenes) agassizii.** (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Onstalet. Ann. sc. géol., v, art. 2: 84-92 (Agassiz). *Pl. 1, figs. 2, 2abc.*See also *Carabus agassizi*, *Calosoma saportanum*, *Calosoma agassizii*.**4025. Calosoma caraboides.** (Carabidæ.)Compared with *C. longipenne* Dej., South America.

Localities: Locle, Switzerland; Oeningen, Baden. Horizon: Tortonian.

1860. Heer. Foss. calosomen, 7-8. *Pl., fig. 7.*

1865. " Urwelt der Schweiz, 384, 385.

1872. " Monde prim. Suisse, 471.

1876. " Prim. world Switz., ii: 41, 42.

1879. " Urwelt der Schweiz, 2^e Aufl., 410.

4026. Calosoma catenulatum. (Carabidæ.)Compared with *C. sayi* and *C. rugosum* Dej., America.

Localities: Bonn, Rhenish Prussia; Oeningen, Baden. Horizons: Aquitanian, Tortonian.

1860. Heer. Foss. calosomen, 4-5. *Pl.*, *fig.* 3.
 1865. " Urwelt der Schweiz, 384.
 1872. " Monde prim. Suisse, 471.
 1876. " Prim. world Switz., ii: 41.
 1879. " Urwelt der Schweiz, 2^e Aufl., 410.

4027. Calosoma deplanatum. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1860. Heer. Foss. calosomen, 6. *Pl.*, *fig.* 6.

4028. Calosoma escheri. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1860. Heer. Foss. calosomen, 7. *Pl.*, *fig.* 5.

4029. Calosoma escrobiculatum. (Carabidæ.)Compared with *C. brunneum*, Peru.

Locality: Oeningen, Baden. Horizon: Tortonian.

1860. Heer. Foss. calosomen, 6-7. *Pl.*, *figs.* 4*ab*.

4030. Calosoma jaccardi. (Carabidæ.)Compared with *C. inquisitor* F., Europe.

Locality: Locle, Switzerland. Horizon: Miocene.

1860. Heer. Foss. calosomen, 4. *Pl.*, *fig.* 2.
 1865. " Urwelt der Schweiz, 384.
 1872. " Monde prim. Suisse, 471.
 1876. " Prim. world Switz., ii: 41.
 1879. " Urwelt der Schweiz, 2^e Aufl., 410.

4031. Calosoma nauckianum. (Carabidæ.)Compared with *C. maderæ* F., Madeira.

Locality: Oeningen, Baden. Horizon: Tortonian.

1860. Heer. Foss. calosomen, 5-6. *Pl.*, *fig.* 3.
 1862. " Verhandl. holl. maatsch. wetensch., xvi: 17-18. *Pl.* 1, *fig.* 4.
 1865. " Urwelt der Schweiz, 384. *Fig.* 283.
 1872. " Monde prim. Suisse, 471 (*nauckianum*). *Fig.* 283
 1876. " Prim. world Switz., ii: 41. *Fig.* 283, on p. 42.
 1879. " Urwelt der Schweiz, 2^e Aufl., 410. *Fig.* 325.

Calosoma naukianum. See *Calosoma nauckianum*.**4032. Calosoma saportanum.** (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS. in Oustalet, Ann. sc. géol., v, art. 2: 84, 91-92. (= *C. agassizii* fide Oust.) *Pl.* 1, *fig.* 2*b*.

See also *Calosoma* (*Callisthenes*) *agassizii*, etc.

4033. Campsosternus atavus. (Elateridæ.)Compared with *C. gemma* and *C. fulgens*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 14-16. *Pl.* 21, *figs.* 4a-c.1881. " Verhandl. leop.-carol. acad. naturf., xlii: 306-308. *Pl.* 21, *figs.* 4a-c.**4034. Cantharis** ———. (Meloidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4035. Cantharis ———. (Meloidæ.)Compared with *C. nigricans* Fabr.

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.

1836. " Man. ent., 577.

4036. Cantharis ———. (Meloidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian?

1831. Goldfuss. Verhandl. leop.-carol. akad. naturf., vii, i: 118.

Capnodis abdominalis. See *Capnodis puncticollis-abdominalis*.**4037. Capnodis antiqua.** (Buprestidæ.)Compared with *C. cariosa* Pall.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 95-102, 221. *Pl.* 2, *fig.* 18; *pl.* 3, *fig.* 1.

1852. Giebel. Deutschl. petref., 652.

1854. Pictet. Traité de paléont., 2^e éd., ii: 331. *Pl.* 40, *fig.* 14.

1856. Giebel. Insect. d. vorwelt, 81.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 83. *Pl.* 7, *figs.* 17, 18.1865. " Urwelt der Schweiz, 377. *Fig.* 260, on *p.* 378.1872. " Monde prim. Suisse, 463. *Fig.* 260.1876. " Prim. world Switz., ii: 33. *Fig.* 260, on *p.* 34.1879. " Urwelt der Schweiz, 2^e auf. 403. *Fig.* 302, on *p.* 404.See also *Capnodis antiqua* var. *minor*.**4038. Capnodis antiqua var. minor.** (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 100-101. *Pl.* 3, *fig.* 1b.See also *Capnodis antiqua*.**Capnodis compressa.** See *Capnodis puncticollis-compressa*.**Capnodis minor.** See *Capnodis antiqua* var. *minor*.**4039. Capnodis puncticollis.** (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 102-104. *Pl.* 3, *fig.* 3.

1852. Giebel. Deutschl. petref., 652.

1856. " Insect. d. vorwelt, 81-82.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 84. *Pl.* 7, *figs.* 15, 16.See also *Capnodis puncticollis-abdominalis*, *C. puncticollis-compressa*.

4040. Capnodis puncticollis-abdominalis. (Buprestidæ.)

Locality: (Oeningen, Baden.) Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 104-105. *Pl. 3, fig. 3c.*
See also *Capnodis puncticollis*, etc.

4041. Capnodis puncticollis-compressa. (Buprestidæ.)

Locality: (Oeningen, Baden.) Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 104. *Pl. 3, fig. 3b.*
See also *Capnodis puncticollis*, etc.

4042. Capnodis spectabilis. (Buprestidæ.)Compared with *C. cariosa* Pall.

Locality: (Oeningen, Baden.) Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 83-84. *Pl. 7, figs. 12-14*
1865. " Urwelt der Schweiz, 377. *Fig. 261, on p. 378.*
1872. " Monde prim. Suisse, 463. *Fig. 261.*
1876. " Prim. world Switz., ii: 34. *Fig. 261.*
1879. " Urwelt der Schweiz, 2^e Aufl., 403. *Fig. 303, on p. 404.*

Caprologus gracilis. See *Coprologus gracilis*.**4043. Carabites cordicollis.** (Carabidæ.)

Locality: Dürnten, Switzerland. Horizon: Interglacial.

1865. Heer. Urwelt der Schweiz, 502. *Fig. 359, on p. 501.*
1872. " Monde prim. Suisse, 615-616. *Fig. 359, on p. 614.*
1876. " Prim. world Switz., ii: 169. *Fig. 359, on p. 168.*
1879. " Urwelt der Schweiz, 2^e Aufl., 532. *Fig. 402, on p. 531.*

4044. Carabites diluvianus. (Carabidæ.)

Locality: Dürnten, Switzerland. Horizon: Interglacial.

1865. Heer. Urwelt der Schweiz, 502. *Figs. 357a-c, on p. 501.*
1872. " Monde prim. Suisse, 615-616. *Figs. 357a-c, on p. 614.*
1876. " Prim. world Switz., ii: 169. *Figs. 357a-c, on p. 168.*
1879. " Urwelt der Schweiz, 2^e Aufl., 532. *Fig. 400, on p. 531.*
See also *Carabites (Harpalus?) diluvianus*.

4045. Carabites (Harpalus?) diluvianus. (Carabidæ.)

Locality: Dürnten, Switzerland. Horizon: Interglacial.

1865. Heer. Urwelt der Schweiz, expl. fig. 357, on p. 501.
1872. " Monde prim. Suisse, expl. fig. 357, on p. 614.
1876. " Prim. world Switz., ii: expl. fig. 357, on p. 168.
See also *Carabites diluvianus*.

4046. Carabites exilis. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 35. *Pl. 1, fig. 28.*

4047. Carabites feildenianus. (Carabidæ.)Locality: Watercourse Raviue, near Discovery Harbor, Grinnell Land.
Horizon: Miocene.

1878. Heer. Quart. Journ. Geol. Soc. Lond., xxxiv: 69.
1878. " Miocene flora Grinnell-landes, 38. *Pl. 9, figs. 11, 11b.*
1878. " Flora foss. arct., v, i: 38. *Pl. 9, figs. 11, 11b.*

4048. Carabites hyperboreus. (Carabidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. 7: 73. *Pl.* 16, *figs.* 34-35.**4049. Carabites islandicus.** (Carabidæ.)

Locality: Iceland. Horizon: Miocene.

1868. Heer. Flora foss. arct., i: 154. *Pl.* 27, *figs.* 21, 21b.**4050. Carabites læsicollis.** (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl maatsch. wetensch., xvi: 35. *Pl.* 1, *fig.* 27.**4051. Carabites nitens.** (Carabidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. 7: 73. *Pl.* 16, *figs.* 19, 20, 20bc.**4052. Carabus** ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

4053. Carabus ———. (Carabidæ.)

Locality: Glücksbrunn, Hesse. Horizon: Braunkohl.

1820. Schlotheim. Petrefactenk., 44.

4054. Carabus agassizi. (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1850. Barthélemy. Car. d'Agass., 1-4.

1851. " Guér., Rev. et mag. zool., (2), iii: 203.

1856. Giebel. Insect. d. vorwelt, 61.

See also Calosoma (Callisthenes) agassizi, etc.

4055. Carabus arvensis (recent). (Carabidæ.)

Locality: Schwerzenbach, Switzerland. Horizon: Glacial clay.

[1787. Fabricius. Mant. ins., i: 196.]

1879. Heer. Urwelt der Schweiz, 2^e Aufl., 581. *Pl.* 12, *figs.* 14, 14b.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 85.

4056. Carabus nitens. (Carabidæ.)

Locality: Garvel Park, Clyde, England. Horizon: Pleistocene.

1888. Bell. Entom., xxi: 2 (Carbera).

4057. Carabus novalensis. (Carabidæ.)

Locality: Novale, Italy. Horizon: ———.

1886. Omboni. Alc. foss. ins. Ven., 10-11. *Pl.* 3, *fig.* 15.1886. " Atti r. ist. ven., (6), iv: 1430-1431. *Pl.* 3, *fig.* 15.**4058. Carabus thürachii.** (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. Käfer unterpleist. Hösbach, 3. *Pl.* 1, *fig.* 1.1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 287. *Pl.* 8, *fig.* 1.**Carbera nitens.** See *Carabus nitens*.

4059. Cardiophorus ——. (Elateridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Smith. Quart. journ. sc., v: 184. *Pl.*, fig. 6.**4060. Cardiophorus braunii.** (Elateridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 134-135. *Pl.* 4, fig. 4.

1852. Giebel. Deutschl. petref., 651.

1856. " Insect. d. vorwelt, 97.

4061. Caryoborus ruinosus. (Bruchidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 8-9. *Pl.* 2, fig. 1.**4062. Caryoborus striolatus.** (Bruchidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1861. Heer. Rech. climat pays tert., 203 (undeser.).

4063. Cassida ——. (Chrysomelidæ.)Compared with *C. equestris* Fabr.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ. vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

4064. Cassida ——. (Chrysomelidæ.)Compared with *C. viridis* Fabr.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

4065. Cassida ——. (Chrysomelidæ.)

Locality: Zimmersheim, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 150, 165.

1889. " Mitth. comm. geol. Elsass-Lothr., ii: 102.

4066. Cassida ——. (3 sp.). (Chrysomelidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 165.

1889. " Mitth. comm. geol. Elsass-Lothr., ii: 102.

4067. Cassida ——. (Chrysomelidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 251.

4068. Cassida ——. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 21.

4069. Cassida ———. (Chrysomelidæ.)Compared with *C. meridionalis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 225.

See also *Chrysomela* ——— Burm.**4070. Cassida** ———. (Chrysomelidæ.)

Locality: Loxden, England. Horizon: Peat beds.

1863. Wollaston. Quart. Journ. Geol. Soc. Lond., xix, i: 401, No. 4.

1888. Bell. Entom., xxi: 2.

Cassida ———. See *Coccinella* (or *Cassida*) ———.**Cassida** ———. See *Cosyphus* (or *Cassida*) ———.**4071. Cassida blancheti**. (Chrysomelidæ.)Compared with *C. thoracica* Kug.

Localities: Oeningen, Baden; Aix, France. Horizons: Tortonian, Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 25-26. Pl. 1, fig. 17.

1865. " Urwelt der Schweiz, 372. Fig. 239, on p. 371.

1872. " Monde prim. Suisse, 456. Fig. 239, on p. 455.

1874. Oustalet. Ann. sc. géol., v, art. 2: 340-344. Pl. 4, fig. 15.

1876. Heer. Prim. world Switz., ii: 27. Fig. 239.

1879. " Urwelt der Schweiz, 2^e Aufl., 398. Fig. 281, on p. 397.**4072. Cassida hermione**. (Chrysomelidæ.)Compared with *C. murraea* F.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiär. Oeningen, i: 205-206. Pl. 7, fig. 6.

1852. Giebel. Deutschl. petref., 648.

1856. " Insect. d. vorwelt, 114.

1865. Heer. Urwelt der Schweiz, 372.

1872. " Monde prim. Suisse, 456.

1876. " Prim. world Switz., ii: 27.

1879. " Urwelt der Schweiz, 2^e Aufl., 398.**4073. Cassida interemta**. (Chrysomelidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 74. Pl. 10, fig. 16.

4074. Cassida megapenthes. (Chrysomelidæ.)

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1847. Heer. Insektenf. tertiär. Oeningen, i: 206-207. Pl. 8, fig. 10.

1852. Giebel. Deutschl. petref., 648.

1856. " Insect. d. vorwelt, 114.

4075. Catops ———. (Silphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

Cerambyx ———. See *Cerambyx* ——— Berendt, Bloch.

4076. Cerambycites ———. (Cerambycidae.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4077. Cerambyx ———. (Cerambycidae.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im bernstein, 30 (Ceramblx).

4078. Cerambyx ———. (Cerambycidae.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 179-180 (Ceramblx).
*Pl. 5, fig. 21.***4079. Cerambyx** ——— (leg). (Cerambycidae.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

4080. Cerambyx ———. (Cerambycidae.)

Locality: Rhine, Germany. Horizon: Aquitanian?.

1831. Goldfuss. Verhandl. leop.-carol. akad. naturf., vii, i: 118.

4081. Cerambyx ———. (Cerambycidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1834. Keferstein. Naturg. erdkörp., ii: 328.

4082. Cerambyx ——— (larva). (Cerambycidae.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

4083. Cerambyx ———. (Cerambycidae.)

Locality: Aix, France. Horizon: Ligurian.

1854. Pietet. Traité de paléont., 2^e éd., ii: 355 (fide Serres MSS.).**4084. Cercyon** ———. (Hydrophilidae.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. Käfer unterpleist. Hösbach, 9. *Pl. 2, fig. 3.*1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 293. *Pl. 9, fig. 3.***4085. Cercyon? terrigena.** (Hydrophilidae.)

Locality: Nicola River, British Columbia. Horizon: ———.

1879. Scudder. Rept. progr. geol. surv. Can., 1877-'78: B 178.

1879. " Ins. tert. Nicola, 4.

1890. " Tert. ins. N. A., 510-511. *Pl. 2, fig. 21.***4086. Cetonia** ———. (Scarabæidae.)Compared with *C. hirtellus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

4087. *Cetonia* ———. (Scarabæidæ.)Compared with *C. stictica* Fabr.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.
 1829. " Murchison-Lyell, Tert. form. Aix, 11.

4088. *Ceutorhynchus* ——— (3 sp.). (Curculionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 165.
 1889. " Mitth. comm. geol. Elsass-Lothr., ii: 102.

4089. *Ceutorhynchus funeratus*. (Curculionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 153. Pl. 24, fig. 7.
 1866. " Käfer u. polyphen, 23. Pl. 3, fig. 7.

4090. *Chalcodermus kirschi*. (Curculionidæ.)Compared with *C. ebeninus*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 24-26. Pl. 21, figs. 9, 9a-c,
 10, 11.
 1881. " Verhandl. leop.-carol. akad. naturf., xlii: 316-318. Pl. 21, figs.
 9, 9a-c, 10, 11.

4091. *Chalcophora lævigata*. (Buprestidæ.)Compared with *C. fabricii* Rossi.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 85-86. Pl. 7,
 figs. 2-9.
 1865. " Urwelt der Schweiz, 362, 378. Fig. 259.
 1872. " Monde prim. Suisse, 444, 464. Fig. 259 on p. 463.
 1876. " Prim. world Switz., ii: 16, 35. Fig. 259 on p. 34.
 1879. " Urwelt der Schweiz, 2^e Aufl., 387, 403. Fig. 301 on p. 404.

4092. *Chalcophora pulchella*. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 86-87. Pl. 7,
 figs. 10, 11.

4093. *Chauliognathus pristinus*. (Lampyridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 81.
 1885. " Zittel, Handb. palaeont., i, th. ii: 796. Fig. 1032.
 1886. " Zittel-Barrois, Traité de paléont., ii: 796. Fig. 1050.

4094. *Chilocorus* ——— (2 sp.). (Coccinellidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4095. Chlænius ? ———. (Carabidæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4096. Chlænius dietzii. (Carabidæ.)

Locality : Hösbach, Bavaria. Horizon : Lower Pleistocene.

1884. Flach. Käfer unterpleist. Hösbach, 4. *Pl.* 1, *fig.* 4.1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 288. *Pl.* 8, *fig.* 4.**4097. Chlænius electrinus.** (Carabidæ.)Compared with *C. vestitus*.

Locality : Prussian amber. Horizon : Ligurian.

1862. Giebel. Zeitschr. ges. naturwiss., xx: 320.

4098. Chlænius punctulatus. (Carabidæ.)Compared with *C. laticollis*, United States.

Locality : Port Kennedy, Pa. Horizon : Postpliocene.

1876. Horn. Trans. Amer. ent. soc., v: 244.

1889. Lesley. Dict. foss. Penns., i: p. xiii (Calænius).

1890. Scudder. Tert. ins. N. A., 517-518. *Pl.* 1, *fig.* 7.**4099. Chlænius quadrisulcatus** (recent). (Carabidæ.)

Locality : Hösbach, Bavaria. Horizon : Lower Pleistocene.

[1798. Illiger. Käfer preuss., i: 176.]

1884. Flach. Käfer unterpleist. Hösbach, 4. *Pl.* 1, *figs.* 3a, 3b.1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 288. *Pl.* 8, *figs.* 3a, 3b.**4100. Chœridium ? ebeninum.** (Scarabæidæ.)Compared with *C. histeroides*, United States.

Locality : Port Kennedy, Pa. Horizon : Postpliocene.

1876. Horn. Trans. Amer. ent. soc., v: 244-245.

1889. Lesley. Dict. foss. Penns., i: p. xiii.

1890. Scudder. Tert. ins. N. A., 490-491. *Pl.* 1, *figs.* 18-22.**4101. Choragus fictilis.** (Anthribidæ.)

Locality : Green River, Wyo. Horizon : Oligocene.

1890. Scudder. Tert. ins. N. A., 465-466. *Pl.* 8, *fig.* 9.**4102. Choragus tertarius.** (Anthribidæ.)

Locality : Rott, Rhenish Prussia. Horizon : Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 147. *Pl.* 23, *fig.* 8.1866. " Käfer u. polypen, 17. *Pl.* 2, *fig.* 8.**4103. Chrysobothris haydeni.** (Buprestidæ.)

Locality : Florissant, Colo. Horizon : Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 80.

4104. *Chrysobothris xylographica*. (Buprestidæ.)

Locality: Stösschen, vicinity Linz, Austria. Horizon: Miocene.

1856. Giebel. Insect. d. vorwelt, 87.

See also *Buprestis xylographica*, etc.**4105. *Chrysomela* ———. (Chrysomelidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 56.

4106. *Chrysomela* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1827. Brongniart. Dict. sc. nat., II: 233 (*Chrysomèles*).

1829. Serres. Géogn. terrains tert., 241.

4107. *Chrysomela* ———. (Chrysomelidæ.)Compared with *C. cerealis*.

Locality: Aix, France. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 639.

1836. " Man. ent., 580.

See also *Cassida* ——— Serres.**4108. *Chrysomela* ———. (Chrysomelidæ.)**Compared with *C. banksii* Fabr.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

4109. *Chrysomela* ———. (Chrysomelidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295. *Pl. 6, fig. 4.*1829. " Murchison-Lyell, Tert. form. Aix, 11. *Pl. 6, fig. 4.*See also *Chrysomela lyelliana*, *Chrysomela tertiaria*.**4110. *Chrysomela* ———. (Chrysomelidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

4111. *Chrysomela* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

4112. *Chrysomela* ——— (larva). (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

4113. *Chrysomela* ———. (Chrysomelidæ.)

Localities: Lexden, Bielbecks, England. Horizon: Peat.

1863. Wollaston. Quart. journ. geol. soc. Lond., xix, i: 401, No. 9.

1888. Bell. Entom., xxi: 2.

***Chrysomela* ———. See *Curculio* (or *Chrysomela*) ———.**

4114. *Chrysomela calami*. (Chrysomelidæ.)Compared with *C. graminis* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 208-209. *Pl. 7, fig. 8.*
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 120.
 1865. Heer. Urwelt der Schweiz, 361, 362, 372. *Fig. 238 on p. 371.*
 1872. " Monde prim. Suisse, 443, 444, 456. *Fig. 238 on p. 455.*
 1876. " Prim. world Switz., ii: 15, 16, 26. *Fig. 238 on p. 27.*
 1879. " Urwelt der Schweiz, 2^e aufl., 386, 387, 397. *Fig. 280.*

4115. *Chrysomela debilis*. (Chrysomelidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 334-335. *Pl. 6, fig. 1.*

4116. *Chrysomela lyelliana*. (Chrysomelidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 26-27. *Pl. 1, fig. 18.*
 1874. Oustalet. Ann. sc. géol. v, art. 2: 328-331. *Pl. 5, fig. 14; pl. 6, fig. 2.*
 See also *Chrysomela* ——— Curtis, vi: 4, etc.

4117. *Chrysomela matheroni*. (Chrysomelidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 333-334. *Pl. 6, fig. 3.*

4118. *Chrysomela matrona*. (Chrysomelidæ.)Compared with *C. banksii*, Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 331-332. *Pl. 5, fig. 13.*

4119. *Chrysomela punctigera*. (Chrysomelidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 209. *Pl. 7, fig. 9.*
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 121.

4120. *Chrysomela succini*. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 120.

4121. *Chrysomela tertiaria*. (Chrysomelidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 121.
 See also *Chrysomela* ——— Curtis, vi: 4, etc.

4122. *Chrysomelites* ———. (Chrysomelidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass.-Lothr., ii: 102.

4123. *Chrysomelites alaskanus*. (Chrysomelidæ.)

Locality: English Bay, Alaska. Horizon: ———.

1869. Heer. Flora foss. alask. (K. svenska vetensk.-akad. handl., viii; Flora foss. arct., ii): 39. *Pl. 10, figs. 6, 6b.*

4124. *Chrysomelites fabricii*. (Chrysomelidæ.)

Locality: Atanekerdluk, North Greenland. Horizon: Miocene.

1868. Heer. Flora foss. arct., 129. Pl. 19, figs. 13-14.
 1883. " Flora foss. Grönl., ii: 146.

4125. *Chrysomelites lindhageni*. (Chrysomelidæ.)

Compared with *C. (Lina) tremulæ* Fabr.

Localities: Ober-Atanekerdluk, Greenland: Cap Staratschin, Spitzbergen.
 Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. 7: 76. Pl. 16, figs. 23a-d.
 1883. " Flora foss. Grönl., ii: 145-146. Pl. 109, figs. 7, 7b.

4126. *Chrysomelites thulensis*. (Chrysomelidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. 7: 76. Pl. 16, figs. 25-27.

4127. *Cicindela (Odontocheila)* ———. (Cicindelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1839. Brullé. Gisem. ins. foss., 17.

4128. *Cionus* ———. (Cnreulionidæ.)

Compared with *C. scrophulariæ*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 223.

4129. *Cionus* ———. (Cnreulionidæ.)

Compared with *C. verbasci*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 223, 267.

4130. *Cis* ———. (Cioidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4131. *Cis krantzi*. (Cioidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 144. Pl. 22, fig. 26.
 1866. " Käfer u. polypen, 14. Pl. 1, fig. 26.

4132. *Cistela* ———. (Cistelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4133. *Cistela dominula*. (Cistelidæ.)

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 160-161. Pl. 5, fig. 8.
 1852. Giebel. Deutschl. petref., 650.
 1856. " Insect. d. vorwelt, 112

4134. *Cistelites minor.* (Cistelidæ.)

Localities: Pailasok, Aumarutigsat, Greenland. Horizon: Miocene.

1874. Heer. Nachtr. mioc. flora Grönl. (K. svenska vetensk.-akad. handl., xiii; Flora foss. arct., iii): 25. Pl. 5, fig. 13.
1883. " Flora foss. Grönl., ii: 145.

4135. *Cistelites punctulatus.* (Cistelidæ.)

Localities: Pailasok, Atanekerdluk, Greenland. Horizon: Miocene.

1870. Heer. Phil. trans., clix (Flora foss. arct., ii): 484-485. Pl. 56, figs. 14, 14bc.
1874. " Nachtr. mioc. flora Grönl. (K. svenska vetensk.-akad. handl. xiii; Flora foss. arct., iii): 25. Pl. 5, fig. 12.
1883. " Flora foss. Grönl., ii: 145.

4136. *Cistelites sachalinensis.* (Cistelidæ.)

Locality: Mgratsch, Insel Sachalin. Horizon: Miocene.

1878. Heer. Mém. acad. imp. sc. St. Petersb., (7), xxv, vii (Prim. flora foss. sachal.; Flora foss. arct., v, iii): 3. Pl. 15, figs. 12, 12b.

4137. *Cistelites spectabilis.* (Cistelidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1869. Heer. Phil. trans., clix (Flora foss. arct., ii): 485. Pl. 56, fig. 13.

Citylus varius. See *Cytilus varius.**Cleonis* ———. See *Cleonus* ——— Serres.**4138. *Cleonolithus antiquus.* (Curculionidæ.)**

Locality: (Senigaglia?, Italy). Horizon: Helvetian?.

1841. Bassi. Atti reün. scienz. ital., iii: 401.

4139. *Cleonus* ? ———. (Curculionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

4140. *Cleonus* ———. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS. in Oustalet, Ann. sc. géol., v. art. 2: 235-242.
See also *Brachyderes longipes*, etc.

4141. *Cleonus* ——— (7 sp.). (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 224 (*Cleonis*).

4142. *Cleonus* ——— ("No. 4.") (Curculionidæ.)Compared with *C. distincta*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 224, 272 (*Cleonis*). Pl. 5, fig. 9.

4143. *Cleonus angusticollis.* (Curculionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1851. Stizenberger. Uebers. verstein. Baden, 99 (as of Heer) name only.¹

¹ Is it a mistake for *C. leucosiæ*? All Heer's other Oeningen species are properly given.

4144. *Cleonus arvernensis*. (Curculionidæ.)Compared with *C. albarius*.

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 67-68. Pl. 1, figs. 5, 6.

4145. *Cleonus asperulus*. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 20. Pl. 1, fig. 15.

1874. Oustalet. Ann. sc. géol., v, art. 2: 259-263. Pl. 3, figs. 20, 21.

4146. *Cleonus deucalionis*. (Curculionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 187. Pl. 6, fig. 12.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 142.

4147. *Cleonus fouilhouxii*. (Curculionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 68-69. Pl. 1, fig. 7.

4148. *Cleonus inflexus*. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS.

1874. Oustalet. Ann. sc. géol., v, art. 2: 263-265. Pl. 3, fig. 14.

4149. *Cleonus larinoides*. (Curculionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 183-186. Pl. 6, fig. 15.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt. 142.

4150. *Cleonus leucosiæ*. (Curculionidæ.)

Localities: (Oeningen?, Baden); Aix, France. Horizons: Tortonian, Ligurian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 188-189. Pl. 8, fig. 8.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 142.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 20.

1874. Oustalet. Ann. sc. géol., v, art. 2: 254-256.

See also *Cleonus angusticollis*.**4151. *Cleonus marcelli*.** (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 256-259. Pl. 3, fig. 13; pl. 5, fig. 5.

4152. *Cleonus polii*. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Descr. insect. foss., 5. Pl., fig. 1.

1847. " Ann. acad. aspir. nat., 1847: —. Pl. 10, fig. 1.

4153. *Cleonus pygmæus*. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 267. Pl. 3, fig. 10.

4154. *Cleonus pyrrhæ.* (Curculionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 189-190, 221-222. *Pl. 6, fig. 13.*
 1852. Giebel. Deutschl. petref., 649.
 1856. " Insect. d. vorwelt, 142-143.

4155. *Cleonus sexsulcatus.* (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 20-21. *Pl. 1, fig. 9.*
 1874. Oustalet. Ann. sc. géol., v, art. 2: 266. *Pl. 3, fig. 16; pl. 4, fig. 9.*

4156. *Cleonus speciosus.* (Curculionidæ.)Compared with *C. pruinus* Sch.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 374. *Fig. 249.*
 1872. " Monde prim. Suisse, 459. *Fig. 249 on p. 455.*
 1876. " Prim. world Switz., ii: 30. *Fig. 249 on p. 27.*
 1879. " Urwelt der Schweiz, 2^e anfl., 400. *Fig. 291 on p. 397.*

4157. *Clerus adonis.* (Cleridæ.)Compared with *C. mutillarius* and *C. formicarius* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 152-154. *Pl. 5, fig. 3.*
 1852. Giebel. Deutschl. petref., 650.
 1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 335. *Pl. 40, fig. 15.*
 1856. Giebel. Insect. d. vorwelt, 45.
 1865. Heer. Urwelt der Schweiz, 377.
 1872. " Monde prim. Suisse, 462.
 1876. " Prim. world Switz., ii: 33.
 1879. " Urwelt der Schweiz, 2^e anfl., 402.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 796. *Figs. 1030ab.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 796. *Figs. 1048ab.*

4158. *Clerus succini.* (Cleridæ.)Compared with *C. formicarius*, Europe.

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. gesellsch. naturw., xx: 320.

4159. *Clivina* ——. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4160. *Clythra carbonaria.* (Chrysomelidæ.)

Locality: Salzhäusen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. *Palaeontogr.*, xiv: 33-34 (larval sack). *Pl. 9, fig. 20.*

4161. *Clythra pandoræ.* (Chrysomelidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 214-215 (*Clythra*). *Pl. 7, fig. 14.*
 1852. Giebel. Deutschl. petref., 647.
 1856. " Insect. d. vorwelt, 117.

Clythra pandoræ. See *Clythra pandoræ*.

4162. Clytus ———. (Cerambycidae.)Compared with *C. detritus*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 42.

4163. Clytus ———. (Cerambycidae.)Compared with *C. gazella*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 42.

4164. Clytus leporinus. (Cerambycidae.)Compared with *Caloclytus semipunctatus* (Fabr.), Europe.

Locality: Aix, France. Horizon: Lignurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 319-321. Pl. 5, fig. 10.

4165. Clytus melancholicus. (Cerambycidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 163-165. Pl. 5, fig. 14.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 128.

4166. Clytus pulcher. (Cerambycidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. Fig. 252 on p. 376.

1872. " Monde prim. Suisse. Fig. 252 on p. 461.

1876. " Prim. world Switz., ii. Fig. 252 on p. 32.

1879. " Urwelt der Schweiz, 2^e Aufl. Fig. 294 on p. 402.**4167. Coccinella** ———. (Coccinellidæ.)

Locality: Lexden, England. Horizon: Pleistocene.

1888. Bell. Entom., xxi: 2.

4168. Coccinella ———. (Coccinellidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., 1: 56.

4169. Coccinella ———. (Coccinellidæ.)

Locality: Aix, France. Horizon: Lignurian.

1847. Hope. Trans. ent. soc. Lond., iv: 251.

4170. Coccinella ———. (Coccinellidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1834. Keferstein. Naturg. erdkörp., ii: 328.

4171. Coccinella ———. (Coccinellidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1856. Menge. Progr. pretrischule Danzig, 1856: 21.

4172. Coccinella ——— (larva). (Coccinellidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1856. Menge. Progr. petrischule Danzig, 1856: 23.

4173. Coccinella (or Cassida) ———. (Coccinellidæ.)

Locality: Lexden, England. Horizon: Peat.

1863. Wollaston. Quart. journ. geol. soc. Lond., xix, i: 400, No. 1.

4174. Coccinella amabilis. (Coccinellidæ.)

Compared with *C. ocellata* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 371.

1872. " Monde prim. Suisse, 455.

1876. " Prim. world Switz., ii: 26.

1879. " Urwelt der Schweiz, 2^e anfl., 334, 399. Fig. 261 on p. 384.

4175. Coccinella andromeda. (Coccinellidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 216. Pl. 7, fig. 16.

1852. Giebel. Deutschl. petref., 647.

1856. " Insect. d. vorwelt, 123.

1865. Heer. Urwelt der Schweiz, 371.

1872. " Monde prim. Suisse, 455.

1876. " Prim. world Switz., ii: 26.

1879. " Urwelt der Schweiz, 2^e anfl., 396.

4176. Coccinella antiqua. (Coccinellidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 74. Pl. 10, fig. 18.

4177. Coccinella bituminosa. (Coccinellidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 157. Pl. 24, figs. 18, 19.

1866. " Käfer u. polypen, 27. Pl. 3, figs. 18, 19.

4178. Coccinella colorata. (Coccinellidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 371. Fig. 234.

1872. " Monde prim. Suisse, 455. Fig. 234.

1876. " Prim. world Switz., ii: 26. Fig. 234 on p. 27.

1879. " Urwelt der Schweiz, 2^e anfl., 396. Fig. 276 on p. 397.

4179. Coccinella decempustulata. (Coccinellidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1879. Heer. Urwelt der Schweiz, 2^e anfl., 397. Fig. 260 on p. 384.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 800. Fig. 1056.

1886. " Zittel-Barrois, Traité de paléont., ii: 801. Fig. 1073.

1889. Nicholson. Man. palæont., 3d ed., i: 601. Fig. 449c.

4180. Coccinella fossilis. (Coccinellidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 157. Pl. 24, fig. 20.

1866. " Käfer u. polypen, 27. Pl. 3, fig. 20.

4181. *Coccinella (Sospita) haagi.* (Coccinellidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 155-156 (*Sospita haagi* on plate). *Pl.* 24, *figs.* 15, 16.

1866. " Käfer u. polypen, 25-26 (*Sospita haagi* on plate). *Pl.* 3, *figs.* 15, 16.

See also *Sospita haagi*.

4182. *Coccinella hesione.* (Coccinellidæ.)

Compared with *C. dispar*, *C. bipunctata*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 216-217. *Pl.* 7, *fig.* 17.

1852. Giebel. Deutschl. petref., 647.

1856. " Insect. d. vorwelt, 123.

1865. Heer. Urwelt der Schweiz, 371.

1872. " Monde prim. Suisse, 455.

1876. " Prim. world Switz., ii: 26.

1879. " Urwelt der Schweiz, 2^e Aufl., 396.

4183. *Coccinella kraantzi.* (Coccinellidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 156. *Pl.* 24, *fig.* 17.

1866. " Käfer u. polypen, 26. *Pl.* 3, *fig.* 17.

4184. *Coccinella perses.* (Coccinellidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 217-218. *Pl.* 8, *fig.* 11.

1852. Giebel. Deutschl. petref., 647.

1856. " Insect. d. vorwelt, 123.

4185. *Coccinella protogæ.* (Coccinellidæ.)

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian?

1837. Germar. Fauna insect. Europæ, xix: 15. *Pl.* 15.

1852. Giebel. Deutschl. petref., 647.

See also *Escheria protogæ*.

4186. *Coccinella spectabilis.* (Coccinellidæ.)

Compared with *C. marginata*, Brazil.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 371. *Fig.* 235.

1872. " Monde prim. Suisse, 455. *Fig.* 235.

1876. " Prim. world Switz., ii: 26. *Fig.* 235 on p. 27.

1879. " Urwelt der Schweiz, 2^e Aufl., 396. *Fig.* 277 on p. 397.

4187. *Cœliodes primigenius.* (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. geol., v, art. 2: 302-303. *Pl.* 6, *fig.* 11.

See also *Apion primigenius*.

4188. *Colasposoma* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Smith. Quart. Journ. sc., v: 184 (*Calasposoma*). *Pl.*, *fig.* 8.

4189. Colyidium ——. (Colydiidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4190. Colymbetes ——. (Dytiscidæ.)Compared with *C. striatus*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 250.

4191. Colymbetes (Cymatopterus) æmulus. (Dytiscidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 41-42. *Pl.* 2, *figs.* 16-19.**4192. Colymbetes striatus** (recent). (Dytiscidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1758. Linné. Syst. nat., i, 2: 665.]

1884. Flach. Käfer unterpleist. Hösbach, 8.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 292.

4193. Colymbetes ungeri. (Dytiscidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 27-28. *Pl.* 1, *fig.* 8.

1852. Giebel. Deutschl. petref., 654.

1856. " Insect. d. vorwelt, 58.

Compsidia nephele. See *Saperda (Compsidia) nephele*.**4194. Coniatus minusculus.** (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 286-287. *Pl.* 3, *figs.* 17, 17a.**4195. Copris druidum.** (Scarabæidæ.)Compared with *C. ciliata*, Brazil.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 73-74. *Pl.* '6, *figs.* 3, 3bc.1865. " Urwelt der Schweiz, 379. *Fig.* 267 on p. 378.1872. " Monde prim. Suisse, 465. *Fig.* 267 on p. 463.1876. " Prim. world Switz., ii: 36. *Fig.* 267 on p. 34.1879. " Urwelt der Schweiz, 2^e aufl., 405. *Fig.* 309 on p. 404.**4196. Copris lunaris** (recent). (Scarabæidæ.)

Locality: Mundesley, England. Horizon: Pliocene.

[1758. Linné. Syst. nat., i, 2: 543.]

1840. Curtis. Lyell, Proc. geol. soc. Lond., iii: 175.

1843. Morris. Catal. Brit. foss., 69.

1854. " Catal. Brit. foss., 2d ed., 117.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 795.

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 795.

1886. " Bull. U. S. geol. surv., No. 31: 74.

1888. Bell. Entom., xxi: 2.

4197. *Copris subterranea*. (Scarabæidæ.)Compared with *C. lunaris*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 74. *Pl. 6, fig. 4.*
 1865. " Urwelt der Schweiz, 379.
 1872. " Monde prim. Suisse, 465.
 1876. " Prim. world Switz., ii: 36.
 1879. " Urwelt der Schweiz, 2^e anfl., 405.

4198. *Coprologus gracilis*. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 60-62. *Pl. 2, fig. 11.*
 1852. Giebel. Deutschl. petref., 653 (*Caprologus*).
 1853-'56. Bronn. Lethæa geogn., 3^e anfl., iii: 648. *Pl. 42', figs. 25ab.*
 1856. Giebel. Insect. d. vorwelt, 35.
 1865. Heer. Urwelt der Schweiz, 379.
 1872. " Monde prim. Suisse, 465.
 1876. " Prim. world Switz., ii: 36.
 1879. " Urwelt der Schweiz, 2^e anfl., 405.

4199. *Corticaria melanophthalma*. (Lathridiidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 18-19. *Pl. 1, fig. 7.*
 1874. Oustalet. Ann. sc. géol., v, art. 2: 187-188. *Pl. 6, fig. 17.*

4200. *Corymbites sutor*. (Elateridæ.)Compared with *C. æneus* (Linn.), Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1861. Heer. Rech. climat pays tert., 204 (undescri.).

4201. *Corymbites velatus*. (Elateridæ.)Compared with *C. splendens*.

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 81.
 1878. " Bull. U. S. geol. surv. terr., iv: 762.
 1890. " Tert. ins. N. A., 496.

4202. *Corynetes* ———. (Cleridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4203. *Cossonus marionii*. (Calandridæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 305-306. *Pl. 2, fig. 19; pl. 5, fig. 9.*

4204. *Cossonus meriani*. (Calandridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen. i: 196-198. *Pl. 7, fig. 2.*
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 145.

4205. *Cossonus spielbergii*. (Calandridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 198-199. *Pl. 7, fig. 3.*
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 145.

4206. *Cossyphus* (or *Cassida*) ———. (Tenebrionidæ.)

Locality: Lexden, England. Horizon: Peat.

1863. Wollaston. Quart. journ. geol. soc. Lond., xix, i: 401, No. 5.
 1888. Bell. Entom., xxi: 2.

4207. *Cratoparis elusus*. (Anthribidæ.)Compared with *C. lunatus* Fahr.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 768-769.
 1890. " Tert. ins. N. A., 467. *Pl. 8, fig. 40.*

4208. *Cratoparis reptus*. (Anthribidæ.)Compared with *C. lunatus* Fahr.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 768.
 1890. " Tert. ins. N. A., 466-467. *Pl. 8, fig. 4.*

4209. *Criocerina pristina*. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1813. Germar. Germ., Mag. entom., i: 14.
 See also *Crioceris pristina*.

4210. *Crioceris* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.
 1836. " Man. ent., 577.

4211. *Crioceris* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 21.

4212. *Crioceris margarum*. (Chrysomelidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 324-325. *Pl. 5, fig. 11.*

4213. *Crioceris pristina*. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 116.
 See also *Criocerina pristina*.

4214. *Cryptocephalus* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 21.

4215. *Cryptocephalus vetustus*. (Chrysomelidæ.)Compared with *C. venustus* Fabr.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 764.
 1890. " Tert. ins. N. A., 485-486. *Pl. 7, figs. 29, 37.*

4216. *Cryptohypnus* ———. (Elateridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4217. *Cryptohypnus* ? *terrestris*. (Elateridæ.)Compared with *C. planatus* LeC.

Locality: Nicola River, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-'78: B 181-182.
 1879. " Insect. tert. Nicola, 6-7.
 1890. " Tert. ins. N. A., 497. *Pl. 2, fig. 30.*

4218. *Cryptophagus* ———. (Cryptophagidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4219. *Cryptorhynchus* ———. (Cureulionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

4220. *Cryptorhynchus annosus*. (Cureulionidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 86-87.
 1878. " Bull. U. S. geol. surv. terr., iv: 767.
 1890. " Tert. ins. N. A., 471. *Pl. 8, fig. 3.*

4221. *Cryptorhynchus gypsi*. (Cureulionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 299-300. *Pl. 3, fig. 8.*

4222. *Cryptorhynchus renudus*. (Cureulionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 71. *Pl. 10, fig. 9.*

4223. *Cucorhinus* ? (or *Strophosomus* ?) ———. (Otiiorhynchidæ.)

Locality: Peckham, England. Horizon: Lower Eocene, Paludina beds.

1861. Smith. Geologist, iv: 40.

4224. *Cupes* ———. (Cupesidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4225. *Cupoides tessellatus*. (Cupesidæ.)Compared with *Cupes atomaria*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Études entom., v: 27.

- 4226. *Curculio* ———. (Curculionidæ.)**
 Locality: Copal. Horizon: Recent.
 1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 189.
- 4227. *Curculio* ———. (Curculionidæ.)**
 Locality: Prussian amber. Horizon: Ligurian.
 1822. DeFrance. Dict. sc. nat., xxiii: 524 (charançon).
- 4228. *Curculio*? ———. (Curculionidæ.)**
 Locality: Schossnitz, Silesia. Horizon: Miocene.
 1855. Göppert. Tert. flora Schossnitz. *Pl.* 26, *figs.* 56-57.
 See also *Curculionites silesiacus*, etc.
- 4229. *Curculio* ——— (larva). (Curculionidæ.)**
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 23.
- 4230. *Curculio*? ———. (Curculionidæ.)**
 Locality: Nágpur, Central India. Horizon: ———.
 1860. Murray. Quart. journ. geol. soc. Lond., xvi: 184-185, 189. *Pl.* 10, *fig.* 38.
- 4231. *Curculio*? ———. (Curculionidæ.)**
 Locality: Nágpur, Central India. Horizon: ———.
 1860. Murray. Quart. journ. geol. soc. Lond., xvi: 185, 189. *Pl.* 10, *fig.* 69.
- 4232. *Curculio*? ———. (Curculionidæ.)**
 Locality: Nágpur, Central India. Horizon: ———.
 1860. Murray. Quart. journ. geol. soc. Lond., xvi: 185, 189. *Pl.* 10, *fig.* 70.
- 4233. *Curculio* (or *Chrysomela*) ———. (Curculionidæ.)**
 Locality: Lexden, England. Horizon: Peat.
 1863. Wollaston. Quart. journ. geol. soc. Lond., xix, i: 401, No. 3.
 1888. Bell. Entom., xxi: 2.
- 4234. *Curculio* ———. (Curculionidæ.)**
 Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.
 1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag., n. s., v: 89.
- 4235. *Curculionites* ———. (Curculionidæ.)**
 Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.
 1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.
- 4236. *Curculionites costulatus*. (Curculionidæ.)**
 Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.
 1870. Heer. K. svenska vetensk.-akad. handl., viii, No. vii: 76. *Pl.* 16, *figs.* 38ab, 39, 40.
- 4237. *Curculionites exiguus*. (Curculionidæ.)**
 Locality: Aix, France. Horizon: Ligurian.
 1874. Oustalet. Ann. sc. géol., v, art. 2: 310-311. *Pl.* 4, *figs.* 10 ["16"].

4238. *Curculionites lividus.* (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 24. *Pl. 1, fig. 12.*

1874. Oustalet. Ann. sc. géol., v, art. 2: 308-310. *Pl. 6, figs. 8, 10.*

4239. *Curculionites marginatus.* (Curculionidæ.)

Locality: Vicinity Corfe, England. Horizon: ———.

1854. Westwood. Proc. geol. soc. Lond., 395 (unnamed). *Pl. 16, fig. 35.*

1856. Giebel. Insect. d. vorwelt, 148.

4240. *Curculionites morosus.* (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 24-55. *Pl. 1, fig. 13.*

See also Liparus ——— Curtis (cf. punctatus), *L. primævus*, *Hylobius morosus*.

4241. *Curculionites nitidulus.* (Curculionidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. vii: 77. *Pl. 16, figs. 15-16.*

4242. *Curculionites obsoletus.* (Curculionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1851. Stizenberger. Urbers. verstein. Baden, 98 (as of Heer, who describes nothing of the kind).

4243. *Curculionites ovatus.* (Curculionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 77-78. *Pl. 1, fig. 12.*

4244. *Curculionites parvulus.* (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 23-24. *Pl. 1, fig. 16.*

1874. Oustalet. Ann. sc. géol., v, art. 2: 307-308. *Pl. 4, fig. 11; pl. 6, fig. 9.*

4245. *Curculionites redtenbacheri.* (Curculionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 199-200. *Pl. 7, fig. 1.*

1852. Giebel. Deutschl. petref., 648.

4246. *Curculionites senonicus.* (Curculionidæ.)

Locality: Sahel Alma, Lebanon. Horizon: Senonian.

1888. Kolbe. Zeitschr. deutsch. geol. gesellsch., xl: 135-136. *Pl. 11, fig. 8.*

4247. *Curculionites silesiacus.* (Curculionidæ.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1869. Assmann. Beitr. insect. d. vorwelt, 41. *Pl. 1, figs. 4, 4a.*

1869. " Schles. zeitschr. f. ent., (2), i: 41. *Pl. 1, figs. 4, 4a.*

See also *Curculio* ——— Göppert, ——— ——— (*Chrysomelidæ*) Göppert.

4248. *Curculionites taxodii.* (Curculionidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. vii: 76-77. *Pl. 16, figs. 8a, 9.*

4249. *Curculionites thoracicus*. (Curculionidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. vii: 77. *Pl.* 16, *figs.* 17-18.

4250. *Cybister agassizi*. (Dytiscidæ.)Compared with *C. limbatus* F., India; *C. foveatus*, Mexico.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 37-39. *Pl.* 2, *figs.* 1-10.
 1865. " Urwelt der Schweiz, 361, 383. *Fig.* 280 on p. 381.
 1872. " Monde prim. Suisse, 443, 470. *Fig.* 280 on p. 467.
 1876. " Prim. world Switz., ii: 15, 40. *Fig.* 280 on p. 38.
 1879. " Urwelt der Schweiz, 2^e Aufl., 387, 409. *Fig.* 322 on p. 407.

4251. *Cybister atavus*. (Dytiscidæ.)Compared with *C. africanus* Lap., Africa and Mediterranean district.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 39-40 (*Cybist-*
tus). *Pl.* 2, *figs.* 23, 24.
 1865. " Urwelt der Schweiz, 383.
 1872. " Monde prim. Suisse, 470.
 1876. " Prim. world Switz., ii: 41.
 1879. " Urwelt der Schweiz, 2^e Aufl., 409.

4252. *Cybister nicoleti*. (Dytiscidæ.)Compared with *C. costalis* Oliv.

Localities: Oeningen, Baden; Locle, Switzerland. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 40. *Pl.* 2, *figs.*
 21, 22.
 1865. " Urwelt der Schweiz, 383.
 1872. " Monde prim. Suisse, 470.
 1876. " Prim. world Switz., ii: 40.
 1879. " Urwelt der Schweiz, 2^e Aufl., 409.

Cybistus atavus*. See *Cybister atavus*.*4253. *Cychnus (minor)*. (Carabidæ.)**Compared with *C. andrewsii*, United States.

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. entom. soc., v: 243.
 1889. Lesley. Dict. foss. Penns., i: p. xvii.
 1890. Scudder. Tert. ins. N. A., 537-538. *Pl.* 1, *fig.* 2.

4254. *Cychnus rostratus* (recent). (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

- [1746. Linné. Fauna suec., no. 823.]
 1884. Flach. Käfer unterpleist. Hösbach, 3-4. *Pl.* 1, *fig.* 2.
 1884. " Verhandl. physik.-med. gesellschaft. Würzb., n. f., xviii: 287-288.
Pl. 8, *fig.* 2.

4255. *Cychrus testeus*. (Carabidæ.)Compared with *C. angusticollis* Fisch.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 758-759.

See also *Neothanes testeus*.**4256. *Cychrus wheatleyi*.** (Carabidæ.)Compared with *C. viduus*, North America.

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. entom. soc., v: 242-243.

1889. Lesley. Dict. foss. Penns., i: p. xvii.

1890. Scudder. Tert. ins. N. A., 536-537. Pl. 1, fig. 1.

4257. *Cyclonotum orbiculare* (recent). (Hydrophilidæ.)

Localities: Hösbach, Bavaria; Cambridge, England. Horizon: Pleistocene.

[1775. Fabricius. Syst. ent., 229.]

1884. Flach. Käfer unterpleist. Hösbach, 9. Pl. 2, fig. 2.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 293. Pl. 9, fig. 2.

1888. Bell. Entom., xxi: 2.

***Cymatopterus æmulus*.** See *Colymbetes (Cymatopterus) æmulus*.**4258. *Cymindis* ———.** (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

4259. *Cymindis aurora*. (Carabidæ.)Compared with *C. americana*, United States.

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. entom. soc., v: 243.

1889. Lesley. Dict. foss. Penns., i: p. xvii.

1890. Scudder. Tert. ins. N. A., 518. Pl. 1, fig. 6.

4260. *Cymindis pulchella*. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 13-15. Pl. 1, fig. 1.

1852. Giebel. Deutschl. petref., 655.

1856. " Insect. d. vorwelt, 69.

4261. *Cymindoides sculptipennis*. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Études entom., v: 25-26.

4262. *Cyphon* ———. (Dasyllidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4263. *Cyphon* ? ———. (Dasyllidæ.)

Locality: Rocky River, Sydney Flats, New South Wales. Horizon: ———.

1870. Moore. Quart. journ. geol. soc. Lond., xxvi: 263. Pl. 18, fig. 11.

4264. *Cytilus varius* (recent). (Byrrhidae.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1775. Fabricius. Syst. ent., 60.]

1884. Flach. Käfer unterpleist. Hösbach, 9 (*Cytilus*). Pl. 2, fig. 5.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 293. Pl. 9, fig. 5.

4265. *Dasyllus cervinus* (recent). (Dasyllidae.)

Locality: Cambridge, England. Horizon: Peat.

[1758. Linné. Syst. nat., ed. 10, i: 376.]

See also *Atopa cervina*.

4266. *Dasytes* ———. (Malachidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4267. *Dermestes* ———. (Dermestidae.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insecten. im bernstein, 30.

1845. " Bernst. befindl. organ. reste vorw., i: 56.

4268. *Dermestes pauper*. (Dermestidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, ii: 43-44. Pl. 1, fig. 11.

1852. Giebel. Deutschl. petref., 654.

1856. " Insect. d. vorwelt, 48.

4269. *Dermestes typographus*. (Dermestidae.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 175. Pl. 4, fig. 14.

4270. *Diacanthus sutor*. (Elateridae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 136-137. Pl. 4, fig. 5.

1852. Giebel. Deutschl. petref., 651.

1856. " Insect. d. vorwelt, 95.

4271. *Dicælus* ———. (Carabidae.)

Compared with *D. elongatus*, United States.

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. entom. soc., v: 244.

1890. Scudder. Tert. ins. N. A., 525. Pl. 1, fig. 15.

4272. *Dicælus alutaceus*. (Carabidae.)

Compared with *D. dilatatus*, United States.

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. entom. soc., v: 244.

1889. Lesley. Dict. foss. Penns., i: p. xix.

1890. Scudder. Tert. ins. N. A., 524. Pl. 1, figs. 8-10.

4273. *Dicerca bronni*. (Buprestidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 4-6. *Pl. 2, figs. 2, 3.*

4274. *Dicerca carbonum*. (Buprestidæ.)

Locality: Bonn, Rhenish Prussia. Horizon: Aquitanian?

1847. Heer. Insektenf. tertiärg. Oeningen, i: 117.

1856. Giebel. Insect. d. vorwelt, 85.

See also *Buprestis carbonum*, etc.

4275. *Dicerca prisca*. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 114-117. *Pl. 3, fig. 11.*

1852. Giebel. Deutschl. petref., 652.

1856. " Insect. d. vorwelt, 86.

4276. *Dicerca reticulata*. (Buprestidæ.)

Locality: Naumburg, Prussia. Horizon: Oligocene.

1869. Assmann. Beitr. insect. d. vorwelt, 60-61. *Figs. 1a, b.*

1869. " Schles. zeitschr. f. ent., (2), i: 60-61. *Figs. 1a, b.*

4277. *Dicerca taschei*. (Buprestidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1856. Heyden. Palaeontogr., iv: 198-199. *Pl. 37, figs. 1-4.*

1862. " Palaeontogr., x: 67-68.

4278. *Dichirotrichus lividus*. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 29-31. *Pl. 1, fig. 18.*

4279. *Dineutes insignis*. (Gyrinidæ.)

Compared with *D. americanus* (Fabr.).

Locality: Oeningen, Baden. Horizon: Tortonian.

1561. Heer. Rech. climat pays tert., 203 (*Dineutus*) (undescri.).

1862. " Verhandl. holl. maatsch. wetensch. Haarl., xvi: 43-44 (wrong ref. in text to pl. and wrong name on pl.). *Pl. 2, figs. 27, 28.*

1885. Scudder. Zittel, Handb. palaeont., i, th. ii (wrongly called *D. longiventris* in text). *Fig. 1066.*

1886. " Zittel-Barrois, *Traité de paléont.*, ii (as above). *Fig. 1083.*

See also *Dineutes longiventris*.

4280. *Dineutes longiventris*. (Gyrinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 44 (*Dineutus*). *Pl. 2, figs. 25, 26.*

1865. " Urwelt der Schweiz. *Fig. 281 on p. 381.*

1872. " Monde prim. Suisse. *Fig. 281 on p. 467.*

1876. " Prim. world Switz., ii. *Fig. 281 on p. 38.*

1879. " Urwelt der Schweiz, 2^e anfl. *Fig. 323 on p. 407.*

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 802 (the fig. belongs to *D. insignis*).

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 803 (as above).

See also *Dineutes insignis*.

Dineutus ——— (several species). See *Dineutes*, the same species.

4281. *Diplochila ? henshawi*. (Carabidæ.)Compared with *D. major*, Southern United States.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ius. N. A., 523-524. Pl. 28, fig. 9.

4282. *Donacia* ——— (2 sp.). (Chrysomelidæ.)

Locality: Mundesley, England. Horizon: Pliocene.

1840. Curtis. Lyell, Proc. geol. soc. Lond., iii: 175.

4283. *Donacia* ———. (Chrysomelidæ.)

Locality: Flanders. Horizon: Postglacial.

1873. Debray. Mém. soc. sc. agric. arts Lille, (3), xi: 451.

1874. " Bull. soc. géol. France, (3), ii: 48.

4284. *Donacia* ———. (Chrysomelidæ.)

Locality: Villechetif, Vannes, France. Horizon: Pleistocene.

1876. Fliche. Comptes rendus, lxxxii: 979.

4285. *Donacia* ———. (Chrysomelidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4286. *Donacia* ———. (Chrysomelidæ.)

Locality: Nykerk, Holland. Horizon: Peat.

1885. Früh. Jahrb. k. k. geol. reichsanst., xxxv: 679.

Donacia appendiculata*. See *Donacia reticulata*.*4287. *Donacia bidens* (recent). (Chrysomelidæ.)**

Locality: Lefte, Val Gandino, Italy. Horizon: Quaternary.

[1791. Olivier. Encycl. méth., vi: 291.]

1881. Malfatti. Atti soc. ital. sc. nat., xxiv: 91.

1881. " Bibl. ins. foss. ital., 3.

Donacia clavipes*. See *Donacia menyanthidis*.*4288. *Donacia crassipes* (recent). (Chrysomelidæ.)**

Localities: Vannes, France; Mundesley, England. Horizon: Pleistocene.

[1775. Fabricius. Syst. ent., 195.]

1875. Fliche. Comptes rendus, lxxx: 979.

1888. Bell. Entom., xxi: 2.

4289. *Donacia discolor* (recent) (1). (Chrysomelidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1795. Panzer. Ent. germ., 216 (nec Gyll.).]

1884. Flach. Käfer unterpleist. Hösbach, 11. Pl. 2, fig. 14.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 295. Pl. 9, fig. 14.

4290. *Donacia discolor* (recent) (2). (Chrysomelidæ.)

Localities: Dürnten, Uznach, Lausanne, Switzerland; Chambéry, La Boisse, France; Lefte, Italy. Horizon: Quaternary.

- [1813. Gyllenhal. Ins. suec., iii: 660 (nec Panz.).]
 1865. Heer. Urwelt der Schweiz, 500, 502. Figs. 353-355 on p. 501.
 1872. " Monde prim. Suisse, 614, 616. Figs. 353-355.
 1876. " Prim. world Switz., ii: 167. Figs. 353-355 on p. 168.
 1876. " Bull. soc. vaud. sc. nat., xiv: 457.
 1876. Lart.-Chantr. Arch. mus. hist. nat. Lyon, i: 104.
 1879. Heer. Urwelt der Schweiz, 2^e Aufl., 530, 532, 533. Figs. 396-398 on p. 531.
 1882. Sordelli. Alc. insetti foss. Lomb., 6-9. Fig.
 1882. " Bull. soc. ent. ital., xiv: 230-233. Fig.

4291. *Donacia fennica* (recent). (Chrysomelidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

- [1800. Paykull. Faun. suec., iii: 70.]
 1884. Flach. Käfer unterpleist. Hösbach, 11.
 1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 295.

4292. *Donacia genini*. (Chrysomelidæ.)

Compared with *D. violacea* Fabr., *D. nigra* Latr.

Locality: Sonnaz, Savoy, France. Horizon: Quaternary?

1850. Mortillet. "Bull. soc. hist. nat. Savoie, 1850: 135."
 1850. " "Les Alpes, 1850, No. 5."
 1850. " Arch. sc. phys. et nat., xv: 78-79 (genin).

4293. *Donacia letzneri*. (Chrysomelidæ.)

Locality: Schosnitz, Silesia. Horizon: Miocene.

1869. Assmann. Beitr. insect. d. vorwelt, 42-43. Pl. 1, figs. 5, 5a.
 1869. " Schles. zeitschr. f. ent., (2), i: 42-43. Pl. 1, figs. 5, 5a.

4294. *Donacia lignitum*. (Chrysomelidæ.)

Compared with *D. sericea*.

Locality: Lefte, Italy. Horizon: Quaternary.

1882. Sordelli. Alc. insetti foss. Lomb., 9-10. Fig. on p. 8.
 1882. " Bull. soc. ent. ital., xiv: 233-234. Fig. on p. 232.

4295. *Donacia linearis* (recent). (Chrysomelidæ.)

Locality: Norfolk forest, Mundesley, England. Horizon: Pleistocene.

- [1795. Hoppe. Enum. ins. Erlang., 46. Fig. 10.]
 1888. Bell. Entom., xxi: 2.
 See also *Donacia simplex*.

4296. *Donacia menyanthidis* (recent). (Chrysomelidæ.)

Localities: Chambéry, La Boisse, Savoy, France. Horizon: Quaternary?

- [1792. Fabricius. Ent. sys., i, ii: 117 (= clavipes).]
 1865. Heer. Urwelt der Schweiz, 502.
 1872. " Monde prim. Suisse, 616.
 1876. " Prim. world Switz., ii: 170.
 1876. Lart.-Chantr. Arch. mus. hist. nat. Lyon, i: 104 (as of Mortillet).
 1879. Heer. Urwelt der Schweiz, 2^e Aufl., 532.

4297. *Donacia obscura* (recent). (Chrysomelidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1813. Gyllenhal. *Ins. suec.*, iii: 654.]

1884. Flach. Käfer unterpleist. Hösbach, 11.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 295.

4298. *Donacia palæmonis*. (Chrysomelidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg.* Oeningen, i: 200-202. *Pl. 6, fig. 4.*

1852. Giebel. *Deutschl. petref.*, 648.

1856. " *Insect. d. vorwelt.*, 116.

1865. Heer. *Urwelt der Schweiz*, 362.

1872. " *Monde prim. Suisse*, 444.

1876. " *Prim. world Switz.*, ii: 16.

1879. " *Urwelt der Schweiz*, 2^e aufl., 388.

4299. *Donacia parvula*. (Chrysomelidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. *K. svenska vetensk.-akad. handl.*, viii, No. vii: 75-76. *Pl. 16; figs. 32-33.*

4300. *Donacia pompatica*. (Chrysomelidæ.)

Compared with *D. pubicollis* Suffr.

Locality: Scarborough, Ontario. Horizon: Postpliocene.

1890. Scudder. *Tert. ins. N. A.*, 486-487. *Pl. 1, figs. 33, 34.*

4301. *Donacia reticulata* (recent). (Chrysomelidæ.)

Locality: Lefte, Val Gandino, Italy. Horizon: Quaternary marl.

[1817. Gyllenhal. *Schönh., Syn. ins.*, App. iii: 37 (= *appendiculata*).]

1881. Malfatti. *Atti soc. ital. sc. nat.*, xxiv: 91.

1881. " *Bibl. insetti foss. ital.*, 3.

4302. *Donacia sagittariæ* (recent). (Chrysomelidæ.)

Localities: Lefte, Italy; Hösbach, Bavaria. Horizon: Pleistocene.

[1792. Fabricius. *Ent. syst.*, i, ii: 117.]

1882. Sordelli. *Ale. insetti foss. Lomb.*, 6-9. *Fig.*

1882. " *Bull. soc. ent. ital.*, xiv: 230-233. *Fig.*

1884. Flach. Käfer unterpleist. Hösbach, 11. *Pl. 2, fig. 12.*

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 295. *Pl. 9, fig. 12.*

4303. *Donacia sericea* (recent). (Chrysomelidæ.)

Localities: Dürnten, Schwerzenbach, Amdres, Switzerland; Hösbach, Bavaria; Mundesley, England. Horizon: Pleistocene.

[1761. Linné. *Faun. suec.*, 196.]

1858. Heer. *Arch. sc. phys. et nat.*, n. p., ii: 322.

1865. " *Urwelt der Schweiz*, 500-501. *Fig. 352.*

1872. " *Monde prim. Suisse*, 614-615. *Fig. 352.*

1876. " *Prim. world Switz.*, ii: 167. *Fig. 352 on p. 168.*

1878. Debray. *Ann. soc. géol. nord*, v: 127.

1879. Heer. *Urwelt der Schweiz*, 2^e aufl., 530, 581. *Fig. 395 on p. 531.*

1884. Flach. Käfer unterpleist. Hösbach, 11.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 295.

1888. Bell. *Entom.*, xxi: 2.

4304. *Donacia simplex* (recent). (Chrysomelidæ.)

Locality: England. Horizon: Pleistocene.

[1775. Fabricius. Syst. ent., 195.]

See also *Donacia linearis*.**4305. *Donacia smittiana*. (Chrysomelidæ.)**

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. vii: 76. *Pl. 16, figs.*
30-31.**4306. *Donacia stiria*. (Chrysomelidæ.)**Compared with *D. porosicollis* Lac.

Locality: Scarborough, Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 486. *Pl. 1, fig. 28.***4307. *Donacia thalassina* (recent). (Chrysomelidæ.)**

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1811. Germar. Neue schrift. gesellsch. Halle, i, vi: 29.]

1884. Flach. Käfer unterpleist. Hösbach, 11. *Pl. 2, fig. 13.*1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 295. *Pl.*
9, *fig. 13.***4308. *Dorcadion emeritum*. (Cerambycidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 71-72. *Pl. 10, fig. 14.***4309. *Dorcadionoides subæneus*. (Cerambycidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Études entom., v: 27.

4310. *Dorcasoides bilobus*. (Lucanidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Études entom., v: 27 (in the pl. called *nigrescens*, by confusion
probably with *Scydmænoides nigrescens*). *Pl., fig. 1.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 795. *Fig. 1028.*1886. " Zittel-Barrois, Traité de paléont., ii: 795. *Fig. 1046.**Dorcasoides nigrescens*. See *Dorcasoides bilobus*.**4311. *Dorcatoma* ———. (Ptinidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4312. *Dorcatoma* ———. (Ptinidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4313. *Dorcatoma* ———. (Ptinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscnle Danzig, 1856: 21.

4314. Dorcus ———. (Lucanidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag., n. s., v: 89.

4315. Dorcus (Eurytrachelus) primigenius. (Lucanidæ.)

Compared with *E. saiga* and *E. platymelus*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 11. *Pl. 21, figs. 1ab.*
 1881. " Verhandl. leop.-carol. akad. naturf., xlii: 303. *Pl. 21, figs. 1ab.*

Doritomus ———. See *Dorytomus* ——— Keferst.

4316. Dorytomus ———. (Curculionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1834. Keferst. Naturg. erdkörp., ii: 330 (*Doritomus*).

4317. Dorytomus ———. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 224.

4318. Dromius ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.
 1845. Motschulsky. Bull. soc. imp. nat. Mosc., xviii, ii: 98.

4319. Dromius ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.
 1836. " Man. ent., 576.

4320. Dromius ———. (Carabidæ.)

Compared with *D. agilis*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

4321. Dromius ———. (Carabidæ.)

Compared with *D. quadrimaculatus*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

4322. Dromius resinatus. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 70.
 See also *Lebina resinata*.

4323. Dryocætes carbonarius. (Scolytidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 768.
 1890. " Tert. ins. N. A., 470-471. *Pl. 8, fig. 6.*

4324. *Dryocætes impressus*. (Scolytidæ.)Compared with *D. affaber* (Mann.).

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv : 767-768.

1890. " Tert. ins. N. A., 470. Pl. 8, fig. 28.

See also *Trypodendron impressum*.**Dyticus** ———. See *Dytiscus* ——— Germ.**4325. *Dytiscus* ———. (Dytiscidæ.)**

Locality: Crofthead in Glasgow, Scotland. Horizon: Pleistocene.

1888. Bell. Entom., xxi : 2.

4326. *Dytiscus* ——— (larva). (Dytiscidæ.)

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian ?.

1837. Germar. Fauna insect. Europæ, xix : 1 (*Dytiscus*). Pl. 1.

1852. Giebel. Deutschl. petref., 655.

1856. " Insect. d. vorwelt, 58.

4327. *Dytiscus* ———. (Dytiscidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian ?.

1831. Goldfuss. Verhandl. Leop.-Carol. akad. naturf., vii, i : 118.

4328. *Dytiscus* ———. (Dytiscidæ.)Compared with *D. cinereus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 221.

4329. *Dytiscus* ———. (Dytiscidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Geol. mag., n. s., v : 89.

4330. *Dytiscus areolatus*. (Dytiscidæ.)Compared with *D. marginalis* Linn., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1861. Heer. Rech. climat pays tert., 204 (undescrib.).

4331. *Dytiscus avunculus*. (Dytiscidæ.)

Locality: Hühgan, Germany. Horizon: (Miocene ?).

1862. Heyden. Palaeontogr., x : 81-82. Pl. 10, fig. 39.

4332. *Dytiscus lavateri*. (Dytiscidæ.)Compared with *D. marginalis* L., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i : 24-25, 220-221. Pl. 1, fig. 6.

1852. Giebel. Deutschl. petref., 654.

1856. " Insect. d. vorwelt, 57.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi : 36-37. Pl. 2, figs. 11-14.

1865. Heer. Urwelt der Schweiz, 361, 383. *Figs. 279ab on p. 381.*
 1872. " Monde prim. Suisse, 443, 470. *Figs. 279ab on p. 467.*
 1876. " Prim. world Switz., ii: 15, 40. *Figs. 279ab on p. 38.*
 1879. " Urwelt der Schweiz, 2^e aufl., 387, 409. *Fig. 321 on p. 407.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 803. *Fig. 1067.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 804. *Fig. 1084.*
 1889. Nicholson. Man. palaeont., 3^d ed., i: 601. *Fig. 449a.*

4333. *Dytiscus oeningensis.* (Dytiscidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 26-27. *Pl. 1, fig. 7.*
 1852. Giebel. Deutschl. petref., 654.
 1856. " Insect. d. vorwelt, 57-58.

4334. *Dytiscus zersii.* (Dytiscidæ.)

Compared with *D. marginalis.*

Locality: Morla, vicinity Bergamo, Italy. Horizon: Quaternary.

1882. Sordelli. Alc. insetti foss. Lomb., 10-12. *Fig.*
 1882. " Bull. soc. ent. ital., xiv: 234-236. *Fig.*

4335. *Dytiscus zschokkeanus.* (Dytiscidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 26. *Pl. 8, fig. 3.*
 1852. Giebel. Deutschl. petref., 654.
 1856. " Insect. d. vorwelt, 57.

4336. *Ebæus* ———. (Malachidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4337. *Elaphrus irregularis.* (Carabidæ.)

Compared with *E. viridis* Horn.

Locality: Scarborough, Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 534. *Pl. 1, fig. 56.*

4338. *Elater* ———. (Elateridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1827. Brongniart. Diet. sc. nat., li: 233 (élaters).
 1829. Serres. Géogn. terrains tert., 240 (sternoxes du genre *Elater*).
 1834. Keferstein. Naturg. erdkörp., ii: 329 (sternopes).

4339. *Elater* ———. (Elateridæ.)

Compared with *E. æneus.*

Locality: Utznach, Switzerland. Horizon: Quaternary.

1839. Brullé. Gisem. ins. foss., 20.

4340. *Elater* ———. (Elateridæ.)

Compared with *E. cylindricus* Gyll.

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.
 1836. " Man. ent., 576-577.

4341. Elater ———. (Elateridæ.)

Locality: Mundesley, England. Horizon: Pliocene.

1840. Curtis. Lyell, Proc. geol. soc. Lond., iii: 175.

4342. Elater ———. (Elateridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

4343. [Elater] ———. (Elateridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1825. Guérin. Diet. class. d'hist. nat., viii: 580 (taupin).

4344. Elater ———. (Elateridæ.)

Locality: St. Jakob, Basel, Switzerland. Horizon: Interglacial.

1879. Heer. Urwelt der Schweiz, 2^e aufl., 533.**4345. Elater** ——— (2 sp.). (Elateridæ.)Compared with *E. niger*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 251.

4346. Elater ———. (Elateridæ.)Compared with *E. æneus*.

Locality: Prussian amber. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 240.

4347. Elater ———. (Elateridæ.)Compared with *E. castaneus*.

Locality: Prussian amber. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 240.

4348. Elater ———. (Elateridæ.)Compared with *E. variabilis*, *E. pilosus*.

Locality: Prussian amber. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 240-241.

4349. Elater ———. (Elateridæ.)

Locality: Peckham, England. Horizon: Paludina beds, Lower Eocene.

1861. Smith. Geologist, iv: 40.

4350. Elater ehrenwærdi. (Elateridæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad., handl. viii, vii: 74-75. Pl. 16, figs. 1a, 2-4, 4b.

4351. Elater holmgreni. (Elateridæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, vii: 75. Pl. 16, figs. 5-7.

4352. *Elater linearis*. (Elateridæ.)

- Locality: Mundesley, England. Horizon: Pleistocene.
 1888. Bell. Entom., xxi: 2 (Elatior).

4353. *Elater naumanni*. (Elateridæ.)

- Locality: Prussian amber. Horizon: Ligurian.
 1856. Giebel. Insect. d. vorwelt, 91.

4354. *Elater (Alaus) spectabilis*. (Elateridæ.)

- Locality: Oeningen, Baden. Horizon: Tortonian.
 1865. Heer. Urwelt der Schweiz. *Fig.* 262 on p. 378.
 1872. " Monde prim. Suisse. *Fig.* 262 on p. 464.
 1876. " Prim. world Switz., ii. *Fig.* 262 on p. 34.
 1879. " Urwelt der Schweiz, 2^e Aufl. *Fig.* 304 on p. 404.

4355. *Elater testaceus*. (Elateridæ.)

- Locality: Copal. Horizon: Recent.
 1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 183-184. *Pl.* 5, *fig.* 24

4356. *Elaterites amissus*. (Elateridæ.)

- Locality: Greith, Hohe Rhönen. Horizon: Aquitanian.
 1847. Heer. Insektenf. tertiärg. Oeningen, i: 142-143. *Pl.* 4, *figs.* 9, 9b.
 1852. Giebel. Deutschl. petref., 651.
 1856. " Insect. d. vorwelt, 94.

4357. *Elaterites dicrepidoides*. (Elateridæ.)

- Locality: Kutschlin, Bohemia. Horizon: Miocene.
 1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 16-19. *Pl.* 21, *figs.* 5a-e.
 1881. " Verhandl. leop.-carol. akad. naturf., xlii: 308-311. *Pl.* 21, *figs.* 5a-e.

4358. *Elaterites lavateri*. (Elateridæ.)

- Locality: Oeningen, Baden. Horizon: Tortonian.
 1847. Heer. Insektenf. tertiärg. Oeningen, i: 141-142. *Pl.* 4, *fig.* 8.
 1852. Giebel. Deutschl. petref., 651.
 1856. " Insect. d. vorwelt, 94.

4359. *Elaterites obsoletus*. (Elateridæ.)

- Locality: (Oeningen?, Baden). Horizon: Tortonian.
 1847. Heer. Insektenf. tertiärg. Oeningen, i: 142.
 1852. Giebel. Deutschl. petref., 651.
 1856. " Insect. d. vorwelt, 94.

4360. *Elaterium murchisoni*. (Elateridæ.)

- Locality: Vicinity Corfe, England. Horizon: ———.
 1854. Westwood. Proc. geol. soc. Lond., 395 (unnamed). *Pl.* 16, *fig.* 34.
 1856. Giebel. Insect. d. vorwelt, 93.

Elatior linearis. See *Elater linearis*.

4361. Elytridium deplanatum.

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, vii: 77-78. *Pl. 16, figs. 41a, c.*

4362. Elytridium rugulosum.

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, vii: 78. *Pl. 16, figs. 36-37.*

4363. Elytridium scabriusculum.

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, vii: 78. *Pl. 16, figs. 28-29.*

4364. Elytridium undecimstriatum.

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, vii: 77. *Pl. 16, figs. 21-22.*

4365. Entimus primordialis. (Otiiorhynchidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 84.
 1877. " Bull. U. S. geol. surv. terr., iii: 759.
 1885. " Zittel, Handb. palæont., i, th. ii: 789. *Fig. 1011.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 789. *Fig. 1028.*
 1890. " Tert. ins. N. A., 474-475. *Pl. 5, figs. 109, 109a.*

4366. Epicærus effossus. (Otiiorhynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 765.
 1890. " Tert. ins. N. A., 480-481. *Pl. 8, figs. 7, 35.*
 See also *Eudiagogus effossus.*

4367. Epicærus exanimis. (Otiiorhynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 765.
 1890. " Tert. ins. N. A., 479-480. *Pl. 8, figs. 30, 31, 38, 42.*
 See also *Eudiagogus exanimis.*

4368. Epicærus saxatilis. (Otiiorhynchidæ.)

Compared with *E. griseus* Schönh., Mexico.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 765.
 1890. " Tert. ins. N. A., 478-479. *Pl. 8, figs. 33, 34, 36.*
 See also *Eudiagogus saxatilis.*

4369. Epiphanis deletus. (Elateridæ.)

Compared with *E. cornutus.*

Locality: White River, Utah. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 80-81.
 1877. " Bull. U. S. geol. surv. terr., iii: 759.
 1890. " Tert. ins. N. A., 498. *Pl. 5, figs. 113, 114.*

4370. *Erinnys deleta*. (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art., 2: 145-146. Pl. 2, fig. 16.

See also *Lithoplanes* ———.**4371. *Erinnys elongata*. (Staphylinidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 144-145. Pl. 2, fig. 15.

See also *Lithoplanes* ———.**4372. *Erirhinoides cariniger*. (Curculionidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Études entom., v: 27.

4373. *Erirhinus chantrei*. (Curculionidæ.)Compared with *E. (Notaris) scirpi* Fabr., Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 289-290. Pl. 3, fig. 19.

4374. *Erycus acridulus* (recent). (Curculionidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1858. Linné. Syst. nat., 378.]

1884. Flach. Käfer unterpleist. Hösbach, 10. Pl. 2, figs. 8a-c.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 294. Pl. 9, figs. 8a-c.

4375. *Erycus æthiops* (recent.) (Curculionidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1792. Fabricius. Ent. syst., i, ii: 405.]

1884. Flach. Käfer unterpleist. Hösbach, 10. Pl. 2, fig. 7.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 294. Pl. 9, fig. 7.

4376. *Escheria* ——— (4 sp.). (Hydrophilidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4377. *Escheria bella*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 69-70. Pl. 5, fig. 17.

1865. " Urwelt der Schweiz. Fig. 273 on p. 381.

1872. " Monde prim. Suisse. Fig. 273 on p. 467.

1876. " Prim. world Switz., ii. Fig. 273 on p. 38.

1879. " Urwelt der Schweiz, 2^e anl. Fig. 315 on p. 407.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 802. Fig. 1063.

1886. " Zittel-Barrois, Traité de paléout., ii: 803. Fig. 1080.

4378. *Escheria ovalis*. (Hydrophilidæ.)

Locality: (Oeningen?, Baden.) Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 57-60 (ovata on pl.). Pl. 7, fig. 23.

1852. Giebel. Deutshl. petref., 653.
 1853-56. Bronn. Lethæa geogn., 3^e aufl., iii : 648. *Pl. 42', figs. 26ab.*
 1856. Giebel. Insect. d. vorwelt, 51-52.

Escheria ovata. See *Escheria ovalis*.

4379. Escheria ? protogææ. (Hydrophilidæ.)

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian.

1847. Heer. Insektenf. tertiärg. Oeningen, i : 60.
 1856. Giebel. Insect. d. vorwelt, 52.

See also *Coccinella protogææ*.

4380. Eucnemis ———. (Elateridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i : 56.

4381. Eudiagogus effossus. (Otiorynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii : 85-86.

See also *Epicærus effossus*.

4382. Eudiagogus exanimis. (Otiorynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii : 85.

See also *Epicærus exanimis*.

4383. Eudiagogus saxatilis. (Otiorynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii : 84-85.

See also *Epicærus saxatilis*.

4384. Eudiagogus terrosus. (Otiorynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv : 766-767.

1890. " Tert. ins. N. A., 475. *Pl. 8, fig. 29.*

4385. Eugnamptus decemsatus. (Rhynchitidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv : 764-765.

1890. " Tert. ins. N. A., 482. *Pl. 8, fig. 12.*

4386. Eugnamptus grandævus. (Rhynchitidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 481-482. *Pl. 8, fig. 20.*

See also *Sitones grandævus*.

4387. Eunectes antiquus. (Dytiscidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3 : 56-57. *Pl. 1, figs. 1, 2.*

4388. Euplectus ———. (Pselaphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i : 56.

4389. Eupsinoides glabrellus. (Pselaphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. *Études entom.*, v: 26-27.**4390. Eurhinus occultus.** (Curculionidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1876. Seudder. *Bull. U. S. geol. surv. terr.*, ii: 87.**4391. Eurychirus (Otiorynchus) induratus.** (Otiorynchidæ.)

Locality: Rott, Rheinish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 149-150. ("Perhaps forms a new genus to which perhaps belong *Sphenophorus nægelianus* Heer and *S. regelianus* Heer.") *Pl. 23, figs. 16, 17.*1866. " *Käfer u. polypen*, 19-20. *Pl. 2, figs. 16, 17.*1870. L. Heyden. *Foss. dipt. Rott*, 29.1870. " *Palaeontogr.*, xvii: 265.**4392. Eurythyrea longipennis.** (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg. Oeningen*, i: 112-114. *Pl. 3, fig. 10.*1852. Giebel. *Deutschl. petref.*, 652.1856. " *Insect. d. vorwelt*, 85.**Eurytrachelus primigenius.** See *Doreus* (*Eurytrachelus*) *primigenius*.**4393. Feronia** ———. (Carabidæ.)Compared with *F. leucophthalma*.

Locality: Utznach, Switzerland. Horizon: Quaternary.

1839. Brullé. *Gisem. ins. foss.*, 20.**4394. Feronia (Pœcilus)** ———. (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. *Käfer unterpleist. Hösbach*, 5.1884. " *Verhandl. physik.-med. gesellsch. Würzb.*, n. f., xviii: 289.**4395. Feronia (Pterostichus)** ———. (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. *Käfer unterpleist. Hösbach*, 5.1884. " *Verhandl. physik.-med. gesellsch. Würzb.*, n. f., xviii: 289.**4396. Feronia (Steropus) æthiops** (recent). (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1797. Panzer. *Faun. germ.*, xxxvii: 22.]1884. Flach. *Käfer unterpleist. Hösbach*, 5. *Pl. 1, fig. 7.*1884. " *Verhandl. physik.-med. gesellsch. Würzb.*, n. f., xviii: 289. *Pl. 8, fig. 7.***4397. Feronia (Argutor) diligens** (recent). (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1824. Sturm. *Deutschl. fauna, Ins.*, v: 81. *Pl. 117, figs. a, A.*]1884. Flach. *Käfer unterpleist. Hösbach*, 6. *Pl. 1, fig. 8.*1884. " *Verhandl. physik.-med. gesellsch. Würzb.*, n. f., xviii: 290. *Pl. 8, fig. 8.*

4398. *Feronia minax.* (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 102-104. Pl. 1, fig. 6.

4399. *Feronia (Platysma) oblongopunctata* (recent). (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1801. Fabricius. Syst. eleuth., i: 183.]

1884. Flach. Käfer unterpleist. Hösbach, 5. Pl. 1, fig. 6.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 289. Pl. 8, fig. 6.

4400. *Feronia (Abax) parallela* (recent). (Carabidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1812. Duftschmid. Faun. acstr., ii: 64.]

1884. Flach. Käfer unterpleist. Hösbach, 6.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 290.

4401. *Feronia provincialis.* (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 105-106. Pl. 1, fig. 4.

4402. *Fusslinia amœna.* (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 123-128. Pl. 6, fig. 4.

1852. Giebel. Deutschl. petref., 651.

1853-'56. Bronn. Lethæa geogn., 3^e aufl., iii: 647. Pl. 42', figs. 28a-c.

1856. Giebel. Insect. d. vorwelt, 89-90.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 797. Fig. 1035.

1886. " Zittel-Barrois, Traité de paléont., ii: 797. Fig. 1053.

4403. *Galeruca* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56 (*Galleruca*).**4404. *Galeruca* ———.** (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635 (*Galleruca*).

1836. " Man. ent., 577.

4405. *Galeruca* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

4406. *Galeruca* ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1838. Robert. Bull. soc. géol. France, ix: 114.

4407. *Galeruca aichnorni.* (Chrysomelidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1858. Heer. Ber. versamml. deutsch. naturf., xxxii: 119 (undescri.).

4408. *Galeruca buchi*. (Chrysomelidæ.)Compared with *G. halensis*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 372 (*Galleruca*). *Fig.* 236 on *p.* 371.
 1872. " Monde prim. Suisse, 456. *Fig.* 236 on *p.* 455.
 1876. " Prim. world Switz., ii: 26. *Fig.* 236 on *p.* 27.
 1879. " Urwelt der Schweiz, 2^e Aufl., 397. *Fig.* 278.

4409. *Galeruca gemmifera*. (Chrysomelidæ.)Compared with *G. (Edionychus) decemguttata*, Cuba, Brazil.

Locality: Oeningen, Baden. Horizon: Tortonian.

1879. Heer. Urwelt der Schweiz, 2^e Aufl., 397 (*Galleruca*). *Fig.* 262 on *p.* 384.

4410. *Galerucella* ———. (Chrysomelidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4411. *Galerucella picea*. (Chrysomelidæ.)Compared with *G. maritima* LeC.

Locality: Nine-mile Creek, British Columbia. Horizon: ———.

1879. Scudder. Rept. progr. geol. surv. Can., 1877-78: B182-183 (*Galerucella*).
 1879. " Insect. tert. Nicola, 7-8.
 1890. " Tert. ins. N. A., 485. *Pl.* 2, *fig.* 31.

Galleruca (several species). See *Galeruca*, the same species.***Galerucella picea***. See *Galerucella picea*.**4412. *Geotrupes* ———. (Scarabæidæ.)**

Locality: East Scotland. Horizon: Pleistocene.

1888. Bell. Entom., xxi: 2.

4413. *Geotrupes* ? ———. (Scarabæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 251.

4414. *Geotrupes atavus*. (Scarabæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Onstalet. Ann. sc. géol., v, art. 2: 199-201. *Pl.* 3, *fig.* 7.

4415. *Geotrupes germari*. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 71-72. *Pl.* 6, *fig.* 10.
 1865. " Urwelt der Schweiz, 379.
 1872. " Monde prim. Suisse, 465.
 1876. " Prim. world Switz., ii: 36.
 1879. " Urwelt der Schweiz, 2^e Aufl., 405.

4416. *Geotrupes proævus*. (Scarabæidæ.)

Locality: Orsberg, Germany. Horizon: Miocene.

1849. Germar. Zeitschr. deutsch. geol. gesellsch., i: 57-58. *Pl. 2, fig. 2.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 36.

4417. *Geotrupes putridarius* (recent). (Scarabæidæ.)

Locality: Vannes, France. Horizon: Pleistocene.

- [1846. Erichson. Naturg. ins., iii: 730.]
 1876. Fliche. Comptes rendus, lxxxii: 979.

4418. *Geotrupes stercorarius* (recent). (Scarabæidæ.)

Locality: Hailes Quarry, Edinburgh, Scotland. Horizon: Peat below till.

- [1746. Linné. Faun. suec., 135.]
 1881. Purves. Geikie, Prehist. Europe, 256.

4419. *Geotrupes vernalis* (recent). (Scarabæidæ.)

Locality: Vannes, France. Horizon: Pleistocene.

- [1746. Linné. Faun. suec., 136.]
 1876. Fliche. Comptes rendus, lxxxii: 979.

4420. *Geotrupes vetustus*. (Scarabæidæ.)Compared with *G. sylvaticus*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian?.

1837. Germar. Fauna insect. Europæ, xix: 6. *Pl. 6.*
 1839. Brullé. Gisem. ins. foss., 20.
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 35-36.

4421. *Glyphyrus antiquus*. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 79. *Pl. 6, fig. 20.*
 1865. " Urvwelt der Schweiz, 380.
 1872. " Monde prim. Suisse, 466.
 1876. " Prim. world Switz., ii: 37.
 1879. " Urvwelt der Schweiz, 2^e Aufl., 406.

4422. *Glenopterus lævigatus*. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 16-18, 219. *Pl. 1, fig. 2.*
 1852. Giebel. Deutschl. petref., 655.
 1856. " Insect. d. vorwelt, 71.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 804. *Fig. 1060.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 805. *Fig. 1060.*

Gnorimus ædilis. See *Trichius* (*Gnorimus*) *ædilis*.**Gnorimus lugubris.** See *Trichius* (*Gnorimus*) *lugubris*.**4423. *Gonioctena clymene*.** (Chrysomelidæ.)Compared with *G. pallida* Fabr.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 213-214. *Pl. 7, fig. 14.*
 1852. Giebel. Deutschl. petref., 648.

1856. Giebel. Insect. d. vorwelt, 118.
 1865. Heer. Urwelt der Schweiz, 372.
 1872. " Monde prim. Suisse, 456.
 1876. " Prim. world Switz., ii: 26.
 1879. " Urwelt der Schweiz, 2^e aufl., 397.

4424. Goniocтена curtisii. (Chrysomelidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 336-337. *Pl. 4, fig. 14.*

4425. Goniocтена japeti. (Chrysomelidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 212-213. *Pl. 7, fig. 13.*
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 117-118.

4426. Goniocтена primordialis. (Chrysomelidæ.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1869. Assmann. Beitr. ins. d. vorwelt, 43-44. *Pl. 1, figs. 6, 6a.*
 1869. " Schles. zeitschr. f. ent., (2), i: 43-44. *Pl. 1, figs. 6, 6a.*

4427. Gonocephalum (Hopatrum) pristinum. (Tenebrionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 144-145 (Opatrum). *Pl. 22, fig. 27.*
 1866. " Käfer u. polypen, 14-15. *Pl. 1, fig. 27.*

4428. Gymnetron ———. (Curculionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4429. Gymnetron lecontei. (Curculionidæ.)

Compared with *G. teter* Schöuh.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 767.
 1890. " Tert. ins. N. A., 471-472. *Pl. 8, fig. 26.*

4430. Gymnochila obesa. (Trogositidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 56-57. *Pl. 3, figs. 11, 11b.*
 1865. " Urwelt der Schweiz, 382.
 1872. " Monde prim. Suisse, 469.
 1876. " Prim. world Switz., ii: 40.
 1879. " Urwelt der Schweiz, 2^e aufl., 408.

4431. Gymnopleurus deperditus. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 73. *Pl. 6, fig. 9.*

4432. *Gymnopleurus rotundatus*. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 72-73. *Pl. 6, fig. 8.*
 1865. " Urwelt der Schweiz, 379. *Fig. 270 on p. 378.*
 1872. " Monde prim. Suisse, 465. *Fig. 270 on p. 463.*
 1876. " Prim. world Switz., ii: 36. *Fig. 270 on p. 34.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 405. *Fig. 312 on p. 404.*

4433. *Gymnopleurus sisypus*. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiär. Oeningen, i: 64-66. *Pl. 7, fig. 25.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 38.

4434. *Gyrinoides limbatus*. (Gyrinidæ.)Compared with *Gyrinus minutus*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Études entom., v: 26.

4435. *Gyrinus* ——. (Gyrinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4436. *Gyrinus* ——. (Gyrinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petr. schule Danzig, 1856: 23.

4437. *Gyrinus marinus* (recent). (Gyrinidæ.)

Locality: St. Jakob, Basel, Switzerland. Horizon: Interglacial.

- [1808. Gyllenhal. Ins. succ., i: 143.]
 1879. Heer. Urwelt der Schweiz, 2^e Aufl., 533.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 803.
 1886. " Zittel-Barrois, Traité de paléont., ii: 803.
 1886. " Bull. U. S. geol. surv., No. 31: 83.

4438. *Gyrinus natator* (recent). (Gyrinidæ.)

Locality: Schwerzenbach, Switzerland. Horizon: Glacial clay.

- [1746. Linné. Faun. succ., no. 779.]
 1879. Heer. Urwelt der Schweiz, 2^e Aufl., 581. *Pl. 12, fig. 17.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 803.
 1886. " Zittel-Barrois, Traité de paléont., ii: 803.
 1886. " Bull. U. S. geol. surv., No. 31: 83.

4439. *Gyrophæna saxicola*. (Staphylinidæ.)Compared with *G. vinula*.

Locality: White River, Colo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 78.
 1877. " Bull. U. S. geol. surv. terr., iii: 759.
 1890. " Tert. ins. N. A., 509. *Pl. 5, figs. 123, 124.*

4440. Hæmonia ——. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4441. Haliphus ——. (Halipidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 42.

4442. Hallomenus (or Orchesia) ——. (Melandryidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4443. Haltica ——. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4444. Haltica ——. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. " Handb. ent., i: 635.

1836. " Man. ent., 577.

4445. Haltica ——. (Chrysomelidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

4446. Haltica — (3 sp.). (Chrysomelidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4447. Haltica ——. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 21.

4448. Harpalus ——. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4449. Harpalus ——. (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295 (perhaps Ophonus).

1829. " Murchison-Lyell, Tert. form. Aix, 11.

4450. Harpalus (Argutor or Ophonus) ——. (Carabidæ.)

Locality: Mundesley, England. Horizon: Pliocene.

1840. Curtis. Lyell, Proc. geol. soc. Lond., iii: 175.

1888. Bell. Entom., xxi: 2.

4451. Harpalus ——. (Carabidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass Lothr., i: 165.

1889. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

4452. Harpalus ——— (2 sp.). (Carabidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4453. Harpalus ——. (Carabidæ.)Compared with *H. ruficornis*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 250.

4454. Harpalus ——. (Carabidæ.)Compared with *H. griseus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 221, 271-272. Pl. 5, fig. 7.

1856. Giebel. Insect. d. vorwelt, 64.

4455. Harpalus abolitus. (Carabidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 134. Pl. 22, fig. 1.

1866. " Käfer u. polypen, 4. Pl. 1, fig. 1.

4456. Harpalus bruckmanni. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 26-27. Pl. 1, figs. 21, 21b.

4457. Harpalus constrictus. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 29. Pl. 1, fig. 24.

4458. Harpalus deletus. (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 111-114. Pl. 1, fig. 5.

Harpalus diluvianus. See Carabites (*Harpalus*) *diluvianus*.**Harpalus finis**. See *Harpalus sinis*.**4459. Harpalus lævicollis** (recent). (Carabidæ.)

Locality: Schwerzenbach, Switzerland. Horizon: Glacial clay.

[1812. Duftschmid. Fauna austr., ii: 163.]

1879. Heer. Urwelt der Schweiz, 2^e aull., 581. Pl. 12, figs. 16, 16b.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 804.

1886. " Bull. U. S. geol. surv. No. 31: 84.

4460. Harpalus nero. (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 109-111. Pl. 1, fig. 9.

4461. Harpalus sinis. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 219-220. *Pl. 8, fig. 2.*
 1852. Giebel. Deutschl. petref., 655 (finis).
 1856. " Insect. d. vorwelt, 62, 64.

4462. Harpalus stierlini. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 27. *Pl. 1, fig. 23.*

4463. Harpalus stygius. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 23. *Pl. 1, fig. 22.*

4464. Harpalus tabidus. (Carabidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 23-24. *Pl. 7, fig. 19.*
 1852. Giebel. Deutschl. petref., 655.
 1856. " Insect. d. vorwelt, 62.

4465. Harpalus tardigradus. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 28. *Pl. 1, fig. 20.*
 1865. " Urwelt der Schweiz. *Fig. 284 on p. 384.*
 1872. " Monde prim. Suisse. *Fig. 284 on p. 471.*
 1876. " Prim. world Switz, ii. *Fig. 284 on p. 42.*
 1879. " Urwelt der Schweiz, 2^e Aufl. *Fig. 326 on p. 410.*

4466. Helluomorpha protogæa. (Carabidæ.)

Compared with *H. tripustulata*, China.

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 316.

4467. Helobia ———. (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Loud., iv: 250.

4468. Helophorus exilis. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 71. *Pl. 5, fig. 20.*

4469. Helophorus magnus. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 71. *Pl. 5, fig. 19.*

4470. Helophorus rigescens. (Hydrophilidæ.)

Compared with *H. tuberculatus* Gyll.

Locality: Scarboro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 516-517. *Pl. 1, fig. 53.*

4471. Helops ———. (Tenebrionidæ.)Compared with *H. lanipes*.

Locality: Eisleben, Saxony. Horizon: ———.

1856. Giebel. Zeitschr. ges. naturw., vii: 385. *Pl.* 5, *fig.* 2.**4472. Helops meissneri**. (Tenebrionidæ.)

Locality: (Oeningen, Baden ?.) Horizon: Tortonian.

1847. Heer. Insektenf. tertiär. Oeningen, i: 161-162. *Pl.* 5, *fig.* 9.

1852. Giebel. Deutschl. petref., 650.

1856. " Insect. d. vorwelt, 111.

4473. Helops molassicus. (Tenebrionidæ.)

Locality: Lausanne, Switzerland. Horizon: Miocene.

1883. Heer. Flora foss. grönl., ii: 145. *Pl.* 109, *fig.* 9.**4474. Helops wetteravicus**. (Tenebrionidæ.)Compared with *H. lanipes*.

Localities: Salzhausen, Germany; Umivik, Greenland. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 33. *Pl.* 9, *fig.* 18.1883. Heer. Flora foss. grönl., ii: 145. *Pl.* 109, *figs.* 8, 8b-c.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 71.

4475. Hesthesis antiqua. (Cerambycidæ.)

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian?.

1862. Heyden. Palaeontogr., x: 73.

See also *Molorehus antiquus*.**4476. Hesthesis immortua**. (Cerambycidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 72-73. *Pl.* 10, *fig.* 36.**4477. Hipporhinus brevis**. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 146.

4478. Hipporhinus heeri. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1849. Germar. Zeitschr. deutsch. geol. gesellsch., i: 62-64. *Pl.* 2, *figs.* 6, 6a.1856. Heer. Viert. naturf. gesellsch. Zürich, i: 21-22. *Pl.* 1, *fig.* 11.

1856. Giebel. Insect. d. vorwelt, 146.

1874. Oustalet. Ann. sc. géol., v, art. 2: 214-230. *Pl.* 3, *fig.* 11; *pl.* 4, *figs.* 1-5, 8; *pl.* 5, *figs.* 1, 2; *pl.* 6, *figs.* 4, 5, 14.1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 789. *Fig.* 1008.1886. " Zittel-Barrois, Traité de paléont., ii: 789. *Fig.* 1026.

1886. " Bull. U. S. geol. surv., No. 31: 68.

See also *Brachycerus* ——— *Serres* (cf. *hispanicus*).**4479. Hipporhinus longipes**. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS. in Oustalet.

See also *Brachyderes longipes*, etc.

4480. Hipporhinus reynesii. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 231-234. *Pl.* 5, *figs.* 3, 4.**4481. Hipporhinus schaumii.** (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 22. *Pl.* 1, *fig.* 10.1874. Oustalet. Ann. sc. géol., v, art. 2: 230-231. *Pl.* 6, *fig.* 6.**4482. Hister** ———. (Histeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4483. Hister ——— (2 sp.). (Histeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

4484. Hister æmulus. (Histeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 60. *Pl.* 3, *fig.* 23.

1865. " Urwelt der Schweiz, 382.

1872. " Monde prim. Suisse, 463.

1876. " Prim. world Switz., ii: 39.

1879. " Urwelt der Schweiz, 2^e aufl., 407.**4485. Hister antiquus.** (Histeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 58. *Pl.* 3, *fig.* 17.

1865. " Urwelt der Schweiz, 382.

1872. " Monde prim. Suisse, 463.

1876. " Prim. world Switz., ii: 39.

1879. " Urwelt der Schweiz, 2^e aufl., 407.**4486. Hister cadaverinus** (recent). (Histeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

[1803. Hoffmann. Ent. hefte, i: 34. *Pl.* 1, *fig.* 2.]

1888. Schöberlin. Soc. entom., iii: 42.

4487. Hister coprolithorum. (Histeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 58-59. *Pl.* 3, *figs.* 19, 20.

1865. " Urwelt der Schweiz, 472.

1865. Lyell. Elem. geol., 6th ed., 249. *Fig.* 181d.

1872. Heer. Monde prim. Suisse, 575.

1876. " Prim. world Switz., ii: 132.

1879. " Urwelt der Schweiz, 2^e aufl., 499.

4488. *Hister maculigerus*. (Histeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 59-60. *Pl. 3, fig. 22.*
 1865. " Urwelt der Schweiz, 382.
 1872. " Monde prim. Suisse, 468.
 1876. " Prim. world Switz., ii: 39.
 1879. " Urwelt der Schweiz, 2^e Aufl., 407.

4489. *Hister marmoratus*. (Histeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 59. *Pl. 3, fig. 21.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 799. *Fig. 1046.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 799. *Fig. 1063.*

4490. *Hister mastodontis*. (Histeridæ.)Compared with *H. major* L., Southern Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 57-58. *Pl. 3, figs. 16, 16b.*
 1865. " Urwelt der Schweiz, 382. *Fig. 276, on p. 381.*
 1872. " Monde prim. Suisse, 468. *Fig. 276 on p. 467.*
 1876. " Prim. world Switz., ii: 39. *Fig. 276 on p. 38.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 407. *Fig. 318.*

4491. *Hister morosus*. (Histeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 60. *Pl. 3, fig. 24.*

4492. *Hister vetustus*. (Histeridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 58. *Pl. 3, fig. 18.*

4493. *Homalium* ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56 (*Omalium*).

4494. *Homalium protogeæ*. (Staphylinidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 34-35 (*Omalium*). *Pl. 1, fig. 10.*
 1852. Giebel. Deutschl. petref., 654.
 1856. " Insect. d. vorwelt, 74.

4495. *Homalota recisa*. (Staphylinidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 509-510. *Pl. 8, fig. 14.*

4496. *Hopatrum* ———. (Tenebrionidæ.)Compared with *H. sabulosum*.

Locality: Prussian amber. Horizon: Lignurian.

1832. Burmeister. Handb. ent., i: 635 (*Opatrum*).
 1836. " Man. ent., 577.

4497. Hopatrum ———. (Tenebrionidæ.)Compared with *H. pusillum*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 222 (*Opatrum*).**Hopatrum pristinum.** See *Gonocephalum (Hopatrum) pristinum*.**4498. Hopatrum sabulosum** (recent). (Tenebrionidæ.)

Locality: Hochheim, Germany. Horizon: "Kalkmergel."

[1761. Linné. Faun. suec., 150. (*Opatrum*.)]

1840. Meyer. Ersch u. Grüber, Encycl. d. wissensch., sect. 2, th. xviii: 539.

1885. Sænder. Zittel, Handb. palæont., i, th. ii: 791.

1886. " Zittel-Barrois, Traité de paléont., ii: 792.

4499. Hormiscus partitus. (Anthribidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 467. Pl. 8, fig. 17.

4500. Hybosorus lividus. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 77. Pl. 6, fig. 22.

4501. Hydaticus areolatus. (Dytiscidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 40-41. Pl. 2, fig. 20.

4502. Hydaticus zschokkeanus. (Dytiscidæ.)Compared with *H. cinereus* (Linn.), Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1861. Heer. Rech. climat pays tert., 204 (undescribed).

4503. Hydræna riparia (recent). (Hydrophilidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1794. Kugelann. Schneiders mag., i: 579.]

1884. Flach. Käfer unterpleist. Hösbach, 8. Pl. 2, fig. 1.

1884. " Verhandl. physik.-med. gesellsch. Wurzb., n. f., xviii: 292. Pl. 9, fig. 1.

4504. Hydrobius ———. (Hydrophilidæ.)Compared with *H. fuscipes*.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

4505. Hydrobius ———. (Hydrophilidæ.)Compared with *H. fuscipes*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 250.

4506. *Hydrobius confixus*. (Hydrophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 511-512. Pl. 7, fig. 25.

4507. *Hydrobius couloni*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 70. Pl. 5, figs. 22, 22b.

4508. *Hydrobius decineratus*. (Hydrophilidæ.)Compared with *H. fuscipes* Curt., California.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 761.

1890. " Tert. ins. N. A., 511. Pl. 8, fig. 27.

4509. *Hydrobius fuscipes* (recent). (Hydrophilidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1746. Linné. Faun. suec., no. 766.]

1884. Flach. Käfer unterpleist. Hösbach, 8.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 292.

4510. *Hydrobius godeti*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 70-71. Pl. 5, figs. 21, 21b.

4511. *Hydrobius longicollis*. (Hydrophilidæ.)

Locality: Radoboj, Croatia. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 56-57 (*H. ungeri* on pl.). Pl. 2, fig. 6.

1852. Giebel. Deutschl. petref., 653.

1856. " Insect. d. vorwelt, 53.

4512. *Hydrobius nauckhoffi*. (Hydrophilidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. 7: 74. Pl. 16, figs. 10-11.

4513. *Hydrobius obsoletus*. (Hydrophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 18. Pl. 1, fig. 19.

1874. Oustalet. Ann. sc. géol., v, art. 2: 128-129.

***Hydrobius ungeri*.** See *Hydrobius longicollis*.**4514. *Hydrochus amictus*.** (Hydrophilidæ.)Compared with *H. subcupreus* Rand.

Locality: Scarbro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 515-516. Pl. 1, fig. 47.

4515. *Hydrochus relictus*. (Hydrophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 516. Pl. 8, fig. 11.

4516. *Hydronomus* (?) *nasutus*. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 291-293. Pl. 5, fig. 6.

4517. *Hydrophilites naujatensis*. (Hydrophilidæ.)

Locality: Naujat, Greenland. Horizon: Miocene?

1883. Heer. Flora foss. Grönl., ii: 144 (*Hydrophylites*). Pl. 86, fig. 12b; pl. 109, fig. 10.**4518. *Hydrophilopsis elongata*.** (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 69. Pl. 5, figs. 18, 18b.

1865. " Urwelt der Schweiz. Fig. 274 on p. 381.

1872. " Monde prim. Suisse. Fig. 274 on p. 467.

1876. " Prim. world Switz., ii. Fig. 274 on p. 38.

1879. " Urwelt der Schweiz, 2^e Aufl. Fig. 316 on p. 407.**4519. *Hydrophilopsis incerta*.** (Hydrophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 125-126. Pl. 2, fig. 3.

4520. *Hydrophilus* ———. (Hydrophilidæ.)

Locality: Bolca, Italy. Horizon: Ligurian.

1886. Omboni. Alc. ins. foss. ven., 10. Pl. 3, fig. 14.

1886. " Atti r. ist. Ven., (6), iv: 1430. Pl. 3, fig. 14.

4521. *Hydrophilus* ———. (Hydrophilidæ.)

Locality: France. Horizon: Miocene.

1820. Schlotheim. Petrefactenk., 44 (*Hydrophylus*).**4522. *Hydrophilus* ———.** (Hydrophilidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.

4523. *Hydrophilus* ———. (Hydrophilidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Geol. mag., n. s., v: 89.

4524. *Hydrophilus antiquus*. (Hydrophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS.

1874. Oustalet. Ann. sc. géol., v, art. 2: 124-125. Pl. 2, fig. 2.

4525. *Hydrophilus braunii*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 55-56, 221. *Pl. 2, fig. 5; pl. 8, fig. 4.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 55.
 See also *Hydrous braunii*.

4526. *Hydrophilus caraboides* (recent). (Hydrophilidæ.)

Locality: St. Jakob, Basel, Switzerland. Horizon: Interglacial.

- [1746. Linné. Fauna suec., no. 214.]
 1847. Heer. Insektenf. tertiärg. Oeningen, i: 54, 55. *Pl. 2, fig. 4.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 533.

4527. *Hydrophilus carbonarius*. (Hydrophilidæ.)

Locality: Parschlug, Styria. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 52. *Pl. 7, fig. 24.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 54-55.

4528. *Hydrophilus fraternus*. (Hydrophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 2. *Pl. 2, fig. 6.*

4529. *Hydrophilus gaudini*. (Hydrophilidæ.)

Locality: Monod, near Chexbres, Switzerland. Horizon: Aquitanian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 61. *Pl. 4, fig. 20.*
 1865. " Urwelt der Schweiz, 381.
 1872. " Monde prim. Suisse, 467.
 1876. " Prim. world Switz., ii: 38.
 1879. " Urwelt der Schweiz, 2^e Aufl., 406.

4530. *Hydrophilus giganteus*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 62-65. *Pl. 4, figs. 1-12; pl. 5, figs. 1-2.*
 1865. " Urwelt der Schweiz, 381. *Fig. 271.*
 1872. " Monde prim. Suisse, 467. *Fig. 271.*
 1876. " Prim. world Switz., ii: 38. *Fig. 271.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 406. *Fig. 313 on p. 407.*

4531. *Hydrophilus knorrii*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 51-52. *Pl. 2, fig. 2.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 54.

4532. *Hydrophilus noachicus*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 52-53. *Pl. 1, fig. 13.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 55.

4533. *Hydrophilus piceus* (recent). (Hydrophilidæ.)

Locality: Lagozza, vicinity Besnate, Italy. Horizon: Quaternary.

- [1746. Linné. Fauna suec., no. 764.]
 1882. Sordelli. Alc. ins. foss. Lomb., 2.
 1882. " Bull. soc. ent. ital., xiv: 225.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 802.
 1886. " Zittel-Barrois, Traité de paléont., ii: 803.
 1886. " Bull. U. S. geol. surv., No. 31: 82.

4534. *Hydrophilus rehmanni*. (Hydrophilidæ.)Compared with *Hydrochaeres caraboides*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 53-55. Pl. 2, fig. 3.
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 55.

See also *Hydrous rehmanni*.**4535. *Hydrophilus ruminianus*. (Hydrophilidæ.)**

Locality: Monod, near Chexbres, Switzerland. Horizon: Aquitanian.

1865. Heer. Urwelt der Schweiz, 381.
 1872. " Monde prim. Suisse, 468.
 1876. " Prim. world Switz., ii: 38.
 1879. " Urwelt der Schweiz, 2^e aufl., 406.

4536. *Hydrophilus spectabilis*. (Hydrophilidæ.)Compared with *H. piceus* L., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 49-51. Pl. 2, figs. 1, 1b.
 1852. Giebel. Deutschl. petref., 653.
 1854. Pictet. Traité de paléont., 2^e éd., ii: 341. Pl. 40, fig. 12.
 1856. Giebel. Insect. d. vorwelt, 54.
 1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 61. Pl. 4, fig. 21.
 1865. " Urwelt der Schweiz, 381.
 1872. " Monde prim. Suisse, 467.
 1876. " Prim. world Switz., ii: 37.
 1879. " Urwelt der Schweiz, 2^e aufl., 406.

4537. *Hydrophilus stenopterus*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 65. Pl. 4, fig. 13.

4538. *Hydrophilus vexatorius*. (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 47-49. Pl. 1, figs. 12, 12b.
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 53-54.
 1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 62. Pl. 4, figs. 14-19.

Hydrophylites naujatensis. See *Hydrophilites naujatensis*.**Hydrophylus** ———. See *Hydrophilus* ——— Schlottheim.

4539. *Hydroporus* ———. (Dytiscidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach.

Käfer unterpleist. Hösbach, 8.

1884. “

Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 292.

4540. *Hydroporus antiquus*. (Dytiscidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer.

Verhandl. holl. maatsch. wetensch. Haarl., xvi: 42. *Pl. 2, fig. 15.*

1865. “

Urwelt der Schweiz. *Fig. 282 on p. 381.*

1872. “

Monde prim. Suisse. *Fig. 282 on p. 467.*

1876. “

Prim. world Switz., ii. *Fig. 282 on p. 38.*

1879. “

Urwelt der Schweiz, 2^e anfl. *Fig. 324 on p. 407.***4541. *Hydroporus benzeli*.** (Dytiscidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer.

Verhandl. holl. maatsch. wetensch. Haarl., xvi: 42-43. *Pl. 2, fig. 29.***4542. *Hydrous braunii*.** (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer.

Verhandl. holl. maatsch. wetensch. Haarl., xvi: 67. *Pl. 5, figs. 12-14.*See also *Hydrophilus braunii*.**4543. *Hydrous escheri*.** (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer.

Verhandl. holl. maatsch. wetensch. Haarl., xvi: 67-68. *Pl. 5, figs. 16, 16b.*

1865. “

Urwelt der Schweiz. *Fig. 272 on p. 381.*

1872. “

Monde prim. Suisse. *Fig. 272 on p. 467.*

1876. “

Prim. world Switz., ii. *Fig. 272 on p. 38.*

1879. “

Urwelt der Schweiz, 2^e anfl. *Fig. 314 on p. 407.***4544. *Hydrous miserandus*.** (Hydrophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden.

Palaeontogr., viii: 2. *Pl. 2, fig. 5.***4545. *Hydrous neptunus*.** (Hydrophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 135-136. *Pl. 22, fig. 5.*

1866. “

Käfer u. polypen, 5-6. *Pl. 1, fig. 5.***4546. *Hydrous ovalis*.** (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer.

Verhandl. holl. maatsch. wetensch. Haarl., xvi: 68. *Pl. 6, fig. 1.***4547. *Hydrous rehmanni*.** (Hydrophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer.

Verhandl. holl. maatsch. wetensch. Haarl., xvi: 65-66. *Pl. 5, figs. 3-11.*See also *Hydrophilus rehmanni*.

4548. Hygronoma deleta. (Staphylinidæ.)Compared with *H. dimidiata* Grav., Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 179-180. Pl. 3, fig. 5.

4549. Hylastes? squalidens. (Scolytidæ.)

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 468-469. Pl. 1, figs. 23-25.

See also ——— (Scolytidæ) Scudder.

4550. Hylecætus cylindricus. (Lymexylidæ.)Compared with *H. dermestoides* (L.).

Locality: Oeningen, Baden. Horizon: Tortonian

1865. Heer. Urwelt der Schweiz, 362, 377.

1872. " Monde prim. Suisse, 444, 462.

1876. " Prim. world Switz., ii: 16, 33.

1879. " Urwelt der Schweiz, 2^e Aufl., 387, 403.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 75.

4551. Hylesinites electrinus. (Scolytidæ.)Compared with *Hylesinus ligniperda*.

Locality: Prussian amber. Horizon: Ligurian.

1813. Germar. Germ., Mag. d. entom., i: 15.

1856. Giebel. Insect. d. vorwelt, 148.

1888. Schlechtend. Zeitschr. ges. naturw., lxi: 486-487.

4552. Hylesinus ———. (Scolytidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4553. Hylesinus ———. (Scolytidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4554. Hylesinus ———. (Scolytidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 22.

4555. Hylesinus ———. (Scolytidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 241.

4556. Hylesinus facilis. (Scolytidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 25. Pl. 1, fig. 8.

1874. Oustalet. Ann. sc. géol., v, art. 2: 315. Pl. 2, fig. 7.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 787. Fig. 1006.

1886. " Zittel-Barrois, Traité de paléont., ii: 787. Fig. 1023.

Hylobinum tortomanus. See *Hylobius tortomanus*.

4557. *Hylobius* ———. (Curculionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4558. *Hylobius antiquus*. (Curculionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 149. *Pl. 23, figs. 11, 12.*1866. " Käfer u. polypen, 19. *Pl. 2, figs. 11, 12.***4559. *Hylobius carbo*.** (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 275-277. *Pl. 4, fig. 7.***4560. *Hylobius deletus*.** (Curculionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 70-71. *Pl. 1, fig. 8.***4561. *Hylobius morosus*.** (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 271-275. *Pl. 3, fig. 18; pl. 4, fig. 13.*See also *Curculionites morosus*, Liparus ——— Curtis cf. *punctatus*, L. *primævus*.**4562. *Hylobius provectus*.** (Curculionidæ.)Compared with *H. picivorus*.

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 86.

1878. " Bull. U. S. geol. surv. terr., iv: 767.

1890. " Tert. ins. N. A., 473-474. *Pl. 8, figs. 37, 41.***4563. *Hylobius rugosus*.** (Curculionidæ.)Compared with *H. pineti*.

Locality: Dürnten, Switzerland. Horizon: Interglacial.

1858. Heer. Arch. sc. phys. nat., n. p., ii: 322.

1865. " Urwelt der Schweiz, 501. *Fig. 356.*1872. " Monde prim. Suisse, 615. *Fig. 356 on p. 614.*1876. " Prim. world Switz., ii: 168. *Fig. 356.*1879. " Urwelt der Schweiz, 2^e Aufl., 531. *Fig. 399.***4564. *Hylobius? solieri*.** (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 277-278.

See also *Rhynchænus? solieri*.**4565. *Hylobius tortomanus* (borings in *Pinus sylvestris*).** (Curculionidæ.)

Locality: Monte Vaticano, Italy. Horizon: Tortonian.

1876. Ponzi. Foss. monte Vat., 10 (*Hylobinum*). *Pl. 1, fig. 9.*1876. " Atti acad. line., (2), iii: 932. *Pl. 1, fig. 9.*

1876. " Ins. lign. monte Vat., 3.

1876. " Atti acad. line., (2), iii: —.

4566. Hylotrupes senex. (Cerambycidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 10. *Pl.* 1, *fig.* 3.**4567. Hylurgus** ———. (Scolytidae.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 225.

4568. Hypera ———. (Curculionidae.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

4569. Hypera ———. (Curculionidae.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 224.

4570. Ilybius ———. (Dytiscidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 42.

4571. Ilybius ater? (recent). (Dytiscidae.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1774. DeGeer. Ins., iv: 401.]

1884. Flach. Käfer unterpleist. Hösbach, 8.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 292.

4572. Ips ———. (Nitidulidae.)

Locality: Prussian amber. Horizon: Ligurian.

1825. Guérin. Dict. class. d'hist. nat., viii: 580.

1829. Serres. Géogn. terrains tert., 241.

4573. Ischnodes gracilis. (Elateridae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 133-134. *Pl.* 4, *fig.* 3.

1852. Giebel. Deutschl. petref., 651.

1856. " Insect. d. vorwelt, 97-98.

4574. Labidostomis pyrrha. (Chrysomelidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 154-155. *Pl.* 24, *fig.* 11.1866. " Käfer u. polypen, 24-25. *Pl.* 3, *fig.* 11.**4575. Laccobius elongatus.** (Hydrophilidae.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 761.

1890. " Tert. ins. N. A., 513. *Pl.* 7, *figs.* 27, 28.

4576. *Laccobius excitatus*. (Hydrophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 135. *Pl. 22, fig. 3.*1866. " Käfer u. polypen, 5. *Pl. 1, fig. 3.***4577. *Laccobius priscus*.** (Hydrophilidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 59-60. *Pl. 1, fig. 3.***4578. *Laccobius vetustus*.** (Hydrophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 130-131. *Pl. 1, fig. 11.***4579. *Laccophilus* ———.** (Dytiscidæ.)Compared with *L. maculosus*.

Locality: White River, Utah. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 78.

1877. " Bull. U. S. geol. surv. terr., iii: 759.

1890. " Tert. ins. N. A., 517. *Pl. 5, figs. 116, 117.***4580. *Laccophilus parvulus*.** (Dytiscidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk. akad. handl., viii, No. 7: 73. *Pl. 5, figs. 56cd.***4581. *Lacon murinus*** (recent). (Elateridæ.)

Locality: Mundesley, England. Horizon: Pleistocene.

[1758. Linné. Syst. nat., i, pt. 2: 655.]

1888. Bell. Entom., xxi: 2.

4582. *Lacon primordialis*. (Elateridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 138-139. *Pl. 4, fig. 7.*

1852. Giebel. Deutschl. petref., 651.

1856. " Insect. d. vorwelt, 96.

4583. *Lamia* ———. (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4584. *Lamia antiqua*. (Cerambycidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1879. Heer. Urwelt der Schweiz, 2^e aul., 401. *Fig. 257 on p. 334.***4585. *Lamia petrificata*.** (Cerambycidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 154. *Pl. 24, fig. 10.*1866. " Käfer u. polypen, 24. *Pl. 3, fig. 10.*

4586. *Lampyris* ? ———. (Lampyridæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4587. *Lampyris orciluca*. (Lampyridæ.)

Locality : Oeningen, Baden. Horizon : Tortonian.

1865. Heer. Urwelt der Schweiz, 377.

1872. " Monde prim. Suisse, 462.

1876. " Prim. world Switz., ii: 33.

1879. " Urwelt der Schweiz, 2^e Aufl., 403.**4588. *Laparocerus wollastoni*. (Otiorynchidæ.)**Compared with *L. morio* Schönh.

Locality : St. Jorge, Madeira. Horizon : Diluvial.

1857. Heer. Neue denkschr. allg. schweiz. gesellsch. ges. naturwiss., xv, art. 2: 14, note. *Pl. 2, fig. 34.***4589. *Larinus* ———. (Curculionidæ.)**

Locality : Aix, France. Horizon : Ligurian.

1832. Burmeister. Handb. ent., i: 639.

1836. " Man. ent., 580.

See also *Rhinobatus* ——— Serres.**4590. *Larinus* ———. (Curculionidæ.)**

Locality : Brunstatt, Alsacia. Horizon : Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 165.

4591. *Larinus* ———. (Curculionidæ.)

Locality : ———. Horizon : ———.

1846. Giebel. Paläozool., 283.

4592. *Larinus bronni*. (Curculionidæ.)

Locality : Rott, Rhenish Prussia. Horizon : Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 150. *Pl. 24, fig. 1.*1866. " Käfer u. polypen, 20. *Pl. 3, fig. 1.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 798. *Fig. 1040.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 788. *Fig. 1025.***4593. *Larinus ovalis*. (Curculionidæ.)**Compared with *L. jaccæ* Fabr., Europe.

Locality : Oeningen, Baden. Horizon : Tortonian.

1861. Heer. Rech. climat pays tert., 204 (undeser.).

4594. *Lasia primitiva*. (Coccinellidæ.)

Locality : Rott, Rhenish Prussia. Horizon : Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 157. *Pl. 24, fig. 21.*1866. " Käfer u. polypen, 27. *Pl. 3, fig. 21.***4595. *Lathridius* ———. (Lathridiidæ.)**

Locality : Prussian amber. Horizon : Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4596. Lathrobium ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4597. Lathrobium ———. (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295. *Pl. 6, fig. 1.*1829. " Murchison-Lyell, Tert. form. Aix, 11. *Pl. 6, fig. 1*1839. Mantell. Wonders of geology, i: 248. *Fig. 3.*1854. " Medals of creation, 2d ed., ii: 558. *Fig. 1833.*See also *Xantholinus westwoodianus*, *Lathrobium provinciale*.**4598. Lathrobium abscessum.** (Staphylinidæ.)Compared with *L. elongatum*.

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 79.

1878. " Bull. U. S. geol. surv. terr., iv: 762.

1890. " Tert. ins. N. A., 505-506. *Pl. 8, figs. 15, 21.***4599. Lathrobium interglaciale.** (Staphylinidæ.)Compared with *L. grandis* LeC.

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 506. *Pl. 1, fig. 38.***4600. Lathrobium œningense.** (Staphylinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 47. *Pl. 3, figs. 3, 3b-d.***4601. Lathrobium provinciale.** (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 72.

See also *Lathrobium* ——— Curtis. etc.**4602. Lebia** ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Liguria

1845. Motschulsky. Bull. soc. imp. nat. Mosc., xviii, ii: 98.

4603. Lebia amissa. (Carabidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 31. *Pl. 9, fig. 13.***4604. Lebina resinata.** (Carabidæ.)Compared with *Lebia quadrimaculata*.

Locality: Prussian amber. Horizon: Ligurian.

1813. Germar. Germ., Mag. entom., i: 13.

1888. Schlechtend. Zeitschr. ges. naturw., lxi: 475-477. *Figs. 1, 2.*See also *Dromius resinatus*.

4605. Leistotrophus patriarchicus. (Staphylinidæ.)

Locality: White River, Colorado or Utah. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 78-79.
 1877. " Bull. U. S. geol. surv. terr., iii: 759.
 1890. " Tert. ins. N. A., 507. Pl. 5, fig. 112.

4606. Lema ———. (Chrysomelidæ.)

Locality: Riedisheim, Alsatia. Horizon: Middle Oligocene.

1885. Foerster. Tagebl. versamml. deutsch naturf., lviii: 392.
 1885. " Mitth. oberelsäss. tertiär, 7.
 1888. " Mitth. comm. geol. Elsass-Lothr., i: 165.
 1889. " Mitth. comm. geol. Elsass-Lothr., ii: 102.

4607. Lema tumulata. (Chrysomelidæ.)

Locality: Salzhauseu, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 33. Pl. 9, fig. 19.

4608. Lema vetusta. (Chrysomelidæ.)

Compared with *L. merdigera* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 372. Fig. 240 on p. 371.
 1872. " Monde prim. Suisse, 456. Fig. 240 on p. 455.
 1876. " Prim. world Switz., ii: 28. Fig. 240 on p. 27.
 1879. " Urwelt der Schweiz, 2^e aufl., 398. Fig. 282 on p. 397.

4609. Lepitrix germanica. (Scarabæidæ.)

Compared with *L. lineata* F., Southern Africa.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 80. Pl. 6, fig. 19.
 1865. " Urwelt der Schweiz, 380. Fig. 264 on p. 378.
 1872. " Monde prim. Suisse, 466. Fig. 264 on p. 463.
 1876. " Prim. world Switz., ii: 37. Fig. 264 on p. 34.
 1879. " Urwelt der Schweiz, 2^e aufl., 406. Fig. 306 on p. 404.

4610. Leptura ———. (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4611. Leptura ———. (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

4612. Leptura ——— (larva). (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

4613. Licinus ———. (Carabidæ.)

Locality: Lexden, England. Horizon: Pleistocene.

1863. Wollaston. Quart. journ. geol. soc. Lond., xix, i: 401, No. 6.
 1888. Bell. Entom., xxi: 2.

4614. *Limnichus* ———. (Byrrhidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4615. *Limonius* ———. (Elateridae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4616. *Limonius optabilis*. (Elateridae.)

Localities: Oeningen, Baden; Rhine, Germany. Horizons: Tortonian, Aquitanian?

1847. Heer. Insektenf. tertiärg. Oeningen, i: 137-138. *Pl. 4, fig. 6.*

1852. Giebel. Deutschl. petref., 651.

1856. " Insect. d. vorwelt, 95-96.

1862. Heyden. Palacontogr., x: 69.

4617. *Lina populeti*. (Chrysomelidae.)Compared with *L. populi*.

Localities: Oeningen, Baden; Rhine, Germany. Horizons: Tortonian, Aquitanian?

1847. Heer. Insektenf. tertiärg. Oeningen, i: 207-208. *Pl. 7, fig. 7.*

1852. Giebel. Deutschl. petref., 648.

1856. " Insect. d. vorwelt, 121-122.

1858. Heer. Bull. séances soc. vaud. sc. nat., v: 150.

1862. Heyden. Palacontogr., x: 73-74.

1865. Heer. Urwelt der Schweiz, 362, 372. *Fig. 237.*1872. " Monde prim. Suisse, 444, 456. *Fig. 237 on p. 455.*1876. " Prim. world Switz., ii: 16, 26. *Fig. 237 on p. 27.*1879. " Urwelt der Schweiz, 2^e Aufl., 397. *Fig. 279.***4618. *Lina sociata*.** (Chrysomelidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palacontogr., xv: 155. *Pl. 24, fig. 13.*1866. " Käfer u. polypen, 25. *Pl. 3, fig. 13.***4619. *Lina wetteravica*.** (Chrysomelidae.)Localities: Salzhausen, Hessenbrückener Hammers bei Laubach, Germany.
Horizon: Aquitanian.1862. Heyden. Palacontogr., x: 73. *Pl. 10, fig. 24.*

1865. Heyd.-Heyd. Palacontogr., xiv: 35.

4620. *Liparus* ———. (Otiiorhynchidae.)Compared with *L. anglicanus* Marsh.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

4621. *Liparus* ———. (Otiiorhynchidae.)Compared with *L. punctatus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295. *Pl. 6, fig. 3.*1829. " Murchison-Lyell, Tert. form. Aix, 11. *Pl. 6, fig. 3.*1839. Mantell. Wonders of geology, i: 248. *Fig. 5.*1854. " Medals of creation, 2d ed., ii: 558. *Fig. 1835.*See also *Curculionites morosus*, *Liparus primævus*, *Hylobius morosus*.

4622. *Liparus primævus*. (Otiorrhynchidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 140.

See also *Liparus*——Curtis cf. *punctatus*, *Hylobius morosus*, *Curculionites morosus*.**4623. *Listronotus muratus*. (Curculionidæ.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 474. Pl. 8, fig. 23.

Lithocaris varicolor*. See *Lithocharis varicolor*.*4624. *Lithocharis varicolor*. (Staphylinidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 15-16 (*Lithocaris*). Pl. 1, fig. 2.

1874. Oustalet. Ann. sc. géol., v, art. 2: 147-149. Pl. 5, fig. 16.

4625. *Lithoplanes* —— (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 81, note.

See also *Erynnis deleta*, *E. elongata*.**4626. *Lixus* —— (Curculionidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 251.

4627. *Lixus œningensis*. (Curculionidæ.)Compared with *L. angustatus* F.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 374.

1872. " Monde prim. Suisse, 459.

1876. " Prim. world Switz., ii: 30.

1879. " Urwelt der Schweiz, 2^e Aufl., 400.**4628. *Lixus rugicollis*. (Curculionidæ.)**Compared with *L. gemellatus* Sch.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 192-193. Pl. 6, fig. 14.

1852. Giebel. Deutschl. petref., 648.

1856. " Insect. d. vorwelt, 144.

1865. Heer. Urwelt der Schweiz, 374.

1872. " Monde prim. Suisse, 459.

1876. " Prim. world Switz., ii: 30.

1879. " Urwelt der Schweiz, 2^e Aufl., 400.**4629. *Lomatus hislopi*. (Buprestidæ.)**

Locality: Tákli, Nágpur, Central India. Horizon: ——.

1860. Murray. Quart. Journ. geol. soc. Lond., xvi: 182-183. Pl. 10, fig. 66.

1879. Medl.-Blanf. Geol. India, i: 314.

4630. Loricera glacialis. (Carabidæ.)Compared with *L. neoscotica* LeC.

Locality: Scarboro', Ontario. Horizon: Interglacial.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 763.

1890. " Tert. ins. N. A., 533. Pl. 1, figs. 50, 57.

4631. Loricera ? lutosa. (Carabidæ.)

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 533-534. Pl. 1, fig. 32.

4632. Loxandrus gelidus. (Carabidæ.)Compared with *L. agilis* LeC and *L. erraticus* LeC.

Locality: Scarboro', Ontario. Horizon: Interglacial.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 763-764.

See also *Pterostichus gelidus*.**4633. Lucanus** ———. (Lucanidæ.)

Locality: ———. Horizon: ———.

1846. Giebel. Paläozool., 288.

4634. Lucanus ———. (Lucanidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian ?.

1831. Goldfuss. Verhandl. leop.-carol. akad. naturf., vii, i: 118.

4635. Luciola extincta. (Lampyridæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 69. Pl. 10, fig. 15.

4636. Lycoperdina ———. (Endomychidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4637. Lycoperdina (vic.) ———. (Endomychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

4638. Lyctus ———. (Ptinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 241.

4639. Lycus ———. (Lampyridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

Lymexilon ———. See *Lymexylon* ——— Berendt.**4640. Lymexylon ?** ———. (Lymexylidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56 (*Lymexilon*).

4641. Lymexylon ——— (larva). (Lymexylidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Meuge. Progr. petrishule Danzig, 1856: 23.

4642. Lytta æsculapii. (Meloidæ.)Compared with *L. vesicatoria* L.

Locality: (Oeningen ?, Baden). Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 155-159. *Pl. 5, figs. 4, 5.*

1852. Giebel. Deutschl. petref., 650.

1856. " Insect. d. vorwelt, 105-106.

1865. Heer. Urwelt der Schweiz, 376. *Fig. 255.*1872. " Monde prim. Suisse, 462. *Fig. 255 on p. 461.*1876. " Prim. world Switz., ii: 32. *Fig. 255.*1879. " Urwelt der Schweiz, 2^e aufl., 401. *Fig. 297 on p. 402.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 790. *Fig. 1013.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 790. *Fig. 1031.*See also *Meloe proscarabæus*.**4643. Magdalinus deucalionis.** (Curculionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 151-152. *Pl. 24, fig. 4.*1866. " Käfer u. polypen, 21-22. *Pl. 3, fig. 4.***4644. Magdalinus protogenius.** (Curculionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 151. *Pl. 24, fig. 3.*1866. " Käfer u. polypen, 21. *Pl. 3, fig. 3.***4645. Malachius** ———. (Malachidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4646. Malachius ———. (Malachidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

4647. Malachius vertumni. (Malachidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 150-152 (vertummni). *Pl. 5, figs. 1, 2.*

1852. Giebel. Deutschl. petref., 650.

1856. " Insect. d. vorwelt, 103.

Malachius vertummni. See *Malachius vertumni*.**4648. Malthinus** ———. (Lampyridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4649. Malthodes ———. (Lampyridæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4650. Meleus ———. (Byrsopidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres.

Géogn. terrains tert., 223.

4651. Meligethes ———. (Nitidulidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster.

In litt.

4652. Meloe ———. (Meloidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian?

1831. Goldfuss.

Verhandl. leop.-carol. akad. naturf., vii, i: 118.

4653. Meloe ? ——— (larva). (Meloidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge.

Progr. petrishule Danzig, 1856: 23-24.

4654. Meloe podalirii. (Meloidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer.

Insektenf. tertiärg. Oeningen, i: 159-160. *Pl.* 5, *fig.* 7.

1852. Giebel.

Deutschl. petref., 650.

1856. “

Insect. d. vorwelt, 106.

4655. Meloe proscarabæus. (Meloidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

“ 1805. Karg.

Denkschr. vaterl. gesellsch. ärtze n. naturf. Schwabens, 40.”

1847. Heer.

Insektenf. tertiärg. Oeningen, i: 159 (may = *Lytta æsculapii*).See also *Lytta æsculapii*.**4656. Melolontha** ———. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1834. Keferstein.

Naturg. erdkörp., ii: 331.

4657. Melolontha ———. (Scarabæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres.

Géogn. terrains tert., 221.

4658. Melolontha greithiana. (Scarabæidæ.)Compared with *M. (Catalasis) anstralis* Schönh.

Locality: Greith, Hohe-Rhönen, Germany. Horizon: Aquitanian.

1847. Heer.

Insektenf. tertiärg. Oeningen, i: 67-68. *Pl.* 8, *fig.* 5.

1852. Giebel.

Deutschl. petref., 652.

1856. “

Insect. d. vorwelt, 32.

1865. Heer.

Urwelt der Schweiz, 380. *Fig.* 263 on *p.* 378.

1872. “

Monde prim. Suisse, 466. *Fig.* 263 on *p.* 463.

1876. “

Prim. world Switz., ii: 37. *Fig.* 263, on *p.* 34.

1879. “

Urwelt der Schweiz, 2^e aufl., 406. *Fig.* 305, on *p.* 404.**4659. Melolontha hippocastani** (recent). (Scarabæidæ.)

Locality: Schwerzenbach, Switzerland. Horizon: Glacial clay.

[1801. Fabricius.

Syst. eleuth., ii: 162.]

1879. Heer.

Urwelt der Schweiz, 2^e aufl., 581.

1885. Scudder.

Zittel, Handb. palaeont., i, th. ii: 794.

1886. “

Zittel-Barrois, Traité de paléont., ii: 795.

1886. “

Bull. U. S. geol. surv., No. 31: 74.

4660. *Melolontha solitaria.* (Scarabæidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. akad. wiss. Wien, lxxvi: 92-93. *Pl. 3, figs. 7ab.*
 1877. " Fauna egerer tertiärb., 22-23. *Pl. 3, figs. 7ab.*

4661. *Melolonthites aciculatus.* (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 71 (*aciculata*). *Pl. 2, fig. 13.*
 1852. Giebel. Deutschl. petref., 652.
 1856. " Insect. d. vorwelt, 33.

4662. *Melolonthites deperditus.* (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 71-72 (*deperdita*). *Pl. 2, fig. 14.*
 1852. Giebel. Deutschl. petref., 652.
 1856. " Insect. d. vorwelt, 33.

4663. *Melolonthites kollari.* (Scarabæidæ.)

Localities: Parschlug, Styria. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 72-73. *Pl. 7, fig. 32.*
 1852. Giebel. Deutschl. petref., 652.
 1856. " Insect. d. vorwelt, 33-34.

4664. *Melolonthites lavateri.* (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 73-74. *Pl. 7, fig. 30.*
 1852. Giebel. Deutschl. petref., 652.
 1856. " Insect. d. vorwelt, 34.

4665. *Melolonthites obsoletus.* (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 73 (*obsoleta*). *Pl. 2, fig. 15.*
 1852. Giebel. Deutschl. petref., 652.
 1856. " Insect. d. vorwelt, 34.

Melolonthites parschlugana. See *Melolonthites parschlugianus.***4666. *Melolonthites parschlugianus.*** (Scarabæidæ.)

Localities: Parschlug, Styria; Szántó, Hungary. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 72 (*parschlugiana*). *Pl. 7, fig. 31.*
 1852. Giebel. Deutschl. petref., 652.
 1856. " Insect. d. vorwelt, 33 (*parschlugana*).
 1870. Unger. Denkschr. akad. wiss. Wien, math. nat. cl., xxx, i: 3-4. *Pl. 1, figs. 13, 13*, 14, 14*.*

4667. *Mengea tertiaria.* (Stylopidae.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Grote. Can. entom., xviii: 100.
 See also *Triana tertiaria.*

4668. *Meristos hunteri*. (Curculionidae.)

Locality: Nagpur, Central India. Horizon: ———.

1860. Murray. Quart. Journ. geol. soc. Loud., xvi: 184. *Pl. 10, fig. 67.*
 1879. Medl.-Blanf. Geol. India, i: 314.

4669. *Mesosa jasonis*. (Cerambycidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiär. Oeningen, i: 165-166. *Pl. 5, fig. 12.*
 1852. Giebel. Deutschl. petref., 649.
 1856. " Insect. d. vorwelt, 129-130.
 1865. Heer. Urwelt der Schweiz, 376.
 1872. " Monde prim. Suisse, 461.
 1876. " Prim. world Switz., ii: 31.
 1879. " Urwelt der Schweiz, 2^e anfl., 401.

4670. *Mesosites macrophthalmus*. (Cerambycidae.)

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Dieckmüller. Foss. ins. diatomeensch. Kutschlin, 27-29. *Pl. 21, fig. 12.*
 1881. " Verhandl. Leop.-carol. akad. naturf., xlii: 319-321.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 793. *Fig. 1022.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 793. *Fig. 1040.*

4671. *Microrhagus* ———. (Elateridae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4672. *Microzoum veteratum*. (Cioidea.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 145. *Pl. 22, fig. 28.*
 1866. " Käfer u. polypen, 15. *Pl. 1, fig. 28.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 795. *Fig. 1029.*
 1886. " Zittel-Barrois. Traité de paléont., ii: 796. *Fig. 1047.*

4673. *Molops* ———. (Carabidae.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 165.
 1889. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

4674. *Molorchus* ———. (Cerambycidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4675. *Molorchus antiquus*. (Cerambycidae.)Compared with *M. abbreviatus*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian ?

1837. Germar. Fauna insect. Europæ, xix: 14. *Pl. 14.*
 1839. Brullé. Gisem. ins. foss., 20.
 1852. Giebel. Deutschl. petref., 650.
 1856. " Insect. d. vorwelt, 128.

See also *Hesthesis antiqua*.

4676. *Molytes hassencampi*. (Otiiorhynchidæ.)

Locality : Sieblos, Rhenish Prussia. Horizon : Aquitanian.

1858. Heyden. Palaeontogr., v: 116-117. Pl. 23, fig. 14.

4677. *Mononychus pseudacori* (recent). (Curculionidæ.)

Locality : Jarville, France. Horizon : Pleistocene.

[1792. Fabricius. Ent. syst., i, 2: 408.]

1875. Fliche. Comptes rendus, lxxx: 1234.

See also *Mononychus punctum-album*.**4678. *Mononychus punctum-album* (recent). (Curculionidæ.)**

Locality : Jarville, France. Horizon : Pleistocene.

[1784. Herbst. Flüssl. arch., 1784: 74. Pl. 24, fig. 17.]

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 788.

1886. " Zittel-Barrois, Traité de paléont., ii: 788.

1886. " Bull. U. S. geol. surv. No. 31: 67.

See also *Mononychus pseudacori*.**4679. *Mordella* ———. (Mordellidæ.)**

Locality : Prussian amber. Horizon : Ligurian

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4680. *Mordella inclusa*. (Mordellidæ.)

Locality : Prussian amber. Horizon : Ligurian.

1832. Burmeister. Handb. entom., i: 635.

1836. " Man. ent., 577.

1856. Giebel. Insect. d. vorwelt, 112.

1888. Schlechtend. Zeitschr. ges. naturw., lxi: 479-483.

See also *Mordellina inclusa*, *Ptomaphagus germari*.**4681. *Mordellina inclusa*. (Mordellidæ.)**Compared with *Mordella aculeata*.

Locality : Prussian amber. Horizon : Ligurian.

1813. Germar. Germar, Mag. entom., i: 14-15.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 790.

1886. " Zittel-Barrois, Traité de paléont., ii: 791

1886. " Bull. U. S. geol. surv., No. 31: 70.

1888. Schlechtend. Zeitschr. ges. naturw., lxi: 478-479.

See also *Mordella inclusa*, *Ptomaphagus germari*.**4682. *Mycetocharoides baumeisteri*. (Cistelidæ.)**

Locality : Prussian amber. Horizon : Ligurian.

1888. Schaufuss. Berl. ent. zeitschr., xxxii: 269-270.

4683. *Mycetoporus* ———. (Staphylinidæ.)

Locality : Prussian amber. Horizon : Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4684. *Mycotretus binotatus*. (Erotylidæ.)Compared with *M. sanguinipennis* Lac.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 763-764 (*binotata*).
 1885. " Zittel, Handb. palæont., i, th. ii: 800. Fig. 1053.
 1886. " Zittel-Barrois, Traité de paléont., ii: 800. Fig. 1070.
 1890. " Tert. ins. N. A., 502-503. Pl. 7, fig. 30.

4685. *Mycterus molassicus*. (Melandryidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 163. Pl. 5, fig. 10.
 1852. Giebel. Deutschl. petref., 650.
 1856. " Insect. d. vorwelt, 134.

4686. *Mylabris deflorata*. (Meloidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palæontogr., xv: 146. Pl. 23, fig. 5.
 1866. " Käfer u. polypen, 16. Pl. 2, fig. 5.

4687. *Myodites meyeri*. (Rhipiphoridæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palæontogr., xv: 146. Pl. 22, fig. 29.
 1866. " Käfer u. polypen, 16. Pl. 1, fig. 29.

4688. *Myrmedonia* ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 23.

4689. *Nanophyes japetus*. (Curculionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palæontogr., xv: 153. Pl. 24, fig. 8.
 1866. " Käfer u. polypen, 23. Pl. 3, fig. 8.

4690. *Naupactus* ———. (Otiiorhynchidæ.)Compared with *N. lusitanicus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 224.

4691. *Naupactus crassirostris*. (Otiiorhynchidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 375. Fig. 245 on p. 371.
 1872. " Monde prim. Suisse, 460. Fig. 245 on p. 455.
 1876. " Prim. world Switz., ii: 30. Fig. 245 on p. 27.
 1879. " Urwelt der Schweiz, 2^e Aufl., 400. Fig. 287 on p. 397.

4692. *Nebria* ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4693. *Nebria paleomelas.* (Carabidæ.)Compared with *N. sahlbergi* Fisch.

Locality: Nicola River, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-78: B 179.

1879. " Insect. tert. Nicola, 4.

1890. " Tert. ins. N. A., 532. *Pl.* 2, *fig.* 20.**4694. *Nebria pluto.* (Carabidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 18-19. *Pl.* 1, *figs.* 1, 2.**4695. *Nebria tisiphone.* (Carabidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 78-80. *Pl.* 1, *fig.* 1.**4696. *Necticus minutus.* (Dytiscidæ.)**

Locality: LePuy, France. Horizon: ———.

1854. Aymard. Congr. scient. France, sess. xxii: 42 (undescrib.).

4697. *Necticus palustris.* (Dytiscidæ.)

Locality: LePuy, France. Horizon: ———.

1854. Aymard. Congr. scient. France, sess. xxii: 42 (undescrib.).

4698. *Necydalis?* ———. (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 56.

4699. *Neothanes testeus.* (Carabidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 535-536. *Pl.* 7, *figs.* 32, 39.See also *Cychnus testeus*.**4700. *Nitidula* ———. (Nitidulidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 56.

4701. *Nitidula æmula.* (Nitidulidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 52. *Pl.* 3, *fig.* 29**4702. *Nitidula ancora.* (Nitidulidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 51. *Pl.* 3, *fig.* 30.**4703. *Nitidula maculigera.* (Nitidulidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 52. *Pl.* 3, *fig.* 27.1885. Scudder. Zittel, Handb. palaeont., i, tb. ii: 799. *Fig.* 1945.1886. " Zittel-Barrois, Traité de paléont., ii: 799. *Fig.* 1062.

4704. Nitidula melanaria. (Nitidulidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 36-37. *Pl. 7, fig. 21.*
 1852. Giebel. Deutschl. petref., 654.
 1856. " Insect. d. vorwelt, 43.

4705. Nitidula pallida. (Nitidulidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 52-53. *Pl. 3, fig. 28.*

4706. Nitidula radobojana. (Nitidulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 37-38. *Pl. 2, fig. 8.*
 1852. Giebel. Deutschl. petref., 654.
 1856. " Insect. d. vorwelt, 43.

4707. Nosodendron tritavum. (Byrrhida.)Compared with *N. unicolor*.

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 499. *Pl. 7, fig. 36.*

4708. Notaris? ———. (Cureulionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new. phil. journ., vii: 295.
 1829. " Murchison-Lyell, Tert. form. Aix, 11.

4709. Notiophilus aquaticus (recent). (Carabidæ.)

Locality: Ostend, Norfolk, England. Horizon: Pleistocene.

- [1746. Linné. Faun. suec., 752.]
 1888. Bell. Entom., xxi: 2 (vel palustris).

4710. Notiophilus palustris (recent). (Carabidæ.)

Locality: England. Horizon: Pleistocene.

- [1812. Duftschmid. Faun. austr., ii: 192.]
 See also *Notiophilus aquatius*.

4711. Oberea præmortua. (Cerambycidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 72. *Pl. 10, fig. 23.*

4712. Obrium ———. (Cerambycidæ.)Compared with *O. testaceum*.

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.
 1836. " Man. ent., 577.

4713. Obrium ———. (Cerambycidæ.)

Locality: ———. Horizon: ———.

1846. Giebel. Paläozool., 283.

4714. Ochthebius plutonis. (Hydrophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 136. *Pl.* 22, *figs.* 8, 9.1866. " Käfer u. polypen, 6. *Pl.* 1, *figs.* 8, 9.**Ocypus atavus.** See Staphylinus (*Ocypus*) *atavus*.**Ocypus germarii.** See Staphylinus (*Ocypus*) *germarii*.**Ocypus provincialis.** See Staphylinus (*Ocypus*) *provincialis*.**Odontocheila** ———. See *Cicindela* (*Odontocheila*) ———**Odontoda** ———. See *Odontota* ———**4715. Odontota** ———. (Chrysomelidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 21 (*Odontoda*).**4716. Edemera** ———. (Edemeridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4717. Olibrus ———. (Phalacridæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

Omalium ———. See *Homalium* ———.**Omalium protogæ.** See *Homalium* *protogæ*.**4718. Omaseus nigrinus** (recent). (Carabidæ.)

Locality: Dürnten, Switzerland. Horizon: Interglacial.

1886. Scudder. Bull. U. S. geol. surv., No. 31: 84 (*nigrinus*).See also *Pterostichus nigrinus*.**4719. Oniticellus amplicollis.** (Scarabæidæ.)Compared with *O. flavipes* F., Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 76, 77. *Pl.* 6, *fig.* 11.1865. " Urwelt der Schweiz, 379. *Fig.* 269 on *p.* 3781872. " Monde prim. Suisse, 465. *Fig.* 269 on *p.* 463.1876. " Prim. world Switz., ii: 36. *Fig.* 269 on *p.* 34.1879. " Urwelt der Schweiz, 2^e aul., 405. *Fig.* 311 on *p.* 404.**4720. Onitis magus.** (Scarabæidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 65. *Pl.* 10, *fig.* 13.

4721. *Onthophagus bisontinus*. (Scarabæidæ.)Compared with *O. affinis* St.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 76. *Pl. 6, fig. 7.*
 1865. " Urwelt der Schweiz, 379.
 1872. " Monde prim. Suisse, 465.
 1876. " Prim. world Switz., ii: 36.
 1879. " Urwelt der Schweiz, 2^e aufl., 405.

4722. *Onthophagus crassus*. (Scarabæidæ.)Compared with *O. vacca*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhaändl. holl. maatsch. wetensch. Haarl., xvi: 75. *Pl. 6, fig. 5.*
 1865. " Urwelt der Schweiz, 379.
 1872. " Monde prim. Suisse, 465.
 1876. " Prim. world Switz., ii: 36.
 1879. " Urwelt der Schweiz, 2^e aufl., 405.

4723. *Onthophagus luteus*. (Scarabæidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Onstalet. Ann. sc. géol., v, art. 2: 194-196. *Pl. 2, fig. 17.*

4724. *Onthophagus ovalulus*. (Scarabæidæ.)Compared with *O. ovatus* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 64. *Pl. 7, fig. 26.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 39.
 1865. Heer. Urwelt der Schweiz, 379.
 1872. " Monde prim. Suisse, 465.
 1876. " Prim. world Switz., ii: 36.
 1879. " Urwelt der Schweiz, 2^e aufl., 405.

4725. *Onthophagus prodromus*. (Scarabæidæ.)Compared with *O. vacca*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 75-76. *Pl. 6, fig. 6.*
 1865. " Urwelt der Schweiz, 379. *Fig. 268 on p. 378.*
 1872. " Monde prim. Suisse, 465. *Fig. 268 on p. 463.*
 1876. " Prim. world Switz., ii: 36. *Fig. 268 on p. 34.*
 1879. " Urwelt der Schweiz, 2^e aufl., 405. *Fig. 310 on p. 404.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 795. *Fig. 1027.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 795. *Fig. 1045.*

4726. *Onthophagus urus*. (Scarabæidæ.)Compared with *O. nuchicornis* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeuingen, i: 62-64. *Pl. 2, figs. 10, 10b.*
 1852. Giebel. Deutschl. petref., 653.
 1856. " Insect. d. vorwelt, 39.

1862. Heer. Verhandl. holl. maatsch. wetensch., xvi: 76.
 1865. " Urwelt der Schweiz, 379.
 1872. " Monde prim. Suisse, 465.
 1876. " Prim. world Switz., ii: 36.
 1879. " Urwelt der Schweiz, 2^e Aufl., 405.

Opatrum ———. See **Hopatrum** ———.

Ophonus ———. See **Harpalus** ——— **Curtis**.

Ophonus ———. See **Harpalus** (**Argutor** or **Ophonus**) ———.

4727. Ophryastes compactus. (Otiiorhynchidæ.)

Compared with *O. cinereus* Schönh., Mexico.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 765-766.
 1890. " Tert. ins. N. A., 477-478. *Pl.* 8, *fig.* 39.

4728. Opilo ———. (Cleridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 56.

4729. Orchesia (or **Hallomenus**) ———. (Melandryidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berast. befindl. organ. reste vorw., i: 56.

4730. Oreina ———. (Chrysomelidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 165.
 1889. " Mitth. comm. geol. Elsass-Lothr., ii: 102.

4731. Oreina? ———. (Chrysomelidæ.)

Locality: Lexden, England. Horizon: Peat.

1863. Wollaston. Quart. Journ. geol. soc. Lond., xix, i: 400-401, No. 2.

4732. Oreina amphyctionis. (Chrysomelidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 212. *Pl.* 7, *fig.* 12.
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 119.

4733. Oreina hellenis. (Chrysomelidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 209-211. *Pl.* 7, *fig.* 10.
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 118.

4734. Oreina protogeniæ. (Chrysomelidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 211-212. *Pl.* 7, *fig.* 11.
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 118-119.

4735. *Oryctoscirtetes protogæum*. (Chrysomelidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 82-83.

4736. *Otiorhynchus* ———. (Otiorhynchidæ.)

Locality: Garvel Park, Clyde, Scotland. Horizon: Pleistocene.

1888. Bell. Entom., xxi: 2.

4737. *Otiorhynchus* ———. (Otiorhynchidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

4738. *Otiorhynchus alpicola* (recent). (Otiorhynchidæ.)

Locality: Schwerzenbach, Switzerland. Horizon: Glacial clay.

[1843. Boheman. Schönh., Gen. enræ., vii, i: 327.]

1879. Heer. Urwelt der Schweiz, 2^e anfl., 581. Pl. 12, figs. 20, 20b.**4739. *Otiorhynchus dubius*.** (Otiorhynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 766.

See also *Otiorhynchus tumba*.**4740. *Otiorhynchus fuscipes* (recent).** (Otiorhynchidæ.)

Locality: Schwerzenbach, Switzerland. Horizon: Glacial clay.

[1808? Olivier. Ent., v: 372. Pl. 31, fig. 464.]

1879. Heer. Urwelt der Schweiz, 2^e anfl., 581.***Otiorhynchus induratus*.** See *Eurychirus* (*Otiorhynchus*) *induratus*.***Otiorhynchus montanus*.** See *Otiorhynchus niger-montanus*.**4741. *Otiorhynchus niger* (recent).** (Otiorhynchidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1775. Fabricius. Syst. ent., 150.]

1884. Flach. Käfer unterpleist. Hösbach, 10.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 294.

See also *Otiorhynchus niger-montanus*.**4742. *Otiorhynchus niger-montanus* (recent).** (Otiorhynchidæ.)

Locality: Schwerzenbach, Switzerland. Horizon: Glacial clay.

[1843. Boheman. Schönh., Gen. enræ., vii, i: 306.]

1879. Heer. Urwelt der Schweiz, 2^e anfl., 581. Pl. 12, figs. 18, 19, 19bSee also *Otiorhynchus niger*.**4743. *Otiorhynchus perditus*.** (Otiorhynchidæ.)Compared with *O. sulcatus*.

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 84.

1878. " Bull. U. S. geol. surv. terr., iv: 766.

1890. " Tert. ins. N. A., 476-477. Pl. 8, fig. 25.

4744. *Otiorhynchus rugifrons* (recent). (Otiorhynchidæ.)

Locality: Schwerzenbach, Switzerland. Horizon: Glacial clay.

[1813. Gyllenhal. *Ins. suec.*, iii: 319.]

1879. Heer. *Urwelt der Schweiz*, 2^e Aufl., 581.

4745. *Otiorhynchus tumbæ*. (Otiorhynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 477. *Pl. 8, fig. 13.*

See also *Otiorhynchus dubius*.

4746. *Oxygonus mortuus*. (Elateridæ.)

Locality: White River, Utah. Horizon: Oligocene.

1876. Scudder. *Bull. U. S. geol. surv. terr.*, ii: 81.

1877. " *Bull. U. S. geol. surv. terr.*, iii: 759.

1890. " *Tert. ins. N. A.*, 496. *Pl. 5, figs. 110, 111.*

4747. *Oxyporus blumenbachii*. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1806. Gravenhorst. *Monogr. col. micr.*, 235-236 et index.

4748. *Oxyporus seuberti*. (Staphylinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl.*, xvi: 49. *Pl. 3, fig. 6.*

4749. *Oxyporus stiriacus*. (Staphylinidæ.)

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. *Tert. ins. N. A.*, 505. *Pl. 1, fig. 36.*

4750. *Oxyporus vulcanus*. (Staphylinidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 137-138. *Pl. 22, fig. 14.*

1866. " *Käfer u. polypeu*, 7-8. *Pl. 1, fig. 14.*

4751. *Oxytelus* — (2 sp.). (Staphylinidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. *In litt.*

4752. *Oxytelus* ? — (larva). (Staphylinidæ.)

Locality: Rocky River, Sydney flats, New South Wales. Horizon: —.

1870. Moore. *Quart. Journ. geol. soc. Lond.*, xxvi: 263. *Pl. 18, fig. 10*

4753. *Oxytelus pristinus*. (Staphylinidæ.)

Compared with *O. rmgosus*.

Locality: White River, Colo. Horizon: Oligocene.

1876. Scudder. *Bull. U. S. geol. surv. terr.*, ii: 73.

1877. " *Bull. U. S. geol. surv. terr.*, iii: 759.

1890. " *Tert. ins. N. A.*, 503-504. *Pl. 5, figs. 118-120.*

4754. Oxytelus proævus. (Staphylinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 45-46. *Pl.* 3,
fig. 5.
1865. " Urwelt der Schweiz, 383.
1872. " Monde prim. Suisse, 469.
1876. " Prim. world Switz., ii: 40.
1879. " Urwelt der Schweiz, 2^e aufl., 408.

4755. Pachypus ———. (Scarabæidæ.)Compared with *P. excavatus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 222.

4756. Panagæus dryadum. (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 94-96. *Pl.* 2, *fig.* 1.

4757. Parandra ———. (Spondylidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian?.

1831. Goldfuss. Verhandl. leop.-carol. akad. naturf., vii, i: 118.

4758. Parandrita vestita. (Cucujidæ.)Compared with *P. cephalotes* LeC.

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 501-502. *Pl.* 7, *fig.* 41.

4759. Parolamia rudis. (Cerambycidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 530.

4760. Passandra ———. (Cucujidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 21.

4761. Patrobus excavatus (recent). (Carabidæ.)

Localities: Jarville, France: Hösbach, Bavaria. Horizon: Pleistocene.

- [1790. Paykull. Monogr. carab., 38.]
1875. Fliche. Comptes rendus, lxxx: 1234.
1884. Flach. Käfer unterpleist. Hösbach, 4-5. *Pl.* 1, *figs.* 5a, 5b.
1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 288-289.
Pl. 8, *figs.* 5a, 5b.
1886. Scudder. Bull. U. S. geol. surv., No. 31: 84.

4762. Patrobus gelatus. (Carabidæ.)Compared with *P. septentrionis* Dej.

Locality: Scarboro, Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 531. *Pl.* 1, *fig.* 48.

4763. Paussoides mengei. (Paussidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Étud. entom., v: 26. *Pl.*, figs. 6. 6', 6'', 6'''.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 802. *Fig.* 1060.

1886. " Zittel-Barrois, Traité de paléont., ii: 802. *Fig.* 1077.

4764. Paussus ———. (Paussidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 21.

4765. Pelobius cretzenschmari. (Dytiscidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 134-135. *Pl.* 22, *fig.* 2.

1866. " Käfer u. polypen, 4-5. *Pl.* 1, *fig.* 2.

4766. Peltis costulata. (Trogositidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 65. *Pl.* 10, *fig.* 20.

4767. Peltis tricostata. (Trogositidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 39-40. *Pl.* 7, *fig.* 34

1852. Giebel. Deutschl. petref., 654.

1856. " Insect. d. vorwelt, 42.

See also *Silpha tricostata*.

4768. Pentodon bellerophon. (Scarabæidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 141-142. *Pl.* 23, *fig.* 1.

1866. " Käfer u. polypen, 11-12. *Pl.* 2, *fig.* 1.

4769. Pentodon proserpinæ. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 379.

1872. " Monde prim. Suisse, 465.

1876. " Prim. world Switz., ii: 36.

1879. " Urwelt der Schweiz, 2^e anth., 405.

4770. Perotis bruckmanni. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 85. *Pl.* 7, *fig.* 1

4771. Perotis hausmanni. (Buprestidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 66-67. *Pl.* 10, *fig.* 6.

4772. Perotis lævigata. (Buprestidæ.)

Localities: "Oeningen," Baden; Monte Bolca, Italy. Horizon: Ligurian.

1855. Heer. MSS.

1855. Massalongo. Nereid. foss., 32.

1856. " Stud. paleont., 14-15. *Pl.* 1, *fig.* 4

1886. Omboni. Atti r. ist. ven., (6), iv: 1425 (*lævigata*). *Pl.* 2, *fig.* 4.

1886. " Foss. ins. Ven., 5. *Pl.* 2, *fig.* 4.

4773. *Perotis lavateri*. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 105-106. *Pl. 3, fig. 4.*
 1852. Giebel. Deutschl. petref., 652.
 1856. " Insect. d. vorwelt, 82.

Perotis lævigata. See *Pérotis lavigata*.

4774. *Perotis redita*. (Buprestidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 67. *Pl. 10, fig. 37.*

4775. *Phalacrus* ———. (Phalacridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4776. *Phanæus antiquus*. (Scarabæidæ.)

Compared with *P. pluto*, United States.

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. ent. soc., v: 245.
 1890. Scudder. Tert. ins. N. A., 489-490. *Pl. 1, figs. 12-14.*

4777. *Phenolia incapax*. (Nitidulidæ.)

Compared with *P. grossa*.

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 80.
 1878. " Bull. U. S. geol. surv. terr., iv: 762.
 1890. " Tert. ins. N. A., 499. *Pl. 7, fig. 23.*

4778. *Philhydrus* ——— (2 sp.). (Hydrophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 761.
 1890. " Tert. ins. N. A., 512.

4779. *Philhydrus? morticinus*. (Hydrophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 136. *Pl. 22, figs. 6, 7.*
 1866. " Käfer n. polypen, 6. *Pl. 1, figs. 6, 7.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 802. *Fig. 1064.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 803. *Fig. 108?*

4780. *Philhydrus primævus*. (Hydrophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 78.
 1878. " Bull. U. S. geol. surv. terr., iv: 761.
 1890. " Tert. ins. N. A., 512. *Pl. 8, fig. 5.*

4781. *Philonthus* ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4782. Philonthus ———. (Staphylinidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. Käfer unterpleist. Hösbach. 9.
 1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 293.

4783. Philonthus ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

4784. Philonthus bituminosus. (Staphylinidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 137. *Pl.* 22, *fig.* 11.
 1866. " Käfer u. polypen, 7. *Pl.* 1, *fig.* 11.

4785. Philonthus bojeri. (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 17. *Pl.* 1, *fig.* 4.
 1874. Oustalet. Ann. sc. géol., v, art. 2: 169-170. *Pl.* 3, *fig.* 6.

4786. Philonthus marcelli. (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 17-18. *Pl.* 1, *fig.* 5.
 1874. Oustalet. Ann. sc. géol., v, art. 2: 170-171. *Pl.* 5, *fig.* 15.

Phosphuga atrata. See *Silpha* (*Phosphuga*) *atrata*.

4787. Phyllobius ———. (Otiiorhynchidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.
 1836. " Man. ent., 577.

4788. Phymaphoroides antennatus. (Endomychidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Étud. entom., v: 27 (*Phymaphoroides*). *Pl.*, *figs.* 7, 7', 7".
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 800. *Fig.* 1054.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 800. *Fig.* 1071.

Phymaphoroides antennatus. See *Phymaphoroides antennatus*.

4789. Phytonomus ———. (Curculionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4790. Phytonomus annosus. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS.
 1874. Oustalet. Ann. sc. géol., v, art. 2: 283-285. *Pl.* 3, *fig.* 9.
 See also *Brachycerus exilis*.

4791. *Phytonomus firmus*. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 23. Pl. 1, fig. 1s.

1874. Oustalet. Ann. sc. géol., v, art. 2: 232-283. Pl. 6, fig. 7.

4792. *Pinitoides scydmaeniformis*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Étud. entom., v: 27. Pl., figs. 2, 2', 2''.

4793. *Pissodes* ———. (Curculionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 56.

4794. *Pissodes* ———. (Curculionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4795. *Pissodes effossus*. (Curculionidæ.)

Locality: Siebles, Rhenish Prussia. Horizon: Aquitanian.

1858. Heyden. Palaeontogr., v: 117. Pl. 23, fig. 15.

4796. *Plagiodera novata*. (Chrysomelidæ.)

Compared with *P. armoraciæ* Linn.

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 155. Pl. 24, fig. 14.

1866. " Käfer u. polypen, 25. Pl. 3, fig. 14.

4797. *Platycerus* ———. (Lucanidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 56.

4798. *Platycerus sepultus*. (Lucanidæ.)

Compared with *P. tenebrioides*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian ?

1837. Germar. Fauna insect. Europæ, xix: 7. Pl. 7.

1852. Giebel. Deutschl. petref., 653.

1856. " Insect. d. vorwelt, 29.

4799. *Platydemia geinitzi*. (Tenebrionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 145-146. Pl. 22, fig. 22.

1866. " Käfer u. polypen, 15-16. Pl. 1, fig. 22.

4800. *Platynus cæsus*. (Carabidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 522-523. Pl. 7, fig. 34.

4801. *Platynus casus*. (Carabidæ.)

Compared with *P. rubripes* Zimm.

Locality: Scarboro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 519-520. Pl. 1, fig. 42.

4802. *Platynus desuetus.* (Carabidæ.)Compared with *P. crenistriatus* LeC.

Locality: Scarboro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 521-522. Pl. 1, figs. 43, 51, 58.

4803. *Platynus dissipatus.* (Carabidæ.)

Locality: Scarboro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 521. Pl. 1, fig. 37.

4804. *Platynus gracilis* (recent). (Carabidæ.)

Locality: Jarville, France. Horizon: Pleistocene.

[1827. Gyllenhal. Ins. sneec., iv: 449.]

1886. Scudder. Bull. U. S. geol. surv., No. 31: 84.

4805. *Platynus halli.* (Carabidæ.)Compared with *P. crenistriatus* LeC.

Locality: Scarboro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 520-521. Pl. 1, fig. 41.

4806. *Platynus harttii.* (Carabidæ.)

Locality: Scarboro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 522. Pl. 1, fig. 31.

4807. *Platynus hindei.* (Carabidæ.)Compared with *P. rubripes* Zimm.

Locality: Scarboro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 520. Pl. 1, fig. 54.

4808. *Platynus senex.* (Carabidæ.)Compared with *P. variolatus* LeC., North America.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 759.

1890. " Tert. ins. N. A., 519. Pl. 7, fig. 38.

4809. *Platypus* ———. (Scolytidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.

1836. " Man. ent., 577.

See also *Platypus cylindricus*.**4810. *Platypus* ———. (Scolytidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1825. Guérin. Dict. class. d'hist. nat., viii: 580 (*Platype*).

1829. Serres. Géogn. terrains tert., 241.

1845. Motschulsky. Bull. soc. imp. nat. Mosc., xviii, ii: 100.

4811. *Platypus cylindricus.* (Scolytidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

See also *Platypus* ——— Burmeister.

4812. *Platypus maravignæ*. (Scolytidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin.

Rev. zool., 1838: 170. *Pl.* 1, *fig.* 7.***Platysma oblongopunctata*. See *Feronia (Platysma) oblongopunctata*.****4813. *Plinthus heeri*. (Curculionidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet.

Ann. sc. géol., v, art. 2: 279-281. *Pl.* 4, *fig.* 12.**4814. *Plinthus redivivus*. (Curculionidæ.)**

Locality: Corent, France. Horizon: Aquitanian

1870. Oustalet.

Ann. sc. géol., ii, art. 3: 74. *Pl.* 1, *fig.* 10.***Pœcilus* ———. See *Feronia (Pœcilus)* ———.****4815. *Polydrosus* ———. (Otiiorhynchidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister.

Handb. ent., i: 635 (*Polydrosus*).

1836. " "

Man. ent., 577.

Polydrosus* ———. See *Polydrosus* ———.*4816. *Polystichus* ———. (Carabidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt.

Bernst. befindl. organ. reste vorw., i: 56.

4817. *Polystichus hopei*. (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet.

Ann. sc. géol., v, art. 2: 119-120. *Pl.* 1, *fig.* 8.**4818. *Prasocuris aucta* var. *egena* (recent). (Chrysomelidæ.)**

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1827. Gyllenhal. Ins. succ., iv: 549.]

1884. Flach.

Käfer unterpleist. Hösbach, 10-11. *Pl.* 2, *fig.* 11.

1884. " "

Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 294-295.

Pl. 9, *fig.* 11.***Prasocuris egena*. See *Prasocuris aucta* var. *egena*.****4819. *Prionus* ? ——— (borings). (Cerambycidæ.)**

Locality: Salzhausen, Germany. Horizon: Miocene

1856. Heyden.

Palaeontogr., iv: 200. *Pl.* 38, *fig.* 3.**4820. *Prionus polyphemus*. (Cerambycidæ.)**Compared with *P. faber* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer.

Urwelt der Schweiz, 375. *Fig.* 250 on p. 376.

1872. " "

Monde prim. Suisse, 460. *Fig.* 250 on p. 461.

1876. " "

Prim. world Switz., ii: 31. *Fig.* 250 on p. 32.

1879. " "

Urwelt der Schweiz, 2^e Aufl., 401. *Fig.* 292 on p. 402.

4821. *Prionus spectabilis*. (Cerambycidae.)Compared with *P. coriarius* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 375. *Fig. 251 on p. 376.*
 1872. " *Monde prim. Suisse*, 460. *Fig. 251 on p. 461.*
 1876. " *Prim. world Switz.*, ii: 31. *Fig. 251 on p. 32.*
 1879. " *Urwelt der Schweiz*, 2^e aufl., 401. *Fig. 293 on p. 402.*

4822. *Prionus umbrinus*. (Cerambycidae.)Compared with *P. coriarius*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian ?

1837. Germar. *Oken, Isis*, 1837: 423 (undeser.).
 1837. " *Fauna insect. Europæ*, xix: 12. *Pl. 12.*
 1852. Giebel. *Deutschl. petref.*, 650.
 1856. " *Insect. d. vorwelt*, 126.

4823. *Pristorhynchus ellipticus*. (Otiiorhynchidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg. Oeningen*, i: 190-192. *Pl. 6, fig. 10.*
 1852. Giebel. *Deutschl. petref.*, 649.
 1856. " *Insect. d. vorwelt*, 139.
 1853-'56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 647.
 1885. Scudder. *Zittel, Handb. palæont.*, i, th. ii: 789. *Fig. 1010.*
 1886. " *Zittel-Barrois, Traité de paléont.*, ii: 789. *Fig. 1029.*

4824. *Prometopia depilis*. (Nitidulidæ.)Compared with *P. sexmaculata*.

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. *Rep. progr. geol. surv., Can.*, 1875-'76: 278-279.
 1877. " *Insect. tert. Quesnel*, 13-14.
 1877. " *Rapp. opér. comm. géol. Can.*, 1875-'76: 308-309.
 1890. " *Tert. ins. N. A.*, 500. *Pl. 2, fig. 29.*

4825. *Protactus erichsonii*. (Staphylinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg. Oeningen*, i: 23-34. *Pl. 1, figs. 9, 9a-c, e, f.*
 1852. Giebel. *Deutschl. petref.*, 654.
 1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 327-328. *Pl. 40, fig. 13.*
 1856. Giebel. *Insect. d. vorwelt*, 75.
 1853-'56. Bronn. *Lethæa geogn.*, 3^e aufl., iii: 648-649. *Pl. 42', figs. 24ab.*
 1885. Scudder. *Zittel, Handb. palæont.*, i, th. ii: 801. *Fig. 1058.*
 1886. " *Zittel-Barrois, Traité de paléont.*, ii: 801. *Fig. 1075.*

4826. *Protactus minor*. (Staphylinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl.*, xvi: 45. *Pl. 3, fig. 4.*

4827. *Protogenia escheri*. (Buprestidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg. Oeningen*, i: 118-123. *Pl. 2, fig. 16; pl. 8, fig. 6.*
 1852. Giebel. *Deutschl. petref.*, 652.
 1856. " *Insect. d. vorwelt*, 88-89.
 1853-'56. Bronn. *Lethæa geogn.*, 2^e aufl., iii: 647-648. *Pl. 42', figs. 27a-c.*

4828. Protoscalidion rugiæ. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1888. Schaufuss. Berl. ent. zeitschr., xxxii: 266-267.

4829. Pselaphus ———. (Pselaphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4830. Pseudocistela ———. (Cistelidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

4831. Pseudo-elater ———. (Elateridæ?).

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 143. *Pl. 4, fig. 1.*1851. Stizenberg. Uebers. verstein. Baden, 89, 99 (says it is a fruit and = *Diachæ-
nites* Al. Braun).

1852. Giebel. Deutschl. petref., 651.

1856. " Insect. d. vorwelt., 94 (without name).

4832. Pterostichus ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4833. Pterostichus? ———. (Carabidæ.)

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. ent. soc., v: 243.

1890. Scudder. Tert. ins. N. A., 529. *Pl. 1, fig. 5.***4834. Pterostichus** ———. (Carabidæ.)Compared with *P. coracinus* or *P. stygius*, United States.

Locality: Port Kennedy, Pa. Horizon: Postpliocene.

1876. Horn. Trans. Amer. entom. soc., v: 243.

See also *Pterostichus lavigatus*.**4835. Pterostichus** ———. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

4836. Pterostichus ———. (Carabidæ.)

Locality: Wohlscheid, Germany. Horizon: Peat.

1852. Weber. Palaeontogr., ii: 229. *Pl. 25, fig. 17.*See also *Pterostichus angustus*.**4837. Pterostichus** ———. (Carabidæ.)

Locality: Wohlscheid, Germany. Horizon: Peat.

1852. Weber. Palaeontogr., ii: 229. *Pl. 25, fig. 18.*See also *Pterostichus rhenanus*.**Pterostichus** ———. See *Feronia* (*Pterostichus*) ———.

4838. *Pterostichus abrogatus*. (Carabidæ.)Compared with *P. herenlanens* Mann.

Locality: Scarboro', Ontario. Horizon: Pleistocene.

1890. Scudder. Tert. ins. N. A., 525. Pl. 1, fig. 39.

4839. *Pterostichus angustus*. (Carabidæ.)

Locality: Wohlscheid, Germany. Horizon: Peat.

1856. Giebel. Insect. d. vorwelt, 67.

See also *Pterostichus* ——— Weber, xxv: 18.**4840. *Pterostichus antiquus*. (Carabidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1856. Giebel. Insect. d. vorwelt, 66.

See also *Argutor antiquus*.**4841. *Pterostichus destitutus*. (Carabidæ.)**Compared with *P. sayi* Brullé.

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 526. Pl. 1, fig. 44.

4842. *Pterostichus destructus*. (Carabidæ.)Compared with *P. patruelis*.

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 527. Pl. 1, fig. 46.

4843. *Pterostichus dormitans*. (Carabidæ.)Compared with *P. letulus* LeC.

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 526. Pl. 1, figs. 49, 55.

4844. *Pterostichus fractus*. (Carabidæ.)Compared with *P. destitutus* Scudd.

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1890. Scudder. Tert. ins. N. A., 527. Pl. 1, figs. 29, 30.

4845. *Pterostichus gelidus*. (Carabidæ.)Compared with *P. hudsonicus*.

Locality: Scarboro', Ontario. Horizon: Postpliocen

1890. Scudder. Tert. ins. N. A., 527-528. Pl. 1, figs. 52, 59-61.

See also *Loxandrus gelidus*.**4846. *Pterostichus lævigatus*. (Carabidæ.)**

Locality: Scarboro', Ontario. Horizon: Postpliocene.

1876. Horn. MSS.

1890. Scudder. Tert. ins. N. A., 528-529. Pl. 1, figs. 3, 4.

See also *Pterostichus* ——— Horn, cf. *coracinus*.

4847. Pterostichus madidus (recent). (Carabidæ.)

Locality: Norfolk, England. Horizon: Forest bed, Pleistocene.

1888. Bell. Entom., xxi: 2.

See also *Pterostichus maurus*.

4848. Pterostichus maurus (recent). (Carabidæ.)

Locality: England. Horizon: Pleistocene.

[1812. Duftschmid. Faun. austr., ii: 160.]

See also *Pterostichus madidus*.

4849. Pterostichus (Argutor) minutulus. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 22-23. Pl. 1, fig. 19.

4850. Pterostichus nigrinus (recent). (Carabidæ.)

Localities: Dürnten, Schwerzenbach, Switzerland. Horizon: Interglacial clay.

[1792. Fabricius. Ent. syst., i: 158.]

1865. Heer. Urwelt der Schweiz, 502 (*nigrinus*). Fig. 358 on p. 501.

1872. " Monde prim. Suisse, 615. Fig. 358 on p. 614.

1876. " Prim. world Switz., ii: 169. Fig. 358 on p. 168.

1879. " Urwelt der Schweiz, 2^e anfl., 531, 531. Fig. 401; pl. 12, figs. 15, 15b.

See also *Omasus nigrinus*.

4851. Pterostichus rhenanus. (Carabidæ.)

Locality: Wöhlscheid, Germany. Horizon: Peat.

1856. Giebel. Insect. d. vorwelt, 66-67.

See also *Pterostichus* ——— Weber, xxv: 17.

4852. Pterostichus vernalis (recent). (Carabidæ.)

Locality: St. Jakob, Basel, Switzerland. Horizon: Interglacial.

[1796. Panzer. Fauna germ., xxx: 17.]

1879. Heer. Urwelt der Schweiz, 2^e anfl., 533.

See also *Argutor vernalis*.

4853. Pterostichus (Abax) vetustus. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 23. Pl. 1, figs. 11, 11b.

4854. Ptilinus ———. (Ptinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4855. Ptilinus? ——— (borings). (Ptinidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1856. Heyden. Palaeontogr., iv: 199-200. Pl. 38, figs. 1, 2.

4856. *Ptilodactyloides stipulicornis.* (Dasyllidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. *Étud. entom.*, v: 26. *Pl.*, figs. 3, 3'.

1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 798. *Fig.* 1039.

1886. " *Zittel-Barrois, Traité de paléont.*, ii: 798. *Fig.* 1057.

4857. *Ptinus* ———. (Ptinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

4858. *Ptinus* ? ———. (Ptinidæ.)

Compared with *P. lichenum* Marsh.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. *Edinb. new phil. journ.*, vii: 295.

1829. " *Murchison-Lyell, Tert. form. Aix*, 11.

4859. *Ptinus antiquus.* (Ptinidæ.)

Locality: Stösschen, Austria. Horizon: Miocene.

1859. Heyden. *Palaeontogr.*, viii: 7. *Pl.* 1, *fig.* 8.

4860. *Ptinus primordialis.* (Ptinidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 143-144. *Pl.* 23, *fig.* 4.

1866. " *Käfer u. polypen*, 13-14. *Pl.* 2, *fig.* 4.

4861. *Ptinus salinus.* (Ptinidæ.)

Locality: Wieliczka, Galicia. Horizon: Miocene.

1844. Schilling. *Uebers. arb. u. veränd. schles. gesellsch. vaterl. cult.*, 1843: 175.

1848. Bronn. *Index palaeont., Nomencl.*, 1058.

1856. Giebel. *Insect. d. vorwelt*, 77.

4862. *Ptomaphagus germari.* (Silphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1888. Schlechtend. *Zeitschr. ges. naturw.*, lxi: 483-486. *Fig.* 3.

See also *Mordella inclusa*, *Mordellina inclusa*.

4863. *Pyrochroa* ———. (Pyrochroidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

4864. *Pythonidium metallicum.* (Pythidæ.)

Locality: Spitzbergen. Horizon: Miocene.

1870. Heer. *K. svenska vetensk.-akad. handl.*, viii, No. 7: 75. *Pl.* 16, *figs.* 12*ab*, 13, 14, 14*b*.

1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 791. *Fig.* 1014.

1886. " *Zittel-Barrois, Traité de paléont.*, ii: 791. *Fig.* 1032.

4865. *Quedius* ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

4866. *Quedius* ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 23.

4867. *Quedius breweri*. (Staphylinidæ.)Compared with *Q. molochinus* Grav.

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ius. N. A., 508-509. Pl. 16, fig. 4.

4868. *Quedius chamberlini*. (Staphylinidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 508. Pl. 16, fig. 8.

4869. *Quedius lortetii*. (Staphylinidæ.)Compared with *Q. picipes* Mann., Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 175-177. Pl. 3, figs. 4, 4a.

4870. *Quedius reynesii*. (Staphylinidæ.)Compared with *Q. impressus* Paus., Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 172-175. Pl. 3, fig. 3; pl. 6, fig. 15.

4871. *Rhinobatus* ———. (Curculionidæ.)Compared with *R. cynaræ*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. entom. soc. Lond., iv: 251.

4872. *Rhinobatus* ———. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 224, 267.

See also *Larinus* ——— Burm.**4873. *Rhinocyllus improlus*.** (Curculionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 151. Pl. 24, fig. 2.

1866. " Käfer u. polyphen, 21. Pl. 3, fig. 2.

4874. *Rhipidius primordialis*. (Rhipiphoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1877. Stein. Mittheil. münch. entom. ver., i: 29-30.

4875. *Rhipiphorus* ———. (Rhipiphoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56 (*Rhipiphorus*).**4876. *Rhipiphorus* ———.** (Rhipiphoridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 21.

4877. Rhipiphorus geikiei. (Rhipiphoridae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 482-483. *Pl.* 27, *fig.* 1.**4878. Rhizophagus** ———. (Nitidulidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4879. Rhizotrogus longimanus. (Scarabaeidae.)Compared with *R. paganus* Oliv., Southern Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 69-71. *Pl.* 7, *fig.* 29.

1852. Giebel. Deutschl. petref., 652.

1856. " Insect. d. vorwelt, 32-33.

1865. Heer. Urwelt der Schweiz, 380.

1872. " Monde prim. Suisse, 466.

1876. " Prim. world Switz., ii: 37.

1879. " Urwelt der Schweiz, 2^e anfl., 406.**4880. Rhizotrogus solstitialis** (recent). (Scarabaeidae.)

Locality: Flanders. Horizon: Peat.

[1746. Linné. Faun. suec., 137.]

1873. Debray. Mem. soc. sc. agric. arts Lille, (3), xi: 451.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 794.

1886. " Zittel-Barrois, Traité de paléont., ii: 795.

1886. " Bull. U. S. geol. surv., No. 31: 74.

4881. Rhynchænus solieri. (Curculionidae.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 255. *Pl.* 19, *figs.* 2, 2*.

1856. Giebel. Insect. d. vorwelt, 146-147.

See also *Hyllobius?* *solieri*.**4882. Rhynchites** ———. (Rhynchitidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4883. Rhynchites ———. (Rhynchitidae.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 251.

4884. Rhynchites dionysus. (Rhynchitidae.)

Locality: Oeningen, Baden. Horizon: Tortonian

1865. Heer. Urwelt der Schweiz. *Fig.* 243 on *p.* 371.1872. " Monde prim. Suisse. *Fig.* 243 on *p.* 455.1876. " Prim. world Switz., ii. *Fig.* 243 on *p.* 27.1879. " Urwelt der Schweiz, 2^e anfl. *Fig.* 285 on *p.* 397.**4885. Rhynchites hageni.** (Rhynchitidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 147. *Pl.* 23, *fig.* 6.1866. " Käfer u. polypen, 17. *Pl.* 2, *fig.* 6.

4886. Rhynchites orcinus. (Rhynchitidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 147-148. *Pl.* 23, *fig.* 7.1866. " Käfer u. polypen, 17-18. *Pl.* 2, *fig.* 7.

1870. L. Heyden. Foss. dipt. Rott, 29.

1870. " Palaeontogr., xvii: 265.

4887. Rhynchites silenus. (Rhynchitidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 180. *Pl.* 6, *fig.* 8.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 135-136.

1865. Heer. Urwelt der Schweiz, 362, 373.

1872. " Monde prim. Suisse, 444, 458.

1876. " Prim. world Switz., ii: 16, 29.

1879. " Urwelt der Schweiz, 2^e Aufl., 387, 399.**Rhipiphorus** —. See Rhipiphorus — Berendt.**4888. Saperda** —. (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4889. Saperda —. (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 21.

4890. Saperda — (larva). (Cerambycidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 793. *Figs.* 1023, 1023a.1886. " Zittel-Barrois, Traité de paléont., ii: 793. *Figs.* 1041ab.**4891. Saperda absyrti.** (Cerambycidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 171-172. *Pl.* 6, *fig.* 2.

1852. Giebel. Deutschl. petref., 650.

1856. " Insect. d. vorwelt, 132.

4892. Saperda lata. (Cerambycidæ.)Compared with *S. carcharias*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian?.

1837. Germar. Fauna insect. Europæ, xix: 13. *Pl.* 13.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 131.

4893. Saperda nephele. (Cerambycidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1852. Giebel. Deutschl. petref., 649.

1856. " Insect. d. vorwelt, 131-132.

1865. Heer. Urwelt der Schweiz, 375.

1872. " Monde prim. Suisse, 460.

1876. " Prim. world Switz., ii: 31.

1879. " Urwelt der Schweiz, 2^e Aufl., 401.See also *Saperda* (*Compsidia*) *nephele*.

4894. Saperda (Compsidia) nephele. (Cerambycidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 168-171. *Pl. 6, fig. 1.*See also *Saperda nephele*.**4895. Saperda valdensis.** (Cerambycidae.)

Locality: Rovereaz, (Switzerland?). Horizon: Miocene.

1865. Heer. *Urwelt der Schweiz. Fig. 254 on p. 376.*1872. " *Monde prim. Suisse. Fig. 254 on p. 461.*1876. " *Prim. world Switz., ii. Fig. 254 on p. 32.*1879. " *Urwelt der Schweiz, 2^e Aufl. Fig. 296 on p. 402.***4896. Scaphidium** ———. (Scaphidiidae.)

Locality: Prussian amber. Horizon: Ligerian.

1845. Berendt. *Bernst. befindl. organ. reste vorw., i: 56.***4897. Scaphidium deletum.** (Scaphidiidae.)

Locality: (Oeningen, Baden). Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg. Oeningen, i: 35-36. Pl. 7, fig. 20.*1852. Giebel. *Deutschl. petref., 654.*1856. " *Insect. d. vorwelt, 47.*1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl., xvi: 50.***4898. Scaphisoma gracile.** (Scaphidiidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl., xvi: 49-50. Pl. 3, fig. 26.***4899. Scarabæus** ———. (Scarabæidae.)

Locality: Glaris, Switzerland. Horizon: ———.

1763. Bertrand. *Dict. univ. foss., i: 259.***4900. Scarabæus proserpinæ.** (Scarabæidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl., xvi: 78. Pl. 6, fig. 2.***4901. Scarites haidingeri.** (Carabidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1861. Heer. *Rech. climat pays tert., 205 (undescrib.).***4902. Scolytus** ———. (Scolytidae.)

Locality: Aix, France. Horizon: Ligerian.

1829. Serres. *Géogn. terraius tert., 224-225.***4903. Scryptia ovata.** (Melandryidae.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. *Rev. zool., 1838: 170. Pl. 1, fig. 6.*1885. Scudder. *Zittel, Handb. palaeont., i, th. ii: 791. Fig. 1015.*1886. " *Zittel-Barrois, Traité de paléont., ii: 791. Fig. 1033.*

4904. *Scydmaenoides nigrescens*. (Scydmaenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. *Étud. entom.*, v: 27.

See also *Dorcasoides bilobus*.

4905. *Scydmaenus* ———. (Scydmaenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

4906. *Scydmaenus heerii*. (Scydmaenidæ.)

Compared with *Chevrolatia insignis* (Jacq. du Val), Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. *Ann. sc. géol.*, v, art. 2: 183-184. *Pl.* 1, *fig.* 10.

4907. *Scymnus*? ———. (Coccinellidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

4908. *Scymnus* ———. (Coccinellidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. *In litt.*

4909. *Scyrtes* ———. (Dasyllidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 56.

4910. *Seniaulus scaphioides*. (Scaphidiidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 139. *Pl.* 22, *fig.* 17.

1866. " *Käfer u. polypen*, 9. *Pl.* 1, *fig.* 17.

1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 801. *Fig.* 1057.

1886. " *Zittel-Barrois, Traité de paléont.*, ii: 801. *Fig.* 1074.

4911. *Sepidium* ———. (Tenebrionidæ.)

Compared with *S. hispanicum*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. *Géogn. terrains tert.*, 222.

4912. *Serica* ———. (Scarabæidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. *Zeitschr. ges. naturwiss.*, xx: 321.

4913. *Serica minutula*. (Scarabæidæ.)

Compared with *S. strigosa* Dej.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch.* Haarl., xvi: 79-80. *Pl.* 6, *fig.* 12.

1865. " *Urwelt der Schweiz*, 380.

1872. " *Monde prim. Suisse*, 466.

1876. " *Prim. world Switz.*, ii: 37.

1879. " *Urwelt der Schweiz*, 2^e Aufl., 406.

4914. Sibynes melancholicus. (Curculionidæ.)Compared with *S. primitus* Herbst, Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 296-297 (Sybines). *Pl.* 5, *fig.* 8.**4915. Silicernius spectabilis.** (Elateridæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 6-7. *Pl.* 1, *fig.* 9.1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 797. *Fig.* 1037.1886. " Zittel-Barrois, *Traité de paléont.*, ii: 798. *Fig.* 1055.**4916.** [Omitted.]**4917. Silpha (Phosphuga) atrata** (recent). (Silphidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1746. Linné. Faun. suec. no. 451.]

1884. Flach. Käfer unterpleist. Hösbach, 9. *Pl.* 2, *fig.* 6.1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 293. *Pl.* 9, *fig.* 6.**4918. Silpha ? deplanata.** (Silphidæ.)

Locality: Cap Staratschin, Spitzbergen. Horizon: Miocene.

1870. Heer. K. svenska vetensk.-akad. handl., viii, No. 7: 73-74. *Pl.* 16, *fig.* 42.**4919. Silpha dispar** (recent). (Silphidæ.)

Localities: Schwerzenbach, Switzerland; Norfolk, England. Horizon: Glacial clay, Forest bed, Pleistocene.

[1793. Herbst. Käfer, v: 204. *Pl.* 52, *fig.* 1.]1879. Heer. Urwelt der Schweiz, 2^e Aufl., 581.

1886. Scudder. Bull. U. S. geol. surv., No 31: 82.

1888. Bell. Entom., xxi: 2.

4920. Silpha obsoleta. (Silphidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 36. *Pl.* 2, *fig.* 7.

1852. Giebel. Deutschl. petref., 654.

1856. " Insect. d. vorwelt, 46.

4921. Silpha stratum. (Silphidæ.)Compared with *S. littoralis*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian?.

1837. Germar. Fauna insect. Europæ, xix: 5. *Pl.* 5.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 33-34.

1852. Giebel. Deutschl. petref., 654.

1856. " Insect. d. vorwelt, 46.

4922. *Silpha tricostata*. (Silphidæ.)Compared with *S. carinata* Heer.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 50-51. *Pl. 3, figs. 7, 7b, 8.*
1865. " Urwelt der Schweiz, 382. *Fig. 275 on p. 381.*
1872. " Monde prim. Suisse, 468. *Fig. 275 on p. 467.*
1876. " Prim. world Switz., ii: 39. *Fig. 275 on p. 38.*
1879. " Urwelt der Schweiz, 2^e aull., 408. *Fig. 317 on p. 407.*
1885. Scudder. Zittel, Handb. palæont., i, th. ii: 802. *Fig. 1061.*
1886. " Zittel-Barrois, Traité de paléont., ii: 802. *Fig. 1078.*

See also *Peltis tricostata*.**4923. *Silvanus* ——— (3 sp.). (Cucujidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischne Danzig, 1856: 21.

4924. *Sinis brevicollis*. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 32-33. *Pl. 1, figs. 16, 17.*
1865. " Urwelt der Schweiz, 385. *Fig. 286 on p. 384.*
1872. " Monde prim. Suisse, 472. *Fig. 286 on p. 471.*
1876. " Prim. world Switz., ii: 42. *Fig. 286.*
1879. " Urwelt der Schweiz, 2^e aull., 411. *Fig. 328 on p. 410.*

4925. *Sisyphus* ———. (Scarabæidæ.)Compared with *S. schæfferi*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 222.

4926. *Sitodrepa defuncta*. (Ptinidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 82.
1878. " Bull. U. S. geol. surv. terr., iv: 762.
1890. " Tert. ins. N. A., 493.

Sitona* ———. See *Sitones* ——— Curtis.**Sitona attavina*. See *Sitones atavinus*.****4927. *Sitones* ———. (Curculionidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4928. *Sitones* ———. (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295 (*Sitona*). *Pl. 6, fig. 2.*
1829. " Murchison-Lyell, Tert. form. Aix, 11. *Pl. 6, fig. 2.*

See also *Sitones margarum*, *S. antiquus*.

4929. *Sitones antiquus.* (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 141 (*Sitona antiqua*).See also *Sitones* ——— Curtis, etc.**4930. *Sitones atavinus.* (Curculionidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiär. Oeningen, i: 182-183 (*Sitona atavina*). *Pl.* 6, *fig.* 11.1852. Giebel. Deutschl. petref., 649 (*Sitona atavina*).

1856. " Insect. d. vorwelt, 141.

1865. Heer. Urwelt der Schweiz, 375 (*Sitona*). *Fig.* 248 on *p.* 371.1872. " Monde prim. Suisse, 459. *Fig.* 248 on *p.* 455.1876. " Prim. world Switz., ii: 30. *Fig.* 248 on *p.* 27.1879. " Urwelt der Schweiz, 2^e Aufl., 400. *Fig.* 290 on *p.* 397.**4931. *Sitones grandævus.* (Curculionidæ.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 83-84.

1878. " Bull. U. S. geol. surv. terr., iv: 767.

See also *Eugnamptus grandævus*.**4932. *Sitones margarum.* (Curculionidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1849. Germar. Zeitschr. deutsch. geol. gesellsch., i: 61-62 (*Sitona*). *Pl.* 2, *fig.* 5.1856. Heer. Viert. naturf. gesellsch. Zürich, i: 19 (*Sitona*).1856. Giebel. Insect. d. vorwelt, 141 (*Sitona*).1874. Oustalet. Ann. sc. géol., v, art. 2: 246-253. *Pl.* 3, *fig.* 15.See also *Sitones* ——— Curtis, etc.**4933. *Sitones venustulus.* (Curculionidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 149. *Pl.* 23, *fig.* 10.1866. " Käfer u. polypen, 19. *Pl.* 2, *fig.* 10.

1870. L. Heyden. Foss. dipt. Rott, 29.

1870. " Palaeontogr., xvii: 265.

4934. *Smicronyx* ———. (Curculionidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 102.

4935. *Sospita haagi.* (Coccinellidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 29.

1870. " Palaeontogr., xvii: 265.

See also *Coccinella (Sospita) haagi*.**4936. *Spermophagus vivificatus.* (Bruchidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 82.

1885. " Zittel, Handb. palaeont., i, th. ii: 792. *Fig.* 1019.1886. " Zittel-Barrois, Traité de paléont., ii: 792. *Fig.* 1037.

4937. *Sphenophorus nægelianus*. (Calandridæ.)

Locality: (Oeningen?, Baden.) Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 193-195. *Pl. 6, fig. 16.*
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 138-139.

See also *Eurychirus* (*Otiorhynchus*) *induratus*.**4938. *Sphenophorus proluviosus*. (Calandridæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 153-154. *Pl. 24, fig. 9.*
 1866. " Käfer u. polypen, 23-24. *Pl. 3, fig. 9.*

4939. *Sphenophorus regelianus*. (Calandridæ.)

Locality: (Oeningen?, Baden.) Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 195-196. *Pl. 6, fig. 17.*
 1852. Giebel. Deutschl. petref., 648.
 1856. " Insect. d. vorwelt, 139.

See also *Eurychirus* (*Otiorhynchus*) *induratus*.**4940. *Sphenoptera gigantea*. (Buprestidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 117-118. *Pl. 3, fig. 12.*
 1852. Giebel. Deutschl. petref., 652.
 1856. " Insect. d. vorwelt, 86-87.

4941. *Sphenoptera knopi*. (Buprestidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. *Palaeontogr.*, xiv: 33. *Pl. 9, fig. 17.*

4942. *Spondylis* ——— (larva). (Spondylidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1885. Scudder. Zittel, *Handb. palaeont.*, i, th. ii: 794. *Figs. 1025, 1025a.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 794. *Figs. 1043ab.*

4943. *Spondylis crassicornis*. (Spondylidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 127.

4944. *Spondylis tertiaris*. (Spondylidæ.)

Locality: ———. Horizon: ———.

1849. Germar. Zeitschr. deutsch. geol. gesellsch., i: 58-60. *Pl. 2, fig. 3.*
 1852. Giebel. Deutschl. petref., 651 (*Spondylis?*).
 1856. " Insect. d. vorwelt, 127 (*tertiaria*).
 1885. Scudder. Zittel, *Handb. palaeont.*, i, th. ii: 794. *Fig. 1024.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 794. *Fig. 1042.*

4945. *Staphylinites obsoletus*. (Staphylinidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 78 (*obsoletum*).
 1878. " Bull. U. S. geol. surv. terr., iv: 762.
 1890. " Tert. ius. N. A., 510. *Pl. 8, fig. 32.*

4946. Staphylinus ———. (Staphylinidæ.)Compared with *S. tenocephalus*.

Locality: (Senigaglia ?, Italy.) Horizon: Helvetian?.

1841. Bassi. *Atti reün. scienz. ital.*, iii: 401.**4947. Staphylinus** ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. *Insekten im bernstein*, 34.**4948. Staphylinus** ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. *Uebers. schles. gesellsch. vaterl. cult.*, 1834: 92.**4949. Staphylinus?** ———. (Staphylinidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. *Rev. zool.*, 1838: 170.**4950. Staphylinus** ——— (larva). (Staphylinidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 138-139. *Pl. 22, fig. 16.*1866. " *Käfer u. polypen*, 8-9. *Pl. 1, fig. 16.***4951. Staphylinus** ———. (Staphylinidæ.)

Locality: Aix, France. Horizon: Lignrian.

1829. Serres. *Géogn. terrains tert.*, 221.**4952. Staphylinus** ———. (Staphylinidæ.)

Locality: Guruet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. *Quart. journ. geol. soc. Lond.*, xxxv: 344.1879. " *Geol. mag.*, n. s., v: 89.**4953. Staphylinus aquisextanus.** (Staphylinidæ.)Compared with *S. hirtus*, Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. *Ann. sc. géol.*, v, art. 2: 160-162. *Pl. 2, fig. 14.***4954. Staphylinus atavus.** (Staphylinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl.*, xvi: 48-49 (distinct from Oustalet's species). *Pl. 3, fig. 1.***4955. Staphylinus (Ocybus) atavus.** (Staphylinidæ.)Compared with *Ocybus pedator* Grav., Europe.

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. *Ann. sc. géol.*, v, art. 2: 162-163 (distinct from Heer's species).
*Pl. 2, fig. 8.***4956. Staphylinus calvus.** (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. *Ann. sc. géol.*, v, art. 2: 155-157. *Pl. 2, fig. 9.*

4957. Staphylinus (Ocypus) germarii. (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 157-159. *Pl. 2, fig. 13.***4958. Staphylinus priscus.** (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 166-167. *Pl. 2, fig. 11.***4959. Staphylinus prodromus.** (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Heer. MSS.

1874. Oustalet. Ann. sc. géol., v, art. 2: 163-166. *Pl. 2, figs. 10, 12.***4960. Staphylinus (Ocypus) provincialis.** (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 159-160. *Pl. 3, fig. 2.***4961. Statira (vic.)** ———. (Lagriidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Smith. Quart. journ. sc., v: 184. *Pl., fig. 7.***4962. Stenus** ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4963. Stenus ———. (Staphylinidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. Käfer unterpleist. Hösbach, 9.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 293.

4964. Stenus ———. (Staphylinidæ.)Compared with *S. juno*.

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

1884. Flach. Käfer unterpleist. Hösbach, 9. *Pl. 2, fig. 4.*1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 293. *Pl. 9, fig. 4.***4965. Stenus** ———. (Staphylinidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 165.

1889. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

4966. Stenus ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 23.

4967. Stenus gypsi. (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 139-140. *Pl. 2, fig. 5.*

4968. *Stenus prodromus.* (Staphylinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 14-15. *Pl. 1, fig. 3.*1874. Oustalet. Ann. sc. géol., v, art. 2: 138-139. *Pl. 6, figs. 16, 16a.***4969. *Stenus scribai.*** (Staphylinidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 137. *Pl. 22, fig. 13.*1866. Käfer u. polypen, 7. *Pl. 1, fig. 13.****Steropus æthiops.*** See *Feronia (Steropus) æthiops.***4970. *Stilicus*** ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4971. *Stomis elegans.* (Carabidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 115-116. *Pl. 1, fig. 3.***4972. *Strongylus?*** ———. (Nitidulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4973. *Strophosomus?* (or *Cucorhinus?*) ———. (Otiiorhynchidæ.)

Locality: Peckham, England. Horizon: Paludina beds, Lower Eocene.

1861. Smith. Geologist, iv: 40.

4974. *Sunius demersus.* (Staphylinidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 137. *Pl. 22, fig. 12.*1866. " Käfer u. polypen, 7. *Pl. 1, fig. 12.****Sybines melancholicus.*** See *Sibynea melancholicus.***4975. *Sylvanus?*** ———. (Cucujidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4976. *Tachinus* ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4977. *Tachinus* ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 23.

4978. *Tachyporus* ———. (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4979. Tachyporus —— (Staphylinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 23.

4980. Tachyporus sepultus. (Staphylinidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 136. *Pl. 22, fig. 10.*1866. " Käfer u. polypen, 6. *Pl. 1, fig. 10.***4981. Tagenopsis brevicornis.** (Tenebrionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 377. *Figs. 257, 257b on p. 376.*1872. " Monde prim. Suisse, 462. *Figs. 257, 257b on p. 461.*1876. " Prim. world Switz., ii: 33. *Figs. 257, 257b on p. 32.*1879. " Urwelt der Schweiz, 2^e aul., 402. *Figs. 299, 299b.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 791. *Fig. 1018.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 792. *Fig. 1036.***4982. Tanymecus seculorum.** (Otiorynchidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 475-476. *Pl. 8, fig. 22.***4983. Tanysphyrus deletus.** (Curculionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Oustalet. Ann. sc. géol., v, art. 2: 268-269. *Pl. 5, fig. 7.***4984. Telephorus atavinus.** (Lampyridæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 149-150 (attavinus). *Pl. 4, fig. 15.*

1852. Giebel. Deutschl. petref., 650.

1856. " Insect. d. vorwelt, 102.

Telephorus attavinus. See *Telephorus atavinus.***4985. Telephorus brodiei.** (Lampyridæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 143. *Pl. 22, fig. 25.*1866. " Käfer u. polypen, 13. *Pl. 1, fig. 25.***4986. Telephorus caducus.** (Lampyridæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 143. *Pl. 22, fig. 20.*1866. " Käfer u. polypen, 13. *Pl. 1, fig. 20.***4987. Telephorus carbonarius.** (Lampyridæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 142. *Pl. 23, fig. 2.*1866. " Käfer u. polypen, 12. *Pl. 2, fig. 2.*

4988. Telephorus exauctaratus. (Lampyridæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. Palaeontogr., xv: 142-143. *Pl.* 23, *fig.* 3.

1866. " Käfer u. polyphen, 12-13. *Pl.* 2, *fig.* 3.

1870. L. Heyden. Foss. dipt. Rott, 29.

1870. " Palaeontogr., xvii: 265.

4989. Telephorus fragilis. (Lampyridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 143-149. *Pl.* 4, *fig.* 14.

1852. Giebel. Deutschl. petref., 650.

1856. " Insect. d. vorwelt, 102.

4990. Telephorus germari. (Lampyridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 143-145. *Pl.* 4, *fig.* 10.

1852. Giebel. Deutschl. petref., 650.

1856. " Insect. d. vorwelt, 101.

4991. Telephorus macilentus. (Lampyridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig.* 256 on p. 376.

1872. " Monde prim. Suisse. *Figs.* 256, 256b-d on p. 461.

1876. " Prim. world Switz., ii. *Fig.* 256 on p. 32.

1879. " Urwelt der Schweiz, 2^e aufl. *Fig.* 298 on p. 402.

Telephorus œningensis. See *Telephorus tertiarius œningensis*.

Telephorus radobojanus. See *Telephorus tertiarius radobojanus*.

4992. Telephorus tertiarius. (Lampyridæ.)

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian

1847. Heer. Insektenf. tertiärg. Oeningen, i: 145. *Pl.* 4, *figs.* 11-13.

1852. Giebel. Deutschl. petref., 650.

1856. " Insect. d. vorwelt, 101-102.

See also *Telephorus tertiarius œningensis*, *T. tertiarius radobojanus*.

4993. Telephorus tertiarius œningensis. (Lampyridæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 145-146. *Pl.* 4, *fig.* 11.

See also *Telephorus tertiarius*, etc.

4994. Telephorus tertiarius radobojanus. (Lampyridæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1847. Heer. Insektenf. tertiärg. Oeningen, i: 147-148. *Pl.* 4, *fig.* 12.

See also *Telephorus tertiarius*, etc.

4995. Tenebrio effossus. (Tenebrionidæ.)

Compared with *T. molitor*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian f.

1837. Germar. Fauna insect. Europæ, xix: 8. *Pl.* 8.

1856. Giebel. Insect. d. vorwelt, 109-110.

4996. *Tenebrio primigenius*. (Tenebrionidæ.)Compared with *T. molitor* Linn.

Locality: Nine Mile Creek, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-78: B183.

1879. " Insect. tert. Nicola, 8.

1890. " Tert. ins. N. A., 483-484. Pl. 2, fig. 32.

4997. *Tenebrio senex*. (Tenebrionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitauian.

1859. Heyden. Palaeontogr., viii: 7-8. Pl. 1, fig. 6.

4998. *Throscus* ———. (Throscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

4999. *Thylacites* ———. (Otiiorhynchidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 635.

1836. " Man. ent., 577.

5000. *Thylacites rugosus*. (Otiiorhynchidæ.)Compared with *T. guinardi*, *T. araneiformis*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 19-21. Pl. 21, figs. 6, 6a.

1881. " Verhandl. leop.-carol. akad. naturf., xlii: 311-313. Pl. 21, figs. 6, 6a.

1885. Scudder. Zittle, Handb. palaeont., i, th. ii: 789. Fig. 1009.

1886. " Zittle-Barrois, Traité de paléont., ii: 789. Fig. 1027.

5001. *Tillus* ———. (Cleridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Berendt. Bernst. befindl. organ. reste vorw., i: 56.

5002. *Timarcha* ———. (Chrysomelidæ.)

Locality: Norfolk, England. Horizon: Forest bed, Pleistocene.

1888. Bell. Entom., xxi: 2.

5003. *Timarcha metallica* (recent). (Chrysomelidæ.)

Locality: Hösbach, Bavaria. Horizon: Lower Pleistocene.

[1781. Laichart. Verz. tyrol. ins., 144.]

1884. Flach. Käfer unterpleist. Hösbach, 10. Pl. 2, fig. 10.

1884. " Verhandl. physik.-med. gesellsch. Würzb., n. f., xviii: 294. Pl. 9, fig. 10.

5004. *Tmesiphoroides cariniger*. (Pselaphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Étud. entom., v: 26. Pl., figs. 5, 5', 5''.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 802. Fig. 1059.

1886. " Zittel-Barrois, Traité de paléont., ii: 802. Fig. 1076.

5005. Tophoderes depontanus. (Anthribidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 9-10. *Pl. 1, fig. 2.*
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 787. *Fig. 1005.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 787. *Fig. 1022.*

5006. Trachyderes bustiraptus. (Cerambycidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 15-16. *Pl. 3, fig. 7.*
 See also *Trachyderes bustonaptus*.

5007. Trachyderes bustonaptus. (Cerambycidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1860. Heyden. Hassenc., *Würzb. naturw. zeitschr.*, i: 79 (undescribed).
 See also *Trachyderes bustiraptus*.

5008. Trechinites clairvillii. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl.*, xvi: 34. *Pl. 1, fig. 25.*

5009. Trechinites oblongus. (Carabidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl.*, xvi: 34. *Pl. 1, fig. 26.*

5010. Trechoides fasciatus. (Carabidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. *Étud. entom.*, v: 26.

5011. Trechus ———. (Carabidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. *In litt.*

5012. Trechus rivularis (recent). (Carabidæ.)

Locality: Hüsbaeh, Bavaria. Horizon: Lower Pleistocene.

- [1810. Gyllenhal. *Ins. suec.*, ii: 32.]
 1884. Flach. *Käfer unterpleist. Hüsbaeh*, 7. *Pl. 1, fig. 11.*
 1884. " *Verhandl. physik.-med. gesellsch. Würzb.*, n. f., xviii: 291. *Pl. 8, fig. 11.*

5013. Triæna tertiaria. (Stylopidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1866. Menge. *Rhipidopteron* (*Schrift. naturf. gesellsch. Danzig*, (2), i, iii-iv): 2-3. *Figs. 1-3.*
 1885. Scudder. Zittel, *Handb. palaeont.*, i, th. ii: 790. *Fig. 1012.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 790. *Fig. 1030.*
 See also *Mengea tertiaria*.

5014. *Trichius* ———. (Scarabæidæ.)

Locality : Caverne de Lunel Vieil, dép. de l'Hérault, France.

Horizon : Postpliocene.

1827. Serres. Mém. soc. linn. Paris, v : 457.

5015. *Trichius ædilis*. (Scarabæidæ.)Compared with *T. nobilis* L.

Locality : Oeningen, Baden. Horizon : Tortonian.

1865. Heer. Urwelt der Schweiz, 380. Fig. 226 on p. 378.

1872. " Monde prim. Suisse, 466. Fig. 226 on p. 463.

1876. " Prim. world Switz., ii : 36. Fig. 226 on p. 34.

1879. " Urwelt der Schweiz, 2^e Aufl., 405. Fig. 308 on p. 404.See also *Trichius* (*Gnorimus*) *ædilis*.**5016. *Trichius* (*Gnorimus*) *ædilis*. (Scarabæidæ.)**

Locality : Oeningen, Baden. Horizon : Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi : 81-82. Pl. 6, figs. 14, 15.

See also *Trichius ædilis*.**5017. *Trichius amœnus*. (Scarabæidæ.)**Compared with *T. fasciatus* F.

Locality : (Oeningen ?, Baden.) Horizon : Tortonian.

1847. Heer. Insektenf. tertiärg. Oeningen, i : 74-75. Pl. 7, fig. 53.

1852. Giebel. Deutschl. petref., 652.

1856. " Insect. d. vorwelt, 30.

1865. Heer. Urwelt der Schweiz, 380.

1872. " Monde prim. Suisse, 466.

1876. " Prim. world Switz., ii : 36.

1879. " Urwelt der Schweiz, 2^e Aufl., 405.**5018. *Trichius lugubris*. (Scarabæidæ.)**Compared with *T. variabilis* L.

Locality : Oeningen, Baden. Horizon : Tortonian.

1865. Heer. Urwelt der Schweiz, 380.

1872. " Monde prim. Suisse, 466.

1876. " Prim. world Switz., ii : 36.

1879. " Urwelt der Schweiz, 2^e Aufl., 405.See also *Trichius* (*Gnorimus*) *lugubris*.**5019. *Trichius* (*Gnorimus*) *lugubris*. (Scarabæidæ.)**

Locality : Oeningen, Baden. Horizon : Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi : 81. Pl. 6, fig. 13.

See also *Trichius lugubris*.**5020. *Trichius rotundatus*. (Scarabæidæ.)**

Locality : Oeningen, Baden. Horizon : Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi : 82. Pl. 6, fig. 18.

5021. *Trichius unifasciatus*. (Scarabæidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 82. *Pl. 6, figs. 16, 17.*

5022. *Triphyllus heerii*. (Mycetophagidæ.)

Locality: Aix, France. Horizon: Ligurian.

1874. Onstalet. Ann. sc. géol., v, art. 2: 189-190. *Pl. 6, fig. 13.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 799. *Fig. 1049.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 800. *Fig. 1066.*

5023. *Trogosita* ———. (Trogositidæ.)Compared with *T. cœrulea*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 225.

5024. *Trogosita amissa*. (Trogositidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 55. *Pl. 3, figs. 13, 14.*

5025. *Trogosita assimilis*. (Trogositidæ.)Compared with *T. mauritanica* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 56. *Pl. 3, figs. 12, 12bc.*

1865. " *Urwelt der Schweiz*, 382.
 1872. " *Monde prim. Suisse*, 469.
 1876. " *Prim. world Switz.*, ii: 39.
 1879. " *Urwelt der Schweiz*, 2^e Aufl. 406.

5026. *Trogosita bella*. (Trogositidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 55. *Pl. 3, figs. 15, 15b.*

5027. *Trogosita emortua*. (Trogositidæ.)

Locality: Orsberg, (Rhenish Prussia?). Horizon: Miocene.

1849. Germar. Zeitschr. deutsch. geol. gesellsch., i: 60-61. *Pl. 2, fig. 4.*
 1852. Giebel. *Deutschl. petref.*, 654.
 1856. " *Insect. d. vorwelt*, 42.

5028. *Trogosita insignis*. (Trogositidæ.)Compared with *T. caraboides*.

Locality: Atanekerdlyk, North Greenland. Horizon: Miocene.

1868. Heer. *Flora foss. arct.*, 129. *Pl. 50, figs. 12, 12bc.*
 1883. " *Flora foss. groenl.*, ii: 144.

5029. *Trogosita kœllikeri*. (Trogositidæ.)

Locality: (Oeningen, Baden.) Horizon: Tortonian.

1847. Heer. *Insektenf. tertiärg. Oeningen*, i: 40-43. *Pl. 6, fig. 3.*
 1852. Giebel. *Deutschl. petref.*, 654.
 1856. " *Insect. d. vorwelt*, 42.
 1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 54.

5030. *Trogosita longicollis.* (Trogositidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 54-55. *Pl.* 3,
figs. 10, 10b.

5031. *Trogosita sculpturata.* (Trogositidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. Verhandl. holl. maatsch. wetensch. Haarl., xvi: 53-54. *Pl.* 3,
fig. 9.

1865. " Urwelt der Schweiz, 382. *Fig.* 277 on p. 381.
1872. " Monde prim. Suisse, 468. *Fig.* 277 on p. 467.
1876. " Prim. world Switz., ii: 39. *Fig.* 277 on p. 38.
1879. " Urwelt der Schweiz, 2^e anfl., 408. *Fig.* 319 on p. 407.

5032. *Trogosita tenebrioides.* (Trogositidæ.)Compared with *T. cærulea*.

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian †.

1837. Germar. Fauna insect. Europæ, xix: 9. *Pl.* 9.
1852. Giebel. Deutschl. petref., 654.
1856. " Insect. d. vorwelt, 42.

5033. *Tropisternus saxialis.* (Hydrophilidæ.)Compared with *T. binotatus* Walk., Mexico.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 759-760.
1890. " Tert. ins. N. A., 515. *Pl.* 8, *fig.* 2.

5034. *Tropisternus sculptilis.* (Hydrophilidæ.)Compared with *T. mexicanus* Castln.

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 760.
1890. " Tert. ins. N. A., 514-515.

5035. *Trox oustaleti.* (Scarabæidæ.)

Locality: Nine Mile Creek, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-78: B 179-180.
1879. " Insect. tert. Nicola, 4-5.
1890. " Tert. ins. N. A., 487. *Pl.* 2, *fig.* 22.

5036. *Trypodendron impressum.* (Scolytidæ.)Compared with *T. retusum*.

Locality: Green River, Wyo. Horizon: Oligocene

1876. Scudder. Bull. U. S. geol. surv. terr., ii: 83 (*impressus*).
See also *Dryocætes impressus*.

5037. *Tychius* ———. (Curculionidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.
Bull. 71—38

5038. *Tychius manderstjernai*. (Curculionidæ.)Compared with *T. sparsutus* Oliv.

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 152. *Pl. 24, fig. 5.*1866. " *Käfer u. polypen*, 22. *Pl. 3, fig. 5.***5039. *Uloma avia*. (Tenebrionidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. *Palaeontogr.*, x: 70. *Pl. 10, fig. 7.***5040. *Urodon* ——. (Bruchidæ.)**

Locality: Bruunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5041. *Urodon priscus*. (Bruchidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. *Palaeontogr.*, x: 70. *Pl. 10, fig. 17.***5042. *Valgus cœningensis*. (Scarabæidæ.)**Compared with *V. hemipterus* (L.).

Locality: Oeningen, Baden. Horizon: Tortonian.

1862. Heer. *Verhandl. holl. maatsch. wetensch. Haarl.*, xvi: 82-83. *Pl. 6, figs. 12a-aa.*1865. " *Urwelt der Schweiz*, 380. *Fig. 265 on p. 378.*1872. " *Monde prim. Suisse*, 466. *Fig. 265 on p. 463.*1876. " *Prim. world Switz.*, ii: 36. *Fig. 265 on p. 34.*1879. " *Urwelt der Schweiz*, 2^e Aufl., 405-406. *Fig. 307 on p. 404.***5043. *Xantholinus westwoodianus*. (Staphylinidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. *Viert. naturf. gesellsch. Zürich*, i: 16-17. *Pl. 1, fig. 6.*1874. Oustalet. *Ann. sc. géol.*, v, art. 2: 151-152. *Pl. 2, fig. 6.*See also *Lathrobium* —— *Curtis*, etc.**5044. *Xyletinites tumbicolus*. (Ptinidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1866. Heyd.-Heyd. *Palaeontogr.*, xv: 144 (*tumbicola*). *Pl. 22, fig. 21.*1866. " *Käfer u. polypen*, 14. *Pl. 1, fig. 21.****Zonites vetusta*. See *Zonitis vetusta*.****5045. *Zonitis vetusta*. (Meloidæ.)**Compared with *Z. præusta*, Southern Europe.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz*, 376 (*Zonites*).1872. " *Monde prim. Suisse*, 462.1876. " *Prim. world Switz.*, ii: 33.1879. " *Urwelt der Schweiz*, 2^e Aufl., 402.

DIPTERA.

5046. ———.

Locality: (Sinigaglia?, Italy.) Horizon: ———.

1841. Bassi. Atti reun. scienz. ital., iii: 401.

5047. ———.

Locality: Radoboj, Croatia. Horizon: Mayencian.

1831. Boué. Journ. géol., iii: 105, 143. Pl. 2, fig. 1.

5048. ———.

Locality: Nantucket amber. Horizon: ———.

1879. Goldsmith. Proc. acad. nat. sc. Philad., 1879: 207.

5049. ———.

Locality: Wilhelmsfund, Nassau. Horizon: "Braunkohl."

1856. Heyden. Palaeontogr., iv: 201. Pl. 37, fig. 8.

5050. ———.

Locality: Sinigaglia, Italy. Horizon: Helvetian?.

1842. Procaccini. Nuov. ann. sc. nat., vii: 449.

5051. ———.

Localities: Bodensee u. Rheine, Germany. Horizon: Alluvium.

1831. Stizenberg. Uebers. verstein. Baden, 119.

5052. ———.

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.

5053. ———. (Anthomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernstein fauna, 43.

5054. ———. (Asilidæ.)

Locality: British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-'78: B 186.

1879. " Ins. tert. beds Nicola, 11.

1890. " Tert. ins. N. A., 565.

5055. ——— (several). (Asilidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1831. Scudder. Bull. U. S. geol. surv. terr., vi: 291.

1833. " Ann. rep. U. S. geol. surv. terr., xii: 281.

1890. " Tert. ins. N. A., 29.

5056. ———. (Asilidæ.)

Locality: Italy?. Horizon: ———.

1796. ———. Ittiol. veron., i: 31.

5057. ————. (Bibionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. *Pl. 6, fig. 10.*1829. " Murchison-Lyell, Tert. form. Aix, 12. *Pl. 6, fig. 10.*See also *Protomyia elegans*.

5058. ————. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. *Ann. sc. géol.*, ii, art. 3: 152, 1^{er} spec.

5059. ————. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. *Ann. sc. géol.*, ii, art. 3: 153, 2^e spec.

5060. ————. (Bibionidæ.)

Locality: Authezat, France. Horizon: Aquitanian.

1870. Oustalet. *Ann. sc. géol.*, ii, art. 3: 153, 3^e spec. *Pl. 4, fig. 11.*

5061. ————. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. *Ann. sc. géol.*, ii, art. 3: 153, 4^e spec. *Pl. 3, fig. 17.*

5062. ———— (several). (Bibionidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. *Bull. U. S. geol. surv. terr.*, vi: 291.1883. " *Ann. rep. U. S. geol. surv. terr.* xii: 2811890. " *Tert. ins. N. A.*, 28-29.

5063. ———— (several). (Bombylidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. *Bull. U. S. geol. surv. terr.*, vi: 291.1883. " *Ann. rep. U. S. geol. surv. terr.*, xii: 281.1890. " *Tert. ins. N. A.*, 29.

5064. ————. (Chironomidæ.)

Locality: Quesnel, British Columbia. Horizon: ————.

1877. Scudder. *Rep. geol. surv. Can.*, 1875-'76: 270-271.1877. " *Ins. tert. Quesnel*, 5-6.1877. " *Rapp. opér. comm. géol. Cau.*, 1875-'76: 299.

5065. ————. (Chironomidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. *Bull. U. S. geol. surv. terr.*, iii: 745, lines 25-29.1890. " *Tert. ins. N. A.*, 581. *Pl. 5, fig. 32, 33.*

5066. ————. (Chironomidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. *Bull. U. S. geol. surv. terr.*, iii: 745, lines 30-33.1890. " *Tert. ins. N. A.*, 581. *Pl. 5, fig. 24.*

5067. ———. (Chironomidæ ?.)

Locality: White River, Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 745, lines 34-41.
 1890. " Tert. ins. N. A., 581.

5068. ———. (Chironomidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.
 1890. " Tert. ins. N. A., 28.

5069. ———. (Conopidæ-Myopina.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernstein fauna, 43.

5070. ———. (Culicidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.
 1890. " Tert. ins. N. A., 28.

5071. ———. (Culicidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Geol. mag., n. s., v: 88.

5072. ——— (several). (Hermoneuridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 29.

5073. ——— (several). (Midasidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 29.

5074. ———. (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

5075. ———. (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 43.

5076. ———. (Muscidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1870. Scudder. Hayden, Sun pictures, 98.

5077. ——— (many). (Muscidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 29.

5078. ———. (Mycetophilidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1838: 170 (Dipt. or Hymen.). *Pl. 1, fig. 17.*
 1840. Rondani. Rev. zool., 1840: 369 (Dipt.).
 1840. Guérin. Rev. zool., 1840: 370.

5079. ——— (mine). (Mycetophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 81 (in *Polyporus foliatus* Ludw.). *Pl. 10, fig. 3.*

5080. ——— (3 sp.). (Mycetophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 750-751.
 1890. " Tert. ins. N. A., 599. *Pl. 10, fig. 12.*

5081. ———. (Mycetophilidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 28.

————— (Myopina). See ——— (Conopidæ-Myopina).

5082. ——— (several). (Ortalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 29.

5083. ——— (several). (Stratiomyidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 29.

5084. ———. (Syrphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 42-43.

5085. ———. (Syrphidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1870. Scudder. Hayden, Sun pictures, 98.
 See also *Milesia quadrata*.

5086. ——— (several). (Syrphidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 29.

5087. ——— (Syrphidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 562. *Pl.* 10, *fig.* 9.

5088. ——— (Tabanidæ.)

Locality: Grone, Italy. Horizon: Quaternary.

1881. Malfatti. Atti soc. ital. sc. nat., xxiv, 90.
 1881. " Bibl. ins. foss. ital., 2.

5089. ——— (several). (Therevidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 29.

5090. ——— (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1831. Boué. Journ. géol., iii: 105, 143. *Pl.* 2, *fig.* 3.

5091. ——— (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

5092. ——— (several). (Tipulidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 291.
 1883. " Ann. Rep. U. S. geol. surv. terr., xii: 281.
 1890. " Tert. ins. N. A., 28.

5093. ——— (Tipulidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag. (n. s.), v: 88.

5094. Aclada ———. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 35 (undescri.).
 1856. Giebel. Insect. d. vorwelt, 238.

5095. Acrocera hirsuta. (Cyrtidæ.)

Locality: White River, Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 755.
 1890. " Tert. ins. N. A., 563. *Pl.* 5, *fig.* 5.

5096. Adetus ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 57.

5097. *Æmoaipus bornensis.* (Tabanidæ.)

Locality: Le Puy, France. Horizon: ———.

1854. Aymard. Congr. scient. France, sess. 22: 42 (undescri.).

5098. *Agromyza* ———. (Agromyzidæ.)

Locality: Schosnitz, Silesia. Horizon: Miocene.

1855. Goepfert. Tert. flora Schosnitz, vii (mine on *Ulmus pyramidalis*). Pl. 26, fig. 52.**5099. *Agromyza protogæa.*** (Agromyzidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 253-254. Pl. 17, fig. 22.

1852. Giebel. Deutschl. petref., 643.

1856. " Insect. d. vorwelt, 196-197.

5100. *Allarithmia palpata.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinafauna, 38 (undescri.).

1856. Giebel. Insect. d. vorwelt, 247.

See also *Eriocera palpata*.**5101. *Anaclinia?* ———.** (Mycetophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 597. Pl. 9, fig. 12.

See also *Gnoriste* (vic.) ——— Scudder.**5102. *Anatella tacita.*** (Mycetophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 589. Pl. 10, fig. 13.

5103. *Anisomera* ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5104. *Anisomera succini.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinafauna, 37 (undescri.).

1856. Giebel. Insect. d. vorwelt, 244.

See also *Eriocera succini*.**5105. *Anisopus* ———.** (Tipulidæ.)Compared with *A. fuscus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogu. terrains tert., 231.

5106. *Anthomyia* ———. (Anthomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. " Handb. ent., i: 636.

1836. " Man. ent., 578.

5107. *Anthomyia* ———. (Anthomyiidae.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5108. *Anthomyia atavina*. (Anthomyiidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 248-249. *Pl. 17, fig. 18.*
 1852. Giebel. Deutschl. petref., 643.
 1856. " Insect. d. vorwelt, 197 (attavina).

Anthomyia attavina*. See *Anthomyia atavina*.*5109. *Anthomyia burgessi*. (Anthomyiidae.)**

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-'76: 274-275.
 1877. " Ins. tert. Quesnel, 9-10.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 303-304.
 1890. " Tert. ins. N. A., 549-550. *Pl. 3, fig. 34.*

5110. *Anthomyia heymanni*. (Anthomyiidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 27-28. *Pl. 2, fig. 30.*
 1870. " Palaeontogr., xvii: 263-264. *Pl. 45, fig. 30.*

5111. *Anthomyia inanimata*. (Anthomyiidae.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-'76: 273-274.
 1877. " Ins. tert. Quesnel, 8-9.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 302-303.
 1890. " Tert. ins. N. A., 548-549. *Pl. 3, fig. 19.*

5112. *Anthomyia latipennis*. (Anthomyiidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 249. *Pl. 17, fig. 19.*
 1852. Giebel. Deutschl. petref., 643.
 1856. " Insect. d. vorwelt, 197.

5113. *Anthomyia morio*. (Anthomyiidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 249-250. *Pl. 17, fig. 20.*
 1852. Giebel. Deutschl. petref., 643.
 1856. " Insect. d. vorwelt, 197.

5114. *Anthracida xylozona*. (Bombyliidae.)

Locality: Orsberg, (Rhenish Prussia?) Horizon: Miocene.

1849. Germar. Zeitschr. deutsch. geol. gesellsch., i: 64-65. *Pl. 2, figs. 7, 7a.*
 1856. Giebel. Insect. d. vorwelt, 213-214.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 808. *Figs. 1075ab.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 809. *Figs. 1092ab.*
 1886. " Bull. U. S. geol. surv., No. 31: 87

5115. Anthrax ———. (Bombylidæ.)Compared with *A. semiatra*.

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 636.

1836. " Man. ent., 578.

5116. Anthrax ———. (Bombylidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian ?.

1831. Goldfuss. Verhandl. leop.-carol. deutschl. akad. naturf., vii, i: 118.

5117. Anthrax ———. (Bombylidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1834. Keferstein. Naturg. erdkörp., ii: 337.

5118. Apedilia ———. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 30.

5119. Aphritis ———. (Syrphidæ.)Compared with *A. auro-pubescens*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 233.

See also *Microdon* ——— Burm.**5120. Arthropeas nana**. (Acanthomeridæ.)Compared with *A. sibirica*.

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 40 (undescrib.).

1856. Giebel. Insect. d. vorwelt, 214.

1861. Loew. Dipt. fauna bernsteins, 7.

1864. " Dipt. amber, 9.

5121. Asarcomyia cadaver. (Stratiomyidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 567-568. Pl. 9, fig. 17.

5122. Asilus ———. (Asilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5123. Asilus ———. (Asilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 23, No. 1.

1870. " Palaeontogr., xvii: 259.

5124. Asilus ———. (Asilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5125. *Asilus angustifrons.* (Asilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 40 (undescr.).

1856. Giebel. Insect. d. vorwelt, 212.

5126. *Asilus antiquus.* (Asilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 239-240. *Pl. 17, fig. 7.*

1852. Giebel. Deutschl. petref., 642.

1856. " Insect. d. vorwelt, 211-212.

5127. *Asilus bicolor.* (Asilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 241. *Pl. 17, fig. 9.*

1852. Giebel. Deutschl. petref., 642.

1856. " Insect. d. vorwelt, 212.

5128. *Asilus deperditus.* (Asilidæ.)

Locality: Oeningen, Baden. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 240. *Pl. 17, fig. 8.*

1852. Giebel. Deutschl. petref., 642.

1856. " Insect. d. vorwelt, 212.

5129. *Asilus trichurus.* (Asilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 40 (undescr.).

1856. Giebel. Insect. d. vorwelt, 212.

5130. *Asynapta* — (3 sp.). (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 32.

5131. *Ataracta* — (3 sp.). (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 36, 38.

5132. *Atherix* —. (Leptidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 40 (4 sp.).

5133. *Beris* —. (Stratiomyidæ.)

Locality: —. Horizon: —.

1846. Giebel. Paläozool., 277.

5134. *Bibio* —. (Bibionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1837. Buckland. Geology and mineral., ii: 78-79. *Pl. 46'', fig. 11.*1838. " Géologie, ed. Agassiz, ii: expl. pl. 46'', pp. 5-6. *Pl. 46'', fig. 11.*See also *Protomyia bucklandi*, etc.

5135. Bibio ? ———. (Bibionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 578.

5136. Bibio ——— (several). (Bibionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 639.

1836. " Man. ent., 580.

See also *Hirtea* ——— Serres (3 sp.).**5137. Bibio** ———. (Bibionidæ.)

Locality: Gabbro, Italy. Horizon: Tripoli earth.

1878. Capellini. Atti accad. linc., (3), mem. sc. fis., ii: 285.

5138. Bibio ———. (Bibionidæ.)Compared with *B. venosus* Meig.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296.

1829. " Murchison-Lyell, Tert. form. Aix, 12.

5139. Bibio ——— (2 or 3 sp.). (Bibionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 164.

1889. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

5140. Bibio ———. (Bibionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. Historia succin., 44 (unnamed). Pl. 1, fig. 18.

1825. Guérin. Dict. class. d'hist. nat., viii: 580 (Bibion).

1829. Serres. Géogn. terrains tert., 242.

5141. Bibio alacris. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 127-128. Pl. 3, fig. 15.

5142. Bibio angustatus. (Bibionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 215-216. Pl. 16, fig. 4.

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 217.

5143. Bibio antiquus. (Bibionidæ.)

Locality: Wilhelmsfund, Nassau. Horizon: "Braunkohl."

1856. Heyden. Palaeontogr., iv: 201. Pl. 37, fig. 7.

5144. Bibio brevis. (Bibionidæ.)

Locality: Oeningen, Baden. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 225-226. Pl. 16, fig. 16.

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 220-221.

5145. *Bibio curtisii*. (Bibionidæ.)

Locality: Aix, France. Horizon: Lignrian.

1829. Curtis. Edinb. new. phil. journ., vii: 296 (unnamed). *Pl. 6, fig. 12.*
 1829. " Murchison-Lyell, Tert. form. Aix, 12 (unnamed). *Pl. 6, fig. 12.*
 1856. Heer. Viert. naturf. gesellsch. Zürich, i: 34-35. *Pl. 2, figs. 7, 14.*

5146. *Bibio cylindratus*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 133, 134. *Pl. 4, fig. 12.*

5147. *Bibio deletus*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 14. *Pl. 2, fig. 13.*
 1865. Heyd.-Heyd. Palaeontogr., xiv: 29-30.

5148. *Bibio dubius*. (Bibionidæ.)

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian.

1856. Giebel. Insect. d. vorwelt, 221-222.
 See also *Phthiria dubia*.

5149. *Bibio edwardsii*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 130-133. *Pl. 5, figs. 1-11.*
 1874. " La Nature, iii: 35. *Fig. on p. 33.*

See also *Plecia edwardsii*.

5150. *Bibio elegantulus*. (Bibionidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsab. k. akad. wiss. Wien, lxxvi: 85-86. *Pl. 1, fig. 5.*
 1877. " Fauna egerer tertiärb., 15-16. *Pl. 1, fig. 5.*

5151. *Bibio elongatus*. (Bibionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 214. *Pl. 16, fig. 2.*
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 216.
 1865. Heer. Urwelt der Schweiz, 396. *Fig. 311 on p. 394.*
 1872. " Monde prim. Suisse, 485. *Fig. 311 on p. 484.*
 1876. " Prim. world Switz., ii: 55. *Fig. 311 on p. 54.*
 1879. " Urwelt der Schweiz, 2^e aufl., 421. *Fig. 353 on p. 420.*

5152. *Bibio enterodelus*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Unger. Verhandl. leop.-carol. deutschl. akad. naturf., xix: 428. *Pl. 72, fig. 7.*
 1841. " Foss. insecten, 16. *Pl. 72, fig. 7.*
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 222-223. *Pl. 16, fig. 14.*
 1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 222-223. *Pl. 16, fig. 14.*
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 220.

5153. *Bibio firmus.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 226-227. *Pl. 16, fig. 17.*
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 221.

5154. *Bibio formosus.* (Bibionidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsb. k. akad. wiss. Wien, lxxvi: 85. *Pl. 1, fig. 4.*
 1877. " Fauna egerer tertiärb., 15. *Pl. 1, fig. 4.*

5155. *Bibio fusiformis.* (Bibionidæ.)

Localities: Oeningen, Baden; Aix, France; Tállya, Hungary.

Horizons: Mayencian, Ligurian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 219. *Pl. 16, fig. 9.*
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 218-219.
 1856. Heer. Viert. naturf. gesellsch. Zürich, i: 33.
 1872. " Mitth. jahrb. ung. geol. anst., ii, i: 8.

5156. *Bibio giganteus.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Unger. Verhandl. leop.-carol. deutschl. akad. naturf., xix: 427. *Pl. 72, fig. 6.*
 1841. " Foss. insect., 15. *Pl. 72, fig. 6.*
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 212-213. *Pl. 16, fig. 1.*
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 216.

5157. *Bibio gigas.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 122-123. *Pl. 1, figs. 2-4.*

5158. *Bibio gracilis.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Unger. Verhandl. leop.-carol. deutschl. akad. naturf., xix: 426. *Pl. 72, fig. 4.*
 1841. " Foss. insect., 14. *Pl. 72, fig. 4.*
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 217-218. *Pl. 16, fig. 7.*
 1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 217-218. *Pl. 16, fig. 7.*
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 218.

See also *Bibio gracilis minor*.

5159. *Bibio gracilis minor.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 134-135. *Pl. 3, fig. 16.*

See also *Bibio gracilis*.

5160. *Bibio incrassatus.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 221-222. *Pl.* 16, *fig.* 12.
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 219.

5161. *Bibio janus.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 21-22. *Pl.* 2, *fig.* 25.
 1870. " Palaeontogr., xvii: 257-258. *Pl.* 45, *fig.* 25.

5162. *Bibio kochii.* (Bibionidæ.)

Locality: Felek, near Klausenburg, Transylvania. Horizon: ———.

1883. Staub. Mitth. jahrb. k. ung. geol. anst., vi: 280-281. *Pl.* 18, *fig.* 13.

5163. *Bibio lartetii.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 137-138. *Pl.* 4, *fig.* 10, 14.
 See also *Plecia larteti*.

5164. *Bibio lignarius.* (Bibionidæ.)Compared with *B. marci*.

Localities: Rott, Rhenish Prussia; Radoboj, Croatia. Horizons: Aquitanian, Mayencian.

1837. Germar. Fauna insect. Europæ, xix: 23. *Pl.* 23.
 1841. Unger. Verhandl. leop.-carol. deutscheh. akad. naturf., xix: 427. *Pl.* 72, *figs.* 5ab.
 1841. " Foss. insect., 15. *Pl.* 72, *figs.* 5ab.
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 218.
 1859. Heyden. Palaeontogr., viii: 14. *Pl.* 1, *fig.* 4.

Heer considers Unger's figures distinct and to belong to two species, referring one to his *Bibio ungeri*, the other to *Protomyia lygæoides*.

See also *Protomyia lignaria*, *Bibio ungeri*, *Protomyia lygæoides*, *Plecia lygæoides*.

5165. *Bibio linearis.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 214-215. *Pl.* 16, *fig.* 3.
 1852. Giebel. Deutschl. petref., 641.
 1853-'56. Bronn. Lethæa geogn., 3^e aufl., iii: 640. *Pl.* 42', *fig.* 11c.
 1856. Giebel. Insect. d. vorwelt, 217.

5166. *Bibio lividus.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 223-224. *Pl.* 15, *figs.* 23b, d.
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 220.

5167. *Bibio macer.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 126-127. *Pl.* 4, *fig.* 6.

5168. *Bibio maculatus*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 219-220. *Pl. 16, fig. 10.*
 1852. Giebel. Deuschl. petref., 641.
 1856. " Insect. d. vorwelt, 219.

Bibio marginatus. See *Bibio ungeri marginatus*.**5169. *Bibio martinsi*. (Bibionidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1861. Heer. Saporta, Heer, rech. climat pays tert., 153 (undeser.).

5170. *Bibio mimas*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 22. *Pl. 2, fig. 26.*
 1870. " Palaeontogr., xvii: 258. *Pl. 45, fig. 26.*

Bibio minor. See *Bibio gracilis minor*.**5171. *Bibio mœstus*. (Bibionidæ.)**Compared with *B. pomonæ* L.

Localities: Oeningen, Baden; Aix, France. Horizons: Mayencian, Ligurian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 224-225. *Pl. 16, fig. 15.*
 1852. Giebel. Deuschl. petref., 641.
 1856. " Insect. d. vorwelt, 220.
 1856. Heer. Viert. naturf. gesellsch. Zürich, i: 33-34.
 1865. " Urwelt der Schweiz, 396.
 1872. " Mondé prim. Suisse, 485.
 1876. " Prim. world Switz, ii: 55.
 1879. " Urwelt der Schweiz, 2^e Aufl., 421.

5172. *Bibio morio*. (Bibionidæ.)

Localities: Radoboj, Croatia; Aix, France. Horizons: Mayencian, Ligurian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 222. *Pl. 16, fig. 13.*
 1852. Giebel. Deuschl. petref., 641.
 1856. " Insect. d. vorwelt, 219-220.
 1856. Heer. Viert. naturf. gesellsch. Zürich, i: 33.

5173. *Bibio murchisonis*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Unger. Verhandl. leop.-carol. deutschl. akad. naturf., xix: 426. *Pl. 71, fig. 3.*
 1841. " Foss. insect., 14. *Pl. 71, fig. 3.*
 See also *Bibiopsis murchisonii*, etc.

5174. *Bibio oblongus*. (Bibionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 227. *Pl. 16, fig. 18.*
 1852. Giebel. Deuschl. petref., 641.
 1856. " Insect. d. vorwelt, 221.

5175. *Bibio obsoletus*. (Bibionidae.)

Localities: Oeningen, Baden; Corent, France. Horizons: Tortonian, Aquitanian.

1849. Heer. Insektenf. tertiärg. Oeningen. ii: 227-228. *Pl. 16, fig. 19.*

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 221.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 136. *Pl. 4, fig. 13.*

Bibio oeningensis. See *Bibio pinguis oeningensis*.

5176. *Bibio pannosus*. (Bibionidae.)

Compared with *B. lividus* Heer.

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 20. *Pl. 8, fig. 1.*

See also *Bibio tertiarinus*.

5177. *Bibio partschii*. (Bibionidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 216. *Pl. 16, fig. 5.*

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 217.

5178. *Bibio pinguis*. (Bibionidae.)

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 220-221. *Pl. 16, figs. 11a-c.*

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 219.

See also *Bibio pinguis oeningensis*, *B. pinguis radobojanus*.

5179. *Bibio pinguis oeningensis*. (Bibionidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 221. *Pl. 16, fig. 11b.*

See also *Bibio pinguis*, etc.

5180. *Bibio pinguis radobojanus*. (Bibionidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 220-221. *Pl. 16, fig. 11a.*

See also *Bibio pinguis*, etc.

5181. *Bibio pulchellus*. (Bibionidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 217. *Pl. 16, fig. 6.*

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 217.

Bibio radobojanus. See *Bibio pinguis radobojanus*.

5182. *Bibio robustus*. (Bibionidae.)

Localities: Corent, Authezat, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 12-123. *Pl. 4, figs. 7-9.*

5183. *Bibio sereri*. (Bibionidæ.)

Locality: Monte Bolca, Italy. Horizon: Ligurian.

1856. Massalongo. Stud. paleont., 21. *Pl. 2, fig. 3, 4.*
 1886. Omboni. Atti r. ist. ven., (6), iv: 1427. *Pl. 2, figs. 10-11.*
 1886. " Ins. foss. Ven., 7. *Pl. 2, figs. 10-11.*

5184. *Bibio tertiarus*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 78. *Pl. 10, fig. 38.*
 1865. Heyd.-Heyd. Palaeontogr., xiv: 30.
 See also *Bibio pannosus*.

5185. *Bibio ungeri*. (Bibionidæ.)

Localities: Radoboj, Croatia; Côte Ladoux, France. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 218-219. *Pl. 16, fig. 8.*
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 218.
 1870. Oustalet. Ann. sc. géol. ii, art. 3: 123-124. *Pl. 1, figs. 16abc.*
 See also *Bibio lignarins*, etc., *Bibio ungeri marginatus*.

5186. *Bibio ungeri marginatus*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 125-126. *Pl. 3, fig. 14; pl. 4, fig. 5.*
 See also *Bibio ungeri*.

5187. *Bibio xylophilus*. (Bibionidæ.)

Compared with *B. marci*.

Locality: Bonn, Rhenish Prussia. Horizon: Aquitanian.

1837. Germar. Fauna insect. Europæ, xix: 22. *Pl. 22.*
 1852. Geibel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 218.

5188. *Bibiopsis brevicollis*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 231. *Pl. 15, fig. 26.*
 1852. Giebel. Deutschl. petref., 642.
 1853-56. Bronn. Lethæa geogn, 3^e Aufl., iii: 640. *Pl. 42, fig. 11b.*
 1856. Giebel. Insect. d. vorwelt, 223.
 See also *Penthetria brevicollis*.

5189. *Bibiopsis carbonum*. (Bibionidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene

1865. Heyd.-Heyd. Palaeontogr., xiv: 34-35. *Pl. 9, fig. 21.*

5190. *Bibiopsis cimicoides*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 229. *Pl. 15, fig. 24.*
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 222.
 See also *Penthetria cimicoides*.

5191. *Bibiopsis egerana*. (Bibionidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsab. k. akad. wiss. Wien, lxxvi: 83. *Pl. 1, fig. 3.*
 1877. " Fauna egerer tertiärb., 13. *Pl. 1, fig. 3.*

5192. *Bibiopsis funebris*. (Bibionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1861. Heer. Saporta, Heer, Rech. climat pays tert., 153 (undescribed).

5193. *Bibiopsis imperialis*. (Bibionidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsab. k. akad. wiss. Wien, lxxvi: 84. *Pl. 2, fig. 3.*
 1877. " Fauna egerer tertiärb., 14. *Pl. 2, fig. 3.*

5194. *Bibiopsis muchisonii*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 230-231. *Pl. 15, fig. 25.*
 1852. Giebel. Deutschl. petref., 642.
 1853-56. Bronn. Lethæa géogn., 3^e Aufl., iii: 640. *Pl. 42', fig. 11a.*
 1856. Giebel. Insect. d. vorwelt, 222-223.

See also *Bibio muchisonis*, *Penthetria muchisoni*.

5195. *Bibiopsis volgeri*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palæontogr., viii: 15. *Pl. 1, fig. 5.*

See also *Protomyia volgeri*.

5196. *Bolbomyia* ———. (Xylophagidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 39 (undescribed).
 1856. Giebel. Insect. d. vorwelt, 204 (undescribed).
 1862. Loew. Monogr. diptera N. A., i: 17 (undescribed).

5197. *Boletina* ———. (Mycetophilidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5198. *Boletina paludivaga*. (Mycetophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 594. *Pl. 10, fig. 7.*

5199. *Boletina philhydra*. (Mycetophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 10. *Pl. 1, fig. 11.*
 1870. " Palæontogr., xvii: 246. *Pl. 44, fig. 11.*

5200. *Boletina sepulta*. (Mycetophilidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-76: 271.
 1877. " Ins. tert. Quesnel, 6.
 1877. " Rapp. opér. comm. géol. Can., 1875-76: 299-300.
 1890. " Tert. ins. N. A., 593. *Pl. 3, fig. 9.*

5201. *Boletina umbratica*. (Mycetophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1896. Scudder. Tert. ins. N. A., 593-594. *Pl.* 10, *fig.* 3.

5202. *Boletophila* ———. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. *Handb. ent.*, i: 637.

1836. " *Man. ent.*, 578.

Bombylis ———. See *Bombylius* ——— Schlotheim.

5203. *Bombylius* ———. (Bombylidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. *Insekten im bernstein*, 30.

5204. *Bombylius* ———. (Bombylidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1820. Schlotheim. *Petrefactenkunde*, 43 (*Bombylis*).

5205. *Brachypeza abita*. (Mycetophilidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. *Rep. geol. surv. Can.*, 1875-'76: 271-272.

1877. " *Insect. tert. Quesnel*, 6-7.

1877. " *Rapp. opér. comm. géol. Can.*, 1875-'76: 300.

1890. " *Tert. ins. N. A.*, 591. *Pl.* 3, *figs.* 7, 8.

5206. *Brachypeza procera*. (Mycetophilidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. *Rep. geol. surv. Can.*, 1875-'76: 272.

1877. " *Insect. tert. Quesnel*, 7.

1877. " *Rapp. opér. comm. géol. Can.*, 1875-'76: 300-301.

1890. " *Tert. ins. N. A.*, 591-592. *Pl.* 3, *fig.* 14.

5207. *Brachystoma* ———. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ. reste vorw.*, i: 57.

5208. *Brachystoma spinulosa*. (Empidæ.)

Compared with *B. vesciculosa*.

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. *Bernsteinfanna*, 41 (undescrib.).

1856. Giebel. *Insect. d. vorwelt*, 209.

5209. *Callomyia torporata*. (Platypezidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. *Tert. ins. N. A.*, 555. *Pl.* 9, *fig.* 11.

5210. *Calobamon* ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. *Bernsteinfanna*, 36, 38.

5211. *Calobata* ———. (Micropezidæ.)

Locality: Prussian amber. Horizon: Ligurian.
Bernsteinfauuna, 44.

1850. Loew.

5212. *Campylomyza* ———. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.
Bernst. befindl. organ. reste vorw., i: 57.

1845. Berendt.

5213. *Campylomyza* (vic.) ———. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.
Zeitschr. ges. naturwiss., (2), i: 87.

1870. Giebel.

5214. *Campylomyza monilifera*. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.
Bernsteinfauuna, 32.
Insect. d. vorwelt, 248.

1850. Loew.

1856. Giebel.

5215. *Cecidomyia* ———. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.
Bernst. befindl. organ. reste vorw., i: 57.

1845. Berendt.

5216. *Cecidomyia* ———. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. " Handb. ent., i: 637.

1836. " Man. ent., 578.

5217. *Cecidomyia* ——— (2 sp.). (Cecidomyidæ.)

Locality: Sicilian amber. Horizon: ———.
Rev. zool., 1838: 170.

1838. Guérin.

5218. *Cecidomyia breinii*. (Cecidomyidæ.)

Compared with *C. salicis*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. Fig. 322 on p. 394.

1872. " Monde prim. Suisse. Fig. 322 on p. 484.

1876. " Prim. world Switz., ii. Fig. 322 on p. 54.

1879. " Urwelt der Schweiz, 2^e anfl. Fig. 364 on p. 420.5219. *Cecidomyia* ? *dua* (gall). (Cecidomyidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 80-81 (on leaf of *Juglans acuminata* Braun).
Pl. 10, fig. 4.

5220. *Cecidomyia protogæa*. (Cecidomyidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer.

Viert. naturf. gesellsch. Zürich, i: 32-33. Pl. 2, fig. 4.

5221. *Ceratopogon* ———. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauuna, 30 (26 sp.).

5222. Ceratopogon ———. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. " Handb. ent., i: 637.

1836. " Man. ent., 578.

5223. Ceratopogon ———. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1841. Ehrenberg. Forriep. Neue notizen, xix: 120.

5224. Ceratopogon ———. (Chironomidæ.)

Locality: Sicilian amber. Horizon: ———.

1840. Rondani. Rev. zool., 1840: 369.

1840. Erichson. Arch. f. naturg., (5), ii: 309.

1840. " Ber. wiss. leist. entom., 1838: 29.

See also *Dasyopogon* ——— Guérin.**5225. Ceratopogon** ———. (Chironomidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231.

5226. Ceratopogon alpheus. (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 15-16. *Pl.* 1, *fig.* 20.1870. " Palaeontogr., xvii: 251-252. *Pl.* 44, *fig.* 20.**5227. Ceratopogon anomalicornis.** (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 30.

1856. Giebel. Insect. d. vorwelt, 252.

5228. Ceratopogon clunipes. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 30.

1856. Giebel. Insect. d. vorwelt, 252.

5229. Ceratopogon escheri. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 252.

5230. Ceratopogon spiniger. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 30.

1856. Giebel. Insect. d. vorwelt, 252.

Cheilosia ———. See *Chilosia* ——— Sendder, 1878.**Cheilosia ampla.** See *Chilosia ampla*.

5231. Chilosia ———. (Syrphidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 754 (Cheilosia).

1890. " Tert. ins. N. A., 561. *Pl.* 9, *fig.* 8.**5232. Chilosia ?** ———. (Syrphidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 561. *Pl.* 9, *fig.* 26.**5233. Chilosia** ———. (Syrphidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1886. Williston. Syn. N. A. Syrph., 282.

5234. Chilosia ampla. (Syrphidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 753-754 (Cheilosia).

1886. Williston. Syn. N. A. Syrph., 281, 283.

1890. Scudder. Tert. ins. N. A., 559-560. *Pl.* 9, *figs.* 14, 27.**5235. Chironomus** ———. (Chironomidæ.)

Locality: Prussian amber. Horizon: Liguurian.

1845. Berendt. Berust. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 29 (40 sp.).

5236. Chironomus ———. (Chironomidæ.)

Locality: Prussian amber. Horizon: Liguurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 578.

5237. Chironomus ——— (pupa). (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 13-14, 30 (No. 6). *Pl.* 1, *fig.* 17.1870. " Palaeontogr., xvii: 249-250, 266. *Pl.* 44, *fig.* 17.**5238. Chironomus** ——— (pupa). (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 14, 30 (No. 7). *Pl.* 1, *fig.* 18.1870. " Palaeontogr., xvii: 250, 266. *Pl.* 44, *fig.* 18.**5239. Chironomus** ——— (pupa). (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 14, 30 (No. 8).

1870. " Palaeontogr., xvii: 250, 266.

5240. Chironomus ——— (pupa). (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 15 (No. 9). *Pl.* 1, *fig.* 19.1870. " Palaeontogr., xvii: 251. *Pl.* 44, *fig.* 19.

5241. Chironomus ——— (pupa.) (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1876. L. Heyden. Foss. dipt. Rott, 15 (No. 10).

1870. " Palaeontogr., xvii: 251.

5242. Chironomus ——— (pupa.) (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 15 (No. 11).

1870. " Palaeontogr., xvii: 251.

5243. Chironomus ———. (Chironomidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 749.

1890. " Tert. ins. N. A., 581.

5244. Chironomus antiquus. (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 13. *Pl. 2, fig. 10.***5245. Chironomus bituminosus.** (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 11. *Pl. 1, fig. 12.*1870. " Palaeontogr., xvii: 247. *Pl. 44, fig. 12.***5246. Chironomus brevirostris.** (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 251.

5247. Chironomus decrepitus. (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 12. *Pl. 1, fig. 15.*1870. " Palaeontogr., xvii: 248. *Pl. 44, fig. 15.***5248. Chironomus depletus.** (Chironomidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 744.

1890. " Tert. ins. N. A., 579-580. *Pl. 5, fig. 62.***5249. Chironomus dorminans.** (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 12. *Pl. 1, fig. 14.*1870. " Palaeontogr., xvii: 248. *Pl. 44, fig. 14.***5250. Chironomus gaudini.** (Chironomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 395. *Fig. 316 on p. 394.*1872. " Monde prim. Suisse, 483. *Fig. 316 on p. 484.*1876. " Prim. world Switz., ii: 53. *Fig. 316 on p. 54.*1879. " Urwelt der Schweiz, 2^e antl., 420. *Fig. 358.*

5251. Chironomus meyeri. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 188-189. *Pl. 14, fig. 13.*
 1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 188-189. *Pl. 14,*
fig. 13.
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 250-251.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 810. *Figs. 1083, 1084.*
 1886. " Zittel-Barrois, Trait  de pal ont., ii: 811. *Figs. 1100, 1101.*

5252. Chironomus microcephalus. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 251.

5253. Chironomus obsoletus. (Chironomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 190. *Pl. 14, fig. 15.*
 1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 190. *Pl. 14, fig. 15.*
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 250.

5254. Chironomus oeningensis. (Chironomidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 189-190. *Pl. 14, fig. 14.*
 1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 189-190. *Pl. 14,*
fig. 14.
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 250.

5255. Chironomus palæmon. (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 13. *Pl. 1, fig. 16.*
 1870. " Palaeontogr., xvii: 249. *Pl. 44, fig. 16.*

5256. Chironomus patens. (Chironomidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 744-745.
 1890. " Tert. ins. N. A., 580-581. *Pl. 5, figs. 18, 19, 28.*

5257. Chironomus perditus. (Chironomidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 11-12. *Pl. 1, fig. 13.*
 1870. " Palaeontogr., xvii: 247-248. *Pl. 44, fig. 13.*

5258. Chironomus septus. (Chironomidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 578-579. *Pl. 10, fig. 8.*

5259. Chironomus sepultus. (Chironomidæ.)

Locality: Radoboij, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 190-191. *Pl. 11, fig. 14; pl. 14, fig. 16.*
1850. " Nene denkschr. schweiz. gesellsch. wiss., xi: 190-191. *Pl. 11, fig. 14; pl. 14, fig. 16.*
1852. Giebel. Deutschl. petref., 640.
1856. " Insect. d. vorwelt, 250.

5260. Chlorops ———. (Oscinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinafauna, 43.

5261. Chrysogaster ———. (Syrphidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1886. Williston. Syn. N. A. Syrphidæ, 281.

5262. Chrysothemis ———. (Xylophagidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5263. Chrysothemis speciosa. (Xylophagidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinafauna, 39 (undescri.).
1856. Giebel. Insect. d. vorwelt, 226 (undescri.).

5264. Chrysotus ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
1850. Loew. Bernsteinafauna, 42.

5265. Chrysotus ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1870. Giebel. Zeitschr. ges. naturw., (2), i: 87.

5266. Chrysotus setosus. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 205.

5267. Conops ———. (Conopidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. ges. naturf. freunde, ii: 178. *Pl. 5, fig. 19.*

5268. Cordyla antiqua. (Mycetophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 8-9. *Pl. 1, figs 9.*
1870. " Palaeontogr., xvii: 244-245. *Pl. 44, fig. 9.*

5269. *Cordyla limnoria.* (Mycetophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 9-10. *Pl.* 1, *fig.* 10.1870. " Palaeontogr., xvii: 245-246. *Pl.* 44, *fig.* 10.**5270. *Cordyla renuda.* (Mycetophilidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 9. *Pl.* 1, *fig.* 9.1870. " Palaeontogr., xvii: 245. *Pl.* 44, *fig.* 9.**5271. *Cordyla subaptera.* (Mycetophilidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 8. *Pl.* 1, *fig.* 8.1870. " Palaeontogr., xvii: 244. *Pl.* 44, *fig.* 8.**5272. *Cordyla vetusta.* (Mycetophilidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 7-8. *Pl.* 1, *fig.* 7.1870. " Palaeontogr., xvii: 243-244. *Pl.* 44, *fig.* 7.**5273. *Cordylura vetusta.* (Cordyluridæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 250. *Pl.* 17, *fig.* 21.

1852. Giebel. Deutschl. petref., 643.

1856. " Insect. d. vorwelt, 195.

5274. *Corethra* ———. (Culicidæ.)

Locality: Aix, France. Horizon: Oligocene.

1847. Hope. Trans. ent. soc. Lond., iv: 252.

5275. *Corethra* ———. (Culicidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 268.

5276. *Corethra exita.* (Culicidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. U. S. bull. geol. surv. terr., iii: 744.

1890. " Tert. ins. N. A., 583. *Pl.* 5, *figs.* 22, 23.**5277. *Corsomyza crassirostris.* (Bombylidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 40 (undescrib.).

1856. Giebel. Insect. d. vorwelt, 213 (undescrib.).

1861. Loew. Dipt. faun. berust., 6.

1869. " Dipt. amber, 7.

Criorhina ———. See **Criorrhina** ———.**5278. *Criorrhina* ———. (Syrphidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1870. Giebel. Zeitsehr. ges. naturw., (2), i: 87 (*Criorhina*).

5279. *Critoneura longipes.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 38 (undescr.).

1856. Giebel. Insect. d. vorwelt, 246 (undescr.).

5280. *Critoneura pentagonalis.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 38 (undescr.).

1856. Giebel. Insect. d. vorwelt, 247 (undescr.).

5281. *Ctenophora?* ———. (Tipulidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster. Mitth. comm. geol. Elsass-Lothr., ii: 103.

5282. *Ctenophora decheni.* (Tipulidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 13-14. Pl. 2, figs. 7, 8.

5283. *Culex* ———. (Culicidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1899. Foerster. In litt.

5284. *Culex* ———. (Culicidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 16 (No. 2).

1870. " Palaeontogr., xvii: 252.

5285. *Culex* ———. (Culicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Motschulsky. Bull. soc. imp. nat. Mosc., xviii, ii: 98.

5286. *Culex* ———. (Culicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlotheim. Petrefactenk., 43.

5287. *Culex ceyx.* (Culicidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 16, 30. Pl. 1, fig. 21.

1870. " Palaeontogr., xvii: 252, 266. Pl. 14, fig. 21.

1885. Seudder. Zittel, Handb. palaeont., i, th. ii: 810. Fig. 1085.

1886. " Zittel-Barrois, Traité de paléont., ii: 812. Fig. 1102.

5288. *Culex ciliaris.* (Culicidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. ges. naturf. freunde, ii: 164-165. Pl. 3, fig. 1.

5289. *Culex damnatorum.* (Culicidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Seudder. Tert. ins. N. A., 582. Pl. 10, fig. 14.

5290. *Culex loewi*. (Culicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 317-318.

5291. *Culex proavitus*. (Culicidæ.)

Locality: White River, Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 744.

1890. " Tert. ins. N. A., 582-583. Pl. 5, figs. 8, 9.

5292. *Culicites tertarius*. (Culicidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 79-80. Pl. 10, figs. 30-35.

5293. *Curtisimyia eximia*. (Stratiomyidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. Pl. 6, fig. 12.

1829. " Murch.-Lyell, Tert. form. Aix, 12. Pl. 6, fig. 12.

1856. Giebel. Insect. d. vorwelt, 203.

5294. *Cylindrotoma* ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5295. *Cylindrotoma brevicornis*. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfaua, 37 (undescri.).

1856. Giebel. Insect. d. vorwelt, 243 (undescri.).

5296. *Cylindrotoma longicornis*. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfaua, 37 (undescri.).

1856. Giebel. Insect. d. vorwelt, 243 (undescri.).

5297. *Cylindrotoma longipes*. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfaua, 37 (undescri.).

1856. Giebel. Insect. d. vorwelt, 243 (undescri.).

5298. *Cylindrotoma succini*. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfaua, 37 (undescri.).

1856. Giebel. Insect. d. vorwelt, 243 (undescri.).

5299. *Cyttaromyia fenestrata*. (Tipulidæ.)

Locality: White River, Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 751-752.

1890. " Tert. ins. N. A., 575-576. Pl. 5, fig. 78.

5300. *Dasypogon* ———. (Asilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5301. *Dasyogon* ———. (Asilidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1838: 170. *Pl. 1, figs. 15-16.*See also *Ceratopogon* ——— Rondani.**5302. *Dasyogon* (*Holopogon*) *pilipes*. (Asilidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 40 (undescrib.).

1856. Giebel. *Insect. d. vorwelt*, 212 (undescrib.).**5303. *Diadocidia parallela*. (Mycetophilidæ.)**Compared with *D. flavicans*.

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 35 (undescrib.).

1856. Giebel. *Insect. d. vorwelt*, 233 (undescrib.).**5304. *Diadocidia* ? *terricola*. (Mycetophilidæ.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 750.

1890. " *Tert. ins. N. A.*, 598-599. *Pl. 10, figs. 10, 11.***5305. *Dianepsia* ——— (2 sp.). (Mycetophilidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.

5306. *Dicæra* ———. (Tipulidæ.)

Locality: Wigtonshire, Scotland. Horizon: Pleistocene.

1888. Bell. *Entom.*, xxi: 2.**5307. *Dichaneurum infossum*. (Tipulidæ.)**

Locality: LePuy, France. Horizon: ———.

1854. Aymard. *Congr. scient. France*, sess. xxii: 42 (undescrib.).**5308. *Dichaneurum primævum*. (Tipulidæ.)**

Locality: LePuy, France. Horizon: ———.

1854. Aymard. *Congr. scient. France*, sess. xxii: 42 (undescrib.).**5309. *Dicranomyia primitiva*. (Tipulidæ.)**Compared with *D. pubipennis*.

Localities: White River, Utah; Green River, Wyo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 748.

1878. " Bull. U. S. geol. surv. terr., iv: 749.

1890. " *Tert. ins. N. A.*, 570-571. *Pl. 5, figs. 20, 21, 65-67.***5310. *Dicranomyia rostrata*. (Tipulidæ.)**

Locality: White River, Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 749.

1890. " *Tert. ins. N. A.*, 571-572. *Pl. 5, figs. 40, 41, 63, 64.*

5311. *Dicranomyia stigmosa*. (Tipulidæ.)

Localities: White River, Utah and Colorado Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 746-748.

1890. " Tert. ins. N. A., 568-570. Pl. 5, figs. 16, 17, 25-27, 42, 43, 68, 69.

5312. *Dilophus* ———. (Bibionidæ.)

• Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5313. *Dilophus* ———. (Bibionidæ.)Compared with *D. marginatus*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5314. *Dilophus krantzii*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 19-21. Pl. 2, fig. 24.

1870. " Palaeontogr., xvii: 255-257. Pl. 45, fig. 24.

5315. *Dilophus priscus*. (Bibionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 38.

1856. Giebel. Insect. d. vorwelt, 225.

5316. *Diplonema* ———. (Psychodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5317. *Diplonema brevicornis*. (Psychodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 31 (undescrib.).

1856. Giebel. Insect. d. vorwelt, 249.

5318. *Diplonema longicornis*. (Psychodidæ.)Compared with *D. buceras*, Copal.

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 31 (undescrib.).

1856. Giebel. Insect. d. vorwelt, 249 (undescrib.).

1861. Loew. Dipt. fauna bernstein, 8.

1861. " Ber. versamml. deutsch. naturf., xxxv: 93.

1869. " Amber diptera, 11.

5319. *Diplosis* ———. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 32.

5320. *Dipterites angelinii*.

Locality: Monte Bolca, Italy. Horizon: Ligurian.

1855. Massalongo. Nereide foss., 31 ("Comp. faun. flor. foss. bolcensis. Pl. 6, figs. 2-3," ined.).

1856. " Stud. palaeont., 20. Pl. 2, figs. 1-2.

1855. Scudder. Zittel, Handb. palaeont., i, th. ii: 806.

1886. Scudder. Zittel-Barrois, *Traité de paléont.*, ii : 807.
 1886. " Bull. U. S. geol. surv., No. 31 : 87.
 1886. Omboni. Alc. ins. foss. Ven., 6-7. *Pl. 2, figs. 8-9.*
 1886. " Atti r. ist. ven., (6), iv : 1426-1427. *Pl. 2, figs. 8-9.*

5321. Dipterites catulloi.

Locality: Chiavon, Italy. Horizon: —.

1886. Omboni. Alc. ins. foss. Ven., 8-9. *Pl. 3, fig. 13.*
 1886. " Atti r. ist. ven., (6), iv : 1428-1429. *Pl. 3, fig. 13.*

5322. Dipterites obovatus. (Estridæ ?)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. *Urwelt der Schweiz. Fig. 323 on p. 394.*
 1872. " *Monde prim. Suisse. Fig. 323 on p. 484.*
 1876. " *Prim. world Switz., ii. Fig. 323 on p. 54.*
 1879. " *Urwelt der Schweiz, 2^e aull. Fig. 365 on p. 420.*
 1875. Scudder. Zittel, *Handb. palaeont.*, i, th. ii : 806. *Fig. 1071.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii : 807. *Fig. 1088.*
 1886. " Bull. U. S. geol. surv., No. 31 : 87.

5323. Dipterites obsoletus. (Cordyluridæ ?)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. *Insektenf. tertiärg. Oeningen, ii : 254-255 (obsoleta). Pl. 17,*
fig. 23.
 1852. Giebel. *Dentschl. petref.*, 643.
 1886. Scudder. Bull. U. S. geol. surv., No. 31 : 87.

5324. Diorhiza ———. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. *Bernsteinafauna*, 32.

5325. Dixia ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. *Bernst. befindl. organ, reste vorw.*, i : 57.
 1850. Loew. *Bernsteinafauna*, 37 (4 sp.).

5326. Dolichopus ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. *Handb. ent.*, i : 637.
 1836. " *Man. ent.*, 578.

5327. Dolichopus ———. (Dolichopodidæ.)

Locality: Brunstatt, Alsacia. Horizon: Middle Oligocene.

1890. Foerster. *In litt.*

5328. Dolichopus ? ——— (larva). (Dolichopodidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Heyden. *Palaeontogr.*, v : 120.

5329. Dolichopus ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. *Bernsteinafauna*, 42.

5330. Dolichopus? ———. (Dolichopodidae.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-76: 272-273.
 1877. " Ins. tert. Quesnel, 7-8.
 1877. " Rapp. opér. comm. géol. Can., 1875-76: 301.

5331. Dolichopus ———. (Dolichopodidae.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 756.
 1890. " Tert. ins. N. A., 562.

5332. Drapetis ———. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 42.

5333. Drosophila ———. (Drosophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 43.

5334. Echinomyia ———. (Tachinidae.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Smith. Quart. journ. sc., v: 183. *Pl.*, fig. 2.

5335. Echinomyia antiqua. (Tachinidae.)Compared with *E. echinata* Meig.

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektent. tertiärg. Oeningen, ii: 247-248. *Pl.* 17, fig. 17.
 1852. Giebel. Deutschl. petref., 642.
 1856. " Insect. d. vorwelt, 198.
 1865. Heer. Urwelt der Schweiz, 396.
 1872. " Monde prim. Suisse, 486.
 1876. " Prim. world Switz., ii: 55.
 1879. " Urwelt der Schweiz, 2^e Aufl., 422.

5336. Electra ———. (Xylophagidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5337. Electra formosa. (Xylophagidae.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 39 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 226 (undeser.).

Elephantomyia brevipalpa. See *Toxorhina brevipalpa*.**Elephantomyia longirostris.** See *Toxorhina longirostris*.**Elephantomyia pulchella.** See *Toxorhina pulchella*.**5338. Empis** ———. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste. vorw., i: 57.
 1850. Loew. Bernsteinfauna, 41 (16 sp.).

5339. Empis ———. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 2000 [1100].

5340. Empis ———. (Empidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. *Pl. 6, fig. 11.*1829. " Murch.-Lyell, Tert. form. Aix, 12. *Pl. 6, fig. 11.*

1856. Giebel. Insect. d. vorwelt, 208.

See also *Protomyia livida*.**5341. Empis** ———. (Empidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5342. Empis ———. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlotheim. Petrefactenk., 43.

5343. Empis ———. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. Hist. succ., 44-45 (unnamed). *Pl. 1, fig. 19.*

1825. Guérin. Dict. class. d'hist. nat., viii: 580.

5344. Empis ———. (Empidæ.)Compared with *E. tessellata*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5345. Empis carbonum. (Empidæ.)Compared with *E. morio*.

Locality: Baireuth, Bavaria. Horizon: Miocene?

1837. Germar. Fauna insect. Europæ, xix: 21. *Pl. 21.*

1840. ———. Verz. samml. Bayr., 71.

1852. Giebel. Deutschl. petref., 642.

1856. " Insect. d. vorwelt, 207.

5346. Empis melia. (Empidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 23-24. *Pl. 2, fig. 27.*1870. " Palaeontogr., xvii: 259-260. *Pl. 45, fig. 27.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 807. *Fig. 1074.*1886. " Zittel-Barrois, Traité de paléont., ii: 808. *Fig. 1091.***5347. Empis poeppigi.** (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 207.

5348. Empis pulvillata. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41.

1856. Giebel. Insect. d. vorwelt, 208.

5349. Ephydra ———. (Ephydridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 43.

5350. Epicypa ——— (2 sp.). (Mycetophilidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5351. Epidosis incompleta. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 32.

1856. Giebel. Insect. d. vorwelt, 247.

5352. Epidosis minutissima. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 32.

1856. Giebel. Insect. d. vorwelt, 247.

5353. Epiplecia joannis. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1878. Giard. Bull. scient. dép. nord, (2), i: 13-16.

See also *Protomyia joannis*, etc.**5354. Eriocera palpata.** (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1869. Osten Sacken. Monogr. dipt. N. A., iv: 251.

See also *Allarithmia palpata*.**5355. Eriocera succini.** (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1869. Osten Sacken. Monogr. dipt. N. A., iv: 252.

See also *Anisomera succini*.**5356. Erioptera** ——— (14 sp.). (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37.

5357. Erioptera danæ. (Tipulidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 16-17. Pl. 2, fig. 22.

1870. " Palaeontogr., xvii: 252-253. Pl. 45, fig. 22.

5358. Eriphia setosa. (Anthomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 319.

5359. Eristalis lapideus. (Syrphidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 756.

1886. Williston. Syn. N. A. Syrphidæ, 281, 283 (probably not *Eristalis*).

1890. Scudder. Fert. ins. N. A., 558-559. Pl. 5, figs. 48, 49.

5360. Eupedilia ———. (Chironomidae.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 30.

5361. Glaphyoptera ——— (3 sp.). (Mycetophilidae.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5362. Gloma ———. (Empidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 41 (3 sp.).

5363. Gloma acuticornis. (Empidae.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41.

1856. Giebel. Insect. d. vorwelt, 208.

5364. Gloma hirta. (Empidae.)Compared with *G. fuscipennis*.

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41.

1856. Giebel. Insect. d. vorwelt, 208.

5365. Gloma palpata. (Empidae.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41.

1856. Giebel. Insect. d. vorwelt, 208.

5366. Gnoriste ———. (Mycetophilidae.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. *Pl. 6, fig. 8.*1829. " Murchison-Lyell, Tert. form. Aix, 12. *Pl. 6, fig. 8.*See also *Mycetophila meigeniana*, M. crassa.**5367. Gnoriste (vic.)** ———. (Mycetophilidae.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 597. *Pl. 9, fig. 12.*See also *Anaclinia?* ———.**5368. Gnoriste dentoni.** (Mycetophilidae.)Compared with *G. megarrhina* O. S.

Locality: White River, Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 755.

1890. " Tert. ins. N. A., 592-593. *Pl. 5, figs. 6, 7.***5369. Habrosoma antiqua.** (Xylophagidae.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 39.

1856. Giebel. Insect. d. vorwelt, 204.

5370. Haplonema — (4 sp.). (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 36, 38.

5371. Helomyza —. (Helomyzidæ.)

Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 43.

5372. Helophilus primarius. (Syrphidæ.)

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian.

1837. Germar. Fauna insect. Europæ, xix: 25. *Pl.* 25.

1852. Giebel. Deutschl. petref., 642.

1856. " Insect. d. vorwelt, 201-202.

5373. Hemerodromia —. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

5374. Hemerodromia — (3 sp.). (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41.

5375. Heteromyza detecta. (Helomyzidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 758-759.

1890. " Tert. ins. N. A., 548. *Pl.* 5, *fig.* 76.

5376. Heteromyza senilis. (Helomyzidæ.)

Locality: Quesnel, British Columbia. Horizon: —.

1877. Scudder. Rep. geol. surv. Can., 1875-76: 275.

1877. " Ins. tert. Quesnel, 10.

1877. " Rapp. opér. comm. géol. Can., 1875-76: 304-305.

1890. " Tert. ins. N. A., 547. *Pl.* 3, *figs.* 1, 2.

5377. Heterotricha hirta. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.

1856. Giebel. Insect. d. vorwelt, 232.

5378. Hexatoma? œningensis. (Tabanidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 396. *Fig.* 321 on *p.* 394.

1872. " Monde prim. Suisse, 486. *Fig.* 321 on *p.* 484.

1876. " Prim. world Switz., ii: 55. *Fig.* 321 on *p.* 54.

1879. " Urwelt der Schweiz, 2^e aud., 422. *Fig.* 363 on *p.* 420.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 808. *Fig.* 1078.

1886. " Zittel-Barrois, Traité de paléont., ii: 809. *Fig.* 1095.

5379. Hilarites bellus. (Empidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 38. *Pl.* 2, *fig.* 5.

5380. Hirtea ———. (Bibionidæ.)Compared with *H. funebris*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231.

See also *Bibio* ——— Burm., 1: 639.**5381. Hirtea** ———. (Bibionidæ.)Compared with *H. johannis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231.

See also *Bibio* ——— Burm., 1: 639.**5382. Hirtea** ———. (Bibionidæ.)Compared with *H. febrilis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

See also *Bibio* ——— Burm., 1: 639.**Holopogon pilipes.** See *Dasygogon pilipes*.**5383. Hybos** ———. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 41 (2 sp.).

5384. Lasioptera ———. (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 578.

5385. Lasioptera recessa. (Cecidomyidæ.)

Localities: White River, Colorado and Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 745-746.

1890. " Tert. ins. N. A., 600. Pl. 5, figs. 29-31.

Leia ———. See *Leja* ———.**5386. Leja** ———. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637 (*Leia*).1836. " Man. ent., 578 (*Leia*).**5387. Leja frequens.** (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34 (undeser.).

1856. Giebel. Insect. d. vorwelt, 232 (undeser.).

5388. Leja interrupta. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.

1856. Giebel. Insect. d. vorwelt, 232.

5389. *Leja platypus*. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.

1856. Giebel. Insect. d. vorwelt, 232.

5390. *Leptis* ——. (Leptidæ.)

Locality: Prussian amber. Horizon: Liguurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 40 (5 sp.).

5391. *Leptis* ——. (Leptidæ.)Compared with *L. aurata*.

Locality: Prussian amber. Horizon: Liguurian.

1832. Burmeister. Handb. ent., i: 636.

1836. " Man. ent., 578.

5392. *Leptis* ——. (Leptidæ.)

Locality: Prussian amber. Horizon: Liguurian.

1868. Smith. Quart. journ. sc., v: 183. *Pl.*, fig. 1.**5393. *Leptogaster hellii*.** (Asilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Unger. Verhandl. leop.-carol. akad. naturf., xix: 428. *Pl.* 72, fig. 8.1841. " Foss. insecten, 16. *Pl.* 72, fig. 8.1849. Heer. Insektenf. tertiärg. Oeningen, ii: 241-242. *Pl.* 17, fig. 10.1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 241-242. *Pl.* 17, fig. 10.

1852. Giebel. Deutschl. petref., 642.

1856. " Insect. d. vorwelt, 212-213.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 808. *Fig.* 1077.1886. " Zittel-Barrois, *Traité de paléont.*, ii: 809. *Fig.* 1094.**5394. *Leptopeza* ——.** (Empidæ.)

Locality: Prussian amber. Horizon: Liguurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 41 (3 sp.).

5395. *Leptopeza clavipes*. (Empidæ.)

Locality: Prussian amber. Horizon: Liguurian.

1850. Loew. Bernsteinfauna, 41.

1856. Giebel. Insect. d. vorwelt, 208.

5396. *Limnobia* —— (several). (Tipulidæ.)Compared with *L. pulchella*.

Locality: Prussian amber. Horizon: Liguurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 578.

5397. *Limnobia* ——. (Tipulidæ.)

Locality: Aix, France. Horizon: Liguurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. *Pl.* 6, fig. 7.1829. " Murchison-Lyell, *Tert. form.* Aix, 12. *Pl.* 6, fig. 7.See also *Limnobia murchisoni*, *L. curtisi*.

5398. *Limnobia cingulata.* (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 199-200. *Pl. 15, fig. 8.*
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 244-245.

5399. *Limnobia curtisi.* (Tipulidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 245.
 See also *Limnobia* ——— Curtis, etc.

5400. *Limnobia debilis.* (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 201. *Pl. 15, fig. 11.*
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 245.

5401. *Limnobia deleta.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 246.

5402. *Limnobia extincta.* (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 190-191.
 See also *Rhipidia extincta*.

5403. *Limnobia formosa.* (Tipulidæ.)

Locality: (Oeningen?, Baden). Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 198-199. *Pl. 15, fig. 7.*
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 244.

5404. *Limnobia furcata.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 245-246.

5405. *Limnobia jaccardi.* (Tipulidæ.)

Locality: (Locle?, Switzerland). Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig. 320 on p. 394.*
 1872. " Monde prim. Suisse. *Fig. 320 on p. 484.*
 1876. " Prim. world Switz., ii. *Fig. 320 on p. 54.*
 1879. " Urwelt der Schweiz, 2^e anl. *Fig. 362 on p. 420.*

5406. *Limnobia murchisoni.* (Tipulidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 30-31. *Pl. 2, fig. 12.*
 See also *Limnobia* ——— Curtis, etc.

5407. *Limnobia picta.* (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 190-191.
 See also *Rhipidia picta*.

5408. *Limnobia propinqua.* (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 190-191.

See also *Rhipidia propinqua*.**5409. *Limnobia sturi.*** (Tipulidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 17-19. Pl. 2, fig. 23.

1870. " Palaeontogr., xvii: 253-255. Pl. 45, fig. 23.

5410. *Limnobia tenuis.* (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 200. Pl. 15, fig. 9.

1852. Giebel. Deutschl. petref., 640.

1856. " Insect. d. vorwelt, 245.

5411. *Limnobia vetusta.* (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 200-201. Pl. 15, fig. 10.

1852. Giebel. Deutschl. petref., 640.

1856. " Insect. d. vorwelt, 245.

Limnobiorhynchus brevipalpus. See *Toxorhina brevipalpa*.***Limnobiorhynchus longirostris.*** See *Toxorhina longirostris*.***Limnobiorhynchus pulchellus.*** See *Toxorhina pulchella*.**5412. *Lithomyza condita.*** (Cecidomyidæ.)

Localities: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 746.

1885. " Zittel, Handb. palaeont., i, th. ii: 812. Fig. 1089.

1886. " Zittel-Barrois, Traité de paléont., ii: 813. Fig. 1106.

1890. " Tert. ins. N. A., 601. Pl. 5, figs. 34-36.

5413. *Lithophysa tumulata.* (Stratiomyidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 566-567. Pl. 9, fig. 31.

5414. *Lithortalis picta.* (Ortalidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. progr. geol. surv. Can., 1875-76: 277.

1877. " Ins. tert. Quesnel, 7.

1877. " Rapp. opér. comm. géol. Can., 1875-76: 306-307.

1890. " Tert. ins. N. A., 541. Pl. 3, figs. 10, 16.

5415. *Lomatia gracilis.* (Bombylidæ.)Compared with *L. elongata* and *L. sabæa*.

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 318-319.

5416. *Lonchæa senescens.* (Lonchæidæ.)Compared with *L. vaginalis* Fall.

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. progr. geol. surv. Can., 1875-'76: 277-278.
 1877. " Ins. tert. Quesn., 12-13.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 307.
 1890. " Tert. ins. N. A., 539. Pl. 3, fig. 18.

5417. *Macrocera* ——— (6 sp.). (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 35.

5418. *Macrochile* ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5419. *Macrochile spectrum.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 242 (undeser.).

5420. *Macroura* ———. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5421. *Medeterus* ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
 1859. Loew. Bernsteinfauna, 42.

5422. *Medeterus* ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.
 1836. " Man. ent., 578.

5423. *Medeterus frauenfeldi.* (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 205-206.

5424. *Merodon germari.* (Syrphidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 78-79. Pl. 10, fig. 5.

5425. *Microdon* ———. (Syrphidæ.)

Locality: Aix, France. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 639.
 1836. " Man. ent., 580.

See also *Aphritis* ———.

5426. *Milesia quadrata.* (Syrphidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 752-753.
 1886. Williston. Syn. N. A. Syrphidæ, 281, 283 (probably not *Milesia*).
 1890. Scudder. Tert. ins. N. A., 557-558. *Pl.* 9, *fig.* 13.
 See also ——— (Syrphidæ) Scudder, 1870.

5427. *Mochlonyx* ———. (Culicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5428. *Mochlonyx atavus.* (Culicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1861. Loew. Dipt. fauna bernstein, 8.
 1861. " Ber. versamm. deutsch. naturf., xxxv: 95.
 1869. " Amber diptera, II.
 See also Loew, Bernsteinfauna, 29 (1850).

5429. *Monodicrana terminalis.* (Cecidomyidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 32.
 1856. Giebel. Insect. d. vorwelt, 247.

5430. *Musca* ———. (Muscidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 166-167. *Pl.* 3,
fig. 4.

5431. *Musca* ———. (Muscidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 171-172. *Pl.* 4,
fig. 10.

5432. *Musca* ———. (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.
 1832 " Handb. ent., i: 636.
 1836. " Man. ent., 578.

5433. *Musca* ———. (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlotheim. Petrefactenk., 43.

5434. *Musca* ———. (Muscidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 757.
 1890. " Tert. ins. N. A., 553. *Pl.* 5, *figs.* 106, 108.

5435. *Musca* ———. (Muscidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 554. *Pl.* 5, *figs.* 80, 81, 99, 100.

5436. *Musca* ———. (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 242.

5437. *Musca ascarides*. (Muscidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 756-757.

1890. " Tert. ins. N. A., 551-552. Pl. 5, figs. 74, 75, 79, 82-87, 98, 101.

5438. *Musca bibosa*. (Muscidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 757.

1890. " Tert. ins. N. A., 552. Pl. 5, fig. 73.

5439. *Musca cellaris*. (Muscidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 173. Pl. 4, fig. 12.

5440. *Musca hydropica*. (Muscidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 757-758.

1890. " Tert. ins. N. A., 553-554. Pl. 5, figs. 72, 92, 93, 107.

5441. *Musca longipes*. (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Deliciae pragenses, i: 206.

5442. *Musca meridiana*. (Muscidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 184. Pl. 5, fig. 24.

5443. *Musca pilosa*. (Muscidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 176. Pl. 4, fig. 16.

1776. " Beschäft. berl. gesellsch. naturf. freunde, ii: 184-185. Pl. 5, fig. 26.

5444. *Musca resinosa*. (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Deliciae pragenses, i: 207.

5445. *Musca roralis*. (Muscidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 170-171. Pl. 3, fig. 9.

5446. *Musca setosa*. (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Deliciae pragenses, i: 205.

5447. *Musca venosa.* (Muscidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl.

Deliciae pragenses, i: 203-204.

5448. *Musca vinculata.* (Muscidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder.

Bull. U. S. geol. surv. terr., iii: 758.

1890. “

Tert. ins. N. A., 554. Pl. 5, fig. 77.

5449. *Muscaria* ———. (Muscidæ.)

Locality: ———. Horizon: ———.

1846. Giebel.

Paläozool., 278.

5450. *Muscidites deperditus.* (Muscidæ.)

Locality: Nieder-Flörsheim in Rhein-Hessen. Horizon: Aquitanian ?.

1866. Heyd.-Heyd. Palaeontogr., xv: 29. Pl. 23, fig. 22.

1866. “

Käfer n. polypen, 29. Pl. 2, fig. 22.

5451. *Mycetobia* ——— (4 sp.). (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew.

Bernsteinafauna, 35.

5452. *Mycetobia defectiva.* (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew.

Bernsteinafauna, 35.

5453. *Mycetophila* ———. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt.

Berust. befindl. organ. reste vorw., i: 57.

1850. Loew.

Bernsteinafauna, 34 (23 sp.).

5454. *Mycetophila* ———. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. “

Handb. ent., i: 637.

1836. “

Man. ent., 578.

5455. *Mycetophila* ———. (Mycetophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. Pl. 6, fig. 9.

1829. “

Murchison-Lyell, Tert. form. Aix, 12. Pl. 6, fig. 9.

1839. Mantell.

Wonders of geology, i: 248. Fig. 2.

1854. “

Medals of creation, 2d ed., ii: 558. Fig. 183.2.

See also *Mycetophila morio*, *M. dubia*.**5456. *Mycetophila*** ——— (2 or 3 sp.). (Mycetophilidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1889. Foerster.

Mitth. comm. geol. Elsass-Lothr., ii: 103.

5457. *Mycetophila* ———. (Mycetophilidæ.)

Locality: Auvergne, France. Horizon: Aquitanian.

1870. Onstalet.

Ann. sc. geol., ii, art. 3: 153-154. Pl. 3, fig. 18.

5458. *Mycetophila amoena.* (Mycetophilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 203. *Pl.* 15, *fig.* 14.
 1852. Giebel. Deuschl. petref., 641.
 1856. " Insect. d. vorwelt, 233.

5459. *Mycetophila antiqua.* (Mycetophilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 203-205. *Pl.* 11, *fig.* 15e; *pl.* 15, *figs.* 15, 15b.
 1852. Giebel. Deuschl. petref., 641.
 1856. " Insect. d. vorwelt, 233.

5460. *Mycetophila compressa.* (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.
 1856. Giebel. Insect. d. vorwelt, 234.

5461. *Mycetophila crassa.* (Mycetophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 234.
 See also Gnoriste ——— Curtis, etc.

5462. *Mycetophila dubia.* (Mycetophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 234.
 See also *Mycetophila* ——— Curtis, etc.

5463. *Mycetophila latipennis.* (Mycetophilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 205-206. *Pl.* 15, *fig.* 17.
 1852. Giebel. Deuschl. petref., 641.
 1856. " Insect. d. vorwelt, 234.

5464. *Mycetophila leptocera.* (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.
 1856. Giebel. Insect. d. vorwelt, 234.

5465. *Mycetophila macrostyla.* (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.
 1856. Giebel. Insect. d. vorwelt, 234.

5466. *Mycetophila meigeniana.* (Mycetophilidæ.)

Localities: Aix, France; Radoboj, Croatia. Horizons: Ligurian, Mayencian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 32.
 See also Gnoriste ——— Curtis, etc.

5467. *Mycetophila morio.* (Mycetophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 32.

See also *Mycetophila* —— Curtis, etc.**5468. *Mycetophila nana.*** (Mycetophilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 202-203. *Pl.* 15, *fig.* 13.

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 233.

5469. *Mycetophila nigritella.* (Mycetophilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 205. *Pl.* 15, *fig.* 16.

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 233.

5470. *Mycetophila occultata.* (Mycetophilidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 753.

1890. " Tert. ins. N. A., 588-589. *Pl.* 5, *figs.* 44, 45, 54, 55.**5471. *Mycetophila orci.*** (Mycetophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig.* 317 on *p.* 394.1872. " Monde prim. Suisse. *Fig.* 317 on *p.* 484.1876. " Prim. world Switz., ii. *Fig.* 317 on *p.* 54.1879. " Urwelt der Schweiz, 2^e Aufl. *Fig.* 359 on *p.* 420.**5472. *Mycetophila pallipes.*** (Mycetophilidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 31. *Pl.* 2, *fig.* 3.**5473. *Mycetophila pulchella.*** (Mycetophilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 201-202. *Pl.* 15, *fig.* 12.

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 232-233.

5474. *Mycetophila pulvillata.* (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.

1856. Giebel. Insect. d. vorwelt, 234.

5475. *Mycetophila pumilio.* (Mycetophilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 206. *Pl.* 15, *fig.* 18.

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 234.

5476. Mycetophila pusillima. (Mycetophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig. 318 on p. 394.*
 1872. " Monde prim. Suisse. *Fig. 318 on p. 434.*
 1876. " Prim. world Switz., ii. *Fig. 318 on p. 54.*
 1879. " Urwelt der Schweiz, 2^e Aufl. *Fig. 360 on p. 420.*

5477. Mycetophilites ———. (Mycetophilidæ.)

Locality: Braunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5478. Myiolepta (vic.) ———. (Syrphidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1886. Williston. Syn. N. A. Syrphidæ, 232.

5479. Nemestrina ———. (Nemestrinidæ.)Compared with *N. reticulata*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5480. Nemotelus ———. (Stratiomyidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5481. Nephrotoma ———. (Tipalidæ.)Compared with *N. dorsalis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231.

5482. Ochtera ———. (Ephydridæ.)Compared with *O. mantis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 233.

5483. Odontomyia herichsonii. (Stratiomyidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Descr. ins. foss., 7. *Pl., fig. 5.*

5484. Œstrus ———. (Œstridæ.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insecten im Bernstein, 34.

5485. Œstrus ———. (Œstridæ.)

Locality: ———. Horizon: ———.

1846. Giebel. Palaeozool, 278.

5486. Oxycera ———. (Stratiomyidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5487. *Palenbolus florigerus.* (Nemestrinidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 528-529.
 1885. " Zittel, Handb. palaeont., i, th. ii: 808. *Fig.* 1076.
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 809. *Fig.* 1093.
 1890. Lesley. Dict. foss. Penns., ii: 591. *Fig.*

5488. *Palloptera morticina.* (Lonchæidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. progr. geol. surv. Can., 1875-'76: 278.
 1877. " Ins. tert. Quesnel, 13.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 307-308.
 1890. " Tert. ins. N. A., 540. *Pl.* 3, *fig.* 15.

5489. *Penthetria* (vic.) ———. (Bibionidæ.)Compared with *P. holosericea*.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ. mag., vii: 296. *Pl.* 6, *fig.* 10.
 1829. " Murchison-Lyell, Tert. form. Aix, 12.
 1839. Mantell. Wonders of geology, i: 248. *Fig.* 4.

5490. *Penthetria* (vic.) ———. (Bibionidæ.)Compared with *P. holosericea*.

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1852. Kollar. Reuss, Abhandl. k.-k. geol. reichsanst., i: 58. *Fig.* 20.

5491. *Penthetria* ———. (Bibionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1854. Mantell. Medals of creation, 2d ed., ii: 558. *Fig.* 183.4.

5492. *Penthetria* ———. (Bibionidæ.)Compared with *P. funebris*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231.

5493. *Penthetria brevicollis.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 186-189.
 See also *Bibiopsis brevicollis*.

5494. *Penthetria cimicoides.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 186-189.
 See also *Bibiopsis cimicoides*.

5495. *Penthetria murchisoni.* (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 186-189.
 See also *Bibiopsis murchisoni*, etc.

5496. *Penthetria similkameena*. (Bibionidæ.)

Locality: Similkameen River, British Columbia. Horizon: ———.

1879. Seudder. Rept. progr. geol. surv. Can., 1877-'78: B 177-179.

1879. " Ins. tert. Nicola, 2-4.

See also *Plecia similkameena*.**5497. *Penthetria vaillantii*. (Bibionidæ.)**

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 112-113. Pl. 3, figs. 1, 2.

5498. *Phalænomysia* ———. (Psychodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5499. *Phalænomysia* ——— (9 sp.). (Psychodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 31 (description of genus only).

1856. Giebel. Insect. d. vorwelt, 248-249.

5500. *Phora* ———. (Phoridae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 44 (11 sp.).

5501. *Phthiria dubia*. (Bombylidæ.)

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian.

1837. Germar. Fauna insect. Europæ, xix: 24. Pl. 24.

1852. Giebel. Deutschl. petref., 642.

See also *Bibio dubius*.**5502. *Pipiza* ———. (Syrphidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1886. Williston. Syn. N. A. Syrphidæ, 232.

5503. *Pipiza venilia*. (Syrphidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 24-25. Pl. 2, fig. 28.

1870. " Palæontogr., xvii: 260-261. Pl. 45, fig. 28.

5504. *Pipunculus* ———. (Pipunculidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5505. *Pipunculus succini*. (Pipunculidæ.)Compared with *P. auctus*.

Locality: Prussian amber. Horizon: Ligurian,

1850. Loew. Bernsteinfauna, 42.

1856. Giebel. Insect. d. vorwelt, 206.

5506. *Platyura* ———. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
 1850. Loew. Bernsteinfauna, 35 (16 sp.).

5507. *Platyura* ———. (Mycetophilidæ.)Compared with *P. cingulata*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231.

5508. *Platyura conjuncta*. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 35.
 1856. Giebel. Insect. d. vorwelt, 237.

5509. *Platyura ehrhardti*. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 35.
 1856. Giebel. Insect. d. vorwelt, 237.

5510. *Plecia* ———. (Bibionidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
 1850. Loew. Bernsteinfauna, 39 (2 sp.).

5511. *Plecia* ——— (12 sp.). (Bibionidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5512. *Plecia affinis*. (Bibionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 184-186.
 See also *Protomyia affinis*.

5513. *Plecia amœna*. (Bibionidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 184-186.
 See also *Protomyia amœna*.

5514. *Plecia anthracina*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 184-186.
 See also *Protomyia anthracina*.

5515. *Plecia blanchardi*. (Bibionidæ.)

Locality: Coirent, France. Horizon: Aquitanian.

1878. Brongniart. Bull. sc. dépt. nord, (2), i: 75.
 1878. " Bull. séances soc. ent. France, 1878, No. 6: 61.
 1878. " Ann. soc. ent. France, (5), viii: 48.

See also *Protomyia blanchardi*.

5516. *Plecia bucklandi*. (Bibionidæ.)

- Localities: Radoboj, Croatia; Aix, France. Horizons: Mayencian, Ligurian.
 1868. Loew. Zeitschr. ges. naturw., xxxii: 184-186.
 See also *Protomyia bucklandi*, etc.

5517. *Plecia dejecta*. (Bibionidæ.)

- Locality: Green River, Wyo. Horizon: Oligocene.
 1890. Scudder. Tert. ins. N. A., 586. Pl. 10, fig. 17.

5518. *Plecia edwardsii*. (Bibionidæ.)

- Locality: Coirent, France. Horizon: Aquitanian.
 1878. Brongniart. Bull. sc. dép. nord, (2), i: 75-76.
 1878. " Bull. séances soc. ent. France, 1878, No. 6: 61.
 1878. " Ann. soc. ent. France, (5), viii: 48.
 See also *Biblio edwardsii*.

5519. *Plecia ? heroica*. (Bibionidæ.)

- Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.
 1866. Heyd.-Heyd. Palaeontogr., xiv: 29. Pl. 8, fig. 16.

5520. *Plecia hilaris*. (Bibionidæ.)

- Locality: Oeningen, Baden. Horizon: Tortonian.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 211. Pl. 17, fig. 6.
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 227-228.
 1865. Heer. Urwelt der Schweiz, 396. Fig. 313 on p. 394.
 1868. Loew. Zeitschr. ges. naturw., xxxii: 183-184.
 1872. Heer. Monde prim. Suisse, 485. Fig. 313 on p. 484.
 1876. " Prim. world Switz., ii: 55. Fig. 313 on p. 54.
 1879. " Urwelt der Schweiz, 2^e Aufl., 421. Fig. 355 on p. 420.

5521. *Plecia joannis*. (Bibionidæ.)

- Locality: Coirent, France. Horizon: Aquitanian.
 1878. Brongniart. Bull. sc. dép. nord, (2), i: 75.
 1878. " Bull. séances soc. ent. France, 1878, No. 6: 61.
 1878. " Ann. soc. ent. France, (5), viii: 48.
 See also *Protomyia joannis*, etc.

5522. *Plecia jucunda*. (Bibionidæ.)

- Localities: Oeningen, Baden; Parschlug, Styria. Horizon: Tortonian.
 1868. Loew. Zeitschr. ges. naturw. xxxii: 184-186.
 See also *Protomyia jucunda*, etc.

5523. *Plecia jucunda parschlugiana*. (Bibionidæ.)

- Locality: Parschlug, Styria. Horizon: Miocene.
 1868. Loew. Zeitschr. ges. naturw., xxxii: 184-186.
 See also *Protomyia jucunda*, etc.

5524. *Plecia lapidaria*. (Bibionidæ.)

- Locality: Rott, Rhenish Prussia. Horizon: Aquitanian,
 1878. Brongniart. Bull. séances soc. ent. France, 1878, No. 6: 61.
 1878. " Ann. soc. ent. France, (5), viii: 48.
 See also *Protomyia lapidaria*.

5525. *Plecia larteti*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1878. Brongniart. Bull. sc. dép. nord, (2), i: 75.
 1878. " Bull. séances soc. ent. France, 1878, No. 6: 61.
 1878. " Ann. soc. ent. France, (5), viii: 48.

See also *Biblio larteti*.

5526. *Plecia latipennis*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 184-186.

See also *Protomyia latipennis*.

5527. *Plecia longa*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 184-186.

See also *Protomyia longa*.

5528. *Plecia lugubris*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 209-211. Pl. 14, fig. 20.
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 227.
 1868. Loew. Zeitschr. ges. naturw., xxxii: 183.

5529. *Plecia lygæoides*. (Bibionidæ.)

Localities: Radoboj, Croatia; Aix, France. Horizons: Mayencian, Ligurian.

1868. Loew. Zeitschr. ges. naturw., xxxii: 184-186.

See also *Biblio lignarius*, etc.

5530. *Plecia major*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 114-115. Pl. 2, fig. 19; pl. 3, figs. 3, 4.

5531. *Plecia nigrescens*. (Bibionidæ.)

Compared with *P. funebris*, *P. velutina*, Brazil.

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 115-117. Pl. 3, figs. 5-10.

5532. *Plecia oustaleti*. (Bibionidæ.)

Locality: Auvergne, France. Horizon: Aquitanian.

1878. Brongniart. Bull. sc. dép. nord, (2), i: 75-80.
 1878. " Bull. séances soc. ent. France, 1878, No. 6: 60-61.
 1878. Giard. Bull. sc. dép. nord, (2), i: 12-16.

See also *Protomyia oustaleti*.

5533. *Plecia pallida*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 118-119. Pl. 3, figs. 11-13.

Plecia parschlugiana. See *Plecia jucunda parschlugiana*.

5534. *Plecia pealei*. (Bibionidæ.)

Locality: Twin Creek, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 585-586. Pl. 4, figs. 2, 3, 10-12.

5535. *Plecia quæsitæ*. (Bibionidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. akad. wiss. Wien, lxxvi: 86-87. Pl. 2, fig. 5.

1877. " Fauna egerer tertiärb., 16-17 Pl. 2, fig. 5.

5536. *Plecia rhenana*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 28-29. Pl. 9, fig. 9.

5537. *Plecia sauvagei*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1878. Brongniart. Bull. sc. dép. nord, (2), i: 75.

1878. " Bull. séances soc. ent. France, 1878, No. 6: 61.

1878. " Ann. soc. ent. France, (5), viii: 48.

See also *Protomyia sauvagei*.**5538. *Plecia similkameena*. (Bibionidæ.)**

Locality: British Columbia. Horizon: ———.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 811. Fig. 1086.

1886. " Zittel-Barrois, Traité de paléont., ii: 812. Fig. 1103.

1886. " Bull. U. S. geol. surv., No. 31: 92.

1890. " Tert. ins. N. A., 583-585. Pl. 3, figs. 20-22.

See also *Penthetria similkameena*.**5539. *Poliomyia recta*. (Conopidæ.)**

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 755.

1885. " Zittel, Handb. palaeont., i, th. ii: 807. Fig. 1072.

1886. " Zittel-Barrois, Traité de paléont., ii: 807. Fig. 1089.

1890. " Tert. ins. N. A., 556-557. Pl. 9, figs. 19, 21.

5540. *Porphyrops* ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 42.

5541. *Porphyrops* ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 578.

5542. *Porphyrops* ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1870. Giebel. Zeitschr. ges. naturw., (2), i: 87.

5543. *Posthon* ———. (Psychodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5544. *Posthon gracilis*. (Psychodidae.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Löw. Bernsteinfauna, 31.
 1856. Giebel. Insect. d. vorwelt, 249.

5545. *Pronophlebia rediviva*. (Tipulidae.)

Locality: White River, Colorado or Utah. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iii: 750-751.
 1890. " Tert. ins. N. A., 574. Pl. 5, fig. 39.

5546. *Protomyia* ——— (2 or 3 sp.). (Bibionidae.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 164.
 1889. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

5547. *Protomyia abava*. (Bibionidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 20-21. Pl. 8, figs. 2 A, B.

5548. *Protomyia adusta*. (Bibionidae.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 145-146. Pl. 5, fig. 18.

5549. *Protomyia affinis*. (Bibionidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 235-236. Pl. 17, fig. 3.
 1852. Giebel. Deutschl. petref., 642.
 1853-56. Bronn. Lethæa geogn., 3^e aufl., iii: 641. Pl. 42^e, figs. 13a-d.
 1856. Giebel. Insect. d. vorwelt, 224-225.

See also *Plecia affinis*.**5550. *Protomyia amœna*.** (Bibionidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 237. Pl. 17, fig. 4.
 1852. Giebel. Deutschl. petref., 642.
 1856. " Insect. d. vorwelt, 225.

See also *Plecia amœna*.***Protomyia antenata*.** See *Protomyia antennata*.**5551. *Protomyia antennata*.** (Bibionidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 26 (*antennata*). Pl. 8, fig. 9.

5552. *Protomyia anthracina*. (Bibionidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 236-237. Pl. 16, fig. 21.
 1852. Giebel. Deutschl. petref., 642.
 1856. " Insect. d. vorwelt, 225.

See also *Plecia anthracina*.

5553. *Protomyia blanchardi*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 148-149. *Pl. 6, fig. 5.*See also *Plecia blanchardi*.**5554. *Protomyia bohémica*. (Bibionidæ.)**

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. akad. wiss. Wien, lxxvi: 86. *Pl. 2, fig. 2.*1877. " Fauna egerer tertiärb., 16. *Pl. 2, fig. 2.***5555. *Protomyia brevipennis*. (Bibionidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 35. *Pl. 2, fig. 1.***5556. *Protomyia bucklandi*. (Bibionidæ.)**

Localities: Radoboj, Croatia; Aix, France. Horizons: Ligurian, Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 238-239 (*bucklandi*). *Pl. 16, fig. 22.*

1852. Giebel. Deutschl. petref., 642.

1856. " Insect. d. vorwelt, 225.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 35.

1876. Brongniart. Bull. soc. géol. France, (3), iv: 459-460. *Pl. 13, fig. 7.*See also *Bibio* ——— *Buckland*, *Plecia bucklandi*.***Protomyia buklandi*. See *Protomyia bucklandi*.*****Protomyia collossea*. See *Protomyia collossea*.****5557. *Protomyia collossea*. (Bibionidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 21 (*collossea*). *Pl. 8, fig. 3.***5558. *Protomyia elegans*. (Bibionidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 36.

See also ——— (Bibionidæ) *Curtis*.**5559. *Protomyia elongata*. (Bibionidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1855. Heyd.-Heyd. Palaeontogr., xiv: 27-28. *Pl. 8, fig. 14.***5560. *Protomyia exposititia*. (Bibionidæ.)**

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 24. *Pl. 9, figs. 7-8.*

1870. L. Heyden. Foss. dipt. Rott, 29.

1870. " Palaeontogr., xvii: 265.

5561. *Protomyia formicoides*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 150-151. *Pl. 4, fig. 12; pl. 5, fig. 19.*

5562. *Protomyia fusca.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 145. Pl. 4, fig. 15.

5563. *Protomyia globularis.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 147-148. Pl. 6, fig. 7.

5564. *Protomyia gracilentia.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 28. Pl. 9, fig. 12.

5565. *Protomyia gracilis.* (Bibionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 36. Pl. 2, fig. 2a.

5566. *Protomyia grandæva.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 25-26. Pl. 8, figs. 17-18.

1870. L. Heyden. Foss. dipt. Rott, 29.

1870. " Palaeontogr., xvii: 265.

5567. *Protomyia grossa.* (Bibionidæ.)

Compared with *P. wimmertzii* Heyd., Aquitanian.

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 22. Pl. 8, fig. 5.

5568. *Protomyia heeri.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 28. Pl. 8, fig. 15.

5569. *Protomyia hypogæa.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 23. Pl. 9, figs. 10-11.

5570. *Protomyia incerta.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 151-152. Pl. 1, fig. 16d; pl. 5, figs. 20, 21.

5571. *Protomyia inflata.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 142. Pl. 5, fig. 17.

5572. *Protomyia joannis.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 143-144. Pl. 6, figs. 4, 14 (bis).

1876. Brongniart. Bull. soc. géol. France, (3), iv: 459-460. Pl. 13, fig. 8.

See also *Epiplectia joannis*, *Plectia joannis*.

5573. *Protomyia jucunda*. (Bibionidæ.)

Localities: Oeningen, Baden; Parschlug, Styria. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 234-235. *Pl. 17, fig. 2.*
 1852. Giebel. Deutschl. petref., 642.
 1853-56. Bronn. Lethæa geogn. 3^e Aufl., iii: 641. *Pl. 42', fig. 14.*
 1856. Giebel. Insect. d. vorwelt, 224.

See also *Protomyia jucunda parschlugiana*, *Plecia jucunda*, *Plecia jucunda parschlugiana*.

5574. *Protomyia jucunda parschlugiana*. (Bibionidæ.)

Locality: Parschlug, Styria. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 235. *Pl. 17, figs. 2a-g.*

See also *Protomyia jucunda*, etc.

5575. *Protomyia lapidaria*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 25. *Pl. 9, fig. 6.*
 1870. L. Heyden. Foss. dipt. Rott, 29.
 1870. " Palaeontogr., xvii: 265.

See also *Plecia lapidaria*.

5576. *Protomyia latipennis*. (Bibionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 237-238. *Pl. 17, fig. 5.*
 1852. Giebel. Deutschl. petref., 642.
 1856. " Insect. d. vorwelt, 225.

See also *Plecia latipennis*.

5577. *Protomyia lignaria*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 29-30.

See also *Biblio lignarius*, etc.

5578. *Protomyia livida*. (Bibionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 239.
 1856. " Viert. naturf. gesellsch. Zürich, i: 35.
 1856. Giebel. Insect. d. vorwelt, 226.

See also *Empis* ——— *Curtis*.

5579. *Protomyia longa*. (Bibionidæ.)

Localities: Radoboj, Croatia; Corent, France. Horizons: Mayencian, Aquitanian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 233-234. *Pl. 16, fig. 20.*
 1852. Giebel. Deutschl. petref., 642.
 1853-56. Bronn. Lethæa geogn., 3^e Aufl., iii: 641. *Pl. 42', figs. 12ab.*
 1856. Giebel. Insect. d. vorwelt, 224.
 1870. Oustalet. Ann. sc. géol., ii, art. 3: 139-140. *Pl. 5, fig. 16.*

See also *Plecia longa*.

5580. *Protomyia longipennis*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 141. *Pl. 6, fig. 1.*

5581. *Protomyia luctuosa.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. *Palaeontogr.*, xiv: 22. *Pl. 8, fig. 6.*

1870. L. Heyden. *Foss. dipt. Rott*, 29.

1870. " *Palaeontogr.*, xvii: 265.

5582. *Protomyia lugens.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. *Ann. sc. géol.* ii, art. 3: 142-143. *Pl. 6, figs. 2, 3.*

5583. *Protomyia luteola.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. *Palaeontogr.*, xiv: 26-27. *Pl. 8, fig. 11.*

5584. *Protomyia lygæoides.* (Bibionidæ.)

Localities: Radoboj, Croatia; Aix, France. Horizon: Mayeneian, Ligurian.

1849. Heer. *Insektenf. tertiärg. Oeningen*, ii: 232-233. *Pl. 17, fig. 1.*

1852. Giebel. *Deutschl. petref.*, 642.

1856. " *Insect. d. vorwelt.*, 223-224.

1856. Heer. *Viert. naturf. gesellsh. Zürich*, i: 35.

See also *Bibio lignarius*, etc.

5585. *Protomyia macrocephala.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. *Palaeontogr.*, xiv: 23. *Pl. 8, fig. 8.*

1870. L. Heyden. *Foss. dipt. Rott*, 29.

1870. " *Palaeontogr.*, xvii: 265.

5586. *Protomyia matheroni.* (Bibionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1861. Heer. *Saporta, Heer, Rech. climat pays tert.*, 153 (undeser.).

5587. *Protomyia oustaleti.* (Bibionidæ.)

Locality: Chadrat, Auvergne, France. Horizon: Aquitanian.

1876. Brongniart. *Bull. soc. géol. Fr.*, (3), iv: 459-460. *Pl. 13, figs. 5-8.*

1876. " *Ann. sc. géol.*, vii, art. 4: 1-2.

See also *Plecia oustaleti*.

Protomyia parschlugiana. See *Protomyia jucunda parschlugiana.*

5588. *Protomyia pinguis.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. *Palaeontogr.*, xiv: 24. *Pl. 9, figs. 4-5.*

5589. *Protomyia proserpina.* (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. *Palaeontogr.*, xiv: 22-23. *Pl. 8, fig. 7.*

5590. *Protomyia rubescens.* (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. *Ann. sc. géol.*, ii, art. 3: 149-150. *Pl. 4, figs. 16, 17.*

5591. *Protomyia sauvagei*. (Bibionidæ.)

Locality: Corent, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 146-147. Pl. 6, fig. 6.

See also *Plecia sauvagei*.

5592. *Protomyia schineri*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 27. Pl. 8, figs. 12, 13.

5593. *Protomyia speciosa*. (Bibionidæ.)

Locality: Oeningen, Baden. Horizon: Tortouian.

1865. Heer. Urwelt der Schweiz, 395. Fig. 312 on p. 394.

1872. " Monde prim. Suisse, 485. Fig. 312 on p. 484.

1876. " Prim. world Switz., ii: 55. Fig. 312 on p. 54.

1879. " Urwelt der Schweiz, 2^e Aufl., 421. Fig. 354 on p. 420.

5594. *Protomyia stygia*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 24. Pl. 9, figs. 1-3.

1870. L. Heyden. Foss. dipt. Rott, 29.

1870. " Palaeontogr., xvii: 265.

5595. *Protomyia veterana*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 25. Pl. 8, fig. 10.

5596. *Protomyia volgeri*. (Bibionidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 29-30.

See also *Bibiopsis volgeri*.

5597. *Protomyia winnertzi*. (Bibionidæ.)

Compared with *P. latipennis* Heer, Radoboj.

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1865. Heyd.-Heyd. Palaeontogr., xiv: 21-22. Pl. 8, fig. 4.

1870. L. Heyden. Foss. dipt. Rott, 29.

1870. " Palaeontogr., xviii: 265.

5598. *Psila* ———. (Psilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 68.

5599. *Psilites bella*. (Psilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 250-252. Pl. 17, fig. 16.

1852. Giebel. Deutschl. petref., 643.

1856. " Insect. d. vorwelt, 196.

1885. Seudder. Zittel, Handb. palaeont., i, th. ii: 806. Fig. 1070.

1886. " Zittel-Barrois, Traité de paléont., ii: 807. Fig. 1087.

5600. Psilopus ———. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 42.

5601. Psilota tabidosa. (Syrphidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 561-562. *Pl. 9, fig. 9.***5602. Psychoda** ———. (Psychodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5603. Psychoda ———. (Psychodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Mau. ent., 578.

5604. Psychoda oxyptera. (Psychodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 31.

1856. Giebel. Insect. d. vorwelt, 248.

5605. Ptychoptera deleta. (Tipulidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. akad. wiss. Wien., lxxvi: 88-89. *Pl. 2, fig. 1.*1877. " Fauna egerer tertiärb., 18-19. *Pl. 2, fig. 1.***5606. Pulex** ———. (Pulicidæ.)

Locality: Aix, France. Horizon: Ligurian.

1834. Keferstein. Naturg. erdkörp., ii: 336 (two species as of Serres; but Serres merely says: "Peut-être des Aptères de l'ordre des Suceurs." Cf. Walek. and Gervais, Apt. iv: 356. Pictet in the first edition of his *Traité de paléontologie* (1846) makes the same reference as Keferstein, but omits it in the second).**5607. Rhamphidia** ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 37 (4 sp.).

5608. Rhamphidia minuta. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37.

1856. Giebel. Insect. d. vorwelt, 242.

5609. Rhamphidia pulchra. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37.

1856. Giebel. Insect. d. vorwelt, 242.

5610. Rhapsium ——. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Mau. ent., 578.

5611. Rhapsium ——. (Dolichopodidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 42.

5612. Rhamphomyia ——. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57 (Rhamphomyia).

1850. Loew. Bernsteinfauna, 41 (21 sp.).

5613. Rhamphomyia antipedalis. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41 (undeser.).

1856. Giebel. Insect. d. vorwelt, 208 (undeser.).

5614. Rhamphomyia crinitarsis. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41.

1856. Giebel. Insect. d. vorwelt, 208.

5615. Rhamphomyia distans. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41.

1856. Giebel. Insect. d. vorwelt, 208.

5616. Rhamphomyia formosa. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41 (undeser.).

1856. Giebel. Insect. d. vorwelt, 208 (undeser.).

5617. Rhamphomyia pteropa. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41 (undeser.).

1856. Giebel. Insect. d. vorwelt, 208 (undeser.).

5618. Rhamphomyia ptilopa. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41 (undeser.).

1856. Giebel. Insect. d. vorwelt, 208 (undeser.).

5619. Rhamphomyia remitarsis. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41 (undeser.).

1856. Giebel. Insect. d. vorwelt, 208 (undeser.).

5620. Rhamphomyia unguлина. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 41.
 1856. Giebel. Insect. d. vorwelt, 203.

5621. Rhingia ———. (Syrphidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 252.

5622. Rhingia ———. (Syrphidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1886. Williston. Syn. N. A. Syrphidæ, 282.

5623. Rhipidia extincta. (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Unger. Verhandl. leop.-carol. akad. naturf., xix: 425. *Pl. 71, fig. 1.*
 1841. " Foss. insect., 13. *Pl. 71, fig. 1.*
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 196. *Pl. 14, fig. 17.*
 1850. " Neue denkschr. allg. schweiz. gesellsch. wiss., xi: 196. *Pl. 14, fig. 17.*
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 243.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 809. *Fig. 1081.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 811. *Fig. 1098.*

See also *Limnobia extincta*.**5624. Rhipidia maior.** (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1841. Unger. Verhandl. leop.-carol. akad. naturf., xix: 425-426. *Pl. 71, fig. 2.*
 1841. " Foss. insecten, 13. *Pl. 71, fig. 2.*

See also *Tipula ungeri*, etc.**5625. Rhipidia picta.** (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 197. *Pl. 14, fig. 18.*
 1850. " Neue denkschr. allg. schweiz. gesellsch. wiss., xi: 197. *Pl. 14, fig. 18.*
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 243.

See also *Limnobia picta*.**5626. Rhipidia propinqua.** (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 198. *Pl. 14, fig. 19.*
 1852. Giebel. Deutschl. petref., 640.
 1856. " Insect. d. vorwelt, 243.

See also *Limnobia propinqua*.**5627. Rhyphus** ———. (Rhyphidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
 1850. Loew. Bernsteinfauna, 39 (4 sp.).

5628. Rhyphus ———. (Rhyphidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1833: 170 (Ryphus). *Pl. 1, fig. 14.***5629. Rhyphus maculatus.** (Rhyphidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 208-209. *Pl. 15, figs. 22, 23a, c.*

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 226.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 809. *Fig. 1080.*1886. " Zittel-Barrois, Traité de paléont., ii: 810. *Fig. 1097.***Rumphomyia** ———. See *Rhamphomyia* ———.**5630. Rymosia strangulata.** (Mycetophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 590. *Pl. 10, fig. 2.***Ryphus** ———. See *Rhyphus* ———.**5631. Sackenia** ———. (Mycetophilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 750.

1890. " Tert. ins. N. A., 596-597.

5632. Sackenia? ———. (Mycetophilidæ.)

Locality: White River, Utah. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 596. *Pl. 5, fig. 50.***5633. Sackenia arcuata.** (Mycetophilidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 754-755.

1885. " Zittel, Handb. palaeont., i, th. ii: 811. *Fig. 1088.*1886. " Zittel-Barrois, Traité de paléont., ii: 813. *Fig. 1105.*1890. " Tert. ins. N. A., 595-596. *Pl. 5, figs. 3, 4, 12, 13.***5634. Sapromyza** ———. (Sapromyzidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 43.

5635. Sargus (vic.) ———. (Stratiomyidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 296. *Pl. 6, fig. 12.*1829. " Murchison-Lyell, Tert. form. Aix, 12. *Pl. 6, fig. 12.***5636. Sargus** ———. (Stratiomyidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5637. Scatophaga ———. (Cordyluridae.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 636.

1836. " Man. ent., 578.

Scatops ———. See Scatopse ——— Serres.**5638. Scatopse** ———. (Bibionidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 39 (3 sp.).

5639. Scatopse ———. (Bibionidae.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231 (Scatops).

5640. Sciara ———. (Mycetophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinfauna, 33 (21 sp.).

5641. Sciara ———. (Mycetophilidae.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 637.

1836. " Man. ent., 578.

5642. Sciara ———. (Mycetophilidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 7, No. 6.

1870. " Palaeontogr., xvii: 243, No. 6.

5643. Sciara ———. (Mycetophilidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 7, No. 7.

1870. " Palaeontogr., xvii: 243, No. 7.

5644. Sciara ———. (Mycetophilidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 7, No. 8.

1870. " Palaeontogr., xvii: 243, No. 8.

5645. Sciara ———. (Mycetophilidae.)Compared with *S. florilega*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231 (Sciaris).

5646. Sciara acuminata. (Mycetophilidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 207-208. Pl. 15, fig. 20.

1852. Giebel. Deutschl. petref. 641.

1856. " Insect. d. vorwelt, 231.

See also *Sciaphila acuminata*.

5647. *Sciara atavina.* (Mycetophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 5. *Pl.* 1, *fig.* 4.
 1870. " Palaeontogr., xvii: 241. *Pl.* 44, *fig.* 4.

5648. *Sciara defossa.* (Mycetophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 5. *Pl.* 1, *fig.* 3.
 1870. " Palaeontogr., xvii: 241. *Pl.* 44, *fig.* 3.

5649. *Sciara deleta.* (Mycetophilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig.* 319 on *p.* 394.
 1872. " Monde prim. Suisse. *Fig.* 319 on *p.* 484.
 1876. " Prim. world Switz., ii. *Fig.* 319 on *p.* 54.
 1879. " Urwelt der Schweiz, 2^e Aufl. *Fig.* 361 on *p.* 420.

5650. *Sciara deperdita.* (Mycetophilidæ.)

Compared with *S. unglata*, Europe.

Locality: Quesnel, British Columbia. Horizon: ———.

1878. Scudder. Add. ins. fauna Quesnel, 1-2.
 1878. " Rep. progr. geol. surv. Can., 1876-77: 457-458.
 1878. " Rapp. opér. comm. géol. Can., 1876-77: 514-515.
 1890. " Tert. ins. N. A., 586-587. *Pl.* 3, *fig.* 17.

5651. *Sciara hirtella.* (Mycetophilidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 207. *Pl.* 2, *fig.* 1a****; *pl.* 15,
fig. 19.
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 231.
 See also *Sciophila hirtella*.

5652. *Sciara hirticornis.* (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34.
 1856. " Insect. d. vorwelt, 231.

5653. *Sciara janassa.* (Mycetophilidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 4. *Pl.* 1, *fig.* 2.
 1870. " Palaeontogr., xvii: 240. *Pl.* 44, *fig.* 2.

5654. *Sciara martii.* (Mycetophilidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novak. Sitzungsber. k. akad. wiss. Wien, lxxvi: 89-90. *Pl.* 3, *fig.* 6.
 1877. " Fauna egerer tertiärb., 19-20. *Pl.* 3, *fig.* 6.

5655. *Sciara minutula*. (Mycetophilidæ.)

- Localities: Radoboj, Croatia; Aix, France. Horizons: Mayencian, Ligurian.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 208. *Pl.* 15, *fig.* 21.
 1852. Giebel. Deutschl. petref., 641.
 1856. " Insect. d. vorwelt, 231.
 1861. Saporta. Heer, Rech. climat pays tert., 153.
 See also *Sciophila minutula*.

5656. *Sciara rottensis*. (Mycetophilidæ.)

- Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.
 1870. L. Heyden. Foss. dipt. Rott, 6. *Pl.* 1, *fig.* 5.
 1870. " Palaeontogr., xvii: 242. *Pl.* 44, *fig.* 5.

5657. *Sciara scopuli*. (Mycetophilidæ.)

- Locality: Green River, Wyo. Horizon: Oligocene.
 1890. Scudder. Tert. ins. N. A., 588. *Pl.* 10, *fig.* 16.

5658. *Sciara troglodytes*. (Mycetophilidæ.)

- Locality: Aix, France. Horizon: Ligurian.
 1861. Heer. Saporta, Heer, Rech. climat pays tert., 153 (undesr.).

5659. *Sciara wimmertzii*. (Mycetophilidæ.)

- Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.
 1870. L. Heyden. Foss. dipt. Rott, 6-7. *Pl.* 1, *fig.* 6.
 1870. " Palaeontogr., xvii: 243-243. *Pl.* 44, *fig.* 6.

Sciaris ———. See *Sciara* ——— Serres.

5660. *Sciobia* ——— (19 sp.). (Mycetophilidæ.)

- Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 34.

5661. *Sciobia peduncularis*. (Mycetophilidæ.)

- Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 34.

5662. *Sciobia quadrangularis*. (Mycetophilidæ.)

- Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 34.

5663. *Sciobia spinosa*. (Mycetophilidæ.)

- Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 34.

5664. *Sciomyza* ———. (Sciomyzidæ.)

- Locality: Green River, Wyo. Horizon: Oligocene.
 1890. Scudder. Tert. ins. N. A., 546. *Pl.* 10, *fig.* 5.

5665. *Sciomyza* ? *disjecta*. (Sciomyzidæ.)

- Locality: Green River, Wyo. Horizon: Oligocene.
 1878. Scudder. Bull. U. S. geol. surv. terr., iv: 758.
 1890. " Tert. ins. N. A., 546. *Pl.* 9, *figs.* 7, 22, 25, 30, 32, 33.

5676. *Sciophila socialis*. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 236-237.

5677. *Sciophila tenera*. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 34 (undeser.).

1856. Giebel. Insect. d. vorwelt, 237 (undeser.).

5678. *Sciophila vetusta*. (Mycetophilidæ.)

Locality: Parschlug, Styria. Horizon: Tortonian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 206-207. Pl. 15, fig. 27.

1852. Giebel. Deutschl. petref., 641.

1856. " Insect. d. vorwelt, 236.

5679. *Sendelia mirabilis*. (Chironomidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Duisburg. Schrift. k. phys.-ökon. gesellsch. Königsb., ix: 23.

5680. *Silvius* ———. (Tabanidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5681. *Silvius laticornis*. (Tabanidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 40 (undeser.).

1856. Giebel. Insect. d. vorwelt, 215 (undeser.).

Simulia ———. See *Simulium* ——— Berendt, Foerster, Heyden.**Simulia pasithea.** See *Simulium pasithea*.**5682. *Simulium* ———.** (Simulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernstein. befindl. organ. reste vorw., i: 57 (*Simulia*).1850. Loew. Bernsteinfauna, 38 (6 sp.) (*Simulia*).**5683. *Simulium* ———.** (Simulidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt. (*Simulia*).**5684. *Simulium* ———.** (Simulidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1838: 170. Pl. 1, fig. 13.

5685. *Simulium* ———. (Simulidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 3 (*Simulia*).1870. " Palaeontogr., xvii: 239 (*Simulia*).

5686. *Simulium pasithea*. (Simuliidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 2-3 (*Simulia*). Pl. 1, fig. 1.
 1870. " Palaeontogr., xvii: 238-239 (*Simulia*). Pl. 44, fig. 1.

5687. *Sphegina* ———. (Syrphidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1886. Williston. Syn. N. A. Syrphidæ, 281.

5688. *Spiladomyia simplex*. (Tipulidæ.)

Locality: White River, Colo. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 750.
 1890. " Tert. ins. N. A., 573. Pl. 5, figs. 37, 38.

5689. *Stenocinclis*? ———. (Asilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 565. Pl. 10, fig. 15.

5690. *Stenocinclis anomala*. (Asilidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 751-752.
 1890. " Tert. ins. N. A., 564-565. Pl. 9, fig. 10.

Stomoxya ———. See *Stomoxys* ———.

5691. *Stomoxys* ———. (Muscidæ.)

Locality: ———. Horizon: ———.

1846. Giebel. Paläozool., 278 (*Stomoxya*).

5692. *Stratiomys* ——— (larva). (Stratiomyidæ.)

Locality: Bernouville, Eure, France. Horizon: Quaternary.

1880. Brongniart. Note tufs Bernouv., 2.
 1880. " Bull. soc. géol. France, 1880: 419.

5693. *Stratiomys* ———. (Stratiomyidæ.)

Locality: ———. Horizon: ———.

1846. Giebel. Paläozool., 277.

5694. *Stratiomys*? ——— (larva). (Stratiomyidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 28. Pl. 2, fig. 31.
 1870. " Palaeontogr., xvii: 254. Pl. 45, fig. 31.

5695. *Stratiomys heberti*. (Stratiomyidæ.)

Locality: Pontary, Auvergne, France. Horizon: Aquitanian.

1870. Oustalet. Ann. sc. géol., ii, art. 3: 156-157. Pl. 6, figs. 11-14.

Styringia ———. See *Styringomyia* ———.

5696. *Styringomyia* ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57 (*Styringia*).

5697. *Styringomyia gracilis*. (Tipulidæ.)Compared with *S. venusta*, Copal.

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 38 (undescr.).
 1856. Giebel. Insect. d. vorwelt, 247.
 1861. Loew. Dipt. fauna bernsteins, 6, 8.
 1861. " Ber. versamml. deutsch. naturf., xxxv: 91, 93.
 1869. " Dipt. amber, 7, 11.

5698. *Syrphus* ——— (2 sp.). (Syrphidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5699. *Syrphus* ———. (Syrphidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian

1870. L. Heyden. Foss. dipt. Rott, 27 (No. 2). Fig.
 1870. " Palaeontogr., xvii: 263 (No. 2). Fig.

5700. *Syrphus* ———. (Syrphidæ.)

Locality; Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 755.
 1890. " Tert. ins. N. A., 559.

5701. *Syrphus* ———. (Syrphidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1886. Williston. Syn. N. A. Syrphidæ, 282.

5702. *Syrphus bremit*. (Syrphidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. Fig. 314 on p. 394.
 1872. " Monde prime Suisse. Fig. 314 on p. 434.
 1876. " Prim. world Switz., ii. Fig. 314 on p. 54.
 1879. " Urwelt der Schweiz, 2^e Aufl. Fig. 356 on p. 420.

5703. *Syrphus euphemus*. (Syrphidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1870. L. Heyden. Foss. dipt. Rott, 26. Pl. 2, fig. 29.
 1870. " Palaeontogr., xvii: 262. Pl. 45, fig. 29.

5704. *Syrphus freyeri*. (Syrphidæ.)

Localities: Radoboj, Croatia; Senigaglia, Italy. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 244-245. Pl. 17, fig. 12.
 1852. Giebel. Deutschl. petref., 642.
 1856. " Insect. d. vorwelt, 200.
 1859. Scarabelli. Mass.-Scarab., Stud. flora foss. Senig., 25.

5705. *Syrphus geminatus*. (Syrphidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 245-246. Pl. 17, fig. 13.
 1852. Giebel. Deutschl. petref., 642.
 1856. " Insect. d. vorwelt 201.

5706. *Syrphus haidingeri*. (Syrphidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 243-244. *Pl. 17, fig. 11.*
 1852. Giebel. Deutschl. petref., 642.
 1856. " Insect. d. vorwelt, 200.

5707. *Syrphus infumatus*. (Syrphidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 246. *Pl. 17, fig. 14.*
 1852. Giebel. Deutschl. petref., 642.
 1856. " Insect. d. vorwelt, 201.
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 807. *Fig. 1073.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 807. *Fig. 1090.*

5708. *Syrphus schellenbergi*. (Syrphidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig. 315 on p. 394.*
 1872. " Monde prim. Suisse. *Fig. 315 on p. 484.*
 1876. " Prim. world Switz., ii. *Fig. 315 on p. 54.*
 1879. " Urwelt der Schweiz, 2^e anfl. *Fig. 357 on p. 420.*

5709. *Tabanus* ———. (Tabanidæ.)

Locality: Rhine, Germany. Horizon: Aquitanian?.

1831. Goldfuss. Verhandl. leop.-carol. akad. naturf., vii, i: 118.

5710. *Tabanus* ———. (Tabanidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1834. Keferstein. Naturg. erdkörp., ii: 337 (as of Berendt, but erroneously).

5711. *Tabanus* ———. (Tabanidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5712. *Tachina* ———. (Tachinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100 (*Tachinus*).

5713. *Tachina* ———. (Tachinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 68.

5714. *Tachina* ———. (Tachinidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 756.
 1890. " Tert. ins. N. A., 554-555.

5715. *Tachina* ———. (Tachinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Smith. Quart. journ. sc., v: 184 (*Tachinus*). *Pl., fig. 5.*

- **5716. *Tachina succini*.** (Tachinidæ.)
 Compared with *T. fastuosa*, etc.
 Locality: Prussian amber. Horizon: Ligurian.
 1862. Giebel. Zeitschr. ges. naturw., xx: 319.
- Tachinus** —. See *Tachina* — Burmeister, Smith.
- 5717. *Tachydromia*** —. (Empidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
- 5718. *Tachydromia*** —. (Empidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1832. Burmeister. Handb. ent., i: 636.
 1836. " Man. ent., 578.
- 5719. *Tachydromia*** — (7 sp.). (Empidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 42.
- 5720. *Tachypeza*** — (5 sp.). (Empidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 41-42.
- 5721. *Tanymera*** — (4 sp.). (Tipulidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 36, 38.
- 5722. *Tanypus*** —. (Chironomidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
 1850. Loew. Bernsteinfauna, 29 (7 sp.).
- 5723. *Tanypus*** —. (Chironomidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1832. Burmeister. Handb. ent., i: 637.
 1836. " Man. ent., 578.
- 5724. *Tanysphyra*** —. (Tipulidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
- 5725. *Tanysphyra gracilis*.** (Tipulidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1850. Loew. Bernsteinfauna, 38.
 1856. Giebel. Insect. d. vorwelt, 247.

5726. Tephritis antiqua. (Trypetidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 252-253. Pl. 17, fig. 15.

1852. Giebel. Deutschl. petref., 643.

See also *Trypeta antiqua*.**5727. Tetanocera** — (2 sp.). (Sciomyzidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

Thereua pinguis. See *Thereva pinguis*.**5728. Thereva** — (Therevidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinafauna, 40 (3 sp.).

5729. Thereva carbonum. (Therevidæ.)

Locality: Wilhelmsfund, Nassau. Horizon: "Braunkohl."

1856. Heyden. Palaeoutogr., iv: 200-201. Pl. 37, fig. 6.

5730. Thereva pinguis. (Therevidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinafauna, 40 (*Thereua*).

1856. Giebel. Insect. d. vorwelt, 214.

5731. Thirza naumanni. (Empidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 210.

5732. Tipula — (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

1850. Loew. Bernsteinafauna, 36-37 (16 sp.).

5733. Tipula — (Tipulidæ.)Compared with *T. pratensis*.

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. " Handb. ent., i: 637.

1836. " Man. ent., 578.

5734. Tipula — (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. DeFrance. Dict. sc. nat., xxiii: 524 (*Tipules*).**5735. Tipula** — (2 sp.). (Tipulidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5736. Tipula ———. (Tipulidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1838: 170. *Pl. 1, fig. 18.***5737. Tipula ?** ———(larva). (Tipulidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., v: 119-120. *Pl. 23, fig. 19.***5738. Tipula ?** ———. (Tipulidæ.)Compared with *T. rivosa*.

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 253.

5739. Tipula ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlothheim. Petrefactenk., 43.

5740. Tipula ———. (Tipulidæ.)Compared with *T. ochracea*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schüberlin. Soc. entom., iii: 69.

5741. Tipula ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. Hist. succ., 32, 66-68, 70, 76, 78, 260. *Pl. 1, fig. 8; pl. 2, figs. 1-3, 5-7, 11, 12, 14, 16; pl. 6, fig. 34; pl. 7, figs. 2-3.*

1825. Guérin. Dict. class. hist. nat., viii: 580. (Tipule).

1829. Serres. Géogn. terrains tert., 242.

5742. Tipula æmula. (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 193. *Pl. 15, fig. 2.*1850. " Neue denkschr. allg. schweiz. gesellsch., xi: 193. *Pl. 15, fig. 2.*

1852. Giebel. Deutschl. petref., 640.

1856. " Insect. d. vorwelt, 240.

5743. Tipula angustata. (Tipulidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. akad. wiss. Wien, lxxvi: 87-88. *Pl. 1, fig. 1.*1877. " Fauna egerer tertiärb., 17-18. *Pl. 1, fig. 1.***5744. Tipula antiqua**. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 202-203.

5745. Tipula brevirostris. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37 (undescrib.).

1856. Giebel. Insect. d. vorwelt, 241 (undescrib.).

5746. *Tipula curvicornis.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 200-201.

5747. *Tipula decrepita.* (Tipulidæ.)

Localities: White River, Colorado and Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. surv. terr., iii: 752.

1890. " Tert. ins. N. A., 576-577. Pl. 5, figs. 56, 57.

5748. *Tipula eucera.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinafauna, 37 (undescrib.).

1856. Giebel. Insect. d. vorwelt, 241 (undescrib.).

5749. *Tipula expectans.* (Tipulidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungs. k. akad. wiss. Wien, lxxvi: 88. Pl. 1, fig. 2.

1877. " Fauna egerer tertiärb., 18. Pl. 1, fig. 2.

5750. *Tipula fusca.* (Tipulidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 175-176. Pl. 4, fig. 15.

5751. *Tipula goliath.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinafauna, 37 (undescrib.).

1856. Giebel. Insect. d. vorwelt, 241 (undescrib.).

5752. *Tipula infernalis.* (Tipulidæ.)

Locality: Aix, France. Horizon: Ligurian.

1861. Heer. Saporta, Heer, Rech. climat pays tert., 153 (undescrib.).

5753. *Tipula lineata.* (Tipulidæ.)

Localities: Radoboj, Croatia; Gabbro, Italy. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 194-195. Pl. 15, fig. 4.

1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 194-195. Pl. 15, fig. 4.

1852. Giebel. Deutschl. petref., 640.

1856. " Insect. d. vorwelt, 241.

1878. Capellini. Atti acad. line., (3), mem. sc. fis., ii: 285.

5754. *Tipula maculipennis.* (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 191-193. Pl. 15, fig. 1.

1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 191-193. Pl. 15, fig. 1.

1852. Giebel. Deutschl. petref., 640.

1856. " Insect. d. vorwelt, 240.

5755. *Tipula major*. (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1856. Giebel. Insect. d. vorwelt, 241.

See also *Tipula ungeri*, etc.**5756. *Tipula obtecta*.** (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 195. *Pl.* 15, *fig.* 5.1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 195. *Pl.* 15, *fig.* 5.

1852. Giebel. Deutschl. petref., 640.

1856. " Insect. d. vorwelt, 241.

5757. *Tipula protogæa*. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 201-202.

5758. *Tipula sepulchri*. (Tipulidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Seudder. Tert. ins. N. A., 578. *Pl.* 10, *fig.* 1.**5759. *Tipula spoliata*.** (Tipulidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Seudder. Tert. ins. N. A., 577-578. *Pl.* 10, *fig.* 4.**5760. *Tipula tecta*.** (Tipulidæ.)

Locality: White River, Utah. Horizon: Oligocene.

1877. Seudder. Bull. U. S. geol. surv. terr., iii: 752-753.

1890. " Tert. ins. N. A., 577. *Pl.* 5, *figs.* 46, 47.**5761. *Tipula ungeri*.** (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 195-196. *Pl.* 15, *fig.* 6.

1852. Giebel. Deutschl. petref., 640.

See also *Rhipidia major*, *Tipula major*.**5762. *Tipula varia*.** (Tipulidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 193-194. *Pl.* 15, *fig.* 3.1850. " Neue denkschr. schweiz. gesellsch. wiss., xi: 193-194. *Pl.* 15, *fig.* 3.

1852. Giebel. Deutschl. petref., 640.

1867. " Insect. d. vorwelt, 240-241.

5763. *Tipula zignoi*. (Tipulidæ.)

Locality: Chiavon, Italy. Horizon: ———.

1886. Omboni. Ale. ins. foss. Ven., 8. *Pl.* 3, *fig.* 12.1886. " Atti r. ist. ven., (6), iv: 1428. *Pl.* 3, *fig.* 12.**5764. *Toxorhina* ———.** (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.

5765. *Toxorhina brevipalpa.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37 (undescrib.).
 1851. " Linn. entom., v: 400-401. *Pl. 2, fig. 21.*
 1856. Giebel. Insect. d. vorwelt, 242.
 1859. Osten Sacken. Proc. acad. nat. sc. Philad., 1859: 221.
 1860. " Proc. acad. nat. sc. Philad., 1860: 17. (No spec. mentioned, = *Limnobia rhynchus.*)
 1869. " Monogr. dipt. N. A., iv: 107-109. (No spec. mentioned, = *Elephantomyia.*)

5766. *Toxorhina longirostris.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37 (undescrib.).
 1851. " Linn. entom., v: 400. *Pl. 2, figs. 20, 23.*
 1856. Giebel. Insect. d. vorwelt, 242.
 1859. Osten Sacken. Proc. acad. nat. sc. Philad., 1859: 221.
 1860. " Proc. acad. nat. sc. Philad., 1860: 17. (No spec. mentioned, = *Limnobia rhynchus.*)
 1869. " Monogr. dipt. N. A., iv: 107-109. (No spec. mentioned, = *Elephantomyia.*)

5767. *Toxorhina pulchella.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37 (undescrib.).
 1851. " Linn. entom., v: 400. *Pl. 2, fig. 19.*
 1856. Giebel. Insect. d. vorwelt, 242.
 1859. Osten Sacken. Proc. acad. nat. sc. Philad., 1859: 221.
 1860. " Proc. acad. nat. sc. Philad., 1860: 17. (No spec. mentioned, = *Limnobia rhynchus.*)
 1869. " Monogr. dipt. N. A., iv: 107-109. (No spec. mentioned, = *Elephantomyia.*)

5768. *Trichocera* ——— (2 sp.). (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37.

5769. *Trichocera* ———. (Tipulidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 231.

5770. *Trichoneura* ———. (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1845. Berendt. Bernst. befindl. organ. reste vorw., i: 57.
 1850. Loew. Bernsteinfauna, 37-38 (3 sp.).

5771. *Trichoneura vulgaris.* (Tipulidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 37-38.
 1856. Giebel. Insect. d. vorwelt, 246.

5772. *Trichonta dawsoni.* (Mycetophilidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. progr. geol. surv. Can., 1875-'76: 272.
 1877. " Ins. tert. Quesnel, 7.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 301.
 1890. " Tert. ins. N. A., 590. Pl. 3, figs. 12, 13.

5773. *Trypeta antiqua.* (Trypetidæ.)

Locality: Radoboij, Croatia. Horizon: Mayencian.

1852. Giebel. Deutschl. petref., 643 (*Trypeta*).
 1856. " Insect. d. vorwelt, 195.

See also *Tephritis antiqua*.***Trypeta antiqua.*** See *Trypeta antiqua*.**5774. *Xylophagus* ———.** (Xylophagidæ.)Compared with *X. ater*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 232.

5775. *Xylophagus mengeanus.* (Xylophagidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 39 (undeser.).
 1856. Giebel. Insect. d. vorwelt, 204 (undeser.).

5776. *Xylophagus pallidus.* (Xylophagidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 36-37. Pl. 2, fig. 11.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 809. Fig. 1079.
 1886. " Zittel-Barrois, Traité de paléont., ii: 810. Fig. 1096.

5777. *Zygoneura* ———. (Mycetophilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1850. Loew. Bernsteinfauna, 32.

LEPIDOPTERA.

5778. ——— ——— (larva).

Locality: Florissant, Colo. Horizon: Oligocene.

1886. Minot. Arch. mikr. anat., xxviii: 46-47.

5779. ——— ———.

Locality: Sinigaglia, Italy. Horizon: (Helvetian?).

1842. Procaccini. Nuov. ann. sc. nat., vii: 449.

5780. ——— ——— (larva). (Lycænidæ.)Compared with *Papilio w-album*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 93.

- 5781.** ——— (larva case). (Psychidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 27-28, No. 1.
- 5782.** ——— (larva case). (Psychidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 28, No. 2.
- 5783.** ——— (larva case). (Psychidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 28, No. 3.
- 5784.** ——— (larva case). (Psychidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 28, No. 4.
- 5785.** ——— (larva case). (Psychidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 28, No. 5.
- 5786.** ——— (larva case). (Psychidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 28, No. 6.
- 5787.** ——— (larva case). (Psychidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 28, No. 7.
- 5788.** ——— (several). (Pyralidæ or Tortricidæ.)
 Locality: Florissant, Colo. Horizon: Oligocene.
 1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.
- 5789.** ——— (several). (Rhopalocera).
 Locality: Florissant, Colo. Horizon: Oligocene.
 1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.
 1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.
- 5790.** ———. (Tineidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 28-29.
- 5791.** ———. (Tortricidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 29.
- 5792.** ——— (2 sp., pupæ). (Tortricidæ.)
 Locality: Prussian amber. Horizon: Ligurian.
 1856. Menge. Progr. petrishule Danzig, 1856: 29.

5793. ——— (1 sp., larvæ). (Tortricidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 28-29.

————— (Tortricidæ). See ——— (Pyralidæ or Tortricidæ).

Angerona electrica. See *Angerona electrica*.

5794. *Angerona electrica.* (Phalenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 317.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 347 (*electrica*).

5795. *Antirrhæa? sepulta.* (Nymphalidæ.)

Locality: Aix, France. Horizon: Ligurian.

1871. Kirby. Synon. catal. diurn. lepid., 39.

1877. " Synon. catal. diurn. lepid., suppl., 698.

See also *Cylo sepulta*, etc.

5796. *Apanthesis* ———. (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Scudder. Butt. N. E., i: 758-759 (name only).

See also *Apanthesis leuce*.

5797. *Apanthesis leuce.* (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Scudder. Ann. rep. U. S. geol. surv., viii: 461. Pl. 52, figs. 12-13.

See also *Apanthesis* ———.

5798. *Araschnia vetula.* (Hesperidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1871. Kirby. Synon. catal. diurn. lepid., 179.

See also *Vanessa vetula*, *Thaumatites vetulus*.

5799. *Argynnis pluto.* (Papilionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1868. Edwards. Butt. N. A., i, *Argynnis*, i. Fig.

1871. Kirby. Synon. catal. diurn. lepid., 155.

See also *Vanessa pluto*, etc.

5800. *Barbarothesa* ———. (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 29.

5801. *Bombycites büchii.* (Bombycidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 397. Fig. 310 on p. 394.

1872. " Monde prim. Suisse, 486. Fig. 310 on p. 484.

1876. " Prim. world Switz., ii: 56. Fig. 310 on p. 54.

1879. " Urwelt der Schweiz, 2^e aul., 422. Fig. 352 on p. 420.

5802. Bombycites œningensis. (Bombycidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 183-188. *Pl. 14, fig. 7.*
 1852. Giebel. Deutschl. petref., 644.
 1856. " Insect. d. vorwelt, 189.
 1865. Heer. Urwelt der Schweiz, 397.
 1872. " Monde prim. Suisse, 486.
 1876. " Prim. world Switz., ii: 56.
 1879. " Urwelt der Schweiz, 2^e aufl., 422.
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 349.

5803. Bombyx ———. (Bombycidae.)

Locality: Prussian amber. Horizon: Ligurian.

1742. Sendel. Hist. succin., 104, 116 (unnamed). *Pl. 3, figs. 16, 17, 28.*
 1834. Keferstein. Naturg. erdkörp., ii: 333.

5804. Bombyx (or Cossus) ———. (Bombycidae.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 230.

5805. Coliates proserpina. (Papilionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1875. Scudder. Mem. Amer. assoc. adv. sc., i: 52-53. *Pl. 2, fig. 5.*
 1877. Kirby. Synon. catal. diurn. lepid., suppl., 801.
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 346.

Cossus ———. See **Bombyx (or Cossus)** ———.**5806. Cylo?** ———. (Nymphalidæ.)

Locality: Aix, France. Horizon: Ligurian.

1839. Boisduval. Ann. soc. ent. France, viii, bull. entom., 11-12.
 See also **Cylo sepulta**, etc.

5807. Cylo sepulta. (Nymphalidæ.)

Locality: Aix, France. Horizon: Ligurian.

1840. Boisduval. Ann. soc. ent. France, ix: 371-374. *Pl. 8.*
 1843. Serres. Actes linn. soc. Bord., xiii: 172. *Pl. 2 (med.?).*
 1851. Lefebvre. Ann. soc. ent. France, (2), ix: 71-88. *Pl. 3^u.*
 1851. Boisduval. Ann. soc. ent. France, (2), ix, bull. ent., 96-98.
 1851. Westwood. Doubleday-Westwood, Gen. diurn. Lepid., ii: 361.
 1854. Pictet. Traité de paléont., ii: 393. *Pl. 40, fig. 11.*
 1868. Butler. Catal. satyr. Brit. mus., 189-190.
 1874. Oustalet. La nature, iii: 36. *Fig.*

See also **Cylo** ———, **Nymphalis** ———, **Antirrhæa sepulta**, **Neorinopis sepulta**, **Papilio (Satyrus)** ———.

5808. Eugonia atava. (Nymphalidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1875. Scudder. Mem. Amer. assoc. adv. sc., i: 41-44. *Pl. 1, figs. 1, 3, 7.*
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 348.

See also **Sphinx atava**, etc.

5809. Junonia piuto. (Papilionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1873. Butler. Lepid. exot., 127-128. *Pl.* 48, *fig.* 7.

1873. " Geol. mag., x: 3-4. *Pl.* 1, *fig.* 7.

See also *Vanessa piuto*, etc.

5810. Jupiteria ———. (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Ann. rep. U. S. geol. surv. terr., xii: 280 (name only).

1885. " Zittel, Handb. palæont., i, th. ii: 811 (name only).

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 815 (name only).

1886. " Bull. U. S. geol. surv., No. 31: 95 (name only).

See also *Jupiteria charon*.

5811. Jupiteria charon. (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Scudder. Ann. rep. U. S. geol. surv., viii: 450-452. *Pl.* 52, *figs.* 14-15.

See also *Jupiteria* ———.

Lethites renesii. See *Lethites renesii*.**5812. Lethites renesii.** (Nymphalidæ.)

Locality: Aix, France. Horizon: Ligurian.

1875. Scudder. Mem. Amer. assoc. adv. sc., i: 37-40. *Pl.* 1, *figs.* 2, 5.

1877. Kirby. Synon. catal. dinrn. lepid., suppl., 699.

1885. Oppenheim. Berl. entom. zeitsehr., xxix: 346 (*renesii*).

See also *Satyrites renesii*.

5813. Lithopsyche ———. (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1883. Scudder. Ann. rep. U. S. geol. surv. terr., xii: 280 (name only).

1885. " Zittel, Handb. palæont., i, th. ii: 814 (name only).

1886. " Zittel-Barrois, *Traité de paléont.*, ii: 815 (name only).

1886. " Bull. U. S. geol. surv., No. 31: 95 (name only).

See also *Lithopsyche styx*.

5814. Lithopsyche antiqua. (Phalænidæ.)

Compared with *Calospira* spp., *Craspedosis*, *Præsos*.

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1889. Butler. Proc. zool. soc. Lond., 1889: 294. *Pl.* 31, *figs.* 3, 6.

5815. Lithopsyche styx (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Scudder. Ann. rep. U. S. geol. surv., viii: 454-457. *Pl.* 52, *figs.* 11, 16, 17.

See also *Lithopsyche* ———.

5816. Lithosia ———. (Bombycidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.

1879. " Geol. mag., (n. s.), v: 88.

5817. *Macroglossa* ——— (larva). (Sphingidæ.)Compared with *M. fuciformis*.

Locality: Oeningeu, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 69.

5818. *Mylothrites pluto*. (Papilionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1875. Scudder. Mem. Amer. assoc. adv. sc., i: 45-51. *Pl. 2, figs. 2, 7, 15 ?*, 17; *fig. 1* on p. 50.

1877. Kirby. Synon. catal. diurn. lepid., suppl., 793.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 348.

See also *Vanessa pluto*, etc.**5819. *Neorinopsis sepulta*. (Nymphalidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1873. Butler. Lepid. exot., 127. *Pl. 48, fig. 3*.1873. " Geol. mag., x: 3. *Pl. 1, fig. 3*.1875. Scudder. Mem. Amer. assoc. adv. sc., i: 14-33. *Pl. 1, figs. 8-17*.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 346.

See also *Cylo sepulta*, etc.**5820. *Nepticula fossilis* (mine). (Tineidæ.)**

Localities: Rott, Salzhausen, Germany. Horizon: Aquitanian.

1862. Heyden. Paleontogr., x: 77-78 (in leaf of *Juglans acuminata* Br.). *Pl. 10, fig. 2*.

1865. Heyd.-Heyd. Paleontogr., xiv: 35.

1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 813. *Fig. 1090*.1886. " Zittel-Barrois, Traité de paléont., ii: 815. *Fig. 1107*.**5821. *Noctuites deperditus*. (Noctuidæ.)**

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 30. *Pl. 2, fig. 8*.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 346.

5822. *Noctuites effusus*. (Noctuidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiär. Oeningeu, ii: 185-186 (*effusa*). *Pl. 14, fig. 10*.

1852. Giebel. Deutschl. petref., 644.

1856. " Insect. d. vorwelt, 190.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 348.

5823. *Noctuites haidingeri*. (Noctuidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiär. Oeningeu, ii: 185. *Pl. 14, fig. 9*.

1852. Giebel. Deutschl. petref., 644.

1856. " Insect. d. vorwelt, 190.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 348.

5824. *Noctuites incertissimus*. (Noctuidæ.)

Locality: Anvergne, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3, 158 (*incertissima*). *Pl. 1, fig. 18*.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 348-349.

5825. *Nymphalis* ? ———. (Nymphalidæ.)

Locality: Aix, France. Horizon: Ligurian.

1838. Duponchel. Ann. soc. ent. France, vii, bull. ent., 51-52.

See also *Cylo sepulta*, etc.**5826. *Nymphalis atava*.** (Nymphalidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1877. Kirby. Synon. catal. diurn. lepid., suppl., 733.

See also *Sphinx atava*, etc.**5827. *Nymphalis atavina*.** (Nymphalidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1872. Kirby. Synon. catal. diurn. lepid., 648 (*atovina*).See also *Sphinx atava*, etc.*Nymphalis atovina*. See *Nymphalis atavina*.**5828. *Nymphalites*** ———. (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Sendder. Butt. N. Engl., i: 758 (name only).

See also *Nymphalites obscurus*.**5829. *Nymphalites obscurus*.** (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Sendder. Ann. rep. U. S. geol. surv., viii: 457-459 (*obscurum*). Pl. 53, figs. 10-13.See also *Nymphalites* ———.**5830. *Oncerites macroceraticus*.** (Bombycidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 347. Pl. 12, fig. 15.

5831. *Pamphilites abditus*. (Hesperidæ.)

Locality: Aix, France. Horizon: Ligurian.

1875. Sendder. Mem. Amer. assoc. adv. sc., i: 68-69 (*abditus*). Pl. 3, figs. 14, 17, 18.

1877. Kirby. Synon. catal. diurn. lepid., suppl., 828.

1885. Oppenheim. Berl. entom. zeitschr., xxix: 346.

5832. *Papilio (Satyrus)* ———. (Nymphalidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 230.

See also *Cylo sepulta*, etc.**5833. *Phalæna* ?** ———. (Phalænidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

5834. *Phalæna geometra* (recent). (Phalænidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 180-183. Pl. 5, fig. 22.

5835. *Phalænites crenatus*. (Phalænidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 186-187 (*crenata*). *Pl. 14, fig. 11.*
 1852. Giebel. Deutschl. petref., 644.
 1856. " Insect. d. vorwelt, 190.
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 348.

5836. *Phalænites obsoletus*. (Phalænidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 187 (*obsoleta*). *Pl. 14, fig. 12.*
 1852. Giebel. Deutschl. petref., 644.
 1856. " Insect. d. vorwelt, 190-191.
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 348.

5837. *Phalænites proserpinæ*. (Phalænidæ.)

Locality: Aix, France. Horizon: Ligurian.

1861. Heer. Saporta, Heer, Rech. climat pays tert., 153 (*undescrib.*).

5838. *Pierites freyeri*. (Papilionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 182-183. *Pl. 14, fig. 6.*
 1850. " Nouv. mém. soc. helv., xi: 182-183. *Pl. 14, fig. 6.*
 1852. Giebel. Deutschl. petref., 644.
 1856. " Insect. d. vorwelt, 187.
 1877. Kirby. Synon. catal. diurn. lepid., suppl., 806
 See also *Pontia freyeri*.

5839. *Pontia freyeri*. (Papilionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1875. Seudder. Mem. amer. assoc. adv. sc., i: 54-56. *Pl. 2, figs. 16, 18.*
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 348.
 See also *Pierites freyeri*.

5840. *Prodryas persephone*. (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1878. Seudder. Bull. U. S. geol. surv. terr., iv: 524-526.
 1880. Dawson. Chain of life, 149. *Fig. 131 on p. 150.*
 1885. Seudder. Zittel, Handb. palaeont., i, th. ii: 814. *Fig. 1092.*
 1886. " Zittel-Barrois, Traité de paléont., ii: 815. *Fig. 1109.*
 1889. " Butt. N. E., i: 758, 760. *Pl. 16, fig. 6.*
 1889. " Ann. rep. U. S. geol. surv., viii: 443-448. *Pl. 52, fig. 1-10.*
 1890. Lesley. Dict. foss. Penns., ii: 746. *Fig.*

5841. *Prolibythea vagabunda*. (Nymphalidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Seudder. Butt. N. E., i: 759 (name only).
 1889. " Ann. rep. U. S. geol. surv., viii: 465-467. *Pl. 53, figs. 4-9.*

5842. *Psecadia mortuella*. (Tineidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1890. Seudder. Tert. ins. N. A., 603. *Pl. 15, figs. 12, 17.*

Psyche pincella. See *Psyche pincela*.

5843. Psyche pineela. (Bombycidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärq. Oeningen, ii: 184-185. *Pl.* 14, *fig.* 8.
 1852. Giebel. Deutschl. petref., 644.
 1856. " Inseet. d. vorwelt, 189 (pincella).
 1865. Heer. Urwelt der Schweiz, 397.
 1872. " Monde prim. Suisse, 486.
 1876. " Prim. world Switz., ii: 56.
 1879. " Urwelt der Schweiz, 2^e anfl., 422.
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 349.

5844. Pyralites obscurus. (Pyralidæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 30. *Pl.* 2, *fig.* 6.
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 346.

Satyrites beynesii. See *Satyrites reynesii*.

5845. Satyrites incertus (larva). (Nymphalidæ.)

Locality: Aix, France. Horizon: Ligurian.

1876. Dandet. Rev. mag. zool., (3), iv: 415-424. *Pl.* 17, *figs.* 1-4.
 1876. " Petites nouv. entom., No. 145.
 1885. Oppenheim. Berl. entom. zeitschr., xxix: 346.
 1885. Seudder. Zittel, Handb. palaeont., i, th. ii: 814. *Fig.* 1091.
 1886. " Zittel-Barrois, Traité de paléont., ii: 815. *Fig.* 1108.

5846. Satyrites reynesii. (Nymphalidæ.)

Locality: Aix, France. Horizon: Ligurian.

1872. Seudder. Rev. mag. zool., 1871-'72: 66-72. *Pl.* 7.
 1872. " Descr. nouv. pap. foss., 1-7. *Pl.*
 1872. " Geol. mag., ix: 532-533. *Pl.* 13, *figs.* 2, 3.
 1872. " Descr. new foss. butt., 1-2. *Pl.*, *figs.* 2, 3.
 1873. Brodie. Distr. corr. foss. insects, 8-9 (beynesii).

See also *Lethites reynesii*.

Satyrus ———. See *Papilio* (*Satyrus*) ———.

5847. Sesia ———. (Sphingidæ.)

Compared with *S. brosimiformis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert. 230.

5848. Sesia ———. (Sphingidæ.)

Compared with *S. vespiformis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 230.

5849. Sphinx ———. (Sphingidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insekten im bernstein, 37.

5850. *Sphinx atava*. (Nymphalidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1843. Charpentier. *Verhandl. leop.-carol. deutsche akad.*, xx: 408-409. *Pl. 22, fig. 4.*

See also *Vanessa atavina*, *Nymphalis atavina*, *N. atava*, *Eugonia atava*.

5851. *Stolopsyche* ———. (Papilionidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Scudder. *Butt. N. Engl.*, i: 759 (name only).

See also *Stolopsyche libytheoides*.

5852. *Stolopsyche libytheoides*. (Papilionidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1889. Scudder. *Ann. rep. U. S. geol. surv.*, viii: 468. *Pl. 53, figs. 1-3.*

See also *Stolopsyche* ———.

5853. *Thaites ruminianus*. (Papilionidæ.)

Locality: Aix, France. Horizon: Ligurian.

1861. Saporta. *Heer, Rech. climat pays tert., trad. Gaudin*, 153 (*ruminiana*)
(without descr.).

1861. Heer. *Rech. climat pays tert., trad. Gaudin*, 205 (without descr.).

1872. Saporta. *Ann. sc. nat.*, (5), bot., xv: 343 (without descr.).

1872. " *Rev. flore gypses d'Aix*, i: 70 (without descr.).

1875. Scudder. *Mem. amer. assoc. adv. sc.*, i: 60-62. *Pl. 3, figs. 1, 3, 6-10.*

1877. Kirby. *Synon. catal. diurn. lepid., suppl.*, 809.

1879. Streeker. *Butt. moths in conn. agric.*, 19.

1885. Oppenheim. *Berl. entom. zeitschr.*, xxix: 346.

***Thanatites juvenalis*. See *Thanatites vetulus*.**

5854. *Thanatites vetulus*. (Hesperidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1875. Scudder. *Mem. Amer. assoc. adv. sc.*, i: 63 (*vetula*) (plate marked *Thanatites juvenalis* by error). *Pl. 3, figs. 12, 16.*

1877. Kirby. *Synon. catal. diurn. lepid., suppl.*, 835.

1885. Oppenheim. *Berl. entom. zeitschr.*, xxix: 347.

See also *Vanessa vetula*, *Araschnia vetula*.

5855. *Tinea* ———. (Tineidæ.)

Compared with *T. culmella* and *T. pellionella*.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. *Uebers. schles. gesellsch. vaterl. cult.*, 1834: 92.

5856. *Tinea* ———. (Tineidæ.)

Compared with *T. pellionella*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petrischule Danzig*, 1856: 29.

5857. *Tinea* ——— (larva). (Tineidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. *Progr. petrischule Danzig*, 1856: 29.

5858. *Tinea* ? — (pupa). (Tineidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrischule Danzig, 1856: 29.

5859. *Tinea antiqua*. (Tineidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. *Deliciae pragenses*, i: 199-200.**5860. *Tineites crystalli*.** (Tineidæ.)

Locality: Ufalei, Siberia. Horizon: "Bergkrystall."

1876. Kawall. Bull. soc. imp. nat. Mosc., 1876: 171-172.

5861. *Tortrix* —. (Tortricidæ.)Compared with *T. lecheana*, etc.

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

5862. *Triphæna* — (pupa). (Noctuidæ.)

Locality: Querey, France. Horizon: —.

1877. Gervais. Journ. de zool., vi: 68.

5863. *Vanessa atavina*. (Nymphalidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 177-179 (*atavina*). Pl. 14, fig. 3.

1850. " Nouv. mém. soc. helv., xi: 177-179. Pl. 14, fig. 3.

1852. Giebel. Deutschl. petref., 644.

1856. " Insect. d. vorwelt, 186.

1872. Kirby. Synon. catal. diurn. lepid., 185 (*atavina*).See also *Sphinx atava*, etc.***Vanessa atavina*.** See *Vanessa atavina*.***Vanessa attavina*.** See *Vanessa atavina*.**5864. *Vanessa pluto*.** (Papilionidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 179-182. Pl. 14, figs. 4, 5.

1850. " Nouv. mém. soc. helv., xi: 179-182. Pl. 14, figs. 4, 5.

1852. Giebel. Deutschl. petref., 644.

1851. Pictet. Traité de paléont., 2^e éd., ii: 393. Pl. 40, fig. 21.

1856. Giebel. Insect. d. vorwelt, 186-187.

1865. Lyell. Elem. geol., 6th ed., 243. Fig. 179.

See also *Argynnis pluto*, *Junonia pluto*, *Mylothrites pluto*.**5865. *Vanessa vetula*.** (Hesperidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 12-13. Pl. 1, fig. 10.

See also *Araschnia vetula*, *Thanatites vetulus*.**5866. *Ypsolophus insignis*.** (Tineidæ.)

Locality: Vicinity Bonn, Rhenish Prussia. Horizon: Aquitanian †

1837. Germar. Fauna insect. Europæ, xix: 20. Pl. 20.

1852. Giebel. Deutschl. petref., 644.

1856. " Insect. d. vorwelt, 191.

5867. Zygæna ———. (Bombycidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 230.

HYMENOPTERA.**5868.** ——— ———.

Locality: Rouffach, Alsatia. Horizon: Tongrien.

1881. Bleicher. Bull. soc. géol. France, (3), viii: 226.

5869. ——— ———.

Locality: Prussian amber. Horizon: Ligurian.

1841. Ehrenberg. Forriep., Neue notizen, xix: 120.

5870. ——— ———.

Locality: Sinigaglia, Italy. Horizon: Helvetian?

1842. Procaccini. Nuov. ann. sc. nat., vii: 449.

5871. ——— ———.

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. journ. geol. soc. Lond., xxxv: 344.

—————. See III, DIPTERA ——— ——— (Mycetophilidæ) Guérin.

5872. ——— ——— (several). (Andrenidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii, 280.

5873. ——— ———. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

5874. ——— ———. (Apidæ.)

Locality: Chiavon, Italy. Horizon: ———.

1881. Malfatti. Atti. soc. ital. sc. nat., xxiv: 98.

1881. " Bibl. ins. foss. ital., 10.

5875. ——— ——— (several). (Apidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5876. ——— ——— (several). (Braconidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5877. ——— ———. (Braconidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 607. Pl. 10, fig. 18.

5878. ———. (Braconidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Sendder. Tert. ins. N. A., 607-608. Pl. 10, fig. 28.

5879. ——— (several). (Chalcididæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Sendder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5880. ———. (Chrysididæ.)

Locality: Prussian amber. Horizon: Lignrian.

1856. Menge. Progr. petrishule Danzig, 1856: 26.

5881. ——— (several). (Chrysididæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Sendder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5882. ———. (Crabronidæ.)

Locality: Prussian amber. Horizon: Lignrian.

1856. Menge. Progr. petrishule Danzig, 1856: 25.

5883. ———. (Cynipidæ.)

Locality: Prussian amber. Horizon: Lignrian.

1856. Menge. Progr. petrishule Danzig, 1856: 25.

5884. ——— (several). (Cynipidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Sendder. Bull. U. S. geol. surv. terr., vi: 290.

1883. Sendder. Ann. rep. U. S. geol. surv. terr., xii: 280.

5885. ———. (Formicidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1885. Foerster. Tagebl. versamml. deutsch. naturf., lviii: 392 (ameisen).

1885. " Mitth. oberelsäss. tertiär., 7.

5886. ———. (Formicidæ.)

Locality: Nantucket amber. Horizon: ———.

1879. Goldsmith. Proc. acad. nat. sc. Phil., 1879: 207 (ants).

5887. ———. (Formicidæ.)

Locality: Prussian amber. Horizon: Lignrian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

5888. ———. (Formicidæ.)

Locality: Prussian amber. Horizon: Lignrian.

1819. Schweigger. Beobacht. naturh. reisen, 119. Pl. 8, figs. 70, 70ab.

5889. ——— (several). (Formicidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Sendder. Bull. U. S. geol. surv. terr., vi: 290.

1883. Sendder. Ann. rep. U. S. geol. surv. terr., xii: 280.

5890. ——— (several). (Formicidæ-Myrmicinæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5891. ———. (Ichneumonidæ.)Compared with *Bassus* (*Euceros*) *crassicornis* Grav.

Locality: Prussian amber. Horizon: Lignurian.

1832. Burmeister. Handb. entom., i: 636.

1836. " Man. entom., 577.

See also *Bassus* ——— Keferstein.**5892.** ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1856. Menge. Progr. petrischule Danzig, 1856: 24.

5893. ——— (several). (Ichneumonidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5894. ———. (Mutillidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1856. Menge. Progr. petrischule Danzig, 1856: 25.

————— (Myrmicidæ). See ——— (Formicinæ-Myrmicinæ).

5895. ——— (2 sp.). (Pompilidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5896. ——— (several). (Poneridæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5897. ———. (Proctotrupidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

5898. ———. (Proctotrupidæ.)

Locality: Sicilian amber. Horizon: ———.

1881. Malfatti. Atti acad. line., (3), trans., v: 82. Fig. 1 on p. 83.

5899. ———. (Pteromalidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1856. Menge. Progr. petrischule Danzig, 1856: 24-25.

5900. ———. (Sphegidae.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 26.

5901. ——— (several). (Sphegidae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5902: ¹ ——— (several). (Tenthredinidae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5903. ———. (Uroceridae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5904. ———. (Vespidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f. vi, iii: 278.

1886. " Hym. bernst., 1.

5905. ——— (several). (Vespidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

Acænites lividus. See *Acænitus lividus*.**5906. Acænitus lividus.** (Ichneumonidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 169-170. Pl. 13, fig. 14.

1852. Giebel. Deutschl. petref., 647.

1856. " Insect. d. vorwelt, 156-157 (*Acænites*).**5907. Agathis** ———. (Braconidae.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 229.

5908. Amblyteles ———. (Ichneumonidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 61.

5909. Ammophila ———. (Sphegidae.)

Locality: ———. Horizon: ———.

1846. Giebel. Paläozool, 280.

5910. Ammophila ———. (Sphegidae.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5911. *Ammophila amosa*. (Sphegidae.)Compared with *A. sabulosa*.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 387.
 1872. " Monde prim. Suisse, 473.
 1876. " Prim. world Switz., ii: 44.
 1879. " Urwelt der Schweiz, 2^e Aufl., 412.

5912. *Ammophila gigantea*. (Sphegidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 61 (undescried.).

5913. *Ammophila inferna*. (Sphegidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 387. Figs. 290a, b on p. 386.
 1872. " Monde prim. Suisse, 474. Figs. 290a, b.
 1876. " Prim. world Switz., ii, 45. Figs. 290a, b on p. 44.
 1879. " Urwelt der Schweiz, 2^e Aufl., 412. Figs. 332a, b.

5914. *Ammophila minima*. (Sphegidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 61 (undescried.).

5915. *Andrena* ———. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f. vi, iii: 278.
 1886. " Hym. bernst., 1.

5916. *Anomalon* ———. (Ichneumonidae.)Compared with *A. variegatum*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 229, 267.

5917. *Anomalon protogæum*. (Ichneumonidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 167-168. Pl. 13, fig. 12.
 1852. Giebel. Deutschl. petref., 647.
 1856. " Insect. d. vorwelt, 156.

5918. *Anomma rubella* (recent). (Formicidae.)

Locality: Prussian amber. Horizon: Ligurian.

- [1850. Savage. Proc. acad. nat. sc. Philad., 1850: 196.]
 1868. Smith. Quart. journ. sc., v: 184 (or an allied species). Pl., fig. 3.

5919. *Anthophora* ? ———. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi., iii: 278.
 1886. " Hym. bernst., 1.

5920. *Anthophora* ? ———. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 26.

5921. Anthophora effossa. (Apidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 76. *Pl.* 10, *fig.* 10.**5922. Anthophorites gaudryi.** (Apidæ.)Compared with *A. parietaria*.

Locality: Corent, France. Horizon: Aquitanian.

1870. Onstalet. Ann. sc. géol., ii, art. 3: 104-105. *Pl.* 2, *figs.* 11-13.1871. " Bibl. hautes études., sc. nat., iv, art. 7, 104-105. *Pl.* 2, *figs.* 11-13.**5923. Anthophorites longævus.** (Apidæ.)

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 5 (*longævus*).
Pl. 3, *figs.* 12, 13.1867. " Foss. hymen., 5. *Pl.* 3, *figs.* 12, 13.**5924. Anthophorites mellona.** (Apidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 97-98. *Pl.* 7, *fig.* 4.

1852. Giebel. Deutschl. petref., 645.

1856. " Insect. d. vorwelt, 183.

5925. Anthophorites thoracicus. (Apidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 6 (*thoracica*).
Pl. 3, *fig.* 14.1867. " Foss. hymen., 6. *Pl.* 3, *fig.* 14.**5926. Anthophorites titania.** (Apidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 99. *Pl.* 7, *fig.* 5.

1852. Giebel. Deutschl. petref., 645.

1856. " Insect. d. vorwelt, 183.

5927. Anthophorites tonsus. (Apidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 99-100 (*tonsa*). *Pl.* 7, *fig.* 6.

1852. Giebel. Deutschl. petref., 645.

1856. " Insect. d. vorwelt, 183-184.

5928. Anthophorites veteranus. (Apidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 100 (*veterana*). *Pl.* 7, *fig.* 7.

1852. Giebel. Deutschl. petref., 645.

1856. " Insect. d. vorwelt, 184.

5929. Aphaenogaster berendti. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 82. *Pl.* 4, *figs.* 78-79.

5930. *Aphænogaster fuliginosa.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57 (*fulingiosa*).
 1867. " Stud. Rad. form., 11.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 42 (says it can not be an *Aphænogaster*).
 1867. " Foss. hymen., 42.
 See also *Ponera fuliginosa*, etc.

Aphænogaster fulingiosa.* See *Aphænogaster fuliginosa.**5931. *Aphænogaster livida.* (Formicidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57 (quotes Heer's sp. as "*Ponera*" *livida*).
 1867. " Stud. Rad. form., 11.
 See also *Poneropsis livida*.

5932. *Aphænogaster longæva.* (Formicidæ.)Compared with *A. berendti* Mayr.

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Sendder. Rep. geol. surv. Can., 1875-'76: 267.
 1877. " Ins. tert. Quesn., 2.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 295-296.
 1890. " Tert. ins. N. A., 615. Pl. 3, fig. 28.

5933. *Aphænogaster lugubris.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57.
 1867. " Stud. Rad. form., 11.
 See also *Poneropsis lugubris*, etc.

5934. *Aphænogaster sommerfeldti.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 81-82. Pl. 4, fig. 76-77.

5935. *Apiaria dubia.* (Apidæ.)

Locality: Orsberg, (Rhenish Prussia?). Horizon: Miocene.

1849. Germar. Zeitschr. deutsch. geol. gesellsch., i: 66. Pl. 2, fig. 8.
 See also *Osmia dubia*.

5936. *Apis adamitica.* (Apidæ.)Compared with *A. mellifica* L.

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 386. Fig. 287.
 1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 4. Pl. 3, fig. 11.
 1867. " Foss. hymen., 4. Pl. 3, fig. 11.
 1872. " Monde prim. Suisse, 473. Fig. 287 on p. 474.
 1876. " Prim. world Switz., ii: 43. Fig. 287 on p. 44.
 1879. " Urwelt der Schweiz, 2^e aull., 412. Fig. 329.

5937. *Apis dormitans.* (Apidae.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 76-77. Pl. 10, fig. 8.

5938. *Apis proava.* (Apidae.)

Compared with *A. mellifica.*

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 26-27.

5939. *Ascogaster* ———. (Braconidae.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

5940. *Attopsis* ——— (several). (Formicidae.)

Locality: Bruunstatt, Alsatia. Horizon: Middle Oligocene.

1888. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 164.

1889. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

5941. *Attopsis anthracina.* (Formicidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 156-157. Pl. 12, fig. 12.

1852. Giebel. Deutschl. petref., 646.

1856. " Insect. d. vorwelt, 177.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 29.

1867. " Foss. hymen., 29.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 58.

1867. " Stud. Rad. form., 12.

5942. *Attopsis longipennis.* (Formicidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 155-156. Pl. 12, fig. 11.

1852. Giebel. Deutschl. petref., 646.

1854. Pictet. Traité de paléont., 2^e éd., ii: 383. Pl. 40, fig. 22.

1853-56. Bronn. Lethæa geogn., 3^e aufl., iii: 646-647. Pl. 42', figs. 23ab.

1856. Giebel. Insect. d. vorwelt, 177.

5943. *Attopsis longipes.* (Formicidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 29-30. Pl. 2, figs. 15, 15b.

1867. " Foss. hymen., 29-30. Pl. 2, figs. 15, 15b.

5944. *Attopsis nigra.* (Formicidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 157-158. Pl. 12, fig. 13.

1852. Giebel. Deutschl. petref., 646.

1856. " Insect. d. vorwelt, 177-178.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 29, 42.

1867. " Foss. hymen., 29, 42.

See also *Catantacus niger.*

5945. Bassus ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1834. Keferstein. Naturg. erdkörp., ii: 332 (as of Burmeister, but erroneously. Burmeister, Handb., i: 636, only says an Ichneumon like *Bassus*, etc.).

See also ——— (Ichneumonidæ) Burm.

5946. Bombus ———. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.
1886. " Hym. bernst., 1.

5947. Bombus ———. (Apidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.
1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

5948. Bombus abavus. (Apidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 5. *Pl. 3, figs. 9, 10.*
1867. " Foss. hymen., 5. *Pl. 3, figs. 9, 10.*

5949. Bombus antiquus. (Apidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1859. Heyden. Palaeontogr., viii: 12. *Pl. 2, fig. 4.*

5950. Bombus carbonarius. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 27.

5951. Bombus crassipes. (Apidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. akad. wiss. Wien, lxxvi: 92. *Pl. 3, fig. 4.*
1877. " Fauna egerer tertiärb., 22. *Pl. 3, fig. 4.*

5952. Bombus grandævus. (Apidæ.)

Localities: Radoboj, Croatia; Oeningen, Baden. Horizons: Mayencian, Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 96-97. *Pl. 7, fig. 3.*
1852. Giebel. Deutschl. petref., 645.
1856. " Insect. d. vorwelt, 182-183.
1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 5. *Pl. 3, figs. 6, 7.*
1867. " Foss. hymen., 5. *Pl. 3, figs. 6, 7.*

5953. Bombus jurinei (Apidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 386. *Fig. 296.*
1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 4-5. *Pl. 3, fig. 8.*
1867. " Foss. hymen., 4-5. *Pl. 3, fig. 8.*
1872. " Monde prim. Suisse, 473. *Fig. 296 on p. 474.*
1876. " Prim. world Switz., ii: 43. *Fig. 296 on p. 44.*
1879. " Urwelt der Schweiz, 2^e ancl., 411. *Fig. 338 on p. 412.*

5954. *Bombus pusillus*. (Apidae.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 27.

5955. *Bombusoides mengei*. (Apidae.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Motschulsky. Étud. entom., v: 28.

5956. *Brachygaster* ———. (Evaniidæ.)Compared with *B. minor*.

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

5957. *Bracon* ———. (Braconidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5958. *Bracon* ———. (Braconidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

5959. *Bracon* ———. (Braconidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1838: 170.

5960. *Bracon* ———. (Braconidæ.)

Locality: Aix, France. Horizon: Ligurian.

1854. Pictet. Traité de paléont., 2^e éd., ii: 382 (vide Serres MS.).**5961. *Bracon* ———. (Braconidæ.)**

Locality: Similkameen River, British Columbia. Horizon: ———.

1879. Scudder. Rep. progr. geol. surv. Can., 1877-78: B 177.

1879. " Ins. tert. Nicola, 2.

1890. " Tert. ins. N. A., 607. Pl. 3, fig. 33.

5962. *Bracon laminarum*. (Braconidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 748.

1890. " Tert. ins. N. A., 606-607. Pl. 10, fig. 29.

5963. *Bracon macrostigma*. (Braconidæ.)

Locality: Sieblos, Rhenish Prussia. Horizon: Aquitanian.

1858. Heyden. Palaontogr., v: 119. Pl. 23, fig. 18.

5964. *Bradoponera meieri*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 74-75. Pl. 4, figs. 70-71.

5965. Calyptites antediluvianus. (Braconidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-'76: 270 (antediluvianum).
 1877. " Ins. tert. Quesn., 5.
 1877. " Rapp. opér. comm. géol. Can., 1875-'76: 299.
 1885. " Zittel, Handb. palæont., i, th. ii: 817. Fig. 1100.
 1886. " Zittel-Barrois, Traité de paléont., ii: 819. Fig. 1117.
 1890. " Tert. ins. N. A., 606. Pl. 3, fig. 32.

5966. Camponotus ——— (3 sp.). (Formicidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

5967. Camponotus ———. (Formicidæ.)

Locality: Gurnet Bay, Isle of Wight. Horizon: Bembridge Limestone.

1879. Woodward. Quart. Journ. geol. soc. Lond., xxxv: 344.
 1879. " Geol. mag., (n. s.), v: 89.

5968. Camponotus constrictus. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 29-30. Pl. 1, fig. 11.

5969. Camponotus heraclea. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 52.
 1867. " Stud. Rad. form., 6.

See also *Formica heraclea*, etc.

5970. Camponotus igneus. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 28-29. Pl. 1, figs. 9-10.

5971. Camponotus induratus. (Formicidæ.)

Compared with *C. variegatus* Sm.

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 52.
 1867. " Stud. Rad. form., 6.

See also *Formica indurata*.

5972. Camponotus lignitum. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 51-52.
 1867. " Stud. Rad. form., 5-6.

See also *Formica heraclea*, etc.

5973. Camponotus mengel. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 27-28. Pl. 1, figs. 1, 8.

5974. *Camponotus pinguiculus radobojanus.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 52.

1867. " Stud. Rad. form., 6.

See also *Formica pinguicula*, etc.**5975. *Camponotus pinguis radobojanus.* (Formicidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 51.

1867. " Stud. Rad. form., 5.

See also *Formica pinguis*, etc.***Camponotus radobojanus.* See *Camponotus pinguiculus radobojanus*, *Camponotus pinguis radobojanus*.****5976. *Camponotus vetus.* (Formicidæ.)**

Locality: White River, Colorado or Utah. Horizon: Oligocene.

1877. Scudder. Bnl. U. S. geol. surv. terr., iii: 742.

1890. " Tert. ins. N. A., 619. *Pl. 5, figs. 1, 2.*See also *Formica* ——— Scudder.***Campoplex* ———. See *Ophion* (or *Campoplex*) ——— *Sordelli*.****5977. *Cataulacus niger.* (Formicidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 58.

1867. " Stud. Rad. form., 12.

1867. Heer. Nene denksehr. schweiz. gesellsch., xxii, mem. 4: 42.

1867. " Foss. hymen., 42.

See also *Attopsis nigra*.**5978. *Cemonus* ———. (Crabronidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

5979. *Cephites fragilis.* (Tenthredinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 174-175. *Pl. 14, fig. 1.*

1852. Giebel. Deutschl. petref., 647.

1854. Pictet. *Traité de paléont.*, 2^e éd., ii: 381. *Pl. 40, fig. 20.*1856. Giebel. *Insect. d. vorwelt*, 153.1885. Scudder. *Zittel, Handb. palaeont.*, i, th. ii: 816. *Fig. 1096.*1886. " *Zittel-Barrois, Traité de paléont.*, ii: 818. *Fig. 1113.***5980. *Cephites oeningensis.* (Tenthredinidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. *Insektenf. tertiärg. Oeningen*, ii: 173-174. *Pl. 13, fig. 17.*1852. Giebel. *Deutschl. petref.*, 647.1856. " *Insect. d. vorwelt*, 152.

5981. Cephus ———. (Tenthredinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge.

Progr. petriscule Danzig, 1856: 24.

5982. Ceraphron ———. (Proctotrupidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister.

Oken, Isis, 1831: 1100.

5983. Cerceris? ———. (Crabronidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke.

Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. “

Hym. bernst., 1.

5984. Chalcites debilis. (Chalcididæ.)

Locality: Aix, France. Horizon: Ligurian.

1856. Heer.

Viert. naturf. gesellsch. Zürich, i: 29-30. *Pl.* 2, *fig.* 16.

1885. Seudder.

Zittel, Handb. palaeont., i, th. ii: 816. *Fig.* 1098.

1886. “

Zittel-Barrois, *Traité de paléont.*, ii: 818. *Fig.* 1115.**5985. Chalicodoma** ———. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke.

Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 273.

1886. “

Hym. bernst., 1.

5986. Chelonus ———. (Braconidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke.

Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

5987. Chelonus ———. (Braconidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst.

Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

5988. Chrysis ———. (Chrysididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke.

Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. “

Hym. bernst., 1.

5989. Chrysis ———. (Chrysididæ.)

Locality: Brunnstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster.

In litt.

5990. Chrysis ———. (Chrysididæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Seudder.

Bull. U. S. geol. surv. terr., vi: 291.

1883. “

Ann. rep. U. S. geol. surv. terr., xii: 280.

5991. Chrysis cyanea. (Chrysididæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch.

Beschäft. berl. gesellsch. naturf. freunde, ii: 187-188.

5992. *Chrysis viridicyanea*. (Chrysididæ.)Compared with *C. distinctissima*.

Locality: Prussian amber. Horizon: Ligurian.

1862. Giebel. Zeitschr. ges. naturw., xx: 319-320.

5993. *Cimbex* ——— (larva). (Tenthredinidæ.)Compared with *C. variabilis*.

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 24.

5994. *Cleptes* ———. (Chrysididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

5995. *Cleptes steenstrupii*. (Chrysididæ.)

Locality: Jutland. Horizon: (Pliocene?)

1836. Beck. Proc. geol. soc. Lond., ii: 219 (undescribed) (*Cleptis stenstrupii*).

1836. " Lond. Edinb. phil. mag., (3), viii: 555 (undescribed).

Cleptis stenstrupii. See *Cleptes steenstrupii*.*Crematogaster pusilla*. See *Myrmica pusilla*.**5996. *Crossocerus* ———. (Crabronidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

5997. *Cryptus* ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

5998. *Cryptus* ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

5999. *Cryptus* ———. (Ichneumonidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schüberlin. Soc. entom., iii: 61.

6000. *Cryptus* ———. (Ichneumonidæ.)Compared with *C. rosæ*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 229.

6001. *Cryptus antiquus*. (Ichneumonidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 168-169. Pl. 13, fig. 13.

1852. Giebel. Deutschl. petref., 647.

1856. " Insect. d. vorwelt, 155.

6002. *Cynips* ? ———. (Cynipidæ.)

Locality: Salzhausen, Germany. Horizon: Miocene.

1865. Heyd.-Heyd. Palaeontogr., xiv: 35 (or *Pteromalus*?). (Holes in *Juglans acuminata* Br.).

See also *Pteromalus* ——— Heyden.

6003. *Cynips* ———. (Cynipidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1820. Schlotheim. Petrefactenk., 43.

6004. *Cynips succinea*. (Cynipidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 195.

6005. *Dasyпода* (vic.) ———. (Andrenidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 26.

6006. *Decatoma antiqua*. (Chalcididæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 749.

1890. " Tert. ins. N. A., 604-605. Pl. 10, figs. 20, 31.

6007. *Didineis solidescens*. (Sphegidæ.)

Compared with *D. lunicornis* (Fabr.).

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 620. Pl. 10, fig. 30.

6008. *Diplolepis* ———. (Cynipidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

6009. *Dolerus* ———. (Tenthredinidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

6010. *Dolerus* ———. (Tenthredinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 61.

6011. *Eclytus lutatus*. (Ichneumonidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 614. Pl. 10, fig. 24.

6012. *Ectatomma europæum*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 76-77. Pl. 4, figs. 72, 73.

6013. *Emphytus* ———. (Tenthredinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 24.

6014. Enneamerus reticulatus. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1863. Mayr. Ameis. balt. bernst., 100. *Pl. 5, figs. 102, 103.***6015. Evania** ———. (Evantiidæ.)Compared with *E. minuta* Fabr.

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. " Handb. ent., i: 636.

1836. " Man. ent., 577.

6016. Formica ———. (Formicidæ.)

Locality: Thalheim (or Sotzka?), Austria. Horizon: ———.

1855. Andrae. Foss. flora Siebenb., 26. *Pl. 4, figs. 6ab, 8b.***6017. Formica** ———. (Formicidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 183. *Pl. 5, fig. 23.***6018. Formica** ———. (Formicidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 188-189.

6019. Formica ———. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

1832. " Handb. ent., i: 636.

1836. " Man. ent., 577.

6020. Formica ———. (Formicidæ.)

Locality: Gabbro, Italy. Horizon: Tripoli earth.

1878. Capellini. Atti acad. line., (3), mem. sc. fis., ii: 285.

6021. Formica ———. (Formicidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

6022. Formica ——— (several). (Formicidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1838. Foerster. Mitth. comm. geol. Elsass-Lothr., i: 164.

1839. " Mitth. comm. geol. Elsass-Lothr., ii: 103.

6023. Formica ———. (Formicidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1838: 170. *Pl. 1, fig. 9.*See also *Pseudomyrme* ——— Scudder, etc.**6024. Formica** ———. (Formicidæ.)

Locality: Sicilian amber. Horizon: ———.

1838. Guérin. Rev. zool., 1838: 170. *Pl. 1, fig. 10.*See also *Pseudomyrme* ——— Scudder, etc.

- 6025. Formica** ——. (Formicidæ.)
 Locality: Sicilian amber. Horizon: ——. Rev. zool., 1838: 170. *Pl. 1, fig. 11.*
1838. Guérin.
- 6026. Formica** ——. (Formicidæ.)
 Locality: Sicilian amber. Horizon: ——. Rev. zool., 1838: 170. *Pl. 1, fig. 12.*
1838. Guérin.
- 6027. Formica** ——. (Formicidæ.)
 Locality: Rott, Rhenish Prussia. Horizon: Aquitanian. Palaeontogr., viii: 12. *Pl. 2, fig. 11.*
1859. Heyden.
- 6028. Formica** ——. (Formicidæ.)
 Locality: Prussian amber. Horizon: Ligurian. Progr. petrischule Danzig, 1856: 25.
1856. Menge.
- 6029. Formica** ——. (Formicidæ.)
 Locality: Prussian amber. Horizon: Ligurian. Petrefactenk., 43.
1820. Schlotheim.
- 6030. Formica** ——. (Formicidæ.)
 Locality: Green River, Wyo. Horizon: Oligocene. Proc. Bost. soc. nat. hist., xi: 117.
1867. Sessler.
 See also *Camponotus vetus*.
- 6031. Formica** ——. (Formicidæ.)
 Locality: Prussian amber. Horizon: Ligurian. Hist. succ., 126-127. *Pl. 4, figs. 18-21.*
1742. Sendel.
1825. Guérin. *Diet. class. d'hist. nat.*, viii: 580 (fourmi).
1829. Serres. *Géogn. terrains tert.*, 242.
- 6032. Formica** ——. (Formicidæ.)
 Compared with *F. subterranea*.
 Locality: Aix, France. Horizon: Ligurian. *Géogn. terrains tert.*, 230.
1829. Serres.
- 6033. Formica** ——. (Formicidæ.)
 Locality: Garnet Bay, Isle of Wight. Horizon: Bembridge Limestone. Quart. Journ. Geol. Soc. Lond., xxxv: 344.
1879. Woodward.
 Geol. Mag., n. s., v: 89.
1879. “
- 6034. Formica acuminata.** (Formicidæ.)
 Locality: Radoboj, Croatia. Horizon: Mayencian. Insektenf. tertiärg. Oeningen, ii: 142. *Pl. 11, figs. 13, 14g.*
1849. Heer.
 Deut. petref., 646.
1852. Giebel.
 Insect. d. vorwelt, 172.
1856. “
 Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 17. *Pl. 1, fig. 17b.*
1867. Heer.
 Foss. hymen., 17. *Pl. 1, fig. 17b.*
1867. “
 Jahrb. k.-k. geol. reichsanst., xvii: 56.
1867. Mayr.
 Stud. Rad. form., 10.
1867. “

6035. Formica æmula. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 18. *Pl. 1, figs. 19, 19b.*
 1867. " Foss. hymen., 18. *Pl. 1, figs. 19, 19b.*
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 56.
 1867. " Stud. Rad. form., 10.

6036. Formica arcana. (Formicidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-76: 266-267.
 1877. " Ins. tert. Quesn., 1-2.
 1877. " Rapp. opér. comm. géol. Can., 1875-76: 294-295.
 1890. " Tert. ins. N. A., 618. *Pl. 3, fig. 24.*

6037. Formica atavina. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 143-144. *Pl. 11, fig. 10.*
 1852. Giebel. Deutschl. petref., 646 (atavina).
 1856. " Insect. d. vorwelt, 172-173.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 18.
 1867. " Foss. hymen., 18.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 56.
 1867. " Stud. Rad. form., 10.

Formica attavina. See *Formica atavina*.**6038. Formica buphthalma.** (Formicidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. akad. wiss. Wien, lxxvi: 91-92. *Pl. 3, fig. 2.*
 1877. " Fauna egerer tertiärb., 21-22. *Pl. 3, fig. 2.*

6039. Formica capito. (Formicidæ.)

Localities: Aix, France; Radoboj, Croatia. Horizons: Lignurian, Mayencian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 29.
 1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 14-15. *Pl. 1, figs. 13, 13b.*
 1867. " Foss. hymen., 14-15. *Pl. 1, figs. 13, 13b.*

6040. Formica cephalica. (Formicidæ.)

Locality: Prussian amber. Horizon: Lignurian.

1831. Burmeister. Oken, Isis, 1831: 1100.

6041. Formica cordata. (Formicidæ.)

Locality: Copal. Horizon: Recent.

1819. Schweigger. Beobacht. naturh. reisen, 119. *Pl. 8, figs. 70, 70a, b.*
 1829. Holl. Handb. d. petref., 140.
 1856. Giebel. Insect. d. vorwelt, 173.

6042. Formica demersa. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 140-141. *Pl. 11, fig. 7.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 171.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 16. *Pl. 1, fig. 16.*
 1867. " Foss. hymen., 16. *Pl. 1, fig. 16.*

6043. Formica flori. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 48-50. *Pl. 2, figs. 35-37.*

6044. Formica fragilis. (Formicidæ.)Compared with *F. longicornis* Latr., Africa.

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 8-9. *Pl. 1, figs. 4, 4b, 5ab.*
 1867. " Foss. hymen., 8-9. *Pl. 1, figs. 4, 4b, 5ab.*
 See also *Lasius fragilis*:

6045. Formica freyeri. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 10-11. *Pl. 1, fig. 9.*
 1867. " Foss. hymen., 10-11. *Pl. 1, fig. 9.*
 See also *Lonchomyrmex freyeri*.

6046. Formica gibbosa. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 197-198.

6047. Formica globiventris. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 131-132. *Pl. 9, fig. 13.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 169.

6048. Formica globularis. (Formicidæ.)

Localities: Radoboj, Croatia; Gabbro, Italy. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 131. *Pl. 10, fig. 3.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 163.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 14.
 1867. " Foss. hymen., 14.
 1878. Capellini. Atti accad. line., (3), mem. sc. fis., ii: 285.
 See also *Lasius globularis*, *Liometopum antiquum*.

6049. Formica gracilis. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 7-8. *Pl. 1, fig. 3ab.*
 1867. " Foss. hymen., 7-8. *Pl. 1, fig. 3ab.*

6050. *Formica grvida.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 114-115. *Pl. 9, fig. 1.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 163.

6051. *Formica heraclea.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 116-118. *Pl. 11, fig. 3.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 164.
 1865. Heer. Urwelt der Schweiz, 386, expl. fig. 292 (= *F. lignitum*).
 1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 9-10. *Pl. 1, fig. 7.*
 1867. " Foss. hymen., 9-10 (see note about pl. 11, fig. 15c). *Pl. 1, fig. 7.*
 See also *Formica lignitum*, *Camponotus heraclea*, *Camponotus lignitum*.

6052. *Formica inhoffii.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 138. *Pl. 10, fig. 10.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 170-171.
 See also *Liometopum inhoffii*, etc.

6053. *Formica immcrsa.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 122-123. *Pl. 9, fig. 5.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 166.

6054. *Formica indurata.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 116. *Pl. 11, fig. 2.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 164.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 9. *Pl. 1, figs. Gab.*
 1867. " Foss. hymen., 9. *Pl. 1, figs. Gab.*
 See also *Camponotus induratus*.

6055. *Formica kollari.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 15. *Pl. 1, figs. 14, 14b.*
 1867. " Foss. hymen., 15. *Pl. 1, figs. 14, 14b.*

6056. *Formica lavateri.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 127. *Pl. 9, fig. 11.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 167.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 11. *Pl. 1, fig. 10a.*
 1867. " Foss. hymen., 11. *Pl. 1, fig. 10a.*
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 53.
 1867. " Stud. Rad. form., 7.

See also *Formica lavateri major*, F. obtecta.

6057. *Formica lavateri major.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 11. *Pl. 1, fig. 10b.*
 1867. " Foss. hymen., 11. *Pl. 1, fig. 10b.*

See also *Formica lavateri*, etc.

6058. *Formica lignitum.* (Formicidæ.)

Compared with F. hereuleana L.

Localities: Oeningen, Baden; vicinity Bonn, Rhenish Prussia. Horizons: Tortonian, Aquitanian?.

1837. Germar. Fauna insect. Europæ, xix: 19. *Pl. 19.*
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 112-114. *Pl. 8, fig. 6.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 163.
 1865. Lyell. Elem. geol., 6th ed., 250. *Fig. 181c on p. 249.*
 1865. Heer. Urwelt der Schweiz, 360, 387, 470. *Figs. 292a-c on p. 386.*
 1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 7. *Pl. 1, figs. 2ab.*
 1867. " Foss. hymen., 7. *Pl. 1, figs. 2ab.*
 1872. " Monde prim. Suisse, 442, 475, 573. *Figs. 292a-c on p. 474.*
 1876. " Prim. world Switz., ii: 14, 45, 131. *Figs. 292a-b on p. 44.*
 1879. " Urwelt der Schweiz, 2^e aull., 386, 413, 497. *Fig. 334 on p. 412.*

See also *Formica heraclea*, etc.

6059. *Formica longæva.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 132. *Pl. 10, fig. 4.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 169.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 14.
 1867. " Foss. hymen., 14.

See also *Lasius longævus*.

6060. *Formica longicollis.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 115-116. *Pl. 11, fig. 1.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 164.

6061. *Formica longipennis.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 136. *Pl. 10, fig. 7.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 170.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 55.
 1867. " Stud. Rad. form., 9.

6062. *Formica longiventris.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 123. *Pl. 9, fig. 6.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 166.

6063. *Formica lucida.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 163-164.

6064. *Formica luteola.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 197.

6065. *Formica macrocephala.* (Formicidæ.)

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 125-127. *Pl. 9, fig. 10.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 167.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 12-13. *Pl. 1, fig. 11.*
 1867. " Foss. hymen., 12-13. *Pl. 1, fig. 11.*
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 53.
 1867. " Stud. Rad. form., 7.

See also *Formica macrocephala oeningensis*, *F. macrocephala radobojana*.**6066. *Formica macrocephala oeningensis.* (Formicidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 126. *Pl. 9, fig. 10c.*
 See also *Formica macrocephala*, etc.

6067. *Formica macrocephala radobojana.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen., ii: 126-127. *Pl. 9, fig. 10ab.*
 See also *Formica macrocephala*, etc.

6068. *Formica macrognatha.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 198-199.

6069. *Formica macrophthalma.* (Formicidæ.)

Localities: Oeningen, Baden; Sinigallia, Italy. Horizons: Tortonian, Helvetian.

1849. Heer. Insektenf. tertiärg. Oeningen., ii: 124-125. *Pl. 9, fig. 8.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 166.
 1859. Scarabelli. Mass.-Scarab., Flora foss. Senig., 25.

Formica major. See *Formica lavateri major*.**6070. *Formica minutula.* (Formicidæ.)**

Localities: Radoboj, Croatia; Aix, France. Horizons: Mayencian, Ligurian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 136. *Pl. 10, fig. 8.*
 1852. Giebel. Deutschl. petref., 646.

1856. Giebel. Insect. d. vorwelt, 170.
 1856. Heer. Viert. naturf. gesellsch. Zürich, i: 28. *Pl. 2, fig. 2b.*
 1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 16. *Pl. 1, fig. 15.*
 1867. " Foss. hymen., 16. *Pl. 1, fig. 15.*
 See also *Lasius minutulus*.

6071. *Formica nigra*. (Formicidæ.)

- Localities: Copal (Bloch), Prussian amber (Presl). Horizons: Recent, Ligurian.
 1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 168. *Pl. 3, fig. 6.*
 1822. Presl. Del. prag., i: 196.

6072. *Formica obesa*. (Formicidæ.)

- Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 108-110. *Pl. 8, fig. 1.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 162.
 1865. Heer. Urwelt der Schweiz, 360.
 1872. " Monde prim. Suisse, 442.
 1876. " Prim. world Switz., ii: 14.
 1879. " Urwelt der Schweiz, 2^e anfl., 386.
 See also *Formica obesa radobojana*, *F. obesa oeningensis*, *Æcophylla obesa radobojana*, *Myrmica pusilla*.

6073. *Formica obesa oeningensis*. (Formicidæ.)

- Locality: Oeningen, Baden. Horizon: Tortonian.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 110. *Pl. 8, figs. 2ab.*
 See also *Formica obesa*, etc.

6074. *Formica obesa radobojana*. (Formicidæ.)

- Locality: Radoboj, Croatia. Horizon: Mayencian.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 108-109. *Pl. 8, figs. 1a-c.*
 See also *Formica obesa*, etc.

6075. *Formica oblita*. (Formicidæ.)

- Locality: Radoboj, Croatia. Horizon: Mayencian.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxiii, mem. 4: 12, 13-14. *Pl. 1, figs. 12, 12b.*
 1867. " Foss. hymen., 12, 13-14. *Pl. 1, figs. 12, 12b.*
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 56.
 1867. " Stud. Rad. form., 10.

6076. *Formica obliterata*. (Formicidæ.)

- Locality: Radoboj, Croatia. Horizon: Mayencian.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 144-145. *Pl. 11, figs. 11c, 12.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 173.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 18.
 1867. " Foss. hymen., 18.
 See also *Lasius obliteratus*.

6077. Formica obscura. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 119-120. *Pl. 9, fig. 2.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 165.

See also *Lasius obscurus*.**6078. Formica obtecta.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 123-124. *Pl. 9, fig. 7.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 166.
 1867. Heer. Foss. hymen., 11 (= *F. lavateri*).

See also *Formica lavateri*, etc.**6079. Formica obvoluta.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 141-142. *Pl. 10, fig. 9f.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 172.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 16-17. *Pl. 1, fig. 17a.*
 1867. " Foss. hymen., 16-17. *Pl. 1, fig. 17a.*
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 56.
 1867. " Stud. Rad. form., 10.

6080. Formica occultata. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 134-135. *Pl. 10, fig. 6; pl. 11, fig. 11.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 169-170.
 1858. Heer. Bull. séances soc. vaud. sc. nat., v: 150.
 1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 15-16. *Pl. 3, fig. 15b.*
 1867. " Foss. hymen., 15-16. *Pl. 3, fig. 15b.*

See also *Formica occultata parschlugiana*, *Lasius occultatus*, *Hypoelina haueri*.**6081. Formica occultata parschlugiana.** (Formicidæ.)

Locality: Parschlug, Styria. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 135. *Pl. 10, fig. 6e.*

See also *Formica occultata*, etc.**6082. Formica ocella.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 133-134. *Pl. 10, fig. 5; pl. 11, fig. 14.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 169.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 54.
 1867. " Stud. Rad. form., 8.

6083. Formica oculata. (Formicidæ.)

- Localities: Radoboj, Croatia; Aix, France. Horizons: Mayencian, Ligurian.
1849. Heer. Insektenf. tertiärg. Oeningen, ii: 143. *Pl. 10, fig. 9d.*
 1852. Giebel. Deutshl. petref., 646.
 1856. " Insect. d. vorwelt, 172.
 1856. Heer. Viert. naturf. gesellsch. Zürich, i: 23.
 1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 17-18. *Pl. 1, fig. 18.*
 1867. " Foss. hymen., 17-18. *Pl. 1, fig. 18.*
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 56.
 1867. " Stud. Rad. form., 10.

Formica œningensis. See *Formica macrocephala œningensis*, *Formica obesa œningensis*, *Formica pinguicula œningensis*, *Formica pinguis œningensis*.

6084. Formica ophthalmica. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 125. *Pl. 9, fig. 9.*
 1852. Giebel. Deutshl. petref., 645.
 1856. " Insect. d. vorwelt, 167.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 11-12.
 1867. " Foss. hymen., 11-12.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 52-53.
 1867. " Stud. Rad. form., 6-7.

6085. Formica orbata. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 141. *Pl. 11, fig. 8.*
 1852. Giebel. Deutshl. petref., 646.
 1856. Giebel. Insect. d. vorwelt, 171.

Formica parschlugiana. See *Formica occultata parschlugiana*.

6086. Formica parvula. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 196-197.

6087. Formica pinguicula. (Formicidæ.)

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 118-119. *Pl. 11, figs. 4, 9.*
 1852. Giebel. Deutshl. petref., 645.
 1856. " Insect. d. vorwelt, 165.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 10. *Pl. 1, fig. 8.*
 1867. " Foss. hymen., 10. *Pl. 1, fig. 8.*

See also *Formica pinguicula œningensis*, *F. pinguicula radobojana*, *Camponotus pinguiculus radobojanus*.

6088. Formica pinguicula œningensis. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 118. *Pl. 11, fig. 4.*
 See also *Formica pinguicula*, etc.

6089. Formica pinguicula radobojana. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 118-119. *Pl. 9, fig. 9b.*
See also *Formica pinguicula*, etc.

6090. Formica pinguis. (Formicidæ.)Compared with *F. herculeana*.

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 110-111. *Pl. 8, figs. 3, 4.*
1852. Giebel. Deutschl. petref., 645.
1856. " Insect. d. vorwelt, 162.
1865. Heer. Urwelt der Schweiz, 470.
1872. " Monde prim. Suisse, 573.
1876. " Prim. world Switz., ii: 131.
1879. " Urwelt der Schweiz, 2^e aufl., 497.

See also *Formica pinguis radobojana*, *F. pinguis oeningensis*, *Camponotus pinguis radobojanus*.

6091. Formica pinguis oeningensis. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 111. *Pl. 8, fig. 4ab.*
See also *Formica pinguis*, etc.

6092. Formica pinguis radobojana. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 110-111. *Pl. 8, fig. 3.*
See also *Formica pinguis*, etc.

6093. Formica primitiva. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 139-140. *Pl. 11, fig. 6.*
1852. Giebel. Deutschl. petref., 646.
1856. " Insect. d. vorwelt, 171.
1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 16.
1867. " Foss. hymen., 16.

6094. Formica primordialis. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 120-121. *Pl. 9, figs. 3, 4.*
1852. Giebel. Deutschl. petref., 645.
1854. Pictet. Traité de paléont., 2^e éd., ii: 383. *Pl. 40, fig. 18.*
1856. Giebel. Insect. d. vorwelt, 165.

6095. Formica procera. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 111-112. *Pl. 8, figs. 5a-c.*
1852. Giebel. Deutschl. petref., 645.
1856. " Insect. d. vorwelt, 163.
1865. Heer. Urwelt der Schweiz, 360.
1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 6-7. *Pl. 1, figs. 1ab.*

1867. Heer. Foss. hymen., 6, 7. *Pl. 1, figs. 1ab.*
 1872. " Monde prim. Suisse, 442.
 1876. " Prim. world Switz., ii: 14.
 1879. " Urwelt der Schweiz, 2^e aufl., 386.

6096. *Formica pulchella.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 142-143. *Pl. 11, fig. 9.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 172.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 17.
 1867. " Foss. hymen., 17.

6097. *Formica pumila.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 137. *Pl. 11, fig. 15.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 170.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 16.
 1867. " Foss. hymen., 16.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 55.
 1867. " Stud. Rad. form., 9.

6098. *Formica quadrata.* (Formicidæ.)

Locality: Prussian amber (Holl), Copal (Giebel). Horizon: Ligurian, recent.

1829. Holl. Handb. d. petref., 140.
 1856. Giebel. Insect. d. vorwelt, 173.

Formica radobojana. See *Formica macrocephala radobojana*, *Formica obesa radobojana*, *Formica pingicula radobojana*, *Formica pinguis radobojana*.

6099. *Formica redtenbacheri.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 129-131. *Pl. 10, fig. 2.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 168.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 12, 13.
 1867. " Foss. hymen., 12, 13.

See also *Lasius redtenbacheri*.

6100. *Formica rufa* (recent). (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

- [1758. Linné. Syst. nat., ed. x., i: 580.]
 1831. Burmeister. Oken, Isis. 1831: 1100.

6101. *Formica saccharivora.* (Formicidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 178-179. *Pl. 5, fig. 20.*

6102. *Formica salomonis.* (Formicidæ.)

Locality: Copal. Horizon: Recent.

1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 172-178. *Pl. 4, fig. 11; pl. 5, fig. 20.*

6103. *Formica schmidtii*. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 138-139. *Pl. 11, fig. 5.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 171.
 See also *Liometopum imhoffii*, etc.

6104. *Formica seuberti*. (Formicidæ.)

Localities: Oeningen, Baden; Tallyá, Hungary. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 127-128. *Pl. 9, fig. 12.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 167-168.
 1872. Heer. Mitth. jahrb. k. ung. geol. anstalt, ii, th. i: 8.

6105. *Formica surinamensis* (recent). (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1830. Berendt. Insect. d. bernst., 37 (given on the authority of Schweigger as a recent species, but none such is quoted in Mayr's Index, 1833).

6106. *Formica trigona*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. Presl. Del. prag., i: 193.

6107. *Formica ungeri*. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 128-129. *Pl. 10, fig. 1.*
 1852. Giebel. Deutschl. petref., 645.
 1856. " Insect. d. vorwelt, 168.
 1867. Heer. Neue denkschr. schweiz. gesellschaft., xxii, mem. 4: 12, 13.
 1867. " Foss. hymen., 12, 13.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 53 (says two species are con-
 founded, one a *Formica*, the other a *Lasius*).
 1867. " Stud. Rad. form., 7.

6108. *Gesomyrmex hörnesi*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 52-53. *Pl. 2, figs. 38-41.*

6109. *Glypta transversalis*. (Ichneumonidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 613-614. *Pl. 10, fig. 25.*

6110. *Gorytes*? ———. (Crabronidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellschaft. Danzig, n. f., vi, iii: 273.
 1886. " Hym. bernst., 1.

6111. *Hemiteles* ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellschaft. Danzig, n. f., vi, iii: 279.
 1886. " Hym. bernst., 2

6112. Hemiteles fasciata. (Ichneumonidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 170-171. *Pl.* 13, *fig.* 15.
 1852. Giebel. Deutschl. petref., 647.
 1856. " Insect. d. vorwelt, 157.

Hylotoma cineracea. See III, HEMIPTERA, Idem.

6113. Hymenopterites deperditus.

Locality: Spitzbergen. Horizon: Miocene.

1870. Heer. K. svensk. vetensk. akad. handl., viii, 7: 78. *Pl.* 16, *figs.* 44, 45.

6114. Hypoclinea ———. (Formicidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

6115. Hypoclinea anthracina. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57 (quotes Heer's species as
 "Ponera" anthracina).
 1867. " Stud. Rad. form., 11.
 See also Poneropsis anthracina.

6116. Hypoclinea baltica. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 64-67. *Pl.* 3, *figs.* 61-63; *pl.* 4, *fig.* 64.

6117. Hypoclinea constricta. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 60-61. *Pl.* 3, *figs.* 50-51.

6118. Hypoclinea cornuta. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 61. *Pl.* 3, *fig.* 52.

6119. Hypoclinea geinitzi. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 58-60. *Pl.* 3, *figs.* 42-46.

6120. Hypoclinea goepperti. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 56-58. *Pl.* 1, *figs.* 3, 7; *pl.* 3, *figs.* 42-46.

6121. Hypoclinea haueri. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 60-61 (named by Heer as
 Formica occultata). *Pl.* 1, *fig.* 11.
 1867. " Stud. Rad. form., 14-15 *Pl.* 1, *fig.* 11.
 See also Formica occultata, etc.

6122 Hypoclinea kutschlinica. (Formicidæ.)Compared with *H. 4-denticulata*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1881. Deichmüller. Foss. ins. diatomensch. Kutschlin, 30-32. *Pl. 21, fig. 13.*1881. " Verhandl. leop.-carol. deutsche akad. naturf., xlii: 322-324. *Pl. 21, fig. 13.***6123. Hypoclinea longipennis.** (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 67-68. *Pl. 4, fig. 65.***6124. Hypoclinea nitida.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57.

1867. " Stud. Rad. form., 11.

See also *Ponera nitida*, etc.**6125. Hypoclinea obliterated.** (Formicidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-'76: 267.

1877. " Ins. tert. Quesn., 2.

1877. " Rapp. opér. comm. géol. Can., 1875-'76: 295.

1890. " Tert. ins. N. A., 616. *Pl. 3, figs. 25, 26.***6126. Hypoclinea sculpturata.** (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 62. *Pl. 3, figs. 53-55.***6127. Hypoclinea tertiaria.** (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 62-64. *Pl. 3, figs. 56-60.***6128. Ichneumon** ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

6129. Ichneumon ———. (Ichneumonidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new. phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

6130. Ichneumon ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1822. DeFrance. Dict. sc. nat., xxiii: 524 (des *Ichneumons*).

1829. Serres. Géogn. terrains tert., 242.

1830. Berendt. Ins. berustein, 37.

6131. Ichneumon ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

6132. *Ichneumon* ———. (*Ichneumonidæ*)
 Locality: Prussian amber. Horizon: Ligurian.
 1820. Schlotheim. Petrefactenk., 43.
6133. *Ichneumon* ———. (*Ichneumonidæ*)
 Locality: Aix, France. Horizon: Ligurian.
 1829. Serres. Géogn. terrains tert., 229.
6134. *Ichneumon aquensis*. (*Ichneumonidæ*)
 Locality: Aix, France. Horizon: Ligurian.
 1861. Heer. Rech. climat pays tert., 153 (undeser.).
6135. *Ichneumon ferrugineus*. (*Ichneumonidæ*)
 Locality: Copal. Horizon: Recent.
 1776. Bloch. Beschäft. berl. gesellsch. naturf. freunde, ii: 165-166. *Pl.* 3,
fig. 3.
6136. *Ichneumon infernalis*. (*Ichneumonidæ*)
 Locality: Oeningen, Baden. Horizon: Tortonian.
 1865. Heer. Urwelt der Schweiz. *Fig.* 294 on *p.* 386.
 1872. " Monde prim. Suisse. *Fig.* 294 on *p.* 474.
 1876. " Prim. world Switz., ii. *Fig.* 294 on *p.* 44.
 1879. " Urwelt der Schweiz, 2^e Aufl. *Fig.* 336 on *p.* 412.
6137. *Ichneumon longævus*. (*Ichneumonidæ*)
 Locality: Radoboj, Croatia. Horizon: Mayencian.
 1849. Heer. Insektenf. tertiärg. Oeningen, ii: 166-167. *Pl.* 13, *fig.* 11.
 1852. Giebel. Deutschl. petref., 647.
 1856. " Insect. d. vorwelt, 154.
6138. *Ichneumon petrinus*. (*Ichneumonidæ*)
 Locality: White River, Colo. Horizon: Oligocene.
 1877. Scudder. Bull. U. S. geol. surv. terr., iii: 743.
 1890. " Tert. ins. N. A., 608. *Pl.* 5, *figs.* 14, 15.
6139. *Ichneumonites bellus*. (*Ichneumonidæ*)
 Locality: Oeningen, Baden. Horizon: Mayencian.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 35. *Pl.* 3,
figs. 19, 20.
 1867. " Foss. hymen., 35. *Pl.* 3, *figs.* 19, 20.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 817. *Fig.* 1101.
 1886. " Zittel-Barrois, Traité de paléont., ii: 819. *Fig.* 1118.
6140. *Ichneumonites (Trogus?) fusiformis*. (*Ichneumonidæ*)
 Locality: Radoboj, Croatia. Horizon: Mayencian.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 35-36. *Pl.* 3,
fig. 16.
 1867. " Foss. hymen., 35-36. *Pl.* 3, *fig.* 16.

6141. Imhoffia nigra. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 153-155. *Pl.* 12, *fig.* 10.
 1852. Giebel. Deutshl. petref., 646.
 1854. Pietet. Traité de paléont., 2^e éd., ii: 383. *Pl.* 40, *fig.* 17.
 1853-56. BRÖN. Lethæa geogn., 3^e Aufl., iii: 646. *Pl.* 42', *figs.* 22ab.
 1856. Giebel. Insect. d. vorwelt, 176-177.

6142. Imhoffia pallida. (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig.* 291 on p. 386.
 1867. " Neue denksehr. schweiz. gesellsch., xxii, mem. 4: 28-29. *Pl.* 2,
figs. 9, 9bc.
 1867. " Foss. hymen., 28-29. *Pl.* 2, *figs.* 9, 9bc.
 1872. " Monde prim. Suisse. *Fig.* 291 on p. 474.
 1876. " Prim. world Switz., ii. *Fig.* 291 on p. 44.
 1879. " Urwelt der Schweiz, 2^e auf. *Fig.* 333 on p. 412.

Laccophrys (vic.). ———. See ——— ——— (Braconidæ) Scudder, x: 18.

6143. Lampromyrmex gracillimus. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 95. *Pl.* 5, *figs.* 97-98.

6144. Lasius edentatus. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 46-47.

6145. Lasius fragilis. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 56.
 1867. " Stud. Rad. form., 10.
 See also *Formica fragilis*.

6146. Lasius globularis. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 54.
 1867. " Stud. Rad. form., 8.
 See also *Formica globularis*, *Liometopum antiquum*.

6147. Lasius longævus. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 54.
 1867. " Stud. Rad. form., 8.
 See also *Formica longæva*.

6148. Lasius minutulus. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 55.
 1867. " Stud. Rad. form., 9.
 See also *Formica minutula*.

6149. *Lasius obliteratus*. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 56.

1867. " Stud. Rad. form., 10.

See also *Formica obliterata*.**6150. *Lasius oblongus*. (Formicidæ.)**

Locality: Schossnitz, Silesia. Horizon: Miocene.

1869. Assmann. Beitr. insektenf. d. vorwelt (Schles. zeitschr. f. ent., (2), i), 38-39.
Pl. 1, figs. 1, 1a.**6151. *Lasius obscurus*. (Formicidæ.)**Compared with *L. niger* L.

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 52.

1867. " Stud. Rad. form., 6.

See also *Formica obscura*.**6152. *Lasius occultatus*. (Formicidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 54-55.

1867. " Stud. Rad. form., 8-9.

See also *Formica occultata*, etc.**6153. *Lasius pumilus*. (Formicidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 46. Pl. 2, fig. 33.

6154. *Lasius punctulatus*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 46. Pl. 2, fig. 34.

6155. *Lasius redtenbacheri*. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 54.

1867. " Stud. Rad. form., 8.

See also *Formica redtenbacheri*.**6156. *Lasius schiefferdeckeri*. (Formicidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 44-46. Pl. 2, figs. 27-32.

6157. *Lasius terreus*. (Formicidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1878. Scudder. Bull. U. S. geol. surv. terr., iv: 747-748.

1890. " Tert. ins. N. A., 618-619. Pl. 10, fig. 23.

Lasius ungeri*. See *Formica ungeri*.*6158. *Leptalea* — (2 sp.). (Formicidæ.)**

Locality: Sicilian amber. Horizon: —.

1840. Erichson. Arch. naturg., v, 2: 309.

1840. " Ber. wiss. leist. entom., 1838: 29.

See also *Pseudomyrme* — — Scudder, etc.

6159. Leptothorax gracilis. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 89-90. *Pl. 5, figs. 89-92.***Leptothorax pusillus.** See *Myrmica pusilla*.**6160. Liometopum antiquum.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 60 (named by Heer as *Formica globularis*). *Pl. 1, fig. 10.*1867. " Stud. Rad. form., 14. *Pl. 1, fig. 10.*See also *Lasius globularis*, *Formica globularis*.**6161. Liometopum imhoffii.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 55 (*imhoffii*).

1867. " Stud. Rad. form., 9.

See also *Formica imhoffii*, *Poneropsis imhoffii*, *Liometopum schmidtii*, *Formica schmidtii*, *Poneropsis schmidtii*.**6162. Liometopum pingue.** (Formicidæ.)

Locality: White River, Utah. Horizon: Oligocene.

1877. Scudder. Bull. U. S. geol. Surv. terr., iii: 742-743.

1890. " Tert. ins. N. A., 617. *Pl. 5, fig. 10.*See also *Myrmica* — Scudder, 1867.**6163. Liometopum schmidtii.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 55-56 (*Schmidti*) (= *L. imhoffii*).

1867. " Stud. Rad. form., 9-10.

See also *Liometopum imhoffii*, etc.**6164. Lithotorus cressoni.** (Ichneumonidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 609. *Pl. 10, fig. 21.***6165. Lonchomyrmex freyeri.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 56, 61. *Pl. 1, fig. 12.*1867. " Stud. Rad. form., 10, 15. *Pl. 1, fig. 12.*1885. Scudder. Zittel, Handb. palæont., i, th. ii: 818. *Fig. 1104.*1886. " Zittel-Barrois, Traité de paléont., ii: 820. *Fig. 1120.*See also *Formica freyeri*.**6166. Lonchomyrmex nigritus.** (Formicidæ.)

Locality: Schoschnitz, Silesia. Horizon: Miocene.

1869. Assmann. Beitr. insektenf. d. vorwelt (Schles. zeitschr. f. ent., (2), i), 39-40. *Pl. 1, figs. 2, 2a.***6167. Lophyrus** ———. (Tenthredinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. berust., 2.

6168. Lophyrus? ——— (larva). (Tentbredinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 24.

6169. Lyda ——— (larva). (Teuthredinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 24.

6170. Macrocentrus ———. (Braconidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

Macrocentrus (vic.) ———. See ——— ——— (Braconidæ) Scudder, x: 18.**6171. Macromischa beyrichi.** (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 84. Pl. 4, figs. 80-81.

6172. Macromischa petiolata. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 85. Pl. 4, figs. 83-84.

6173. Macromischa rudis. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 85-86. Pl. 4, fig. 85.

6174. Macromischa rugosostriata. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 84. Pl. 4, fig. 82.

6175. Melipona (vic.) ———. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

6176. Mellinus ———. (Crabronidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

6177. Mesochorus (vic.) ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

6178. Mesoleptus (vic.) ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

6179. Meteorus ———. (Braconidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.
 1886. “ Hym. bernst., 2.

Meteorus (vic.) ———. See ——— ——— (Braconidæ) Scudder, x: 28.**Mimesa** ———. See Psen ——— Brischke.**6180. Monomorium pilipes.** (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 91-92. *Pl. 5, figs. 93-94.*

6181. Mutilla ———. (Mutillidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 273.
 1886. “ Hym. bernst., 1.

6182. Mutilla ———. (Mutillidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1827. Brongniart. Diet. sc. nat., li: 234 (mutilles).

6183. Mutilla ———. (Mutillidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

6184. Myrmar ———. (Proctotrupidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Duisburg. Schriften k. physik.-ökon. gesellsch. Königsberg, ix: 24-28.
Figs. 1, 2.

See also *Myrmar* duisburgi.**6185. Myrmar duisburgi.** (Proctotrupidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1877. Stein. Mitth. münch. entom. ver., i: 30.
 1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 817. *Fig. 1099.*
 1886. “ Zittel-Barrois, Traité de paléont., ii: 819. *Fig. 1116.*

See also *Myrmar* ——— Duisburg.**6186. Myrmica** ———. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 636.
 1836. “ Man. ent., 577.

6187. Myrmica ———. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 25.

6188. Myrmica ———. (Formicidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1867. Scudder. Proc. Bost. soc. nat. hist., xi: 117.

See also *Liometopum pingue*.

6197. *Myrmica jurinei.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 163-164. *Pl.* 13, *fig.* 8.
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 180.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 59.
 1867. " Stud. Rad. form., 13.

6198. *Myrmica longispinosa.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 87. *Pl.* 4, *fig.* 86.

6199. *Myrmica macrocephala.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 158-159. *Pl.* 12, *fig.* 14.
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 178.

6200. *Myrmica molassica.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 162. *Pl.* 13, *fig.* 6.
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 180.

6201. *Myrmica ? nebulosa.* (Formicidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. acad. wiss. Wien, lxxvi: 91. *Pl.* 3, *fig.* 1.
 1877. " Fauna egerer tertiärb., 21. *Pl.* 3, *fig.* 1.

6202. *Myrmica obsoleta.* (Formicidæ.)

Locality: Parschlug, Styria. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 160. *Pl.* 13, *fig.* 3.
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 179.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 30.
 1867. " Foss. hymen., 30.

Myrmica œningensis. See *Myrmica tertiaria œningensis.***6203. *Myrmica pusilla.*** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 164-165. *Pl.* 13, *fig.* 9.
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 180.
 1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 32-33. *Pl.* 2, *fig.* 14.
 1867. " Foss. hymen., 32-33. *Pl.* 2, *fig.* 14.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 59 (one specimen is probably a *Leptothorax*, another perhaps a *Pheidole*).
 1867. " Stud. Rad. form., 13.

See also *Formica obesa*, etc.***Myrmica radobojana.*** See *Myrmica tertiaria radobojana.****Myrmica ruficeps.*** See *Myrmica rugiceps.*

6204. *Myrmica rugiceps*. (Formicidæ.)

Localities: Oeningen, Baden; Schossnitz, Silesia. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 160-161. *Pl.* 13, *fig.* 2.
 1852. Giebel. Deutschl. petref., 646.
 1855. Goepfert. Tert. flora Schossnitz, p. vii (ruficeps). *Pl.* 26, *figs.* 50-51.
 1856. Giebel. Insect. d. vorwelt, 179.

See also *Pheidologeton schossnicensis*.**6205. *Myrmica tertiaria*. (Formicidæ.)**

Localities: Oeningen, Baden: Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 159-160. *Pl.* 13, *figs.* 1a-c.
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 179.
 1865. Heer. Urwelt der Schweiz. *Fig.* 293 on p. 386.
 1867. " Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 30. *Pl.* 2, *figs.* 10, 10b.
 1867. " Foss. hymen., 30. *Pl.* 2, *figs.* 10, 10b.
 1872. " Monde prim. Suisse. *Fig.* 293 on p. 474.
 1876. " Prim. world Switz., ii. *Fig.* 293 on p. 44.
 1879. " Urwelt der Schweiz, 2^e Aufl. *Fig.* 335 on p. 412.

See also *Myrmica tertiaria oeningensis*, *M. tertiaria radobojana*, *M. bicolor*.**6206. *Myrmica tertiaria oeningensis*. (Formicidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 160. *Pl.* 13, *fig.* 1c.

See also *Myrmica tertiaria*, etc.**6207. *Myrmica tertiaria radobojana*. (Formicidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 159. *Pl.* 13, *figs.* 1ab.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 58-59.
 1867. " Stud. Rad. form., 12-13.

See also *Myrmica tertiaria*, etc.**6208. *Myrmica venusta*. (Formicidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 31-32. *Pl.* 2, *figs.* 12, 12b.
 1867. " Foss. hymen., 31-32. *Pl.* 2, *figs.* 12, 12b.

See also *Solenopsis? venusta*.**6209. *Myrmicites* ———. (Formicidæ.)**

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

6210. *Myrmicium boreale*. (Formicidæ.)

Locality: Spitzbergen. Horizon: Miocene.

1870. Heer. K. svensk. vetensk. akad. handl., viii, 7: 78. *Pl.* 16, *figs.* 46, 46b.

6211. *Neuropachys* ———. (Uroceridæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1858. Heer. Ber. versammul. deutsch. naturf., xxxii: 118 (undescrib.).

6212. *Æcophylla* ———. (Formicidæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligoceno.

1890. Foerstor. In litt.

6213. *Æcophylla brischkei*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 31-32. *Pl. 1, figs. 12-13.***6214. *Æcophylla obesa radobojana*.** (Formicidæ.)Compared with *O. smaragdina*.

Locality: Kutschlin, Bohemia. Horizon: Miocene.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 50-51.

1867. " Stud. Rad. form., 4-5.

1881. Deichmüller. Foss. ins. diatomeensch. Kutschlin, 33-35. *Pl. 21, figs. 14, 15, 15a.*1881. " Verhandl. leop.-carol. deutsch. akad. naturf., xlii: 325-327. *Pl. 21, figs. 14, 15, 15a.*See also *Formica obesa*, etc.***Æcophylla radobojana*.** See *Æcophylla obesa radobojana*.**6215. *Ophion* ———.** (Ichneumonidæ.)

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn. terrains tert., 229.

6216. *Ophion* (or *Campoplex*) ———. (Ichneumonidæ.)

Locality: Pianico, Italy. Horizon: Quaternary.

1882. Sordelli. Alc. ins. foss. Lombardia, 5-6. *Fig.*1882. " Bull. soc. ent. ital., xiv: 228-229. *Fig.***6217. *Osmia* ———.** (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petrishule Danzig, 1856: 26.

6218. *Osmia antiqua*. (Apidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 95-96. *Pl. 7, fig. 2.*

1852. Giebel. Deutschl. petref., 645.

1856. " Insect. d. vorwelt, 182.

6219. *Osmia carbonum*. (Apidæ.)

Locality: Rott, Rhenish Prussia. Horizon: Aquitanian.

1862. Heyden. Palaeontogr., x: 75. *Pl. 10, figs. 11, 12.***6220. *Osmia dubia*.** (Apidæ.)

Locality: Orsberg (Rhenish Prussia?). Horizon: Miocene.

1856. Giebel. Insect. d. vorwelt, 182.

See also *Apiaria dubia*.**6221. *Passalæcus* ———.** (Crabronidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., I.

6222. Pepsis ———. (Pompilidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 636.

1836. " - Man. ent., 577.

6223. Perilampus ———. (Chalcididæ.)

Locality: Prussian amber. Horizon: Ligurian.

1836. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi: iii: 279.

1886. " Hym. bernst., 2.

6224. Pezomachus ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

Pheidole pusilla. See Myrmica pusilla.

6225. Pheidologeton antiquus. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Amcis. balt. bernst., 93. Pl. 5, figs. 95-96.

6226. Pheidologeton bohemicus. (Formicidæ.)

Locality: Krottensee, Bohemia. Horizon: Aquitanian.

1877. Novák. Sitzungsber. k. akad. wiss. Wien, lxxvi: 90-91. Pl. 3, fig. 3.

1877. " Fanna egerer tertiärb., 20-21. Pl. 3, fig. 3.

6227. Pheidologeton schossuicensis. (Formicidæ.)

Locality: Schossnitz, Silesia. Horizon: Miocene.

1869. Assmann. Beitr. insectenf. d. vorwelt (Schles. zeitschr. f. ent., (2), i), 40.
Pl. 1, figs. 3, 3a.

See also Myrmica rugiceps.

6228. Phygadeuon ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

6229. Pimpla ———. (Ichneumonidæ.)

Locality: ———. Horizon: ———.

1846. Giebel. Paläozool., 281.

6230. Pimpla ———. (Ichneumonidæ.)

Locality: Aix, France. Horizon: Oligocene.

1854. Pictet. Traité de paléont., 2^e éd., ii: 382 (fide Serres, MS.).**6231. Pimpla** ———. (Ichneumonidæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

6232. *Pimpla antiqua.* (Ichneumonidæ.)

Locality: Aix, France. Horizon: Lignrian.

1852. Saussure. Rev. mag. zool., iv: 580. Pl. 23, fig. 5.

1852. " Nouv. hym. foss., 1-2. Pl. 23, fig. 5.

6233. *Pimpla (Rhyssa) antiqua.* (Ichneumonidæ.)Compared with *Pimpla (Rhyssa) persuasoria* (L.).

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. gesellsch., xxii, mem. 4: 36. Pl. 3, fig. 18.

1867. " Foss. hymen., 36. Pl. 3, fig. 18.

6234. *Pimpla decessa.* (Ichneumonidæ.)Compared with *P. instigator* Fabr.

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-'76: 269.

1877. " Ins. tert. Quesnel, 4.

1877. " Rapp. opér. comm. géol. Can., 1875-'76: 297-298.

1890. " Tert. ins. N. A., 612-613. Pl. 3, fig. 27.

6235. *Pimpla saussurii.* (Ichneumonidæ.)

Locality: Aix, France. Horizon: Lignrian.

1856. Heer. Viert. naturf. gesellsch. Zürich, i: 29. Pl. 2, fig. 15.

6236. *Pimpla saxea.* (Ichneumonidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-'76: 268.

1877. " Ins. tert. Quesnel, 3.

1877. " Rapp. opér. comm. géol. Can., 1875-'76: 296-297.

1890. " Tert. ins. N. A., 610-611. Pl. 3, fig. 23.

6237. *Pimpla senecta.* (Ichneumonidæ.)

Locality: Quesnel, British Columbia. Horizon: ———.

1877. Scudder. Rep. geol. surv. Can., 1875-'76: 268-269.

1877. " Ins. tert. Quesnel, 3-4.

1877. " Rapp. opér. comm. géol. Can., 1875-'76: 297.

1890. " Tert. ins. N. A., 611-612. Pl. 3, figs. 29-31.

6238. *Pimpla succini.* (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Giebel. Insect. d. vorwelt, 155.

6239. *Plagiolepis klinsmanni.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 37-38. Pl. 1, figs. 19, 20.

6240. *Plagiolepis künowi.* (Formicidæ.)

Locality: Prussian amber. Horizon: Lignrian.

1868. Mayr. Ameis. balt. bernst., 39. Pl. 1, figs. 22-23.

6241. *Plagiolepis singularis.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 38-39.

6242. *Plagiolepis solitaria*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

Ameis. balt. bernst., 40-41.

1868. Mayr.

6243. *Plagiolepis squamifera*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

Ameis. balt. bernst., 40. *Pl.* 1, *fig.* 24.

1868. Mayr.

6244. *Polistes* ———. (Vespidæ.)

Locality: Chaumerac, France. Horizon: ———.

1815. Latreille.

Faujas, Mém. mus. hist. nat., ii: 457. *Pl.* 15, *fig.* 4.**6245. *Polistes* ———. (Vespidæ.)**

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder.

Bull. U. S. geol. surv. terr., vi: 290.

1883. “

Ann. rep. U. S. geol. surv. terr., xii: 280.

6246. *Polistes* ———. (Vespidæ.)Compared with *Vespa gallica*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres.

Géogn. terrains tert., 229.

6247. *Polistes* ———. (Vespidæ.)Compared with *P. morio*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres.

Géogn. terrains tert., 230.

6248. *Polistes primitiva*. (Vespidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer.

Urwelt der Schweiz, 387.

1872. “

Monde prim. Suisse, 473.

1876. “

Prim. world Switz., ii: 43.

1879. “

Urwelt der Schweiz, 2^e Aufl., 412.**6249. *Polyrhachis* ———. (Formicidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1868. Smith.

Quart. journ. sc., v: 184. *Pl.*, *fig.* 4.**6250. *Pompilus* ———. (Pompilidæ.)**

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke.

Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. “

Hym. bernst., 1.

6251. *Pompilus induratus*. (Pompilidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer.

Insektenf. tertiärg. Oeningen, ii: 165-166. *Pl.* 13, *fig.* 10.

1852. Giebel.

Deutschl. petref., 647.

1856. “

Insect. d. vorwelt, 159.

1885. Scudder.

Zittel, Handb. palaeont., i, tb. ii: 819. *Fig.* 1106.

1886. “

Zittel-Barrois, Traité de paléont., ii: 821. *Fig.* 1123.

6252. *Ponera affinis*. (Formicidæ.)

Localities: Radoboj, Croatia; Oeningen, Baden. Horizons: Mayencian, Tortonian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 147-148. *Pl. 12, fig. 2.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 174.
 1865. Heer. Urwelt der Schweiz, 388.
 1872. " Monde prim. Suisse, 475.
 1876. " Prim. world Switz., ii: 45.

See also *Poneropsis affinis*.

***Ponera anthracina*.** See *Hypoclinea anthracina*.

6253. *Ponera atavia*. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 72. *Pl. 4, figs. 66-69.*

6254. *Ponera crassinervis*. (Formicidæ.)

Locality: Parschlug, Styria. Horizon: Tortonian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 150 (*crassinervis*). *Pl. 12, fig. 6.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 175.

6255. *Ponera croatica*. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 148. *Pl. 12, fig. 3.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 174-175.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57.
 1867. " Stud. Rad. form., 11.

6256. *Ponera elongatula*. (Formicidæ.)

Localities: Radoboj, Croatia; Oeningen, Baden. Horizons: Mayencian, Tortonian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 150-151. *Pl. 12, fig. 7.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 175.
 1865. Heer. Urwelt der Schweiz, 388.
 1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57.
 1867. " Stud. Rad. form., 11 (does not belong to *Ponera*).
 1872. Heer. Monde prim. Suisse, 475 (*elongatulus*).
 1876. " Prim. world Switz., ii: 45.

See also *Poneropsis elongatula*.

6257. *Ponera fuliginosa*. (Formicidæ.)

Localities: Oeningen, Baden; Radoboj, Croatia. Horizons: Tortonian, Mayencian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 145-147. *Pl. 12, fig. 1.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 174.
 1865. Heer. Urwelt der Schweiz, 388.
 1872. " Monde prim. Suisse, 475 (*fuliginosus*).
 1876. " Prim. world Switz., ii: 45.

See also *Ponera fuliginosa oeningensis*, *P. f. radobojana*, *Aphænogaster fuliginosa*, *Poneropsis fuliginosa*.

6258. *Ponera fuliginosa oeningensis.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 145-146. *Pl. 12, figs. 1ab.*
See also *Ponera fuliginosa*, etc.

Ponera fuliginosa radoboj. See *Ponera fuliginosa radobojana*.

6259. *Ponera fuliginosa radobojana.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 146-147 (radoboj). *Pl. 12, figs. 1cd.*
See also *Ponera fuliginosa*, etc.

6260. *Ponera globosa.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 151-153. *Pl. 12, fig. 9.*
1852. Giebel. Deutschl. petref., 646.
1856. " Insect. d. vorwelt, 176.

6261. *Ponera gracilicornis.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 72-73.

Ponera livida. See *Aphaenogaster livida*.

6262. *Ponera longæva.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 148-149. *Pl. 12, fig. 5.*
1852. Giebel. Deutschl. petref., 646.
1856. " Insect. d. vorwelt, 175.

Ponera lugubris. See *Poneropsis lugubris*.

Ponera morio. See *Poneropsis morio*.

6263. *Ponera nitida.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 149-150. *Pl. 12, fig. 4.*
1852. Giebel. Deutschl. petref., 646.
1856. " Insect. d. vorwelt, 175.
See also *Poneropsis nitida*, *Hypoelina nitida*.

Ponera oeningensis. See *Ponera fuliginosa oeningensis*.

Ponera radobojana. See *Ponera fuliginosa radobojana*.

6264. *Ponera succinea.* (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 72.

6265. *Ponera tenuis.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57-58.
1867. " Stud. Rad. form., 11-12.
See also *Poneropsis tenuis*.

6266. *Ponera veneraria.* (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz, 359, 388. *Figs. 288ab on p. 386.*
 1872. " Monde prim. Suisse, 441, 475 (*venerarius*). *Figs. 288ab on p. 474.*
 1876. " Prim. world Switz., ii: 14, 45. *Figs. 288ab on p. 44.*
 1879. " Urwelt der Schweiz, 2^e Aufl., 385. *Fig. 330 on p. 412.*

See also *Poneropsis veneraria*.**6267. *Ponera ventrosa.* (Formicidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiär. Oeningen, ii: 151. *Pl. 12, fig. 8.*
 1852. Giebel. Deutschl. petref., 646.
 1856. " Insect. d. vorwelt, 175.

6268. *Poneropsis affinis.* (Formicidæ.)

Localities: Radoboj, Croatia; Oeningen, Baden. Horizons: Mayencian, Tortonian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 19.
 1867. " Foss. hymen., 19.
 1879. " Urwelt der Schweiz, 2^e Aufl., 413.

See also *Ponera affinis*.**6269. *Poneropsis anthracina.* (Formicidæ.)**

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 22. *Pl. 2, figs. 8, 8b.*
 1867. " Foss. hymen., 22. *Pl. 2, figs. 8, 8b.*

See also *Hypoclinea anthracina*.**6270. *Poneropsis brunascens.* (Formicidæ.)**

Locality: ———. Horizon: ———.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 27 (compared with *Poneropsis globosa*, undeser.). *Pl. 2, figs. 7, 7bc.*
 1867. " Foss. hymen., 27. *Pl. 2, figs. 7, 7bc.*

6271. *Poneropsis elongata.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 19-20. *Pl. 1, fig. 21.*
 1867. " Foss. hymen., 19-20. *Pl. 1, fig. 21.*

6272. *Poneropsis elongatula.* (Formicidæ.)

Localities: Radoboj, Croatia; Oeningen, Baden. Horizons: Mayencian, Tortonian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 22.
 1867. " Foss. hymen., 22.
 1879. " Urwelt der Schweiz, 2^e Aufl., 413.

See also *Ponera elongatula*.**6273. *Poneropsis escheri.* (Formicidæ.)**

Locality: Oeningen, Baden. Horizon: Tortonian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 20. *Pl. 1, figs. 22, 22bc.*
 1867. " Foss. hymen., 20. *Pl. 1, figs. 22, 22bc.*

6274. *Poneropsis fuliginosa.* (Formicidæ.)

Localities: Radoboj, Croatia; Oeningen, Baden. Horizons: Mayencian, Tortonian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 19.

1867. " Foss. hymen., 19.

1879. " Urwelt der Schweiz, 2^e aufl., 413.

See also *Ponera fuliginosa*, etc.

Poneropsis globosa.* See *Poneropsis brunascens.

6275. *Poneropsis imhoffii.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 24. *Pl. 2, figs. 3ab.*

1867. " Foss. hymen., 24. *Pl. 2, figs. 3ab.*

See also *Liometopum imhoffii*, etc.

6276. *Poneropsis livida.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 25-26. *Pl. 2, figs. 5, 5b.*

1867. " Foss. hymen., 25-26. *Pl. 2, figs. 5, 5b.*

See also *Aphænogaster livida*.

6277. *Poneropsis lugubris.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 21. *Pl. 1, figs. 23, 23bcd.*

1867. " Foss. hymen., 21. *Pl. 1, figs. 23, 23bcd.*

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57.

1867. " Stud. Rad. form., 11 (quotes Heer's species as "*Ponera*" *lugubris*, and says it belongs to Formicinæ).

See also *Aphænogaster lugubris*, *Poneropsis lugubris minor*.

6278. *Poneropsis lugubris minor.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 21.

1867. " Foss. hymen., 21.

See also *Poneropsis lugubris*, etc.

Poneropsis minor.* See *Poneropsis lugubris minor.

6279. *Poneropsis morio.* (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 26. *Pl. 2, figs. 6, 6b.*

1867. " Foss. hymen., 26.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 57.

1867. " Stud. Rad. form., 11, (quotes Heer's species as "*Ponera*" *morio* and says it is one of the Formicinæ).

See also *Poneropsis morio pallens*.

6280. Poneropsis morio pallens. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 26-27. *Pl. 2, fig. 6c.*1867. " Foss. hymen., 26-27. *Pl. 2, fig. 6c.*See also *Poneropsis morio*.**6281. Poneropsis nitida.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 20.

1867. " Foss. hymen., 20.

See also *Ponera nitida*, etc.*Poneropsis pallens.* See *Poneropsis morio pallens*.**6282. Poneropsis pallida.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 23-24. *Pl. 2, figs. 2, 2b.*1867. " Foss. hymen., 23-24. *Pl. 2, figs. 2, 2b.***6283. Poneropsis schmidtii.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 24-25. *Pl. 2, figs. 4, 4b.*1867. " Foss. hymen., 24-25. *Pl. 2, figs. 4, 4b.*See also *Liometopum imhoffii*, etc.**6284. Poneropsis stygia.** (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 27-28. *Pl. 1, figs. 20, 20b.*1867. " Foss. hymen., 27-28. *Pl. 1, figs. 20, 20b.***6285. Poneropsis tenuis.** (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 22-23. *Pl. 2, figs. 1, 1b.*1867. " Foss. hymen., 22-23. *Pl. 2, figs. 1, 1b.*See also *Ponera tenuis*.**6286. Poneropsis veneraria.** (Formicidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1879. Heer. *Urwelt der Schweiz*, 2^e aufl., 413. *Figs. 330ab on p. 412.*See also *Ponera veneraria*.**6287. Porizon** ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. *Schrift. natrnf. gesellsch. Danzig, n. f., vi, iii: 279.*1886. " *Hym. bernst., 2.*

- 6288. *Prenolepis henschei*. (Formicidæ.)**
 Locality: Prussian amber. Horizon: Ligurian.
 1868. Mayr. Ameis. balt. bernst., 34-35. *Pl. 1, figs. 14-17.*
- 6289. *Prenolepis pygmæa*. (Formicidæ.)**
 Locality: Prussian amber. Horizon: Ligurian.
 1868. Mayr. Ameis. balt. bernst., 36. *Pl. 1, fig. 18.*
- 6290. *Priocnemis* ———. (Pompilidæ.)**
 Locality: Oeningen, Baden. Horizon: Tortonian.
 1888. Schöberlin. Soc. entom., iii: 61.
- 6291. *Prionomyrmex longiceps*. (Formicidæ.)**
 Locality: Prussian amber. Horizon: Ligurian.
 1868. Mayr. Ameis. balt. bernst., 78. *Pl. 4, figs. 74-75.*
 1885. Scudder. Zittel, Handb. palæont., i, th. ii: 817. *Fig. 1193.*
 1886. " Zittel-Barrois, *Traité de paléont.*, ii: 820. *Fig. 1121.*
- 6292. *Psen* (or *Mimesa*) ———. (Crabronidæ.)**
 Locality: Prussian amber. Horizon: Ligurian.
 1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.
 1886. " Hymn. bernst., 1.
- 6293. *Pseudomyrme* ———. (Formicidæ.)**
 Locality: Sicilian amber. Horizon: ———.
 1886. Scudder. Zittel-Barrois, *Traité de paléont.*, ii: 820.
 1886. " Bull. U. S. geol. surv., No. 31: 100.
 See also *Leptalea* ——— Erichson, *Formica* ——— Guérin, i: 9, 10.
- 6294. *Psilus* ———. (Proctotrupidæ.)**
 Locality: Prussian amber. Horizon: Ligurian.
 1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.
- 6295. *Pteromalinites oeningensis*. (Pteromalidæ.)**
 Locality: Oeningen, Baden. Horizon: Tortonian.
 1865. Heer. Urwelt der Schweiz, 388.
 1872. " Monde prim. Suisse, 476.
 1876. " Prim. world Switz., ii: 46.
 1879. " Urwelt der Schweiz, 2^e aufl., 414.
- 6296. *Pteromalus* ? ———. (Pteromalidæ.)**
 Locality: Salzhausen, Germany. Horizon: Miocene.
 1865. Heyd.-Heyd. Palæontogr., xiv: 35 (or *Cynips* ?).
 See also *Cynips* ——— Heyden.
- 6297. *Pteromus* ———. (Tenthredinidæ.)**
 Locality: Aix, France. Horizon: Ligurian.
 1829. Serres. Géogn. terrains tert., 229.

6298. Rhopalomyrmex pygmæus. (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 42. *Pl. 2, figs. 25-26.***Rhyssa antiqua.** See *Pimpla (Rhyssa) antiqua.***6299. Rhyssa juvenis.** (Ichneumonidæ.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 609-610. *Pl. 10, figs. 19.***6300. Sapyja** ———. (Mutillidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

6301. Scolia ———. (Scoliadæ.)

Locality: Florissant, Colo. Horizon: Oligocene.

1881. Scudder. Bull. U. S. geol. surv. terr., vi: 290.

1883. " Ann. rep. U. S. geol. surv. terr., xii: 280.

6302. Scolia saussureana. (Scoliadæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1865. Heer. Urwelt der Schweiz. *Fig. 297 on p. 386.*1872. " Monde prim Suisse. *Fig. 297 on p. 474.*1876. " Prim. world Switz., ii. *Fig. 297 on p. 44.*1879. " Urwelt der Schweiz, 2^e anfl. *Fig. 339 on p. 412.*1885. Scudder. Zittel, Handb. palæont., i, th. ii: 818. *Fig. 1105.*1886. " Zittel-Barrois, *Traité de paléont.*, ii: 821. *Fig. 1122.***6303. Selandria** ———. (Tenthredinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

Selandria ———. See *Tenthredo* ——— *Curtis.***6304. Sima angustata.** (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 102. *Pl. 5, fig. 106.***6305. Sima ocellata.** (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 101-102. *Pl. 5, figs. 104-105.***6306. Sima simplex.** (Formicidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 102.

6307. Solenopsis ? venusta. (Formicidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Mayr. Jahrb. k.-k. geol. reichsanst., xvii: 60.

1867. " Stud. Rad. form., 14.

See also *Myrmica venusta.*

6308. Sphex ——. (Sphegidae.)

Locality: ——. Horizon: ——.

1846. Giebel. Paläozool., 280.

6309. Sphex ——. (Sphegidae.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schüberlin. Soc. entom., iii: 61.

6310. Sphex gigantea. (Sphegidae.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 33-34. *Pl. 3, figs. 4, 5, 5b.*1867. " Foss. hymen., 33-34. *Pl. 3, figs. 4, 5, 5b.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 819. *Fig. 1107.*1886. " Zittel-Barrois, Traité de paléont., ii: 821. *Fig. 1124.***6311. Stigmomyrmex robustus.** (Formicidae.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 97-98. *Pl. 5, fig. 101.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 817. *Fig. 1102.*1886. " Zittel-Barrois, Traité de paléont., ii: 820. *Fig. 1119.***6312. Stigmomyrmex venustus.** (Formicidae.)

Locality: Prussian amber. Horizon: Ligurian.

1868. Mayr. Ameis. balt. bernst., 97. *Pl. 5, figs. 99-100.***6313. Tapinoma?** ——. (Formicidae.)

Locality: Sicilian amber. Horizon: ——.

1881. Malfatti. Atti accad. line., (3), trans., v: 82-83. *Fig. 2.***6314. Taxonus nortoni.** (Tenthredinidae.)

Locality: Green River, Wyo. Horizon: Oligocene.

1890. Scudder. Tert. ins. N. A., 604. *Pl. 10, figs. 26, 27.***6315. Tenthredo** ——. (Tenthredinidae.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 279.

1886. " Hym. bernst., 2.

6316. Tenthredo ——. (Tenthredinidae.)Compared with *Selandria fuliginosa*.

Locality: Aix, France. Horizon: Ligurian.

1829. Curtis. Edinb. new. phil. journ., vii: 295.

1829. " Murchison-Lyell, Tert. form. Aix, 11.

6317. Tenthredo ——. (Tenthredinidae.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

6318. Tenthredo ———. (Tenthredinidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1829. Schlotheim. Petrefactenk., 43.

6319. Tenthredo ——— (2 sp.). (Tenthredinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 61.

6320. Tenthredo ———. (Tenthredinidæ.)Compared with *T. viridis*.

Locality: Aix, France. Horizon: Ligurian.

1829. Serres. Géogn.-terrains tert., 229 (Tenthredo).

6321. Tenthredo gervaisi. (Tenthredinidæ.)

Locality: Aix, France. Horizon: Ligurian.

1861. Heer. Saporta, Heer, Rech. climat pays tert., 153 (undescrib.).

6322. Tenthredo vetusta. (Tenthredinidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 172-173. Pl. 13, fig. 16.

1852. Giebel. Deutschl. petref., 647.

1856. " Insect. d. vorwelt, 152.

Tenthredo ———. See *Tenthredo* ——— Serres.**6323. Torymus** ———. (Chalcididæ.)

Locality: Brunstatt, Alsatia. Horizon: Middle Oligocene.

1890. Foerster. In litt.

6324. Trigona? ———. (Apidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1832. Burmeister. Handb. ent., i: 636.

1836. " Man. ent., 577.

Trogus fusiformis. See *Ichneumonites (Trogus) fusiformis*.**6325. Tryphon** ———. (Ichneumonidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

6326. Typhia? ———. (Mutillidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1886. Brischke. Schrift. naturf. gesellsch. Danzig, n. f., vi, iii: 278.

1886. " Hym. bernst., 1.

6327. Urocerites spectabilis. (Uroceridæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Neue denkschr. schweiz. gesellsch., xxii, mem. 4: 38-39. Pl. 3, figs. 1, 2, 2b, 3.

1867. " Foss. hymen., 38-39. Pl. 3, figs. 1, 2, 2b, 3.

1885. Scudder. Zittel, Handb. palæont., i, th. ii: 816. Fig. 1097.

1886. " Zittel-Barrois, Traité de palæont., ii: 818. Fig. 1114.

6328. Vespa ——. (Vespidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1835. Gravenhorst. Uebers. schles. gesellsch. vaterl. cult., 1834: 92.

6329. Vespa ——. (Vespidæ.)

Locality: Aix, France. Horizon: Ligurian.

1847. Hope. Trans. ent. soc. Lond., iv: 252.

6330. Vespa ——. (Vespidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1888. Schöberlin. Soc. entom., iii: 61.

6331. Vespa atavina. (Vespidæ.)

Localities: Parschlug, Styria; Moudon, Switzerland. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 101 (attavina). *Pl. 7, fig. 8.*

1852. Giebel. Deutschl. petref., 645 (attavina).

1856. " Insect. d. vorwelt, 160 (attavina).

1865. Heer. Urwelt der Schweiz, 387. *Fig. 289 on p. 386.*1872. " Monde prim. Suisse, 473. *Fig. 289 on p. 474.*1876. " Prim. world Switz., ii: 44. *Fig. 289.*1879. " Urwelt der Schweiz, 2^e aufl., 412. *Fig. 331.***Vespa attavina.** See *Vespa atavina.***6332. Vespa crabroniformis.** (Vespidæ.)

Locality: Radoboj, Croatia. Horizon: Mayencian.

1867. Heer. Nene denkschr. schweiz. gesellsch., xxii, mem. 4: 6. *Pl. 3, fig. 15a.*1867. " Foss. hymen., 6. *Pl. 3, fig. 15a.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 819. *Fig. 1108.*1886. " Zittel-Barrois, Traité de paléont., ii: 821. *Fig. 1125.***6333. Vespa dasypodia.** (Vespidæ.)

Locality: Prussian amber. Horizon: Ligurian.

1856. Menge. Progr. petriscule Danzig, 1856: 26.

6334. Xylocopa senilis. (Apidæ.)

Locality: Oeningen, Baden. Horizon: Tortonian.

1849. Heer. Insektenf. tertiärg. Oeningen, ii: 93-95. *Pl. 7, figs. 1.*

1852. Giebel. Deutschl. petref., 645.

1856. " Insect. d. vorwelt, 181-182.

1865. Heer. Urwelt der Schweiz, 386. *Fig. 295.*1872. " Monde prim. Suisse, 473. *Fig. 295 on p. 474.*1876. " Prim. world Switz., ii: 43. *Fig. 295 on p. 44.*1879. " Urwelt der Schweiz, 2^e aufl., 411. *Fig. 337 on p. 412.*1885. Scudder. Zittel, Handb. palaeont., i, th. ii: 819. *Fig. 1109.*1886. " Zittel-Barrois, Traité de paléont., ii: 821. *Fig. 1126.*

INDEX OF GENERIC NAMES.

- A** *bax*, 458.
Abia, 103, 134.
A *calles*, 459.
A *catherpestes*, 9.
A *canthichnus*, 233.
Acanthoderes, 459.
Acanthoderus, 459.
Acantholophus, 246.
Acanthosoma, 382.
Acarus, 246.
Achenium, 459.
Acheta, 103, 302.
Achita, 104.
Achrestocoris, 383.
Aclada, 599.
Acmæodera, 459.
A *cocephalus*, 383.
Acœnites, 685.
Acœnitus, 685.
Acreagris, 321.
Acridiites, 104.
Acridites, 31, 70.
Acridium, 303.
A *rocera*, 599.
Actea, 167, 189.
Actineda, 247.
Adalia, 459.
Adaphlebia, 71.
Adelocera, 459.
A *delophthalmus*, 31.
Adetus, 599.
Adimonia, 459.
A *diphlebia*, 71.
Adonia, 222.
Æ *dœophasma*, 31.
Ægialia, 460.
Ælia, 383.
Ænoaipus, 600.
Æschna, 134, 321.
A *ethophlebia*, 71.
Æthus, 384.
Æ *torhinus*, 384.
Agabus, 460.
A *galena*, 247.
A *gallia*, 384.
A *gapetus*, 323.
A *gathemera*, 303.
Agathis, 685.
A *gatoides*, 460.
A *gelasa*, 460.
A *gelena*, 247.
A *gonum*, 460.
A *graylea*, 323.
Agrilium, 189.
Agrilus, 189, 460.
A *grion*, 137, 323.
A *grionides*, 138.
A *grionidium*, 139.
Agrouza, 600.
A *grypnia*, 326.
A *kcicera*, 104.
A *kulosamphus*, 461.
A *laus*, 461.
A *leochara*, 461.
Aleurodes, 384.
Allarithmia, 600.
Alydus, 384.
Amalacon, 384.
A *mara*, 190, 461.
A *marobius*, 247.
Amblyteles, 685.
A *mœcius*, 462.
Amomphila, 685.
A *mpedus*, 462.
A *mpelichus*, 234.
A *mphiclotho*, 248.
A *mphientomum*, 326.
A *mphithomisus*, 248.
A *mphitrogulus*, 248.
A *mphotis*, 462.
A *mynilyspes*, 9.
A *naclinia*, 600.
A *ndrus*, 248.
A *nasa*, 385.
A *naspis*, 462.
A *natella*, 600.
A *natone*, 248.
A *nax*, 139, 326.
A *nchomenus*, 462.
A *ncouatus*, 385.
A *ncylocheira*, 190, 463.
A *ncylochira*, 190, 464.
A *ndræna*, 686.
A *ndrogeus*, 248.
A *ngerona*, 673.
A *nisomera*, 600.
A *nisopus*, 600.
A *nisorhynchus*, 190, 464.
A *nisotoma*, 464.
A *nobium*, 464.
A *nomala*, 465.
A *nomalites*, 465.
A *nomalon*, 228, 686.
A *nonnuma*, 685.
A *noplites*, 465.
A *noplites*, 465.
- A** *noplognathus*, 465.
A *nthaxia*, 466.
A *ntherophagus*, 466.
A *nthicus*, 466.
A *nthomyia*, 600.
A *nthonomus*, 467.
A *nthophagus*, 467.
A *nthophora*, 686.
A *nthophorites*, 687.
A *nthracerpes*, 10.
A *nthracida*, 601.
A *nthracoblattina*, 31, 104.
A *nthracomartus*, 19.
A *nthracoscorpio*, 20.
A *nthracothremma*, 71.
A *nthurax*, 602.
A *nthrenus*, 467.
A *nthribites*, 467.
A *nthribus*, 467.
A *nthus*, 467.
A *nirrhaea*, 673.
A *nliarhinites*, 468.
A *ntopia*, 249.
A *nyphæna*, 249.
A *panthesis*, 673.
A *pate*, 468.
A *pedia*, 602.
A *phaenogaster*, 687.
A *phana*, 385.
A *phantaphis*, 385.
A *philocheira*, 326.
A *phidioides*, 385.
A *phidopsis*, 385.
A *phillocheira*, 326.
A *phis*, 167, 386.
A *phodiites*, 190.
A *phodius*, 468.
A *phritis*, 602.
A *phrophora*, 387.
A *piaria*, 139, 228, 688.
A *piion*, 469.
A *pis*, 688.
A *pochrysa*, 139.
A *porema*, 388.
A *poroblattina*, 104.
A *radus*, 388.
A *ranea*, 20, 250.
A *raschnia*, 673.
A *rchæa*, 251.
A *rchæoprilus*, 32.
A *rchæoscolex*, 71.
A *rchegogyllus*, 33.
A *rchidesmus*, 10.

- Archilachnus, 389.
 Archimantis, 71.
 Archimulacris, 33.
 Archimyiacris, 33.
 Archiorhynchus, 191.
 Archipocus, 326.
 Architarbus, 20.
 Archiulus, 10.
 Argia, 327.
 Argutor, 469.
 Argya, 327.
 Argynnis, 673.
 Argyroneta, 252.
 Ariannes, 252.
 Arma, 390.
 Arnilia, 303.
 Artamus, 252.
 Arthrolycosa, 21.
 Arthropeas, 602.
 Arthropleurion, 11.
 Arthropterus, 470.
 Arytæna, 252.
 Asarcomyia, 602.
 Ascalaphus, 327.
 Ascogaster, 689.
 Asida, 470.
 Asilicus, 105, 222.
 Asilus, 223, 602.
 Asira, 168, 390.
 Asiraca, 168, 390.
 Aspasia, 140.
 Aspatherium, 327.
 Astynomus, 470.
 Asuba, 223.
 Asynapta, 603.
 Atracta, 603.
 Athera, 253.
 Atherix, 603.
 Athropleurion, 11.
 Atomaria, 470.
 Atopa, 470.
 Atractocerus, 470.
 Atropos, 327.
 Attagenus, 470.
 Attelabus, 471.
 Attoides, 253.
 Attopsis, 253, 689.
 Attus, 253.

 Bacteria, 303.
 Badister, 471.
 Bætus, 327.
 Bagous, 471.
 Balaninus, 472.
 Barbarothesa, 673.
 Baridium, 472.
 Baris, 472.
 Baseopsis, 106.
 Basiaschna, 328.
 Bassus, 690.
 Bdella, 253.
 Bellengera, 191.
 Bellingera, 191.
 Belostoma, 168, 229, 390.
 Belostomates, 390.
 Belostomum, 168, 229, 391.

 Bembicidioides, 472.
 Bembidium, 472.
 Beris, 603.
 Berosus, 191, 473.
 Berytopsis, 391.
 Berytus, 391.
 Bibio, 603.
 Bibiopsis, 610.
 Bifurculapes, 234.
 Bifurculipes, 235.
 Bittacus, 106, 140, 328.
 Blabera, 106.
 Blaniulus, 237.
 Blaps, 191.
 Blapsidium, 191.
 Blapsium, 192.
 Blatta, 34, 106, 303.
 Blattaria, 107.
 Blattidum, 34, 107, 140, 306.
 Blattina, 34, 72, 111, 306.
 Bledius, 473.
 Bolboceræ, 474.
 Bolbomyia, 611.
 Boletina, 611.
 Boletophagus, 474.
 Boletophila, 612.
 Bolitophagus, 474.
 Bombus, 230, 690.
 Bombusoides, 691.
 Bombycites, 673.
 Bombylius, 612.
 Bombylis, 612.
 Bombyx, 674.
 Bostrichus, 474.
 Bostrychus, 192, 474.
 Bothrideres, 475.
 Bothromicromus, 328.
 Bothynophora, 192.
 Brachinites, 192.
 Brachinus, 475.
 Brachycentrus, 328.
 Brachycerus, 475.
 Brachyderes, 476.
 Brachygaster, 691.
 Brachymycterus, 476.
 Brachynus, 476.
 Brachypelta, 391.
 Brachypeza, 612.
 Brachyptilus, 72.
 Brachypyge, 21.
 Brachystoma, 612.
 Brachytarsus, 476.
 Brachyurus, 476.
 Bracon, 691.
 Bradoponera, 691.
 Breyeria, 44, 72, 227.
 Bria, 223.
 Brodia, 72.
 Bruchus, 192, 476.
 Bryaxis, 477.
 Buprestidium, 192.
 Buprestis, 192, 477.
 Buprestites, 193, 479.
 Buprestium, 194.
 Buthus, 21, 254.
 Byrrhus, 480.

 Byrrhydium, 194.
 Bythinus, 480.
 Bythoscopus, 391.

 Cacalydus, 392.
 Cacoschistus, 392.
 Cæcilus, 329.
 Calenius, 480.
 Calandra, 480.
 Calasposoma, 480.
 Calathus, 481.
 Callidium, 481.
 Callisthenes, 481.
 Callomyia, 612.
 Calobamon, 612.
 Calobata, 613.
 Calonenra, 44.
 Calopteryx, 140, 329.
 Calosoma, 481.
 Calotermes, 21, 44, 72, 140, 329.
 Calothrips, 392.
 Calyptites, 692.
 Camponotus, 692.
 Campoplex, 693.
 Camposternus, 483.
 Campylomyza, 223, 613.
 Campyloptera, 72.
 Cantodontus, 195.
 Cantharis, 483.
 Capnodis, 483.
 Caprologus, 484.
 Capsus, 392.
 Carabicina, 195.
 Carabidium, 195.
 Carabites, 195, 484.
 Carabocera, 196.
 Carabus, 196, 485.
 Carbera, 485.
 Cardiophorus, 486.
 Carmelus, 392.
 Caryoborus, 486.
 Cassida, 196, 486.
 Catanæna, 393.
 Cateulacus, 693.
 Catopamera, 393.
 Catops, 487.
 Catopsylla, 393.
 Cecidomium, 223.
 Cecidomyia, 613.
 Celithemis, 330.
 Cemonus, 693.
 Centromachus, 21.
 Cephalocoris, 393.
 Cephites, 693.
 Cephus, 694.
 Cerambix, 487.
 Cerambycinus, 196.
 Cerambycites, 197, 488.
 Cerambyx, 197, 488.
 Ceraphron, 694.
 Ceratopogon, 613.
 Cerceris, 694.
 Cercidiella, 254.
 Cercopidium, 169, 693.
 Cercopis, 170, 393.
 Cercopites, 396.

- Cercopyllis, 170.
 Cercyon, 197, 483.
 Cermatia, 237.
 Cerylon, 197.
 Cetonia, 197, 488.
 Ceutorhynchus, 489.
 Chaetea, 306.
 Chaetoessa, 306.
 Chalcites, 694.
 Chalcoodermus, 489.
 Chalcoptera, 489.
 Chalicodoma, 691.
 Chauliodes, 141, 330.
 Chauliodites, 141.
 Chauliognathus, 489.
 Cheilosia, 223, 611.
 Cheiridion, 254.
 Cheiridium, 254.
 Cheiromachus, 254.
 Chelephlebia, 72.
 Chelifer, 99, 254.
 Chelignathus, 256.
 Cheliphlebia, 72.
 Chelonus, 694.
 Chenesia, 223.
 Chernes, 256.
 Cheyletus, 256.
 Chilocorus, 489.
 Chilosia, 223, 615.
 Chimarocephala, 306.
 Chimarra, 141.
 Chironomus, 223, 615.
 Chlanius, 198, 490.
 Chlorops, 618.
 Chori-dium, 490.
 Cholula, 396.
 Chonionotus, 11.
 Choragus, 490.
 Chresmoda, 113.
 Chrestotes, 73.
 Chrestotus, 73.
 Chrysis, 694.
 Chrysobothris, 198, 490.
 Chrysogaster, 618.
 Chrysomela, 198, 491.
 Chrysomelites, 199, 492.
 Chrysopa, 141, 330.
 Chrysothemis, 618.
 Chrysotus, 618.
 Chthonius, 256.
 Cicada, 171, 396.
 Cicadellites, 397.
 Cicadellium, 172.
 Cicadinella, 172.
 Cicadula, 398.
 Cicindela, 493.
 Cimbex, 695.
 Cimex, 172, 398.
 Cimicidium, 172.
 Cionus, 493.
 Cis, 493.
 Cistela, 493.
 Cistelites, 199, 494.
 Citylus, 494.
 Cixia, 172.
 Cixius, 172, 398.
 Clastoptera, 400.
 Clathrotermes, 113, 142.
 Cleonolithus, 494.
 Cleonis, 494.
 Cleonus, 494.
 Cleptes, 695.
 Cleptis, 695.
 Clerus, 496.
 Clivina, 496.
 Closterocoris, 400.
 Clostes, 256.
 Clubiona, 256.
 Clunionella, 258.
 Clya, 258.
 Clythia, 258.
 Clythra, 496.
 Clytra, 496.
 Clytus, 199, 497.
 Coccinella, 199, 497.
 Coccus, 400.
 Coelidia, 400.
 Coeliodes, 499.
 Colasposoma, 499.
 Coliates, 674.
 Colydium, 500.
 Colymbetes, 200, 500.
 Compsidia, 500.
 Coniatus, 500.
 Coniopteryx, 330.
 Coniortes, 330.
 Conocephalus, 114.
 Conops, 618.
 Conopsoidea, 235.
 Copeza, 235.
 Cophocoris, 400.
 Copris, 500.
 Coprologus, 501.
 Coptochromis, 400.
 Coreus, 400.
 Cordulegaster, 142.
 Cordulia, 331.
 Cordyla, 618.
 Cordylura, 619.
 Coreites, 400.
 Corethra, 619.
 Corethrium, 224.
 Corens, 401.
 Corimalaena, 401.
 Corisa, 401.
 Corixa, 172, 401.
 Corizus, 401.
 Coromyza, 619.
 Corticaria, 501.
 Corydalis, 73, 142, 331.
 Corydalites, 142.
 Corydaloides, 74.
 Corymbites, 501.
 Corynetes, 501.
 Corynitis, 259.
 Cossonus, 501.
 Cossus, 674.
 Cossyphus, 502.
 Craspedosoma, 238.
 Cratoparia, 502.
 Crematogaster, 695.
 Criocerina, 502.
 Crioceris, 502.
 Criorthina, 619.
 Criorthina, 619.
 Critoneura, 620.
 Cronieus, 331.
 Crossocerna, 695.
 Crypticus, 200.
 Cryptoccephalus, 200, 502.
 Cryptochromus, 402.
 Cryptohypnus, 503.
 Cryptophagus, 503.
 Cryptorhynchus, 503.
 Cryptus, 695.
 Ctenicerium, 201.
 Ctenoblattina, 114.
 Ctenophora, 620.
 Ctereacoris, 402.
 Cucorhinus, 503.
 Culex, 224, 620.
 Culicites, 621.
 Cupes, 503.
 Cupoides, 503.
 Cureulio, 201, 504.
 Cureulioidea, 22, 97.
 Curculionidium, 201.
 Curculionites, 201, 504.
 Cureulium, 202.
 Cartisimyia, 621.
 Cybister, 506.
 Cycchrus, 506.
 Cyclocoris, 172.
 Cycloclerma, 202.
 Cyclonotum, 507.
 Cycloptthalmus, 22.
 Cydamus, 402.
 Cydnopsis, 402.
 Cydnus, 403.
 Cylindrotoma, 621.
 Cyllo, 674.
 Cylloium, 143, 227.
 Cymatomera, 307.
 Cymatophlebia, 143.
 Cymatopterus, 507.
 Cymindis, 202, 507.
 Cymindoides, 507.
 Cynips, 696.
 Cyphon, 202, 507.
 Cyrtus, 331.
 Cyrtomenus, 404.
 Cyrtophyllites, 114.
 Cyrtosiphus, 307.
 Cytillus, 508.
 Cytaromyia, 621.
 Dara, 224.
 Dasyllus, 508.
 Dasyleptus, 74.
 Dasypoda, 696.
 Dasypogon, 621.
 Dasytes, 508.
 Decatoma, 696.
 Dectiens, 111, 307.
 Delphax, 173, 404.
 Deltocephalus, 404.
 Dermestes, 508.
 Derobrochus, 331.

- Diacanthus, 508.
 Diadocidia, 622.
 Dianepsia, 622.
 Diaperidium, 203.
 Diaphanoptera, 74.
 Diaplegma, 404.
 Diastatomma, 143.
 Dicælus, 508.
 Dicæra, 622.
 Dicerca, 509.
 Dichaneurum, 622.
 Dichela, 259.
 Dichrotrichus, 509.
 Dichroscyptus, 405.
 Dicranomyia, 622.
 Dictyocicada, 92.
 Dictyoneura, 45, 74, 143.
 Dictyophara, 405.
 Dictyophlebia, 75.
 Dictyophorites, 405.
 Dictyopteris, 47.
 Didineis, 696.
 Didymophleps, 75.
 Diechoblattina, 114.
 Dicconera, 75.
 Dielacata, 260.
 Dilophus, 623.
 Dinentes, 509.
 Dinutus, 509.
 Diorhiza, 624.
 Diplax, 332.
 Diplochila, 510.
 Diplolepis, 696.
 Diplonema, 623.
 Diplonychus, 405.
 Diplosis, 623.
 Dipluroblattina, 114.
 Dipterites, 623.
 Discostoma, 405.
 Dissosteira, 307.
 Ditomoptera, 173, 203.
 Dixia, 624.
 Docimus, 405.
 Dolernus, 696.
 Dolichopus, 624.
 Donacia, 510.
 Dorcadion, 513.
 Dorcadionoides, 513.
 Dorcasoides, 513.
 Dorcatoma, 513.
 Dorcus, 514.
 Doritomus, 514.
 Dorthesia, 405.
 Dorytomus, 514.
 Drapetis, 625.
 Drassus, 260.
 Dromius, 514.
 Drosophila, 625.
 Dryocates, 514.
 Duma, 23, 97.
 Dysagrion, 332.
 Dyscritus, 75.
 Dysdera, 260.
 Dysdercus, 406.
 Dyticus, 515.
 Dytiscus, 263, 515.
 Ebæns, 516.
 Echinomyia, 625.
 Eclytus, 696.
 Ectatomma, 696.
 Eileticus, 11.
 Ela, 143.
 Elaphrus, 516.
 Elater, 203, 516.
 Elaterites, 205, 518.
 Elaterinm, 205, 518.
 Elateropsis, 205.
 Elatior, 518.
 Elcana, 114, 143.
 Flectra, 625.
 Elephantomyia, 625.
 Elidiptera, 406.
 Elipsocus, 332.
 Elisama, 115.
 Elmis, 205.
 Elvina, 250.
 Elytridium, 206, 519.
 Embia, 333.
 Empheria, 333.
 Emphytus, 696.
 Empidia, 224.
 Empis, 625.
 Encænus, 75.
 Encæmerns, 697.
 Entermes, 333.
 Entimus, 519.
 Entomocephalus, 261.
 Eoatypus, 261.
 Eocicada, 173.
 Eojulus, 11.
 Eolycosa, 23.
 Eophrynus, 23.
 Eoscorpium, 24.
 Eotarbua, 25.
 Eotles, 406.
 Eotings, 406.
 Epeira, 261.
 Epeiridion, 262.
 Ephemera, 144, 333.
 Ephemerites, 76.
 Ephemeropsis, 145.
 Ephydra, 627.
 Epicarus, 519.
 Epicypta, 627.
 Epidosis, 627.
 Epiphania, 519.
 Epiplecia, 627.
 Epiptocus, 334.
 Eresoides, 262.
 Eresus, 262.
 Erigone, 263.
 Erinnys, 520.
 Eriocera, 627.
 Erioptera, 627.
 Eriphia, 627.
 Erirhinoides, 520.
 Erirhinus, 520.
 Eristalis, 627.
 Erithus, 263.
 Ero, 263.
 Erycus, 520.
 Erythræus, 264.
 Escheria, 520.
 Estemoa, 145.
 Etirocoris, 406.
 Etoblattina, 48, 116.
 Eucænus, 76.
 Euchroma, 206.
 Eucnemis, 521.
 Eucorites, 406.
 Eudiagogus, 521.
 Euphemerites, 76.
 Engereon, 92.
 Engnamptus, 521.
 Engonia, 674.
 Eumolpites, 206.
 Euneetes, 521.
 Euphrys, 265.
 Eupedilia, 628.
 Euphæa, 146.
 Euphemerites, 77.
 Euphoberia, 11.
 Euphorberia, 14.
 Euphrynus, 25.
 Euplectus, 521.
 Eupsimoides, 522.
 Eurhinus, 522.
 Eurychirus, 522.
 Eurydema, 406.
 Eurygaster, 407.
 Euryopus, 265.
 Eurypterus, 14, 52.
 Eurythyrea, 206, 522.
 Eurytrachelus, 522.
 Eusarcoris, 407.
 Euschistus, 407.
 Eutermes, 146, 335.
 Euteromopsis, 52, 77.
 Evzonus, 239.
 Evagoras, 407.
 Evania, 697.
 Exitelus, 407.
 Fabellovena, 227, 230.
 Feronia, 522.
 Feronites, 206.
 Ficarasites, 407.
 Flata, 146, 173, 407.
 Flegia, 265.
 Florissantia, 408.
 Forbicina, 335.
 Forficula, 307.
 Forficularia, 116.
 Formica, 697.
 Formicium, 230.
 Friganea, 335.
 Fulgora, 93, 408.
 Fulgorina, 93.
 Fuscus, 408.
 Fusslinia, 523.
 Galernca, 523.
 Galerncella, 524.
 Galerncites, 206.
 Gallernca, 524.
 Gallerncella, 524.
 Gea, 265.
 Geuentomum, 77.

- Genopteryx, 77.
 Geocoris, 498.
 Geophilus, 98, 239.
 Geotrupes, 206, 524.
 Gerablattina, 53.
 Gerahmura, 25.
 Geralycosa, 26.
 Geratcon, 408.
 Gerapompus, 78.
 Geraphrynus, 26.
 Gerarus, 78.
 Geratarbus, 26.
 Gerdia, 266.
 Gerophemera, 54, 79.
 Geroncutra, 79.
 Gerris, 408.
 Gesomyrmex, 709.
 Glaphyoptera, 207, 628.
 Glaphyrus, 525.
 Glenopterus, 525.
 Glessaria, 336.
 Gloma, 628.
 Glomeris, 239.
 Glossosoma, 336.
 Glypta, 709.
 Gnorimus, 525.
 Gnoriste, 628.
 Gera, 336.
 Goldenbergia, 55, 79.
 Gomphocerites, 117.
 Gomphocerus, 308.
 Gomphoides, 146, 336.
 Gomphus, 146, 336.
 Goniocena, 525.
 Gonocephalus, 526.
 Gonyleptes, 266.
 Gorgopis, 267.
 Gorytes, 709.
 Græa, 267.
 Graophonus, 26.
 Grammepus, 235.
 Grillus, 309.
 Gryllacris, 57, 79, 117, 369.
 Gryllidium, 117.
 Gryllites, 117.
 Gryllotalpa, 309.
 Gryllus, 117, 310.
 Gymnetron, 526.
 Gymnocheila, 526.
 Gymnopleurus, 526.
 Gynacantha, 147.
 Gypona, 408.
 Gyrinites, 208.
 Gyrinoides, 527.
 Gyrinus, 208, 527.
 Gyrophana, 527.

 Habrosoma, 628.
 Hadronema, 408.
 Hæmonia, 528.
 Hagenia, 173, 220.
 Hagla, 147.
 Halesus, 236.
 Haliplus, 528.
 Hallesus, 336.
 Hallomenus, 528.

 Halobates, 409.
 Halometra, 118, 173.
 Haltica, 209, 528.
 Halys, 409.
 Hammapteryx, 409.
 Haploneura, 629.
 Haplophlebium, 57.
 Haplotichnus, 236.
 Harmosites, 409.
 Harpactor, 409.
 Harpalidium, 209.
 Harpalus, 210, 528.
 Harpocera, 410.
 Harpepus, 236.
 Hasmona, 224.
 Hasseltia, 99.
 Hasseltides, 99.
 Heeria, 410.
 Heliolthrips, 410.
 Heliomorpha, 530.
 Helobia, 530.
 Helomyza, 629.
 Helophilus, 629.
 Helophorus, 210, 530.
 Helopides, 211.
 Helopidium, 211.
 Helopium, 211.
 Helops, 531.
 Hemeristia, 80.
 Hemeristica, 80.
 Hemerobioides, 148.
 Hemerobites, 337.
 Hemerobius, 148, 337.
 Hemerodromia, 629.
 Hemiteles, 709.
 Hermatoblattina, 58.
 Hersilioides, 268.
 Hersilia, 268.
 Hersilioides, 268.
 Hesthesis, 531.
 Heterogamia, 311.
 Heterogaster, 411.
 Heteromma, 268.
 Heteromyza, 629.
 Heterophlebia, 149, 338.
 Heterotricha, 629.
 Hevila, 26, 97.
 Hexagenites, 150.
 Hexapodiichnus, 236.
 Hexatoma, 629.
 Hilarites, 629.
 Hippicus, 311.
 Hipporhinus, 531.
 Hirtea, 630.
 Hister, 211, 532.
 Histopona, 269.
 Hodotermes, 338.
 Holcorpa, 339.
 Holopogon, 630.
 Homalium, 533.
 Homaloneura, 80.
 Homalota, 533.
 Homodemus, 412.
 Homoogamia, 311.
 Homothetus, 80.
 Hopatrum, 533.

 Hoplomaachus, 412.
 Horniscus, 534.
 Humbertiella, 118.
 Hybos, 630.
 Hybosorus, 534.
 Hydaticus, 534.
 Hydrana, 534.
 Hydrobiites, 211.
 Hydrobius, 211, 534.
 Hydrochus, 535.
 Hydrometra, 173, 412.
 Hydronautia, 339.
 Hydronomus, 536.
 Hydrophilites, 212, 536.
 Hydrophilopsis, 536.
 Hydrophilus, 173, 212, 536.
 Hydrophylites, 538.
 Hydrophylus, 538.
 Hydroporus, 213, 539.
 Hydropsyche, 150, 339.
 Hydroptila, 340.
 Hydrochestria, 340.
 Hydrous, 539.
 Hygronoma, 540.
 Hygrotrachus, 412.
 Hylastes, 540.
 Hylecetus, 540.
 Hylesinites, 540.
 Hylesinus, 97, 540.
 Hylobius, 541.
 Hylotoma, 412, 710.
 Hylotripes, 542.
 Hylurgus, 542.
 Hymenopterites, 710.
 Hypera, 213, 542.
 Hypoclinea, 710.
 Hysclonotus, 412.

 Ichneumon, 230, 711.
 Ichneumonites, 712.
 Ictinus, 340.
 Idmonia, 269.
 Hybius, 542.
 Hyodes, 14.
 Imholia, 713.
 Indusia, 340.
 Inoc-Hia, 341.
 Ips, 542.
 Ischnodes, 542.
 Ischyopteron, 173.
 Isophlebia, 150.
 Ixodes, 269.

 Jassopsis, 412.
 Jassus, 412.
 Julopsis, 98.
 Julus, 14, 240.
 Junonia, 675.
 Jupitecia, 675.

 Kalotermes, 341.
 Kampecaris, 15.
 Kleidocerys, 173.
 Kreischeria, 26.
 Kustarachne, 27.

- Labidostomis, 542.
 Labidura, 311.
 Labiduromma, 311.
 Laccobius, 542.
 Laccophilus, 213, 543.
 Laccophrys, 713.
 Lachnus, 413.
 Lacon, 213, 543.
 Lania, 213, 543.
 Lamiites, 213.
 Lampronymex, 713.
 Lampropholis, 341.
 Lamproptilia, 81.
 Lampyris, 544.
 Laprocercus, 544.
 Larinus, 544.
 Lasia, 544.
 Lasioptera, 630.
 Lasius, 713.
 Lathridiites, 213.
 Lathridius, 544.
 Lathrobium, 545.
 Lathridiites, 214.
 Latzelia, 15.
 Lebia, 545.
 Lebia, 545.
 Leda, 269.
 Ledophora, 415.
 Ledrophora, 118.
 Legnophora, 118.
 Leia, 630.
 Leiobunum, 269.
 Leistotrophus, 546.
 Leja, 630.
 Lema, 546.
 Lepidion, 342.
 Lepidotrix, 342.
 Lepisma, 342.
 Lepitrix, 546.
 Leptalea, 714.
 Leptis, 631.
 Leptoblattina, 58.
 Leptobrochus, 343.
 Leptogaster, 631.
 Leptoncura, 81.
 Leptopeza, 631.
 Leptophlebia, 343.
 Leptoscelis, 415.
 Leptothorax, 715.
 Leptura, 214, 546.
 Leptyma, 312.
 Lestes, 343.
 Lethites, 675.
 Leuetra, 344.
 Libella, 151, 344.
 Libellula, 27, 58, 82, 151, 345.
 Libellulites, 154.
 Libellulum, 154.
 Libillula, 154.
 Licinus, 546.
 Ligaeus, 415.
 Ligyrocoris, 415.
 Limnaeis, 415.
 Linnophilus, 348.
 Linnichus, 547.
 Linnius, 214.
 Linnobates, 415.
 Linnobia, 631.
 Linnobiorhynchus, 633.
 Linnochares, 269, 415.
 Linnophilus, 349.
 Linnopsycha, 349.
 Limonius, 547.
 Lina, 547.
 Lindenia, 154.
 Linnæa, 415.
 Linoptes, 269.
 Linyphia, 269.
 Liometopum, 715.
 Liparus, 547.
 Listrionotus, 548.
 Lithadothrips, 410.
 Lithagrion, 349.
 Lithaphis, 416.
 Lithaeophora, 416.
 Lithentomum, 82.
 Lithobius, 241.
 Lithocharis, 548.
 Lithochromus, 416.
 Lithocoris, 417.
 Lithographus, 236.
 Lithomantis, 58, 83.
 Lithomyiacris, 59.
 Lithomyza, 633.
 Lithophasma, 59, 83.
 Lithophysa, 633.
 Lithoplanes, 548.
 Lithopsis, 417.
 Lithopsycha, 675.
 Lithortalis, 633.
 Lithosia, 675.
 Lithosialis, 84.
 Lithotomus, 715.
 Lithymnetes, 312.
 Litobrochus, 350.
 Litoneura, 59.
 Lixus, 548.
 Locrites, 417.
 Locusta, 119, 312.
 Locustites, 313.
 Lognophora, 119.
 Lomatia, 633.
 Lomatus, 548.
 Lonchaea, 634.
 Lonchomyrmex, 715.
 Lophonotus, 242.
 Lophyrus, 715.
 Lopus, 417.
 Loricerca, 549.
 Loxandrus, 549.
 Lucanus, 549.
 Luciola, 549.
 Lunula, 236.
 Lycoperdina, 549.
 Lycosoides, 270.
 Lyctocoris, 417.
 Lyctus, 549.
 Lycus, 549.
 Lyda, 716.
 Lygaeites, 173, 417.
 Lygaeus, 418.
 Lygus, 420.
 Lymexilon, 549.
 Lymexylon, 549.
 Lystra, 174, 420.
 Lytta, 550.
 Macaria, 270.
 Machilis, 350.
 Macrocentrus, 716.
 Macrocera, 224, 634.
 Macrochile, 634.
 MacroGLOSSA, 676.
 Macromischa, 716.
 Macropalpus, 351.
 Macropeza, 224.
 Macroplebium, 95.
 Macroura, 634.
 Magdalinus, 550.
 Malachius, 550.
 Malthinus, 550.
 Malthodes, 550.
 Mantis, 60, 313.
 Mantispa, 84.
 Maresa, 351.
 Mastigusa, 271.
 Mateoschistus, 420.
 Mazonia, 27.
 Mecoccephala, 420.
 Meceterus, 634.
 Megablattina, 60, 95.
 Megacentris, 214.
 Megacentrus, 214.
 Megameropsis, 271.
 Maganeura, 60.
 Megaptilus, 60.
 Megasemum, 351.
 Megathentomum, 84.
 Melanophila, 214.
 Melanophora, 271.
 Melanothrips, 420.
 Meleus, 551.
 Meligethes, 551.
 Melipona, 716.
 Mellinus, 716.
 Meloe, 154, 214, 551.
 Melolontha, 215, 551.
 Melolonthidium, 215.
 Melolonthites, 552.
 Membracites, 420.
 Mengca, 552.
 Meristos, 553.
 Merodon, 634.
 Mesobates, 154.
 Mesoblattina, 120.
 Mesobrochus, 351.
 Mesochorus, 716.
 Mesoleptus, 716.
 Mesolenetra, 154.
 Mesonemura, 155.
 Mesoneta, 155.
 Mesopsychoda, 225.
 Mesosa, 215, 553.
 Mesosites, 553.
 Meteorus, 717.
 Metrobates, 421.
 Miamia, 85.
 Micranthaxia, 215.

- Micriphantes, 272.
 Microdon, 634.
 Microlabis, 27.
 Micropus, 421.
 Microrhagus, 553.
 Microzoum, 553.
 Micryphantes, 272.
 Milesia, 635.
 Minesa, 717.
 Miris, 421.
 Mixotermes, 86.
 Mizalia, 273.
 Mnemosyne, 421.
 Mochlouyx, 635.
 Molobins, 174.
 Molops, 553.
 Molorchus, 553.
 Molytes, 554.
 Monanthia, 421.
 Monodierana, 635.
 Monomorium, 717.
 Momonychus, 554.
 Monophlebus, 422.
 Mordella, 554.
 Mordellina, 554.
 Mormolucoides, 155, 215.
 Mormonia, 351.
 Mucropalpus, 351.
 Musca, 122, 225, 635.
 Muscaria, 637.
 Muscidites, 637.
 Mutilla, 717.
 Mycetobia, 637.
 Mycetocharoides, 554.
 Mycetophila, 637.
 Mycetophilites, 640.
 Mycetoporus, 554.
 Mycotretus, 555.
 Mycterns, 555.
 Mygale, 274.
 Myiolepta, 640.
 Mylabris, 555.
 Mylacris, 60.
 Mylothrites, 676.
 Myodites, 555.
 Myrmar, 717.
 Myrmecoleon, 351.
 Myrmedonia, 555.
 Myrmecleon, 155, 314, 352.
 Myrmica, 230, 717.
 Myrmicites, 720.
 Myrmicium, 231, 720.
 Mystacides, 352.

 Nabis, 422.
 Nannoblattina, 122.
 Nanophyes, 555.
 Nanthacia, 314.
 Naucoris, 174, 423.
 Naupactus, 555.
 Nebria, 555.
 Necrobromus, 423.
 Necrocynus, 424.
 Necropsocus, 352.
 Necropsylla, 424.
 Necticus, 556.

 Neeydalis, 556.
 Neezygonus, 424.
 Neezymylacris, 62.
 Nemastoma, 274.
 Nematus, 231.
 Nemestrina, 640.
 Nemobius, 314.
 Nemotelus, 640.
 Nemoura, 155, 352.
 Nemura, 352.
 Neorinopsis, 676.
 Neorthroblattina, 123.
 Neothanes, 556.
 Nepa, 174, 424.
 Nepbila, 275.
 Nephrotoma, 640.
 Nepidium, 174.
 Nepticula, 676.
 Nethania, 123.
 Neurocoris, 175, 425.
 Neuronina, 353.
 Neuropachys, 720.
 Neuropterites, 354.
 Nitidula, 556.
 Nitidulites, 216.
 Noctuites, 676.
 Nosodendron, 557.
 Notaris, 557.
 Nothochrysa, 354.
 Nothrus, 275.
 Notiophilus, 557.
 Notonecta, 175, 425.
 Nyctophylax, 426.
 Nymphalis, 677.
 Nymphalites, 677.
 Nymphes, 155, 354.
 Nymphon, 99, 354.
 Nysius, 426.

 Oberca, 557.
 Obisium, 275.
 Obrinm, 557.
 Ochtera, 640.
 Ochthebius, 558.
 Ochyrocoris, 426.
 Ocia, 276.
 Ocnertes, 677.
 Ocypete, 276.
 Ocypus, 558.
 Odontocerus, 354.
 Odontocheila, 558.
 Odontoda, 558.
 Odontomyia, 610.
 Odontota, 558.
 Oecophylla, 721.
 Oedemera, 558.
 Oedipoda, 123, 314.
 Oedischia, 62.
 Oeschna, 354.
 Oestrus, 640.
 Oliarites, 426.
 Oliarus, 426.
 Olibrus, 558.
 Oligotoma, 354.
 Omalia, 86.
 Omalium, 558.

 Omaseus, 558.
 Onca, 277.
 Oncotylus, 427.
 Oniticellus, 558.
 Onitis, 558.
 Orthophagus, 559.
 Opatrum, 560.
 Ophion, 721.
 Ophonus, 560.
 Ophryastes, 560.
 Opilio, 277.
 Opilo, 560.
 Opisthophylax, 278.
 Orchidimum, 315.
 Orchesia, 560.
 Oreina, 560.
 Oribates, 278.
 Orthophlebia, 156.
 Orthops, 427.
 Orthriocoris, 427.
 Oryctaphis, 427.
 Oryctes, 216.
 Oryctites, 216.
 Oryctoblattina, 63.
 Oryctoscirtetes, 561.
 Osmia, 721.
 Osmylus, 354.
 Otiiorhynchites, 216.
 Otiiorhynchus, 561.
 Oustaletia, 86.
 Oxycera, 640.
 Oxygonus, 562.
 Oxypete, 278.
 Oxyporus, 562.
 Oxytelus, 562.

 Pachycoris, 427.
 Pachymeria, 175.
 Pachymeridium, 175.
 Pachymerus, 175, 427.
 Pachypus, 563.
 Pachytilus, 315.
 Pachytylopsis, 63, 86.
 Pachytylus, 316.
 Paidium, 355.
 Paladicella, 355.
 Palaeoblattina, 63, 86.
 Palaeocampa, 15.
 Palaeochrysa, 355.
 Palaeocixius, 95.
 Palaeocoris, 429.
 Palaeocossus, 228.
 Palaeojulus, 15.
 Palaeomyrmex, 231.
 Palaeontina, 175, 228.
 Palaeophlebia, 157.
 Palaeophonus, 28.
 Palaeophonus, 28.
 Palaeopsocus, 355.
 Palaeothrips, 430.
 Palaeovelia, 430.
 Palaeorodes, 430.
 Palaranea, 28.
 Palecephora, 430.
 Palembolus, 641.
 Paleuarthrus, 16.

- Palephemera, 87, 158, 216.
 Palingenia, 87, 355.
 Palloptera, 641.
 Palpares, 158.
 Palpipes, 99.
 Pamphilites, 677.
 Panagæus, 563.
 Panorpa, 158, 356.
 Panorpidium, 123, 158.
 Paolia, 63.
 Papilio, 677.
 Paralatindia, 316.
 Parandra, 563.
 Parandrita, 563.
 Parapleurites, 124.
 Parattus, 278.
 Parodarnistus, 431.
 Parolamia, 563.
 Paromylacris, 64.
 Paropsocus, 356.
 Parotermes, 356.
 Passalceus, 721.
 Passandra, 563.
 Patrobus, 563.
 Paussoides, 564.
 Paussus, 564.
 Pediopsis, 431.
 Pelobius, 564.
 Peltis, 564.
 Pemphigus, 431.
 Pentatoma, 431.
 Pentatomites, 433.
 Penthaeleus, 278.
 Penthaelus, 279.
 Penthetria, 641.
 Pentodon, 564.
 Pepsis, 722.
 Perilampus, 722.
 Periplaneta, 124.
 Perla, 357.
 Perotis, 564.
 Petalia, 158.
 Petalura, 159, 357.
 Petrablattina, 64, 87, 124.
 Petrobius, 357.
 Petroblattina, 87.
 Petrolystra, 433.
 Petrorophus, 216.
 Pezomachus, 722.
 Phalacrus, 565.
 Phalacra, 677.
 Phalacrites, 678.
 Phalacromyia, 642.
 Phalangillum, 279.
 Phalangites, 100.
 Phalangium, 279.
 Phalangopus, 279.
 Phanaeus, 565.
 Phaneroptera, 124, 316.
 Phasma, 316.
 Pheidole, 722.
 Pheidologeton, 722.
 Phenolia, 565.
 Phidippus, 280.
 Philhydrus, 565.
 Philodromus, 281.
 Philonthus, 160, 216, 565.
 Philopotamus, 359.
 Philotarsus, 359.
 Phileocoris, 434.
 Phileothrips, 434.
 Pholcus, 282.
 Phora, 642.
 Phosphuga, 566.
 Phragmatecites, 175, 228.
 Phrudopamera, 434.
 Phryganea, 160.
 Phryganea, 160, 359.
 Phryganeidum, 160.
 Phryganeolitha, 362.
 Phryganidium, 160.
 Phrynus, 282.
 Phryssonotus, 243.
 Phthanocoris, 95.
 Phthiuocoris, 434.
 Phthiria, 642.
 Phygadeuon, 722.
 Phyllobius, 566.
 Phylloptera, 316.
 Phymaphoroides, 566.
 Phymophoroides, 566.
 Phytocoris, 434.
 Phytomissa, 282.
 Phytomus, 566.
 Phytoptus, 282.
 Pictetia, 87.
 Pierites, 678.
 Piesma, 436.
 Piezocoris, 436.
 Pimelia, 216.
 Pimpla, 722.
 Pintooides, 567.
 Pipiza, 642.
 Pipunculus, 642.
 Pirates, 436.
 Pissodes, 567.
 Plagiodera, 567.
 Plagiolepis, 723.
 Plangticinus, 236.
 Planocephalus, 362.
 Planophlebia, 436.
 Platephemera, 87.
 Platybunus, 282.
 Platycerus, 567.
 Platycnemis, 362.
 Platydema, 567.
 Platymeris, 437.
 Platinus, 567.
 Platyperla, 161.
 Platypus, 568.
 Platysma, 569.
 Platyura, 225, 643.
 Plecia, 643.
 Plinthus, 569.
 Ploaria, 437.
 Podagrion, 363.
 Podura, 363.
 Pöccilocapsus, 437.
 Pöccilus, 569.
 Pöocera, 437.
 Poliochera, 29.
 Poliomyia, 646.
 Polioptenus, 64.
 Polioschistus, 428.
 Polistes, 724.
 Polyxenus, 243.
 Polycentropus, 161, 363.
 Polyclona, 438.
 Polydesmus, 243.
 Polydrosus, 569.
 Polydrusus, 569.
 Polyernus, 88.
 Polyrhachis, 724.
 Polystichus, 569.
 Polystæchetes, 161.
 Polystæchotes, 161.
 Polyxenus, 243.
 Polyzosteria, 316.
 Polyzosterites, 65.
 Pompilus, 724.
 Poner a, 231, 725.
 Poneropsis, 727.
 Pontia, 678.
 Poriz n, 729.
 Poroblattina, 125.
 Porphyrops, 646.
 Posthon, 646.
 Potamanthus, 366.
 Poteschistus, 438.
 Prasocuris, 569.
 Prenolepis, 730.
 Principhora, 438.
 Priocnemis, 730.
 Prionidium, 217.
 Prionomyrmex, 730.
 Prionus, 217, 569.
 Pristorhynchus, 570.
 Procarabus, 217.
 Procoris, 438.
 Procerophius, 438.
 Procydus, 438.
 Prodryas, 678.
 Prolysdera, 283.
 Prodytiscus, 217.
 Progeotrupes, 217.
 Prognatha, 161, 217.
 Progonblattina, 65.
 Prolibytha, 678.
 Polygæus, 439.
 Polystra, 175.
 Prometopia, 570.
 Promylacris, 65.
 Pronemobius, 317.
 Pronophlebia, 617.
 Propetes, 283.
 Propreticus, 88.
 Propygoblattina, 125.
 Propygolampis, 176.
 Proscopi us, 29.
 Prosigara, 439.
 Prostemma, 439.
 Protactus, 570.
 Protagrion, 89.
 Protascalphus, 89.
 Protenor, 439.
 Protocampia, 89.
 Protochersis, 283.
 Protociccus, 96.
 Protocixius, 96.
 Protocoris, 176.
 Protodiamphipnoa, 89.

- Protogenia**, 570.
Protogryllacris, 65, 89.
Protokollaria, 89.
Protolachesis, 284.
Protolindenia, 161.
Protolycosa, 29, 284.
Protomyia, 225, 647.
Protopera, 89.
Protophasma, 65.
Protoscalidion, 571.
Prototettix, 66, 89.
Prototoma, 218.
Pseudadia, 678.
Pselaphus, 571.
Psen, 730.
Pseudocistela, 571.
Pseudoclater, 571.
Pseudohydrophilus, 218.
Pseudomyrme, 730.
Pseudopachygnathus, 284.
Pseudoperla, 317.
Pseudophana, 439.
Pseudophania, 440.
Pseudosirex, 228, 231.
Pseudothomisus, 284.
Psila, 652.
Psilites, 652.
Psilopus, 653.
Psilota, 653.
Pailus, 730.
Psocus, 366.
Psyche, 679.
Psychoda, 653.
Psychomia, 367.
Psychomyia, 368.
Psychoptera, 225.
Pterichnus, 236.
Pterinoblattina, 125.
Pteromalinites, 730.
Pteromalus, 730.
Pteromus, 730.
Pterostichus, 571.
Pterostigma, 440.
Ptilmus, 573.
Ptilodactyloides, 574.
Ptinus, 574.
Ptomaphagus, 574.
Ptychoptera, 225, 653.
Ptyela, 440.
Ptyelus, 440.
Pulex, 653.
Pycnogonites, 100.
Pycnophlebia, 126.
Pycnolampis, 126, 176.
Pyrallites, 679.
Pyrochroa, 218, 574.
Pythonidium, 574.
Pythonissa, 284.

Quedius, 574.

Ranatra, 440.
Rapha, 161.
Raphidia, 368.
Raphidium, 162.
Reduvius, 440.
Remalia, 225.

Rhamphidia, 653.
Rhamphomyia, 654.
Rhaphium, 654.
Rhepocoris, 441.
Rhingia, 655.
Rhinobatus, 575.
Rhinoeylus, 575.
Rhipidia, 655.
Rhipidoptera, 96.
Rhipidius, 575.
Rhipidorhabdus, 228, 232.
Rhipiphorus, 575.
Rhizophagus, 576.
Rhizotrogus, 576.
Rhopalomyrmex, 731.
Rhyacophila, 369.
Rhynchanus, 576.
Rhynchites, 576.
Rhyncholoprus, 285.
Rhyarochromus, 441.
Rhyphus, 225, 655.
Rhyssa, 731.
Ricania, 127, 176, 441.
Ripiphorus, 577.
Rithma, 127.
Rophalis, 369.
Rumphomyia, 656.
Rymosia, 656.
Ryphus, 656.

Sackenia, 656.
Sagittarius, 237.
Salda, 441.
Saltator, 237.
Salticus, 286.
Sama, 225.
Samarura, 162.
Saperda, 577.
Saperdides, 218.
Sapromyza, 656.
Sapyja, 731.
Sargus, 656.
Satyrites, 679.
Satyrus, 679.
Sbenaphis, 442.
Scaphidium, 218, 578.
Scaphidnum, 218.
Scaphisoma, 578.
Scarabaeides, 176.
Scarabaetes, 218.
Scarabaeoides, 176.
Scarabeus, 176, 218, 578.
Scarites, 578.
Scatophila, 657.
Scatops, 657.
Scatopse, 657.
Schellenbergia, 287.
Schizoneura, 442.
Schizoneuroides, 442.
Sciara, 162, 225, 657.
Sciaris, 659.
Sciobia, 659.
Sciomyza, 659.
Sciophila, 226, 660.
Scolia, 731.
Scolopendra, 211.
Scolytus, 578.

Scorpio, 29, 287.
Scrapta, 578.
Scudderia, 30, 96.
Scutino-blattina, 129.
Scydmanoides, 579.
Scydmanus, 579.
Scyllina, 317.
Scymnus, 579.
Scyrtes, 579.
Segestria, 287.
Sejus, 288.
Selandria, 731.
Semblis, 369.
Sendelia, 661.
Seniathus, 579.
Sepidium, 579.
Serica, 579.
Sericostomum, 370.
Sesia, 679.
Setodes, 370.
Sialium, 130, 162.
Silynes, 580.
Siga, 288.
Silicernius, 580.
Silpha, 218, 580.
Silphate, 218.
Silphites, 219.
Silvanus, 581.
Silvius, 661.
Sima, 731.
Simulia, 661.
Simulidnum, 226.
Simulium, 226, 661.
Sinia, 581.
Siphonophoroides, 442.
Sirex, 232.
Sisyphus, 581.
Sisyrus, 370.
Sitodrepa, 581.
Sitona, 581.
Sitones, 581.
Sitonites, 219.
Smicronyx, 582.
Smynturus, 371.
Solenopsis, 731.
Sosibius, 289.
Sospita, 582.
Sosybius, 289.
Spartocerus, 443.
Spermophagus, 582.
Sphaerapus, 237.
Sphaerodema, 177.
Spharopocus, 371.
Sphreconia, 289.
Sphrecoptera, 89.
Sphregina, 662.
Sphenophorus, 583.
Sphenoptera, 219, 583.
Sphex, 732.
Sphinx, 228, 232, 679.
Spiladomyia, 662.
Spilaptera, 66.
Spiloblattina, 130.
Spodylis, 583.
Staphylinites, 583.
Staphylmus, 584.
Statira, 585.

- Steneattus*, 289.
Stenocinclis, 662.
Stenopamera, 443.
Stenopelta, 443.
Stenophlebia, 162.
Stenopoda, 443.
Stenovelia, 443.
Stenus, 585.
Sterope, 371.
Steropus, 586.
Sthenarocera, 67.
Sthenaropoda, 67.
Stigmomyrmex, 732.
Stilicus, 586.
Stolopsyche, 680.
Stomis, 586.
Stomoxya, 662.
Stomoxys, 662.
Stratiomys, 662.
Streblocladus, 90.
Strongylites, 219.
Strongylus, 586.
Strophosomus, 586.
Styringia, 662.
Styringomyia, 662.
Sunius, 586.
Suphalasca, 371.
Sybines, 586.
Sychnobrochus, 443.
Sylvanus, 586.
Sympyca, 371.
Syphax, 289.
Syromastes, 443.
Syrphus, 663.
Syrtis, 444.
Systemonotus, 444.

Tabanus, 664.
Tachina, 664.
Tachinus, 586, 665.
Tachydromia, 665.
Tachypeza, 665.
Tachyporus, 586.
Tæniopteryx, 371.
Tænioptrix, 372.
Tagalodes, 444.
Tagenopsis, 587.
Tanymecus, 587.
Tanymera, 665.
Tanypus, 226, 665.
Tanysphyra, 665.
Tanysphyrus, 587.
Taphacris, 317.
Tapinoma, 732.
Tarsophlebia, 163.
Taxonus, 732.
Tegenaria, 290.
Teleoschistus, 444.
Telepherium, 220.
Telephorus, 220, 587.
Telmatrechus, 445.
Tenebrio, 220, 588.
Tenor, 445.
Tenthredo, 732.
Tentyridium, 220.
Tephraphis, 445.

Tephritis, 666.
Ternes, 30, 67, 90, 163, 372.
Termitium, 69.
Termitidium, 69, 90, 164.
Termopsis, 378.
Tetanocera, 666.
Tethnaus, 291.
Tethneus, 291.
Tetragnatha, 291.
Tetranychus, 292.
Tetrix, 317.
Tettigidea, 318.
Tettigometra, 445.
Tettigonia, 177, 445.
Tetyra, 446.
Textrix, 292.
Thaites, 680.
Thamnotettix, 446.
Thanatites, 680.
Thelyphonus, 39.
Thentredo, 733.
Therea, 292.
Thereua, 666.
Thereva, 666.
Theridion, 293.
Theridiosoma, 293.
Theridium, 293.
Thimna, 226.
Thiras, 226.
Thirza, 666.
Thibomenus, 447.
Thimmoschistus, 447.
Thnetoschistus, 447.
Thomisus, 296.
Thrips, 447.
Throscus, 589.
Thurmannia, 220.
Thyelia, 297.
Thylacites, 589.
Tillus, 589.
Timarcha, 589.
Timarchopsis, 220.
Tinea, 228, 680.
Tineites, 164, 228, 681.
Tingis, 449.
Tinodes, 379.
Tipula, 226, 666.
Tipularia, 227.
Tiromerus, 449.
Tiroschistus, 449.
Titanoca, 298.
Titanophasma, 69.
Tityus, 298.
Tmesiphoroides, 589.
Tophoderes, 590.
Tortrix, 681.
Torymus, 733.
Toxorhina, 669.
Trachyderes, 590.
Trapezonotus, 449.
Trechinites, 590.
Trechoides, 590.
Trechus, 590.
Trepticmus, 237.
Triena, 590.
Tribochrysa, 379.

Trichaptum, 90.
Trichiulus, 15.
Trichius, 591.
Trichocera, 670.
Trichoneura, 670.
Trichonta, 671.
Trichopteridium, 165.
Trichostomum, 380.
Tricophora, 450.
Tricéphora, 450.
Trigona, 733.
Triphæna, 681.
Triphyllus, 592.
Trixagites, 221.
Troctes, 380.
Trogosita, 592.
Trogulus, 221.
Trogus, 221, 733.
Trombidium, 299.
Tropisternus, 593.
Trox, 593.
Troxites, 97.
Trypeta, 671.
Tryphon, 733.
Trypodendron, 593.
Tychius, 593.
Typhia, 733.
Typhlocyba, 450.
Typhlocypha, 450.
Tyrbula, 318.
Tyrpeta, 671.

Uloma, 594.
Urocerites, 733.
Uroctea, 300.
Urodon, 594.
Uropetala, 165.

Valgus, 594.
Vanessa, 681.
Velanovskya, 221.
Velia, 177.
Vespa, 734.

Wollastonia, 221.
Wollastonites, 221.
Woodwardia, 91.

Xantholinus, 591.
Xenonera, 91.
Xya, 318.
Xyletinites, 594.
Xylobius, 16.
Xylocopa, 734.
Xylophagus, 671.
Xyloryctes, 98.
Xysticus, 300.

Ypsolophus, 681.

Zalmona, 165.
Zeilleria, 92.
Zetobora, 318.
Zilla, 300.
Zonites, 594.
Zonitis, 594.
Zygæna, 682.
Zygoneura, 671.

