

ERRATA.*

Page 47, line 6, page 48, line 8, and page 49, lines 5, 9, and 10 from bottom, for *clitellus* read *clitellum*.

Page 79, line 9, for *Opilonca* read *Opilionca*.

Page 108, line 11, for *longitudinal* read *circular*.

Page 109, line 8, for *worms* read *body*.

Page 115, line 1, dele initial *R*.

Page 122, line 10, for *ten* read *twenty*.

Page 138, line 16, for *Blackisded* read *Black-sided*.

Page 185, line 13 from bottom, page 228, line 17, and page 229, line 7 from bottom, for *troosti* read *troostii*.

Page 187, line 12 from bottom, page 272, line 6 from bottom, and page 275, line 1, for *kirtlandi* read *kirtlandii*.

Page 187, line 15 from bottom, for *lineata* read *lineatum*.

Page 213, line 17 from bottom, for 7 read .7.

Page 214, line 7, for 7 and 3 read .7 and .3.

Page 224, line 13 from bottom, for *Tortoise* read *Tortoises*.

Page 225, line 3, for *picta* read *marginata*.

Page 240, line 6 from bottom, for 1824 read 1825, and before pp. insert IV.

Page 242, line 8 and 12 from bottom, and page 243, line 1, for *Macroclermys* read *Macroclermys*.

Page 252, line 11, for *Crematogaster* read *Cremastogaster*.

Page 269, line 22 from bottom, and page 271, line 1, for *fasciatus* read *fasciata*.

Page 272, line 9 from bottom, and page 273, lines 7 and 14 from bottom, for *grahami* read *grahamii*.

Page 293, line 13 from bottom, for *elapsoidea* read *elapsoidens*.

Page 295, line 6, for *triangulum* read *triangulus*.

Page 309, lines 5 and 6 and line 3 from bottom, for *amœnus* read *amœna*.

Page 349, line 3 from bottom, for *A* read *W*.

Page 352, line 16, for *Icthyomorpha* read *Ichthyomorpha*.

Page 353, line 4 from bottom, for *Menopomida* read *Cryptobranchida*.

Page 366, line 16, and page 367, line 14 from bottom, for *erythronota* read *erythronotus*.

Page 367, line 8 from bottom, for *relations* read *relation*.

Page 371, line 11 from bottom, for *cingulata* read *cingulatatum*.

Page 378, line 7, dele period after prehension. S. Garman is authority for last sentence of paragraph only.

Page 385, line 4 from bottom, dele comma after its.

Page 410, line 18 from bottom, for *sublata* read *subulata*.

Page 411, line 11, for *bimabulata* read *bimaculata*.

Page 431, line 16 from bottom, for *mutica* read *muticus*.

Page 435, line 12 from bottom, for *querci* read *quercus*.

Page 441, line 19, for *Salamandra* read *salamandra*.

Page 451, line 14 from bottom, for *Auonophora* read *Aconophora*.

Page 486, line 4, for *limabta* read *limbata*.

Page 494, line 2 from bottom, and page 495, lines 13 and 16, for *lineatus* read *lineata*.

*See also pp. 178-181 of Article XIV.

ADDENDA AND ERRATA.

To complete the list of species recognized by Stål as belonging to this family, the following are appended, not from the belief that they belong here, but because there should be no hasty change made in the classification of the Homoptera until they have been more carefully studied.*

SUBFAMILY CENTROTINÆ, STÅL.

LXVI. TOLANIA, STÅL.

276. *T. OPPONENS*, Walk.

1858. *Centrotus opponens*. Walk. List Hom. B. M. Suppl. 159.

1862. *Tolania opponens*. Stål. Öf. Vet.-Akad. Förh. 491.

Hab.—Mex. (Walker).

LXVII. † ÆTHALION, LATR.

277. *A. GRATUS*, Walk.

1858. *Æthalion gratum*. Walk. List Hom. B. M. Suppl. 169.

1864. *Æthalion dilatatum*. Stål, Hem. Mex. 73, 450.

1869. *Æthalion gratus*. Stål, Bid. Memb. Kän. 299, 14.

Hab.—Mex. (Walker).

278. *A. NERVOSO-PUNCTATUS*, Sign.

1851. *Æthalion nervoso-punctatum*. Sign. Ann. Ent. Soc. France, Sér. 2, ix, 679, 14, pl. 14, fig. 10.

1858. *Æthalion nervoso-punctatum*. Walk. List Hom. B. M. Suppl. 168.

1869. *Æthalion nervoso-punctatus*. Stål. Bid. Memb. Kän. 299, 12.

Hab.—Mex. (Walker).

*None of the species mentioned here have a prolongation of the prothorax backward, and they rightfully belong with the Jassidæ.

† There are 68 instead of 67 genera represented in this catalogue, and 282 species instead of 278, XIV., 41, 42, 43, and 44 being duplicated.

The following additional localities have been obtained since this catalogue was put in the printer's hands:

For numbers 7, 8, 140, 177, 203, 204, 205, 206, 211, and *Aconophora lanceolata*, Fairm., Guatemala (*Henshaw*); 14, 27, and 142, Me. and Mass. (*Henshaw*); 15, Ia. (*Osborn*), N. Y. (*Van Duzee*); 19, Mich. (*Cook*), Pa. (*Rathvon*), Me. (*Henshaw*); 21, N. Y. (*Lintner*); 14, 19, 22, 27, 28, 41, 53, 65, 71, 76, 85, 96, 107, 131, 216, 223, 261, Neb. (*Barber*); 28, Mich. (*Cook*), Me., Fla., Tex., Calif., and B. C. (*Henshaw*); 34, 44, 66, 91, 116, 122, 132, and 145, Mich. (*Cook*); 41, B. C. (*Henshaw*), Nev. (*Hillman*); 43, Miss. (*Weed*), Mich. (*Cook*); 46, Mass. (*Henshaw*), Mich. (*Cook*); 52, Mich. (*Cook*), Ia. (*Osborn*), Va. and Md. (*Henshaw*); 55, Mich. (*Cook*), Pa. (*Rathvon*), Ia. ? (*Osborn*), Me. (*Henshaw*); 57, Ill. (*Goding*); 65, 68, 75 (recorded as *jugata* Uhler, which is a MS. name), 131, and 261, Ia. (*Osborn*); 67, Mich. (*Cook*), Mass. and Me. (*Henshaw*); 72, Mass. (*Henshaw*); 73, 83, and 85, Ia. ? (*Osborn*); 86, Mass. and Pa. (*Henshaw*); 95, Pa. (*Rathvon*); 97, and 119, Ia. (*Osborn*), Mich. (*Cook*); 114, Mich. (*Cook*), Tex. (*Henshaw*); 121, Pa. (*Henshaw*); 136, and 192, Va. (*Henshaw*); 137, N. Mex. (*Townsend*), Col. (*Gillette*); 138, Col. (*Goding*); 188, Va., Tex., and Vict. (*Henshaw*); 194, Mass., Tex., Calif., Vict. (*Henshaw*); 198, Cent. Am. (*Henshaw*); 217, Me. (*Henshaw*); 223, Mich. (*Cook*), Anticosti, Mass., Pa., Md., Va., D. C., Oregon, and Wash. (*Henshaw*); 248, Tex. (*Henshaw*).

Page 391, line 19, for *Entomolgique* read *Entomologique*.

Page 393, for No. 5 substitute as follows: *

P. DISPAR, Fabr.

1803. *Darnis dispar*. Fabr. Syst. Rhyng. 32, 23.

1836. *Entylia dispar*. Burm. Silb. Rev. iv, 182, 2.

1869. *Parmula dispar*. Stål, Hem. Fabr. ii, 29, 1.

Hab.—Mexico (*Goding*).

Page 397, between lines 12 and 13 from bottom insert as follows: 1893. *Entilia sinuata*. Rice, Insect Life, v, 243.

Page 399, line 7, after "one" insert *female*.

* *P. munda*, Walk, belongs to *Phanusa* (*Fide Fowler*)

Page 400, between lines 9 and 10 insert as follows: 1851. *Cyphonia rectispina*. Walk. List Hom. B. M. 597, 6; line 19, for *postfasciata* read *postfasciata*.

Page 401, line 4, for *bubalus* read *diceros*.

Page 402, at bottom of page add as follows:

1891. *Ceresa bubalus*. Fletcher, Rep. Ent. and Bot. Can. 191.

1892. *Ceresa bubalus*. Osb. Trans. Ia. Hort. Soc. 119, fig. 30.

1893. *Ceresa bubalus*. Osb. Fruit and Forest Tree Ins. 24, fig. 30.

Page 403, line 21, for the interrogation point substitute a period; between lines 2 and 3 from bottom insert as follows:

1892. *Ceresa taurina*. Osb. Trans. Ia. Hort. Soc. 119.

1893. *Ceresa taurina*. Osb. Fruit and Forest Tree Ins. 24.

Page 409, between lines 4 and 5 from bottom insert as follows: *Stictocephala gillettei*, ♂. Godg. Ent. News, iii, 200.

Page 411, line 2, for *nigripes*, Stål, read *munda*, Walk.; between lines 2 and 3 insert as follows: 1858. *Parmula munda*. Walk. List Hom. B. M. Suppl. 152; line 4, for Mex. (Stål), read Mex. and Guatemala (*Walk.*).

Page 412, between lines 11 and 12 from bottom insert as follows:

1892. *Thelia crataegi*. Osb. Trans. Ia. Hort. Soc. 119.

1893. *Thelia crataegi*. Osb. Fruit and Forest Tree Ins. 24.

Page 413, line 12 from bottom, and page 414, line 1, for *acuminata* read *acuminatus*.

Page 414, line 11, for *Hyphinae* read *Hyphinoë*.

Page 416, line 3 from bottom, for *Telamona* read *Membracis*.

Page 417, line 1, for 1841 read 1851.

Page 422, between lines 8 and 9 insert as follows: 1892. *Telamona mexicana?* Godg. Ent. News, iii, 108.

Page 424, line 9, for *top* read *tips*.

Page 425, line 6, dele "fig."; line 2 from bottom, for *galata* read *galeata*.

Page 427, line 4 from bottom, for *Membracis* read *Acutalis*.

Page 429, line 15, after "lower" insert *edge*.

Pages 435 and 436. *Note*.—An examination of the types shows that numbers 122 to 126 belong to *Cyrtolobus*.

Page 437. After the numbers 128, 129, and 130, for *A.* read *E.* *

Page 441, line 17 from bottom, for *V.* read *Amastris* †; line 4 from bottom, insert (?) before *V.*

Page 442, between lines 8 and 9 insert as follows: 1851. *Thelia expansa*. Walk. List. Hom. B. M. 563, 26; between lines 14 and 15 from bottom, insert as follows: *Thelia marmorata*. Walk. List. Hom. B. M. 555, 4.

Page 444, line 15 from bottom, after "scar" insert as follows: Apical cell much longer than in *marmorata*, the length exceeding the breadth more than twice, while in *marmorata* the cell is but a little longer than broad; line 14 from bottom, after "fuliginous" and "yellow" substitute semicolons for commas; line 7 from bottom, after "process," add as follows: in not being suddenly depressed a short distance before apex, in not having the median carina flat from this depression, and in being much more depressed anteriorly.

Page 445, line 8. *Note*.—Through the kindness of Rev. W. W. Fowler, of Lincoln, England, I have had the opportunity to examine Stål's type of the genus *Optilete*, and, as surmised, it proves to be a typical *marmorata*, Say. Between lines 16 and 17 from bottom insert as follows: 1851. *Hemiptycha longicornis*. Walk. List Hom. B. M. 569, 7.

Page 449, line 10 from bottom, *Note*.—Walker's *Darnis lineola* belongs to *Phacusa* (*Fide* Fowler).

Page 452, No. 181, for *prunitia*, Butler, read *hastata*, Stål (*Fide* Fowler).

* *Ashmeadea* being preoccupied, the name was changed to *Eyashmeadea*.

† A more careful study of the species places it in *Amastris*.

ARTICLE XIV.—*Bibliographical and Synonymical Catalogue of the Described Membracidae of North America.* By F. W. GODING, M. D., Ph. D.

INTRODUCTION.

The following catalogue is designed as an index to the literature of the Membracidae of North America, including Mexico, Central America, and the West Indies.

A few species have been seen that could not be referred to any known forms, and these are described in the following pages.

In a few cases where the reference occurred in a volume the title of which was very long, I have used the title of the essay only. The following instances are the most important: Stål's *Hemiptera Fabriciana*, II., (in Kongl. Svenska Vetenskaps-Akademiens Handlingar, Band 8, No. 1), Stål's *Bidrag till Membracidernas Kännedom* (in Öfversigt af Kongl. Vetenskaps Akademiens Förhandlingar, 1869, No. 3), Fairmaire's *Revue de la Tribu des Membracides* (in Annales de la Société Entomologique de France, 2^e Série, Tome IV.), and Stål's *Hemiptera Mexicana* (in Stettiner Entomologische Zeitung, 1864). A few other citations of this kind occur, but it is believed that little difficulty will be had in following any reference found in this catalogue.

I take this occasion to thank those from whom I have received aid in the compilation of this list. Especially do I wish to acknowledge obligations to Prof. C. V. Riley for valuable suggestions, for a list of the Membracidae in the National collection, and for examples of all the duplicates of this family in the U. S. National Museum; and to Prof. S. A. Forbes for the use of the library and collection of the Illinois State Laboratory of Natural History (without the use of which this list could not have been completed), and for a list of the Membracidae in the State collection. My thanks are also due to the entire corps of assistants at the Laboratory for their uniform kind-

ness and numberless favors; to Mr. W. H. Ashmead for material; to Prof. Herbert Osborn for identification of specimens; to Mr. E. P. Van Duzee, of Buffalo, N. Y., for many suggestions and a review of the manuscript, which he improved by the addition of important references and the making of some needed changes; to Mr. C. W. Stromberg and Mr. O. S. Westcott for many valuable examples of Illinois species; and to Miss Emma Bird for the greater part of the clerical work of preparing the catalogue for publication.

The Membracidae are distinguished as follows by Comstock in his tables of the families of Homoptera:* "Beak evidently arising from the mentum; tarsi three-jointed; antennae minute, setiform. Ocelli only two in number or wanting; males without musical organs. Antennae inserted in front of and between the eyes. Prothorax prolonged into a horn or point above the abdomen."

For the convenience of those who may not have access to the work I will give Stål's synoptic table of the subfamilies of Membracidae as published by him in *Hemiptera Africana*, IV., pp. 82 and 83:

Scutellum wanting or obsolete, not extended beyond metanotum.

Posterior tarsi small, [much] shorter than anterior.....
.....HOPLOPHORINÆ.

Tarsi of [nearly] equal length, or posterior longer than anterior.

Tibiae and sides of face dilated, foliaceous....MEMBRACINÆ.

Tibiae simple.

Tegmina entirely membranaceous; veins distinct.

Third apical cell elongate, never petiolate..DARNINÆ.

Third apical cell subtriangular, petiolate, adjacent cells contiguous.....SMILINÆ.

Tegmina coriaceous and opaque externally, with scarcely distinguishable veins in this portion...TRAGOPINÆ.

Scutellum distinct, produced beyond metanotum.....CENTROTINÆ.

A synopsis of the genera found in North America appeared in *Trans. Am. Ent. Soc.*, Vol. XIX., pp. 253-260.

*Introduction to Entomology, p. 134.

CATALOGUE.

SUBFAMILY TRAGOPINÆ, STÅL.

I. TRAGOPA, LATR.

1. T. DOHRNI, Fairm.
1846. *Tragopa dorhni*. Fairm. Rev. Memb. 487, 10,
pl. vii, fig. 3.
1851. *Tragopa dorhni*. Walk. List Hom. B. M. 582, 11.
Hab.—Santa Cruz, W. I. Is. (*Fairmaire*).
2. T. DIMIDIATA, Fairm.
1846. *Tragopa dimidiata*. Fairm. Rev. Memb. 487, 12.
1851. *Tragopa dimidiata*. Walk. List Hom. B. M.
582, 13.
Hab.—West. States (*Riley*).

II. HORIOLA, FAIRM.

3. H. DISCALIS, Walk.
1858. *Horiola discalis*. Walk. List Hom. B. M. Suppl.
154.
Hab.—Vera Cruz (*Walker*).
4. H. EPHIPIUM, Burm.
1836. *Tragopa ephippium*. Burm. in Silb. Rev. iv, 191,
13.
1846. *Horiola ephippium*. Fairm. Rev. Memb. 493.
1851. *Horiola ephippium*. Walk. List Hom. B. M.
586, 6.
Hab.—Central Am. (*Walker*).

III. PARMULA, FAIRM.

5. P. MUNDA, Walk.
1858. *Parmula munda*. Walk. List Hom. B. M. Suppl.
152.
Hab.—Mexico and Guatemala (*Walker*).

SUBFAMILY SMILIINÆ, STÅL.

IV. ADIPPE, STÅL.

6. A. ZEBRINA, Fairm.

1846. *Oxygonia zebrina*. Fairm. Rev. Memb. 305, 12.
 1851. *Oxygonia zebrina*. Walk. List Hom. B. M. 553,
 17.
 1858. *Oxygonia histrio*. Walk. Ins. Saund. 71.
Oxygonia figurata. Walk. List Hom. B. M.
 Suppl. 137.
 1864. *Oxygonia zebrina*. Stål, Hem. Mex. 73, 446.
 1869. *Adippe zebrina*. Stål, Bid. Memb. Kän. 234, 2.
Hab.—Mex. (Stål).

V. POLYGLYPTA, BURM.

7. P. COSTATA, Burm.

1835. *Polyglypta costata*. Burm. Handb. Ent. ii, 142, 1.
 1836. *Polyglypta costata*. Burm. in Silb. Rev. iv, 177,
 1, pl. 36, fig. 5-7.
 1846. *Polyglypta costata*, ♀. Fairm. Rev. Memb. 296, 1.
Polyglypta pilosa, ♂. Fairm. Rev. Memb. 296, 2.
 1851. *Polyglypta costata*. Walk. List Hom. B. M.
 542, 1.
Polyglypta pilosa. Walk. List Hom. B. M. 543, 2.
 1858. *Polyglypta strigata*. Walk. List Hom. B. M.
 Suppl. 136.
 1864. *Polyglypta costata*. Stål, Hem. Mex. 72, 439.
Polyglypta pilosa. Stål, Hem. Mex. 73, 440.
 1869. *Polyglypta costata*. Stål, Bid. Memb. Kän. 240, 1.
 1877. *Polyglypta costata*. Butler, Cist. Ent. ii, 208, 2.
Hab.—Mex. (Stål).

8. P. DORSALIS, Burm.

1836. *Polyglypta dorsalis*. Burm. in Silb. Rev. iv, 178, 2.
Polyglypta maculata. Burm. in Silb. Rev. iv,
 178, 3.
Polyglypta pallipes. Burm. in Silb. Rev. iv,
 179, 4.
 1843. *Polyglypta sicula*. Am. & Serv. Hem. 541, 2.

1843. *Polyglypta flavomaculata*. Am. & Serv. Hem. 541, pl. 9, fig. 9.
1846. *Polyglypta dorsalis*. Fairm. Rev. Memb. 297, 3.
Polyglypta maculata. Fairm. Rev. Memb. 297, 5.
Polyglypta pallipes. Fairm. Rev. Memb. 298, 8.
Polyglypta nigella. Fairm. Rev. Memb. 298, 10.
1851. *Polyglypta dorsalis*. Walk. List Hom. B. M. 543, 3.
Polyglypta maculata. Walk. List Hom. B. M. 543, 5.
Polyglypta pallipes. Walk. List Hom. B. M. 544, 8.
Polyglypta nigella. Walk. List Hom. B. M. 544, 10.
1864. *Polyglypta dorsalis*. Stål, Hem. Mex. 73, 441.
Polyglypta maculata. Stål, Hem. Mex. 73, 442.
Polyglypta pallipes. Stål, Hem. Mex. 73, 443.
1869. *Polyglypta dorsalis*. Stål, Bid. Memb. Kän. 240, 2.
1877. *Polyglypta dorsalis*. Butler, Cist. Ent. ii, 208, 3.
1889. *Polyglypta dorsalis*. Prov. Faune Can. iii, 241.
Hab.—Mexico and Savannah (Fairmaire); Texas (Provancher).
9. P. LINEATA, Burm.
1836. *Polyglypta lineata*. Burm. in Silb. Rev. iv, 179, 5.
1846. *Polyglypta lineata*. Fairm. Rev. Memb. 298, 9.
1851. *Polyglypta lineata*. Walk. List Hom. B. M. 544, 9.
1858. *Polyglypta abbreviata*. Walk. List Hom. B. M. Suppl. 136.
1864. *Polyglypta lineata*. Stål, Hem. Mex. 73, 444.
1869. *Polyglypta lineata*. Stål, Bid. Memb. Kän. 241, 3.
1877. *Polyglypta lineata*. Butler, Cist. Ent. ii, p. 298, 4.
Hab.—Mex. (Stål).
10. P. TREDECIM-COSTATA, Fairm.
1846. *Polyglypta tredecim-costata*. Fairm. Rev. Memb. 299, 11.
1851. *Polyglypta tredecim-costata*. Walk. List Hom. B. M. 544, 11.

1864. *Polyglypta tredecim-costata*. Stål. Hem. Mex. 73, 445.
1877. *Polyglypta trecedim-costata*. Butler, Cist. Ent. ii, 208, 5.
Hab.—Mex. (Stål).
11. P. REFLEXA, Butler.
1877. *Polyglypta reflexa*. Butler, Cist. Ent. ii, 207, 1 pl. 3, fig. 2.
Hab.—Guatemala (Butler).
12. P. FUSCA, Butler.
1877. *Polyglypta fusca*. Butler, Cist. Ent. ii, 208, 6, pl. 3, fig. 3.
Hab.—Mex. (Butler).
13. P. TRICOLOR, Butler.
1879. *Polyglypta tricolor*. Butler, Cist. Ent. ii, 209, 8, pl. 3, fig. 5.
Hab.—Mex. (Butler).

VI. ENTYLIA, GERM.

14. E. SINUATA, Fabr.
1798. *Membracis sinuata*, ♀. Fabr. Ent. Syst. Suppl. 513, 4-5.
Membracis emarginata, ♂. Fabr. Ent. Syst. Suppl. 513, 4-5.
1803. *Membracis sinuata*, ♀. Fabr. Syst. Rhyng. 7, 5.
Membracis emarginata, ♂. Fabr. Syst. Rhyng. 9, 12.
1833. *Darnis sinuata*. Germ. in Silb. Rev. i, 78, 25.
1835. *Entilia sinuata*. Germ. in Silb. Rev. iii, 248, 2.
Hemiptycha sinuata. Burm. Handb. Ent. ii, 140, 5.
1843. *Entilia sinuata*. Am. & Serv. Hem. 538, 1.
1846. *Entylia sinuata*. Fairm. Rev. Memb. 300, 3, pl. 5, fig. 29.
1851. *Entylia sinuata*. Walk. List Hom. B. M. 546, 3.
Entylia concisa. Walk. List Hom. B. M. 547, 6.
Entylia decisa. Walk. List Hom. B. M. 548, 7.
Entylia accisa. Walk. List Hom. B. M. 548, 8.

1851. *Entilia torva*, var. Fitch, Cat. Hom. N. Y. 47, 647.
Entilia torva. Walk. List Hom. B. M. 1142, 3.
Thelia sinuata. Walk. List Hom. B. M. 1144, 51.
1854. *Entilia sinuata*. Emmons, Agr. N. Y. v, 153,
 pl. 13, fig. 11.
Entilia emarginata. Emmons, l. c. 153, pl. 13,
 fig. 13.
1862. *Membracis sinuata*. Harris, Treatise, 229.
Entilia sinuata Uhler, in Harr. Treatise, 220.
1869. *Entyilia sinuata*. Stål, Hem. Fabr. ii, 28, 1.
Entyilia sinuata. Rathvon, in Mombert's Hist.
 Lancaster Co., Pa. 551.
Membracis sinuatus. Rathvon, in Mombert's
 Hist. Lancaster Co. Pa. 551.
Entyilia sinuata. Stål, Bid. Memb. Kän. 241, 1.
1876. *Entilia carinata*. Glover, Rep. U. S. Dept. Agr.
 29, fig. 14.
1877. *Entyilia sinuata*. Butler, Cist. Ent. ii, 210, 1.
Entyilia accisa. Butler, l. c. 211, 3.
Entyilia concisa. Butler, l. c. 211, 4.
Entyilia reducta. Butler, l. c. 211, 5.
1878. *Entilia carinata*. Glover, MS. Journ. Hom. pl.
 1, fig. 26.
1887. *Entilia sinuata*. Murtfeldt, Ent. Amer. iii, 177.
1889. *Entyilia sinuata*. Prov. Faune Can. iii, 232.
Entyilia carinata. Prov. Faune Can. iii, 232.
Entyilia concava. Prov. Faune Can. iii, 233.
1890. *Entyilia sinuata*. Smith, Cat. Ins. N. J. 441.
 Hab.—N. Y. (*Emmons*); Mo., Tex., N. H., Va., D. C., N.
 C., S. C., Penn., and Mich. (*Riley*); Iowa (*Osborn*);
 Md. (*Glover*); Fla. (*Walker*); Ill. (*Forbes*).
15. E. BACTRIANA, Germ.
1835. *Entyilia bactriana*. Germ. in Silb. Rev. iii, 248, 3.
1846. *Entyilia bactriana*. Fairm. Rev. Memb. 300, 4,
 pl. 5, fig. 32.
1851. *Entyilia bactriana*. Walk. List Hom. B. M. 547, 4.
Entyilia indecisa. Walk. List Hom. B. M. 549, 10.
Entyilia reducta. Walk. List Hom. B. M. 549, 11.
1858. *Entyilia impedita*. Walk. List Hom. B. M. Suppl.
 137.

1869. *Entylia bactriana*. Stål. Bid. Memb. Kän. 241, 2.
 1877. *Entylia bactriana*. Butler, Cist. Ent. ii, 211, 2.
 Hab.—West. States and N. H. (Riley); Can. (Walker).
16. *E. INÆQUALIS*, Butler.
 1877. *Entylia inæqualis*. Butler, Cist. Ent. ii, 211, 6,
 pl. 3, fig. 7.
 Hab.—Guatemala (Butler).
17. *E. MIRA*, Butler.
 1877. *Entylia mira*. Butler, Cist. Ent. ii, 212, 7, pl. 3,
 fig. 8.
 Hab.—Guatemala (Butler).
18. *E. AREOLATA*, Walk.
 1858. *Entylia areolata*. Walk. Ins. Saund. 71.
 Hab.—Hayti (Walker).

VII. PUBLILIA, STÅL.

19. *P. CONCAVA*, Say.
 1824. *Membracis concava*. Say, Append. Long's Exp.
 ii, 301, 3.
 1835. *Entylia concava*. Germ. in Silb. Rev. iii, 249, 4.
 1846. *Entylia concava*. Fairm. Rev. Memb. 301, 5.
 1851. *Entylia concava*. Walk. List Hom. B. M. 547, 5.
Entylia concava. Fitch, Cat. Hom. N. Y. 47,
 648.
Entylia concava. Walk. List Hom. B. M. 1142, 5.
 1859. *Membracis concava*. Say, Compl. Writ. i, 200, 3.
 1866. *Publilia concava*. Stål, Analecta Hem. 388.
 1869. *Ceresa concava*. Rathvon, in Mombert's Hist.
 Lancaster Co., Pa. 551.
 1877. *Publilia concava*. Uhler, List Hem. West Miss.
 R. 344, 1.
 1878. *Entylia concava*. Glover, MS. Journ. Hom. pl.
 1, fig. 1.
 1889. *Publilia concava*. Prov. Faune Can. iii, 245.
 1890. *Publilia concava*. Smith, Cat. Ins. N. J. 441.
 Hab.—Mo. and Ark. (Say); Ill. (Goding); Utah (Uhler);
 N. Y., Ont., and Kan. (Van Duzee); Ia. (Osborn);
 Quebec (Provancher).

20. *P. NIGRIDORSUM*, n. sp.

This species closely resembles *concaua* in form and size, but differs as follows: Anterior part of thorax black; a broad black stripe, continuous with the black front, extending backward long the median carina, becoming broader toward apex; sides ferruginous; head black, punctured with ferruginous.

Described from one specimen. Type in author's collection.

Hab.—N. Y. (*Van Duzee*).

21. *P. BICINCTURA* Godg.

1892. *Publilia bicinctura*. Godg., Ent. News, iii, 200.

Hab.—Col. (*Gillette*).

22. *P. MODESTA*, Uhler.

1870. *Publilia modesta*. Uhler, List Hem. West Miss. R. 344, 2.

1872. *Entilia modesta*. Uhler, List Hem. Col. and N. Mex. 472.

1877. *Publilia modesta*. Uhler, Rep. on Ins. Coll. in 1875, 457.

Publilia modesta. Wheeler's Rep. App. J, 1333.

1878. *Entyilia modesta*. Glover, MS. Journ. Hom. pl. 2, fig. 7.

Hab.—Col., Utah, Dak., Ariz., N. Mex., and Calif. (*Uhler*).

VIII. *CYPHONIA*, LAP.23. *C. PROXIMA*, Guer.

1838. *Combophora proxima*. Guer. Icon. Reg. Anim.

1846. *Cyphonia proxima*. Fairm. Rev. Memb. 502, 2.

1851. *Cyphonia proxima*. Walk. List. Hom. B. M. 596, 2.

1877. *Cyphonia proxima*. Butler, Cist. Ent. ii, 212, 2.

Hab.—Mex. (*Fairmaire*).

24. *CYPHONIA FORMOSA*, Butler.

1877. *Cyphonia formosa*. Butler, Cist. Ent. ii, 214, pl. 3, fig. 6.

Hab.—Mex. (*Butler*).

25. *CYPHONIA HIRTA*, Germ.

1835. *Heteronota hirta*. Germ. in Silb. Rev. iii, 255, 2.

1846. *Cyphonia hirta*. Fairm. Rev. Memb. 503, 7, pl. 7, fig. 23.
 1851. *Cyphonia hirta*. Walk. List Hom. B. M. 597, 7.
 1860. *Cyphonia hirta*. Stål, Hem. Rio Jan. ii, 33, 2.
 1877. *Cyphonia hirta*. Butler, Cist. Ent. ii, 213, 8.
Hab.—Mex. (Butler).

IX. POPPEA, STÅL.

26. P. RECTISPINA, Fairm.

1846. *Cyphonia rectispina*. Fairm. Rev. Memb. 502, 6.
 1858. *Cyphonia rectispina*. Walk. List. Hom. B. M. Suppl. 156.
 1864. *Cyphonia rectispina*. Stål, Hem. Mex. 70, 424.
 1867. *Poppea rectispina*. Stål, Bid. Hem. Syst. 551.
Hab.—Mex. (Fairmaire).

X. CERESA, AM. & SERV.

27. C. DICEROS, Say.

1824. *Membracis diceros*. Long's Exped. App. 299, 1.
 1835. *Smilia diceros*. Germ. in Silb. Rev. iii, 237, 12.
 1843. *Ceresa postfaciata*. Am. & Serv. Hem. 540, 2, pl. 10, fig. 3.
 1846. *Ceresa diceros*. Fairm. Rev. Memb. 285, 11.
 1851. *Ceresa diceros*. Walk. List Hom. B. M. 527, 11.
Ceresa diceros. Fitch, Cat. Hom. N. Y. 50, 679.
 1854. *Ceresa diceros*. Emmons, Agr. N. Y. v, 155, pl. 3, fig. 16.
 1859. *Membracis diceros*. Say, Compl. Writ. i, 199, 1.
 1862. *Membracis diceros*. Harris, Treatise, 221.
Ceresa diceros. Uhler, in Harr. Treatise, 221.
 1869. *Ceresa diceros*. Stål, Bid. Memb. Kän. 245, 1.
Ceresa dicerea. Rathvon in Mombert's Hist. Lancaster Co. Pa. 551.
 1872. *Ceresa diceros*. Uhler, List Hem. Col. and N. Mex. 472.
 1876. *Ceresa diceros*. Glover, Rep. U. S. Dept. Agr. 29, fig. 16.
Ceresa diceros. Uhler, List Hem. West Miss. R. 343, 1.

1877. *Ceresa diceros*. Uhler, List Hem. Dak. and Mont.
509, 45.
Ceresa bubalus. Butler, Cist. Ent. ii, 215, 1.
1878. *Ceresa diceros*. Glover, MS. Journ. Hom. pl. 1,
fig. 27, 28.
1888. *Ceresa diceros*. Comstock, Introd. Ent. 172.
1889. *Ceresa diceros*. Prov. Faune Can. iii, 234.
Ceresa diceros. Van Duzee, Can. Ent., 21, 6.
1890. *Ceresa diceros*. Van Duzee, Psyche, v, 389.
Ceresa diceros. Smith, Cat. Ins. N. J., 441.
- Hab.*—Nova Scotia (*Walker*); Tex., Mo., Mont., and Pa.
(*Riley*); Iowa (*Osborn*); Can. and N. Y. (*Van Duzee*);
N. Mex. and Dak. (*Uhler*); Ill. (*Forbes*); N. J.
(*Smith*); Md. (*Glover*).

28. C. BUBALUS, Fabr.

1794. *Membracis bubalus*. Fabr. Ent. Syst. iv, 14, 23.
1803. *Centrotus bubalus*. Fabr. Syst. Rhyng. 20, 18.
1846. *Ceresa borealis*. Fairm. Rev. Memb. 284, 5.
1851. *Ceresa borealis*. Walk. List Hom. B. M. 526, 5.
Ceresa bubalus. Fitch, Cat. Hom. N. Y. 50, 680.
Ceresa bubalus. Walk. Cat. Hom. B. M. 531, 18.
Ceresa bubalus. Walk. Cat. Hom. B. M. 1140, 18.
1854. *Ceresa bubalus*. Emmons, Agr. N. Y. v, 155, pl.
3, fig. 17.
1856. *Ceresa bubalus*. Fitch, 3d Rep. Ins. N. Y. in
Trans. Agr. Soc. 335, 22; 359, 390, pl. 2, fig. 4,
1858. *Ceresa bubalus*. Walk. List Hom. B. M. Suppl.
131.
1862. *Membracis bubalus*. Harris, Treatise, 221.
Ceresa bubalus. Uhler, in Harr. Treatise, 221.
1867. *Ceresa bubalus*. Fitch, 12th Rep. Ins. N. Y., in
Trans. Agr. Soc. 889.
1869. *Ceresa bubalus*. Rathvon, in Mombert's Hist.
Lancaster Co. Pa. 551.
Ceresa bubalus. Stål, Hem. Fabr. ii, 24, 1.
Ceresa bubalus. Stål, Bid. Memb. Kän. 245, 2.
1872. *Ceresa bubalus*. Riley, 4th Rep. Ins. Mo. 119,

1874. *Ceresa bubalus*. Uhler, List. Hem. Dak. and Mont. 509, 44.
1876. *Ceresa bubalus*. Glover, Rep. U. S. Dept. Agr. 29, fig. 15.
Ceresa bubalus. Uhler, List. Hem. West Miss. R. 343, 2.
1877. *Ceresa bubalus*. Uhler, Rep. Hem. Coll. in 1875, 456, 1.
Ceresa bubalus. Uhler, Wheeler's Rep. App. J. 1332, 1.
Ceresa bubalus. Butler, Cist. Ent. ii, 215, 2.
1878. *Ceresa bubalus*. Glover, MS. Journ. Hom. pl. 2, fig. 32, pl. 1, fig. 29.
1882. *Ceresa bubalus*. Riley, Am. Nat. 16, 822.
Ceresa bubalus. Lintner, 1st Rep. Ins. N. Y. 284.
1883. *Ceresa bubalus*. Cooke, Ins. Inj. Farm, etc., 71, fig. 33, 34, and 35.
Ceresa bubalus. Saunders, Ins. Inj. Fruits, 45. 18; fig. 36.
Ceresa bubalus. Popence, Rep. Kan. Hort. Soc. 196.
Ceresa bubalus. Jack, 16th Rep. Ent. Soc. Ont., 16.
Ceresa bubalus. Jack, Can. Ent. xviii, 51.
1887. *Ceresa bubalus*. Jack, 17th Rep. Ent. Soc. Ont. 16-18.
1888. *Ceresa bubalus*. Lintner, 4th Rep. Ins. N. Y. 146, fig. 61, 62.
Ceresa bubalus. Constock, Introd. Ent. 171, fig. 141.
1889. *Ceresa bubalus*. Van Duzee, Can. Ent. xxi, 6.
Ceresa bubalus. Prov. Faune Can. iii, 235.
1890. *Ceresa bubalus*. Smith, Cat. Ins. N. J. 441.
Ceresa bubalus. Weed, Bull. Ohio Agr. Exper. Station, ser. 2, iii, 130.
Ceresa bubalus. Packard, Ins. Inj. Forest and Shade Trees, 535, 8.
1891. *Ceresa bubalus*. Weed, Insects and Insecticides, 36, fig. 12.

Hab.—Can. (Jack); Va. and N. H. (Riley); Ill. and Tenn. (Goding); N. Mex., N. Y., N. C., Pa., Kan., Mo., Ind., Col., and Minn. (Riley); Ia. (Osborn); N. S. (Walk.); Md. (Glover); Mass. (Harris); N. J. (Smith); Dak. and Mont. (Uhler).

29. *C. BREVIS*, Walk.

1851. *Ceresa brevis*. Walk. List. Hom. B. M. 528, 13.

1869. *Ceresa brevis*. Stål, Bid. Memb. Kån. 245, 3.

1877. *Ceresa brevis*. Butler, Cist. Ent. ii, 218, 21.

Hab.—N. Y. (Walker).

30. *C. BREVICORNIS*, Fitch.

1856. *Ceresa brevicornis*. Fitch, 3d. Rep. Ins. N. Y., in Trans. Agr. Soc. 451, 177.

1869. *Ceresa brevicornis*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.

1889. *Ceresa brevicornis*. Prov. Faune Can. iii, 235.

1890. *Ceresa brevicornis*. Van Duzee, Psyche, v. 388.

Ceresa brevicornis. Smith, Cat. Ins. N. J. 441.

Ceresa brevicornis. Packard, Ins. Inj. Forest and Shade Trees, 325, 115.

Hab.—N. Y. (Fitch); Ia. ? (Osborn); N. J. (Smith); Can. (Provancher); Pa. (Rathvon); Ill. (Goding).

31. *C. TAURINA*, Fitch.

1833. *Membracis taurina*. Harris, Cat. Ins. Mass.—

1851. *Enchenopa taurina*. Walk. List. Hom. B. M. 495, 44.

1856. *Ceresa taurina*. Fitch, 3d. Rep. Ins. N. Y., in Trans. Agr. Soc. 335, 23.

1858. *Ceresa taurina*. Walk. List. Hom. B. M. Suppl. 131.

1862. *Membracis taurina*. Harris, Treatise, 221.

Ceresa taurina. Uhler in Harr. Treatise, 221.

1869. *Ceresa taurina*. Stål, Bid. Memb. Kån. 245, 4.

Membracis taurinus. Rathvon, in Mombert's Hist. Lancaster Co. Pa., 550.

1877. *Ceresa taurina*. Butler, Cist. Ent. ii, 215, 3.

1890. *Ceresa taurina*. Van Duzee, Psyche, v, 388.

Hab.—N. Y. (Fitch); Va., Mass., Ia., Pa. and Mich. (Riley); Mass. (Harris).

32. *C. ILLINOIENSIS*, n. sp.

Color brownish yellow: tegmina and wings transparent yellow, punctured. Head broad, nearly triangular, basal border a little convex; orange yellow, lightly sculptured; eyes medium, black; ocelli yellowish red, a trifle nearer to each other than to the eyes. Prothorax above the head vertical, slightly convex at upper part in front, with two small tubercles on convexity; on each side a rounded, long acute horn curving slightly upward and outward, the tip a trifle backward, these horns darker in color; at base of horns, on each side, extending on the anterior surface, a smooth, horizontal impression; superior base of horns depressed, leaving the prothorax at that part convex; a percurrent median carina; posterior process long, compressed, apex acuminate, very slender, exceeding apex of abdomen, sloping toward tip; posterior half of carina concolorous with lateral horns; on each side a semicircular impression of a lighter color; highest point at middle. Tegmina yellow, transparent, extending much beyond tip of abdomen. Below, concolorous with head, except ovipositor, which is reddish brown; legs and feet yellow. Length 7.5 mm.

Described from one ♀ specimen. Type in collection of the author. Collected by C. W. Stromberg.

Hab.—Galesburg, Ill. (*Stromberg*).

33. *C. CONSTANS*, Walk.

1851. *Thelia constans*. Walk. List Hom. B. M. 563, 27.

1869. *Ceresa constans*. Stål, Bid. Memb. Kän. 245, 5.

1877. *Ceresa constans*. Butler, Cist. Ent. ii, 215, 4.

Hab.—U. S. (*Walker*).

34. *C. BASALIS*, Walk.

1851. *Ceresa basalis*. Walk. List. Hom. B. M. 527, 12.

1869. *Ceresa basalis*. Stål, Bid. Memb. Kän. 245, 6.

1877. *Ceresa basalis*. Butler, Cist. Ent. ii, 215, 5.

Hab.—N. S. (*Walker*).

35. *C. ALBIDOSPARGA*, Stål.

1859. *Ceresa albidosparsa*. Stål, Eug. Resa Omk. Jord. Hem. 283, 86.

1869. *Ceresa albidosparsa*. Stål, Bid. Memb. Kän. 245, 7.

1877. *Ceresa albidosparsa*. Butler, Cist. Ent. ii, 215, 6.
Hab.—Calif., San Francisco (Stål).

36. C. VITULUS, Fabr.

1775. *Membracis vitulus*. Fabr. Syst. Ent. 677, 10.
 1781. *Membracis vitulus*. Fabr. Spec. Ins. ii, 317, 11.
 1787. *Membracis vitulus*. Fabr. Mant. Ins. ii, 265, 21.
 1794. *Membracis vitulus*. Fabr. Ent. Syst. iv, 14, 25.
 1803. *Centrotus vitulus*. Fabr. Syst. Rhyng. 20, 21.
 1820. *Centrotus pallens*. Germ. Mag. Ent. iii, 25, 26.
 1835. *Smilia vitulus*. Burm. Handb. Ent. ii, 137, 2.
Smilia pallens. Germ. in Silb. Rev. jii, 235, 6.
 1840. *Membracis vitulus*. Blanchard, Hist. Nat. Ins.
 iii, 180, 11.
 1843. *Ceresa vitulus*. Am. & Serv. Hem. 540, 1.
 1846. *Ceresa vitulus*. Fairm. Rev. Memb. 283, 1.
Ceresa spinifera. Fairm. Rev. Memb. 284, 6.
 1851. *Ceresa vitulus*. Walk. List Hom. B. M. 525, 1.
Ceresa spinifera. Walk. List Hom. B. M. 526, 6.
 1858. *Ceresa curvilinea*. Walk. List Hom. B. M.
 Suppl. 132.
Ceresa excisa. Walk. Ins. Saund. Hom. 68.
 1869. *Ceresa vitulus*. Stål, Hem. Fabr. ii, 24, 2.
Ceresa vitulus. Stål, Bid. Memb. Kän. 246 11.
 1877. *Ceresa vitulus*. Butler, Cist. Ent. ii, 219, 27.
Hab.—U. S. (Stål).

37. C. TESTACEA, Fairm.

1846. *Ceresa testacea*. Fairm. Rev. Memb. 284, 4.
 1851. *Ceresa testacea*. Walk. List Hom. B. M. 526, 4.
 1864. *Ceresa testacea*. Stål, Hem. Mex. 69, 419.
 1869. *Ceresa testacea*. Stål, Bid. Memb. Kän. 246, 14.
 1877. *Ceresa testacea*. Butler, Cist. Ent. ii, 217, 18.
Hab.—Mex. (Fairmaire).

38. C. PATRUELIS, Stål.

1864. *Ceresa patruelis*. Stål, Hem. Mex. 69, 420.
 1869. *Ceresa patruelis*. Stål, Bid. Memb. Kän. 246, 15.
 1877. *Ceresa patruelis*. Butler, Cist. Ent. ii, 217, 19.
Hab.—Vera Cruz, Mex. (Stål).

39. C. FEMORATA, Fairm.
 1846. *Ceresa femorata*. Fairm. Rev. Memb. 289, 24.
Ceresa uniformis. Fairm. Rev. Memb. 289, 25.
 1851. *Ceresa femorata*. Walk. List Hom. B. M. 532, 31,
Ceresa uniformis. Walk. List Hom. B. M. 533,
 32.
 1858. *Ceresa uniformis*. Walk. List Hom. B. M.
 Suppl., 131.
 1864. *Ceresa uniformis*. Stål, Hem. Mex. 70, 423.
 1869. *Ceresa uniformis*. Stål, Bid. Memb. Kän. 246, 16.
 1877. *Ceresa uniformis*. Butler, Cist. Ent. ii, 220, 32.
 *Hab.—Mex. (Fairmaire); West. States and Miss.
 (Riley).
40. C. SALLEI, Stål.
 1864. *Ceresa sallei*. Stål, Hem. Mex. 70, 421.
 1877. *Ceresa sallei*. Butler, Cist. Ent. ii, 217, 16.
 Hab.—Mex. (Stål).
41. C. PUNCTICEPS, Stål.
 1864. *Ceresa puncticeps*. Stål, Hem. Mex. 70, 422.
 Hab.—Mex. (Stål).
42. C. INSIGNIS, Walk.
 1858. *Ceresa insignis*. Walk. Ins. Saund. Hom. 67.
 Hab.—Vera Cruz, Mex. (Walker).
43. C. STÅLII, Butler.
 1877. *Ceresa stålîi*. Butler, Cist. Ent. ii, 217, 17, pl. 3
 fig. 11.
 Hab.—Mex. (Butler).
44. C. TURBIDA, n. sp.
 Resembles in form *taurina*, but more depressed; similar to
brevis in markings, but much smaller. Sordid yellow, punc-
 tured, marked with piceous.
 ♂.—Head dark yellow, with a large spot near inner edge of
 each eye, posterior margin and apex black, the surface sculp-
 tured and hairy. Basal portion of prothorax black, with a
 linear, irregular transverse impression, just above which it is
 slightly produced; black gradually fades upward and becomes
 mottled over the superior triangle; lateral horns short, with

tips black ; a narrow yellow band extends from eyes along lateral margins, superiorly, to lateral horns ; triangular space of external surface of lateral horns shining black ; a ferruginous (or dusky) line passing from tips of lateral horns posteriorly along carina to tip of posterior process, which is black ; a semi-circular impression on each side ; surface hairy, behind lateral horns very slightly convex. Tegmina very broad, vitreous yellow, veins darker, base coriaceous, with a piceous oval spot, a dusky cloud along posterior margin. Below, pectus and femora black, tibiae and tarsi dark yellow, tibiae covered with spines. Abdomen black. Length 7 mm.; altitude 3 mm.

Described from two examples from Prof. Riley, one from Prof. Gillette, and one from Prof. Westcott. Type in author's collection.

Hab.—Ill. (*Westcott*); Col. (*Gillette*).

In some examples the two anterior black spots coalesce, the entire front of the head is irrorate or black, and the carina is posteriorly more or less piceous.

♀—Form and color similar to ♂ but larger. Head entirely yellow except apex, which is black ; the black markings in front faded to two light ferruginous mottled spots ; external surface of lateral horns same as in ♂, the ferruginous lines mottled with the ground color, tip not black ; prothorax very hairy. Tegmina much darker vitreous yellow, piceous spot at base much larger and punctured. Below, same as ♂. Abdomen with yellow transverse stripe in front of tip ; ovipositor ferruginous yellow. Length 8.5 mm.; altitude 4 mm.

Described from one example from Prof. Westcott. Type in author's collection.

Hab.—Ill. (*Westcott*).

In this species the median carina is percurrent, nearly obsolete anteriorly ; the tips of lateral horns lightly recurved. It is more depressed anteriorly than any species known to me. The line formed by the union of the vertical with the superior triangular surfaces is lightly convex in the ♂. In the ♀ it is convex in the middle and concave on each side. Near the base of the prothorax, on each side, is a transverse smooth impression.

XI. STICTOCEPHALA, STÅL.

41. S. INERMIS, Fabr.

1794. *Membracis inermis*. Fabr. Ent. Syst. iv, 15, 30.1830. *Membracis goniphora*. Say, Journ. Acad. Nat. Sci. Phila. vi, 243, 4.1851. *Centrotus inermis?* Walk. List. Hom. B. M. 1142, 13.*Ceresa goniphora*. Walk. List Hom. B. M. 1141 37.*Smilia inermis*. Fitch, Cat. Hom. N. Y. 48, 656.1856. *Smilia inermis*. Fitch, 3d Rep. Ins. N. Y., in Trans. Agr. Soc., 360, 64; 471.1859. *Membracis goniphora*. Say, Compl. Writ. ii, 377, 4.1869. *Stictocephala inermis*. Stål, Bid Memb. Kän. 246, 1.*Smilia inermis*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.1878. *Stictocephala inermis*. Glover, MS. Journ. Hom. pl. 2, fig. 34.*Stictocephala inermis*. Uhler, List Hem. Dak. and Mont. 509, 46.1882. *Stictocephala inermis*. Lintner, 1st Rep. Ins. N. Y. 284.1889. *Stictocephala inermis*. Prov. Faune Can. iii, 237.1890. *Stictocephala inermis*. Smith, Cat. Ins. N. J. 441.*Stictocephala inermis*. Van Duzee, Psyche, v. 389.*Hab.*—Iowa (*Osborn*), Missouri (*Say*), N. Y. (*Fitch*), Ill. (*Forbes*), N. J. (*Smith*), Dak. (*Uhler*), Pa. (*Rathvon*), Can. (*Provancher*), New Mex. (*Townsend*).

42. S. SANGUINO-APICALIS, n. sp.

Stature of *inermis*, grass-green when alive, dried specimen a beautiful orange, posterior half of posterior prothoracic process sanguineous, femora black. Head immaculate, bright orange, convex, the middle from base to apex most prominent; eyes dark brown; ocelli reddish yellow, nearer to each other than the eyes, on a line with middle of eyes. Prothorax orange-

yellow with a black splash just before the highest point, reaching on both sides; densely punctured; front of prothorax high, very convex, produced beyond head; median carinæ percurrent, lateral carinæ united in front of middle at highest point; a semi-circular impressed line on each side; a smooth scar above each eye; a transverse brown line about midway from base to apex, passing from lateral border on each side, and meeting at middle; another brown line a short distance back of this and parallel to it; all of the prothorax behind the first brown line sanguineous, mottled somewhat with orange yellow. Tegmina very broad, orange-yellow, veins a trifle darker. Below, venter and tibiæ yellow, pectus and femora black, ovipositor fuscous, tarsi orange-yellow. Length 7 mm.

Described from one ♀ specimen. Type in author's collection.

Hab.—Champaign, Illinois.

This specimen was taken by Mr. John Marten in an oat stubble field on the University farm, July 15, 1891, and kindly presented to me at the time.

43. *S. FESTINA*, Say.

1830. *Membracis festina*. Say, Journ. Acad. Nat. Sci. Phila. vi, 243, 5.

1851. *Ceresa? festiva*. Walk. List Hom. B. M. 1141, 38.

1859. *Membracis festina*. Say, Compl. Writ. ii, 377, 4.

1869. *Stictocephala festina*. Stål, Bid. Memb. Kän. 246, 2.

1889. *Stictocephala festina*. Prov. Faune Can. iii, 237.

1890. *Stictocephala festina*. Smith, Cat. Ins. N. J. 441.

Stictocephala festina. Van Duzee, Psyche, v, 389.

Hab.—Va., Pa., Ga., Fla., Mo., Tex., Iowa, Mont., and Col. (Riley); N. Y. and Conn. (Van Duzee); Can. (Provancher); N. J. (Smith).

44. *S. GILLETTEI*, Godg.

1892. *Stictocephala gillettei*. Godg. Ent. News, iii, 108.

Hab.—Col. (Gillette).

45. *S. ROTUNDATA*, Stål.

1857. *Ceresa uniformis*. Guer. in La Sagra's Hist. Cuba, Ins. 434, pl. 13, fig. 20.

1869. *Stictocephala rotundata*. ♀. Stål, Bid. Memb. Kän. 246, 3.
Hab.—Cuba (Stål).
46. S. LUTEA, Walk.
 1851. *Thelia lutea*. Walk. List. Hom. B. M. 559, 13.
Thelia inermis. Walk. List. Hom. B. M. 1142, 13.
 1854. *Gargara pectoralis*. Emmons, N. Y. v, 157, pl. 13, fig. 12.
 1869. *Stictocephala lutea*. Stål, Hem. Fabr. ii, 24.
 1869. *Stictocephala lutea*. Stål, Bid. Memb. Kän. 247, 4.
Hab.—N. Y. and N. C. (Walker); Ill. (Goding).
47. S. FRANCISCANA, Stål.
 1859. *Ceresa franciscana*. Stål, Eug. Resa Omk. Jord. Hem. 284, 189.
 1869. *Stictocephala franciscana*. Stål, Hem. Fabr. 24.
Stictocephala franciscana. Stål, Bid. Memb. Kän. 247, 5.
Hab.—San Francisco, Calif. (Stål), Steamboat Springs, Col. (Gillette).
48. (?) S. SUBLATA, Say. [*Stictocephala*?, Van Duzee in litt.]
 1831. *Membracis subulata*. Say, Journ. Acad. Nat. Sci. Phila. vi, 300, 8.
 1851. *Thelia subulata*. Walk. List. Hom. B. M. 1143, 43.
 1859. *Membracis subulata*. Say, Compl. Writ. ii, 378, 8.
 1890. *Membracis subulata*. Van Duzee, Psyche, 5, 387.
Hab.—Maryland (Say).
 [A lost species.]

XII. PHACUSA, STÅL.

SUBGENUS *Phacusa*, STÅL.

49. P. PALLESCENS, Stål.
 1869. *Phacusa pallescens*. Stål, Bid. Memb. Kän. 247, 1.
Hab.—Mex. (Stål).
50. P. FLAVOMARGINATA, Stål.
 1864. *Phacusa flavomarginata*. Stål, Hem. Mex. 72, 436.
Hab.—Mex. (Stål.)

SUBGENUS *Euritea*, STÅL.51. *P. NIGRIPES*, Stål.

1869. *Phacusa nigripes*. Stål, Bid. Memb. Kän. 248, 3.
Hab.—Mex. (Stål).

XIII. *THELIA*, AM. & SERV.52. *T. BIMACULATA*, Fabr.

1794. *Membracis bimaculata*. Fabr. Ent. Syst, iv, 10,
 11.
 1799. *Membracis bimaculata*. Fabr. in Coq. Illus. Ic.
 i, 2, 31, pl. 8, fig. 1.
 1803. *Membracis bimaculata*. Fabr. Syst. Rhyng. 14,
 37.
 1843. *Thelia bimaculata*. Am. & Serv. Hem. 541, 1.
 1846. *Thelia bimaculata*. Fairm. Rev. Memb. 312, 21.
 1851. *Thelia bimaculata*. Walk, List. Hom. B. M. 566,
 36.
Thelia bimaculata. Walk. List Hom. B. M. 1142,
 30.
Thelia bimaculata. Fitch. Cat. Hom. N. Y. 52,
 694.
 1854. *Thelia bimaculata*. Emmons, Agr. N. Y. v, 156
 pl. 3, fig. 15.
 1862. *Membracis bimaculata*. Harris, Treatise, 221, 222.
Thelia bimaculata. Uhler in Harr. Treatise, 221.
 1869. *Thelia bimaculata*. Stål. Hem. Fabr. ii, 115, 37.
Thelia bimaculata. Rathvon, in Mombert's Hist.
 Lancaster Co., Pa., 551.
 1876. *Thelia bimaculata*. Glover, Rep. U. S. Dept.
 Agr. 29, 17,
 1878. *Thelia bimaculata*. Glover, MS. Journ. Hom.
 pl. 1, 24.
 1889. *Thelia bimaculata*. Prov. Faune Can. iii, 242,
 pl. 5, fig. 9.
 1890. *Thelia bimaculata*. Smith, Cat. Ins. N. J. 441.
Thelia bimaculata. Van Duzee, Psyche, v. 391.
Hab.—N. C. (Walker) Mass. (Harris), N. Y. (Fitch),
 N. J. (Smith), Ill. (Goding), Can. (Provancher),
 Pa. (Rathvon).

53. T. UHLERI, Stål.

1869. *Thelia uhleri*. Stål, Bid. Memb. Kän. 248, 1.1890. *Thelia uhleri*. Van Duzee, Psyche, v, 291.*Hab.*—Wis. (Stål), Pa. (Riley), Ont. (Van Duzee), Mich. (Davis), Ill. (Goding).

54. T. TURRICULATA, Emmons.

1854. *Telamona turriculata*. Emmons, Agr. N. Y. v, 155, pl. 3, fig. 1.1878. *Thelia bimaculata*. Glover, MS. Journ. Hom. pl. 2, fig. 23.1890. *Thelia turriculata*. Van Duzee, Psyche, v, 391.
Hab.—N. Y. (Emmons), N. J. and Ill. (Goding), Ohio (Kellicott).

55. T. CRATÆGI, Fitch.

1851. *Thelia cratægi*. Fitch, Cat. Hom. N. Y. 52, 697.
Thelia cratægi. Walk. List Hom. B. M. 1144, 50.1854. *Thelia cratægi*. Emmons, Agr. N. Y. v, 155, pl. 3, fig. 2.1856. *Thelia cratægi*. Fitch, 3d Rep. Ins. N. Y., in Trans. Agr. Soc. 334, 21, pl. 2, fig. 5.1869. *Thelia cratægi*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.1882. *Thelia cratægi*. Lintner, 1st Rep. Ins. N. Y. 284.1883. *Thelia cratægi*. Saunders, Ins. Inj. Fruits, 46, 19, fig. 37.1890. *Thelia acuminata*. Smith, Cat. Ins. N. J. 441.
Thelia cratægi. Van Duzee, Psyche, v, 391.*Hab.*—N. Y. (Fitch), N. J. (Smith), Ill. (Forbes), Mo. (Riley).

56. T. UNIVITTATA, Harris.

1841. *Membracis univittata*. Harris, Rep. Ins. Mass. 180.1851. *Enchenopa univittata*. Walk. List Hom. B. M. 494.*Thelia univittata*. Fitch, Cat. Hom. N. Y. 52, 695.*Thelia univittata*. Walk. List Hom. B. M. 1143, 49.

1856. *Thelia univittata*. Fitch, 3d Rep. Ins. N. Y., in
Trans. Agr. Soc., 390, 102.
1858. *Thelia univittata*. Fitch, 5th Rep. Ins. N. Y.,
in Trans. Agr. Soc. 804.
1862. *Membracis univittata*. Harris, Treatise, 221.
Thelia univittata. Uhler, in Harr. Treatise, 221.
1869. *Thelia univittata*. Rathvon, in Mombert's Hist.
Lancaster Co. Pa. 551.
1878. *Thelia univittata*. Uhler, List Hem. Dak. and
Mont. 510, 47.
1882. *Thelia univittata*. Lintner, 1st Rep. Ins. N. Y.
284.
1883. *Thelia univittata*. Saunders, Ins. Inj. Fruits
289, 159.
1889. *Thelia univittata*. Prov. Faune Can. iii, 241.
1890. *Thelia univittata*. Smith, Cat. Ins. N. Y. 441.
Thelia univittata. Van Duzee, Psyche, v, 391.
Thelia univittata. Packard, Ins. Inj. Forest and
Shade Trees, 98, 44.
- Hab.—Mass. (Harris). N. Y. (Fitch), Ill. (Forbes), Dak
(Uhler). N. J. (Smith), Can. (Procaucher), Pa
(Rathvon), Routt Co., Col. (Gillette).

57. T. ACUMINATA, Linn.

1788. *Cicada acuminata*. Gmel. Ed. Syst. Nat. 2094,
67.
1792. *Membracis acuminata*. Oliv. Enc. Meth. 665, 21.
1794. *Membracis acuminata*. Fabr. Ent. Syst. iv. 11,
13.
1803. *Centrotus acuminata*. Fabr. Syst. Rhyng, 18, 9.
1846. *Thelia acuminata*. Fairm. Rev. Memb. 310, 16,
pl. 5, fig. 15.
1851. *Thelia acuminata*. Walk. List Hom. B. M. 564,
30.
Thelia acuminata. Walk. List Hom. B. M. 1142,
30.
1862. *Hemiptycha acuminata*. Harris, Treatise, 221.
Thelia acuminata. Uhler, in Harr. Treatise, 221.
1869. *Telamona acuminata*. Stål, Hem. Fabr. ii, 115, 9.
1876. *Thelia acuminata*. Glover, Rep. U. S. Dept. Agr.
30, fig. 17.

1877. *Glossonotus* (n. g.) *acuminata*. Butler, Cist. Ent. ii, 222.
1878. *Thelia bimaculata*. Glover, MS. Jour. Hom. pl. 1, fig. 20.
1890. *Thelia cratnyi*. Smith, Cat. Ins. N. J. 441.
Thelia acuminata. Van Duzee, Psyche, v, 391.
Hab.—Pa. and Ark. (Riley), Ia. (Osborn), N. J. (Smith),
 Mass. (Harris), Mich. (Baker), N. Y. (Liatner).
58. (?) T. OBLIQUA, Walk.
 1858. *Thelia obliqua*. Walk. Ins. Saund. 73.
 1877. *Hyphinae camelus*. Butler, Cist. Ent. ii, 345, 1.
Hab.—Mex. (Walker).
59. (?) T. VIRIDISSIMA, Walk.
 1858. *Thelia viridissima*. Walk. List Hom. B. M. Suppl. 138.
Hab.—Mex. (Walker).
60. (?) T. REVERSA, Walk.
 1858. *Thelia reversa*. Walk. Ins. Saund. 72.
Hab.—Mex. (Walker).
61. (?) T. ANGULATA, Walk.
 1851. *Thelia angulata*. Walk. List Hom. B. M. 558, 10.
 1877. *Eumela angulata*. Butler, Cist. Ent. ii, 354.
Hab.—N. C. (Walker).
62. (?) T. RUFIVITTATA, Walk.
 1851. *Thelia rufivittata*. Walk. List Hom. B. M. 559, 12.
Hab.—Fla. (Walker).
63. (?) T. TACTA, Walk.
 1851. *Thelia tacta*. Walk. List Hom. B. M. 560, 15.
 1877. *Eumela tacta*. Butler, Cist. Ent. ii, 354.
Hab.—Mex. (Walker).
64. (?) T. SUBSTRIATA, Walk.
 1851. *Thelia substriata*. Walk. List Hom. B. M. 558, 11. [Stictiocephala?]
Hab.—Fla. (Walker).
- XIV. TELAMONA, FITCH.
65. T. RECLIVATA, Fitch.
 1851. *Telamona reclivata* ♀. Fitch, Cat. Hom. N. Y. 51, 693.

1851. *Telamona reclinata*. Walk. List Hom. B. M. 1145, 2.
 1854. *Telamona reclinata*. Emmons, Agr. N. Y. v, 155, pl. 3, fig. 7.
 1889. *Telamona reclinata*. Van Duzee, Can. Ent. xxi, 6.
Telamona reclinata. Prov. Faune Can. iii, 244.
 1890. *Telamona reclinata*. Van Duzee, Psyche, v, 391.
Telamona reclinata. Smith, Cat. Ins. N. J. 442.
Hab.—N. Y. (Fitch), Ill. (Forbes), N. J. (Smith), Can. (Van Duzee), Calif. (Riley), Col. (Baker).

66. *T. WESTCOTTI*, n. sp.

♀. Similar in stature to *reclinata*, Fitch, but narrower and more depressed; dorsal crest but little elevated. Head dark yellow, with two large, shining black spots on posterior margin; face obsoletely irrorate with black; a black dot at inner edge of each eye; a smaller black dot on each side of apex, and apex black. Prothorax much depressed, sordid yellow, mottled and clouded with fuscous; median carina very prominent anteriorly, percurrent, a black impunctured dot above each eye; anterior border yellow, the band extending along inferior lateral borders to apex, interrupted by two diagonal fuscous bands, the posterior short, the anterior extending from posterior angle of crest; and a quadrangular spot of same color before the middle of lateral borders; crest largely fuscous; anterior fuscous band united to a transverse band at lateral borders; a yellow spot on anterior edge of crest, which is at this point greatly compressed; just behind middle of crest another strongly compressed yellow point; crest very low, compressed, a little convex; posteriorly, several lateral longitudinal carinae. Tegmina with basal half coriaceous, punctured, fuscous, spotted with yellow, a large brown spot at apex. Pectus yellow, hairy, with some black lines. Abdomen black, edge of segments yellow. Legs yellow, femora heavily marked with fuscous, posterior pair almost wholly so; tibiae lightly marked with fuscous; tips of tarsi fuscous. Length 10 mm., altitude 4 mm.

Hab.—Illinois. Collected by Mr. O. S. Westcott.

♂. Differs from ♀ in having the black spots on head obsolete; several black points above each eye; anterior yellow mar-

gin of prothorax much narrower, and fuscous markings extending to lateral borders; the apex, a transverse band just behind dorsal crest, which is dilated superiorly, enclosing a round fuscous spot, and a short band just in front, yellow, punctured with fuscous; posterior femora marked like the others; tibiae in both sexes with short stiff hairs. Length 10 mm., altitude 4 mm.

Described from 1 ♂ specimen and 1 ♀. Types in collection of author, and in that of O. S. Westcott.

Hab.—Wisconsin.

67. *T. MONTICOLA*, Fabr.

1803. *Membracis monticola*. Fabr. Syst. Rhynch. 7, 4.

1846. *Thelia cyrtops*. Fairm. Rev. Memb. 310, 17, pl. 5, fig. 13.

1851. *Thelia cyrtops*. Walk. List Hom. B. M. 565, 31.
Telamona querci. Fitch, Cat. Hom. N. Y. 51, 691.

Telamona quercus. Walk. List Hom. B. M. 1145.

1854. *Telamona querci*. Emmons, Agr. N. Y. v, 155, pl. 3, fig. 4.

1869. *Telamona monticola*. Stål, Hem. Fabr. ii, p. 115, 4.

1876. *Telamona querci*. Uhler, List Hem. West Miss. R. 344.

1877. *Telamona monticola*. Butler, Cist. Ent. ii, 221, 5.
Telamona quercus. Butler, Cist. Ent. ii, 222, 10.

Telamona cyrtops. Butler, Cist. Ent. ii, 222, 11.

1878. *Telamona monticola*. Glover, MS. Journ. Hom. pl. 1, fig. 18.

1884. *Telamona monticola*. Uhler, Stand. Nat. Hist. 225, fig. 302.

1890. *Telamona monticola*. Van Duzee, Psyche, v, 391.
Thelia quercus. Smith, Cat. Ins. N. J. 441.

Telamona querci. Smith, Cat. Ins. N. J. 442.

Hab.—1a: (Osborn); N. Y. (Fitch); Mo., Mich., and N. C. (Riley); N. J. (Smith); Nova Scotia (Walker); Ill. (Forbes); Col. (Goding).

68. *T. AMPELOPSIDIS*, Harris.

1833. *Telamona cissi*. Harris, List Ins. Mass. 584.

1841. *Membracis ampelopsidis*. Harris, Rep. Ins. Mass. 180.

1841. *Telamona ampelopsidis*. Fitch, Cat. Hom. N. Y. 51, 688.
Telamona ampelopsidis. Walk. List Hom. B. M. 1145, 5.
1854. *Telamona ampelopsidis*. Emmons, Agr. N. Y. v, 154, pl. 3, fig. 9.
1862. *Membracis ampelopsidis*. Harr. Treatise, 220.
Telamona ampelopsidis. Uhler, in Harr. Treatise, 220.
1869. *Membracis ampelopsidis*. Harris, Ent. Corresp. 334.
1876. *Telamona ampelopsidis*. Glover, Rep. U. S. Dept. Agr. 29, fig. 12.
1877. *Telamona ampelopsidis*. Butler, Cist. Ent. ii, 221, 7.
1878. *Telamona ampelopsidis*. Glover, MS. Jour. Hom. pl. 2, fig. 25.
1890. *Telamona ampelopsidis*. Van Duzee, Psyche, v, 391.
Telamona ampelopsidis. Smith, Cat. Ins. N. J. 442.
Hab.—Mass. (Harris), N. Y. (Fitch), N. J. (Smith), Md. (Glover), N. C. (Riley), Ill. (Goding).

69. *T. RILEYI*, Godg.1892. *Telamona rileyi*. Godg. Ent. News, iii, 108.*Hab.*—Marlo Co., Calif. (Riley).70. *T. SPRETA*, sp. nov.

Form and general appearance of *monticola*, Fabr., greenish yellow, with dusky fasciæ. Head yellow with a slight median carina, plainest toward base; spindle-shaped, ocelli nearer each other than to the eyes. Prothorax convex, lateral angles prominent; over each eye one or more black impressed dots, in some cases three in form of a triangle; furnished with a percurrent median carina; behind lateral angles on the back is an upright nearly quadrangular crest, the front and back edges and upper edge straight, the latter shining black, posterior angle rectangular, anterior slightly rounding; behind middle of base of crest deeply compressed; sides of crest clouded with a ferruginous or dusky fascia which passes along posterior part

downward to middle of inferior margins; apex same color; on each side of posterior process one or more lateral carinæ, coarsely punctured. Tegmina with corium punctured throughout, clavus transparent, apex and base dark brown. Below yellow, tibiæ spotted with dark brown, base and tips of tarsi brown, tibiæ triquetrous and spined. Abdomen yellow below; above piceous, articulations yellow. Length 11 mm., breadth 6 mm., altitude 6 mm.

Described from ten examples. Types in author's collection.

Hab.—Ill. (*Stromberg*), Mich. (*Baker*), N.Y. (*Goding*), Canada? (*Harrington*).

This species has long been labeled in collections *querci* and *monticola* and has been so referred to in print, but it is distinct.

In the male the abdomen is black, a stripe on each side of middle and the tip yellow.

71. *T. IRRORATA*, n. sp.

Head triangular, apex curved below; face dusky yellow, sculptured and regularly punctured, irrorate, apex pubescent and darker; eyes prominent, greenish brown; the articulation between head and prothorax undulate, the undulations continuing to humeral angles, which are prominent; ocelli black, close to this articulation, nearer each other than to the eyes. Dorsal protuberance highest in middle, sloping anteriorly, posterior superior angle very acute, hollowed out below, wide at base, compressed superiorly, slightly sinuous posteriorly; just behind middle, at base, on each side, a deep impression, also an impression at base in front; a very prominent median percurrent carina, on each side two slight carinæ; evenly and closely punctured; color dirty yellow marbled with dark brown, irrorate. Tegmina transparent, a dark patch at base and apex, punctured, base irrorate, apex slightly surpassed by apex of posterior prothoracic process. Below yellow, genitals piceous, a few scattering black points; legs yellow, femora with dark stripes; tibiæ annulate with piceous; tarsi piceous, posterior tarsi lightest. Length of female 11 mm., breadth 5 mm., altitude 6 mm.; length of male 9.5 mm.

Described from three specimens. Types in author's collection and that of C. W. Stromberg.

Hab.—Ill. (*Stromberg*), N. Y. (*Fitch*).

The name given to this insect is sufficient to call attention to its most distinctive character.

72. *T. CONCAVA*, Fitch.

1851. *Telamona concava*. Fitch, Cat. Hom. N. Y. 50, 686.

Telamona concava. Walk. List Hom. B. M. 1146, 7.

1854. *Telamona ornata*. Emmons, Agr. N. Y. v, 155, pl. 3, fig. 8.

1877. *Telamona concava*. Butler, Cist. Ent. ii, 221, 8.

1890. *Telamona concava*. Van Duzee, Psyche, v, 391.

Telamona concava. Smith, Cat. Ins. N. J. 442.
Hab.—N. Y. (Fitch), N. H. (Riley), N. J. (Smith), Mich. (Cook).

73. *T. CORYLI*, Fitch.

1851. *Telamona coryli*, ♂. Fitch, Cat. Hom. N. Y. 51, 690.

Telamona tristis, ♀. Fitch, Cat. Hom. N. Y. 51, 689.

Telamona coryli. Walk. List Hom. B. M. 1145, 3.

Telamona tristis. Walk. List Hom. B. M. 1145, 4.

1854. *Telamona coryli*. Emmons, Agr. N. Y. v, 155, pl. 3, fig. 6.

1856. *Telamona coryli*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 473, 202.

Telamona tristis. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 474, 203.

1869. *Telamona coryli*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.

Telamona tristis. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.

1877. *Telamona coryli*. Butler, Cist. Ent. ii, 221, 6.

Telamona tristis. Butler, Cist. Ent. ii 221, 9.

1889. *Telamona coryli*. Van Duzee, Can. Ent. xxi, 6.

Telamona tristis. Van Duzee, Can. Ent. xxi, 6.

Telamona tristis. Prov. Faune Can. iii, 243.

1890. *Telamona coryli*. Van Duzee, Psyche, v, 391.

Telamona coryli. Smith, Cat. Ins. N. J. 442.

1890. *Telamona tristis*. Smith, Cat. Ins. N. J. 442.

Hab.—N. Y. (*Fitch*), Can. (*Van Duzee*), N. J. (*Smith*)

Pa. (*Rathron*), Ill. (*Stromberg*), Mich. (*Cook*).

74. *T. MODESTA*, n. sp.

Head triangular, hairy, ocelli nearer to each other than to the eyes. Prothorax broad, convex in front, gradually elevated back of lateral angles in a very high, much compressed, crest, the upper and anterior edges continuously curved to base of prothorax; posterior superior angle rectangular, posterior edge straight, inclined forward somewhat; posterior process long, depressed, acuminate, gradually attenuated to apex; sordid greenish yellow covered with black punctures, hairy, two black impressed dots over each eye, one above the other; base of posterior process and posterior edge of crest more or less free from black punctures. Tegmina with basal half of corium punctured, subtransparent. Legs triquetrous, tibiae punctured with black, covered with spines. Abdomen and chest greenish yellow.

Described from two males, collected by C. W. Stromberg. Types in author's collection. Length 8 mm., breadth 4 mm., altitude 5 mm.

Hab.—Galesburg, Ill. (*Stromberg*).

This is near *vileyi*, but differently colored.

75. *T. COQUILLETTI*, n. sp.

Yellow, marbled with ferruginous. Head punctured, yellow, ferruginous spot on inner border of eyes; front convex, with two slight lobes at middle of upper part; ocelli in fossæ, on each side of these lobes; eyes prominent. Prothorax yellow, with scattered irregular marblings of ferruginous; a light band at front of dorsal lobe, another between posterior base and apex of posterior process, also one passing down on each side back of middle of protuberance; a deep impression on each side of dorsal protuberance just back of middle; the highest point just behind front of protuberance, the superior edge being slightly arched, the angles of protuberance superiorly being nearly right angles; humeral angles acute, apex of posterior process ferruginous. Tegmina with basal half coriaceous, punctured and marbled with ferruginous, a ferruginous

band at apex extending to internal angle. Below yellow, tips of tarsi ferruginous. Length 8 mm., breadth 4 mm., altitude 4 mm.

Described from two specimens. Types in author's collection and in that of Mr. Van Duzee.

Hab.—California (*Coquillett*).

76. T. FASCIATA, Fitch.

1851. *Telamona fasciata*, ♂. Fitch, Cat. Hom. N. Y. 50, 685.

Telamona unicolor, ♀. Fitch, Cat. Hom. N. Y. 50, 684.

Telamona fasciata. Walk. List Hom. B. M. 1146, 8.

Telamona unicolor. Walk. List Hom. B. M. 1146, 9.

1854. *Telamona unicolor*. Emmons, Agr. N. Y. v, 154, pl. 3, fig. 3.

1856. *Telamona fasciata*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 451, 176.

Telamona unicolor. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 450, 175.

1858. *Hemiptycha diffusa*. Walk. List. Hom. B. M. Suppl. 143.

1869. *Telamona unicolor*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.

1877. *Telamona unicolor*. Butler, Cist. Ent. ii, 220, 1.

Telamona fasciata. Butler, Cist. Ent. ii, 229, 3.

1889. *Telamona fasciata*. Prov. Faune Can. iii, 244.

Telamona unicolor. Prov. Faune Can. iii, 244.

1890. *Telamona fasciata*. Van Duzee, Psyche, 388, 391.

Telamona fasciata. Packard, Ins. Inj. Forest and Shade Trees, 325, 114.

Telamona unicolor. Pack, Ins. Inj. Forest and Shade Trees, 325, 113.

1892. *Telamona unicolor et fasciata*. Harrington, Ottawa Nat. vi, 30.

Hab.—N. Y. (*Fitch*), Mo. and Tex. (*Riley*), Ia. (*Osborn*) Ill. (*Forbes*), Can. (*Provancher*), Pa. (*Rathvon*), Can. (*Walker*), Mich. (*Cook*).

77. T. COLLINA, Walker.
 1851. *Thelia collina*. Walk. List Hom. B. M. 565, 35.
 1877. *Telamona collina*. Butler, Cist. Ent. ii, 220, 2.
78. T. MEXICANA, Stål.
 1869. *Telamona mexicana*. Stål, Bid. Memb. Kän. 249, 1.
 1877. *Telamona mexicana*. Butler, Cist. Ent. ii, 222, 13.
 1890. *Telamona mexicana*. Van Duzee, Psyche, v, 391.
Hab.—Mex. (Stål), Calif. (Goding).
79. T. EXCELSA, Fairm.
 1846. *Telamona excelsa*. Fairm. Rev. Memb. 310, 15.
 1851. *Thelia excelsa*. Walk. List Hom. B. M. 564, 29.
 1864. *Telamona excelsa*. Stål, Hem. Mex. 71, 431.
 1890. *Telamona excelsa*. Van Duzee, Psyche, v, 391.
Hab.—Mex. (Fairmaire), Ill. and Mo. (Goding).

80. T. MAGNILOBA, n. sp.

Head brownish yellow, nearly perpendicular; eyes prominent; ocelli nearer each other than to the eyes, on a line through center of eyes; capito-thoracic articulation not straight; oval when seen from front; lightly punctured. Prothorax with a percurrent median carina, much shorter than apex of tegmina, apex slightly elevated, surpassing apex of abdomen; dorsal protuberance highest in front, deeply notched at base in front; rapidly sloping posteriorly, much compressed; humeral angles prominent; base of prothorax concolorous with head, rest of prothorax dirty brown, posterior half of median carina concolorous with head; deeply and densely punctured. Tegmina transparent, blackish in middle, dusky at apex, which surpasses tip of abdomen. Below light yellow; legs yellow, tips of tarsi brown.

Described from one male and one female. Type in author's collection. Length of ♀ 11 mm., breadth 7.5 mm., altitude 8 mm; length of ♂ 9 mm., breadth 5 mm., altitude 7 mm.

Female larger, and lateral angles much more produced, forming long slender horns.

Hab.—Ill. (Stromberg).

81. T. PYRAMIDATA, Uhler.

1877. *Telamona pyramidata*. Uhler, Wheeler's Rep. App. J. 1333.

1890. *Telamona pyramidata*. Van Duzee, Psyche, v, 391.

Hab.—S. Col. (Uhler), Ill. (Stromberg), Mich. (Cook).

82. T. MOLARIS, Butler.

1877. *Telamona molaris*. Butler, Cist. Ent. ii, 222, pl. 3, fig. 13.

Hab.—Saskatchewan (Butler).

XIV. HELIRIA, STÅL.

83. H. SCALARIS, Fairm.

1846. *Thelia scalaris*. Fairm. Rev. Memb. p. 311, 18, pl. 5, fig. 14.

1851. *Telamona fagi*. Fitch, Cat. Hom. N. Y. 51, 687.

Thelia scalaris. Walk. List Hom. B. M. 565, 32.

Telamona fagi. Walk. List Hom. B. M. 1146, 6.

1854. *Telamona fagi*. Emmons, Agr. N. Y. v, 154, pl. 3, fig. 10.

1867. *Heliria scalaris*. Stål. Bid. Hem. Syst. 556.

1869. *Heliria scalaris*. Stål, Bid. Memb. Kän. 249.

1889. *Telamona fagi*. Van Duzee, Can. Ent. xxi, 6.

Telamona scalaris. Prov. Faune Can. iii, 243.

1890. *Heliria scalaris*. Van Duzee, Psyche, v, 390.

Telamona fagi. Smith, Cat. Ins. N. J. 442.

1892. *Heliria scalaris*. Godg. Ent. News, iii, 200.

Hab.—N. Y. (Fitch), N. J. (Smith). Can. (Van Duzee), Col. (Baker), Ill. (Goding).

84. H. STROMBERGI, n. sp.

♀. Size and general markings like *cristata*, but crest entirely different.

Head yellow, marbled with brown, punctured, surface very uneven, ocelli close to each other, distant from eyes. Prothorax depressed, lateral angles very much produced in long protuberances; anterior edge of dorsal crest perpendicular, the angle above forming a point which is a third higher than posterior angle; upper edge straight, sloping rapidly from posterior superior angle, then gradually to apex of posterior process; crest compressed vertically, the impression below being very deep; general color sordid yellow,

irregularly clouded with piceous, a broad, black, transverse band extending between lateral angles from tip to tip; a black line on each side (sometimes obsolete) reaching from anterior base of crest in a curve to the inferior margin just below posterior edge of crest; apical half of posterior process piceous, densely punctured, with several lateral carinæ in posterior portion. Tegmina punctured, veins towards base and apex black. Below yellow; tibiæ spotted with black, triquetrous, with small spines, top of tarsi brown. Abdomen yellow, hairy, ovipositor brown. Length 10 mm., width between tips of humeral bones 7 mm., altitude 6 mm.

The ♂ differs from the ♀ as follows: Head is clear yellow, in front a transverse black band reaches about midway to anterior base of crest, lateral arcuate lines curve forward and downward, uniting with transverse band above each eye; a black spot on inferior margins below middle of crest; entire crest black excepting posterior edge, which forms a yellow vitta and extends downward and backward to inferior margin; behind this the surface is very dark brown. Abdomen yellow, tip brown; tibiæ annulate with ferruginous. Length 9 mm., width 5 mm., altitude 5 mm.

Described from several examples.

Hab.—Galesburg, Ill.

Collected by C. W. Stromberg, in whose honor this peculiar species is named.

The general appearance of this species is almost identical with *Enmya auriflua* as represented in Walker's List Hom. B. M. plate 4, fig. 1 and 2, but as it is impossible to place the species in that genus on account of its venation, I have placed it in *Heliria* for the present. Its venation is very similar to *Telamona*, and I doubt the advisability of separating *Heliria* from that genus.

85. *H. CRISTATA*, Fairm.

1846. *Thelia cristata*. Fairm. Rev. Memb. 311, 19.

1851. *Thelia cristata*. Walk. List Hom. B. M. 565, 33.

1854. *Telamona acclivata*. Emmons, Agr. N. Y. v, 155,
pl. 3, fig. 5.

1867. *Heliria cristata*. Stål, Bid. Hem. Syst. 556.

1869. *Heliria cristata*. Stål, Bid. Memb. Kän. 249.

1878. *Telamona reclivata*. Glover, MS. Jour. Hom. pl. 1, fig. 19. [*nec reclivata*].
Hab.—Mex. (Fairmaire), N. Y. (Emmons), Ill. (Forbes).

XV. ARCHASIA, STÅL.

86. A. GALEATA, Fabr.

1803. *Membracis galeata*. Fabr. Syst. Rhyng. 9, fig. 13.
 1846. *Thelia galeata*. Fairm. Rev. Memb. 309, 12.
 1851. *Thelia galeata*. Walk. List Hom. B. M. 563, 24.
Smilia auriculata. Fitch, Cat. Hom. N. Y. 49, 676.
Smilia auriculata. Walk. List Hom. B. M. 1141, 11.
 1854. *Smilia auriculata*. Emmons, Agr. N. Y. v, 153, pl. 3, fig. 12.
 1869. *Archasia galeata*. Stål, Bid. Memb. Kän. 250, 1.
 1876. *Archasia galeata*. Glover, Rep. U. S. Dept. Agr. 30, fig. 21.
Archasia galeata. Uhler, List Hem. West Miss. R. 344.
 1878. *Archasia galeata*. Glover, MS. Journ. Hom. pl. 1, fig. 17.
 1884. *Archasia galeata*. Uhler, Stand. Nat. Hist. ii, 225.
 1890. *Archasia galeata*. Van Duzee, Psyche, v, 390.
Archasia galeata. Smith, Cat. Ins. N. J. 442.
Hab.—N. Y. (Fitch), Fla. and Tex. (Riley), Ia. (Osborn), Ill. (Forbes).

87. A. BELFRAGEI, Stål.

1869. *Archasia belfragei*. Stål, Bid. Memb. Kän. 250, 2.
Hab.—Ill. (Stål), Mich. (Cook).

88. A. PALLIDA, Fairm.

1846. *Thelia pallida*. Fairm. Rev. Memb. 308, 8.
 1851. *Thelia pallida*. Walk. List Hom. B. M. 562, 20.
 1869. *Archasia pallida*. Stål, Bid. Memb. Kän. 250, 3.
Hab.—N. A. (Fairmaire).

89. A. CANADENSIS, Prov.

1889. *Archasia canadensis*. Prov. Faune Can. iii, 230.
Archasia galeata. Fabr. Van Duzee in litt.
Hab.—Can. (Provancher).

90. (?) *A. CONICA*, Walk.
 1851. *Thelia conica*. Walk. List Hom. B. M. 557, 9.
Hab.—E. Fla. (*Walker*).

XVI. SMILIA, GERM.

91. *S. CAMELUS*, Fabr.
 1803. *Membracis camelus*. Fabr. Syst. Rhyn. 10, 18.
 1821. *Smilia centralis*. Germ. Mag. Ent. iv, 22, 20.
 1835. *Smilia centralis*. Germ. in Silb. Rev. iii, 235, 5.
 1841. *Smilia vittata*. Am. & Serv. Hem. 539, 1.
Smilia fasciata. Am. & Serv. Hem. 539, 2.
 1846. *Thelia camelus*. Fairm. Rev. Memb. 308, 7, pl.
 5, fig. 5, 8, 9.
 1851. *Thelia camelus*. Walk. List Hom. B. M. 562, 19.
Smilia vittata. Fitch, Cat. Hom. N. Y. 49, 674.
Smilia guttata, var. Fitch, Cat. Hom. N. Y. 49,
 695.
Thelia vittata. Walk. List Hom. B. M. 1143, 46.
 1854. *Smilia guttata*. Emmons, Agr. N. Y. v, 153, pl.
 3, fig. 11.
Smilia vittata. Emmons, Agr. N. Y. v. 154, pl.
 3, fig. 14.
 1862. *Membracis camelus*. Harris, Treatise, 220.
Smilia camelus. Uhler, in Harr. Treatise, 220.
 1869. *Smilia camelus*. Stål, Hem. Fabr. 115.
 1878. *Smilia camelus*. Glover, MS. Journ. Hom. pl. 2,
 fig. 22.
 1884. *Smilia camelus*. Uhler, Stand. Nat. Hist. 225.
 1889. *Smilia camelus*, Van Duzee, Can. Ent. xxi, 7.
 1890. *Smilia camelus*. Smith, Cat. Ins. N. J. 441.
Hab.—Mo., Ga., and Mich. (*Riley*), N. Y. (*Fitch*), Fla.
 (*Walker*), Ill. (*Forbes*), N. J. (*Smith*), Ca. i. (*Van*
Duzee), Mass. (*Harris*), Ia (*Osborn*).

Var. viridis, n. var. An immaculate green form of the above was collected by Mr. O. S. Westcott, in northern Illinois, and is now in my collection.

92. *S. VANDUZEEI*, n. sp.

Yellow, marked with light brown mixed with ferruginous. Head yellow, strongly punctured, a slight carina passing down

the middle; eyes prominent, mottled light and dark brown; ocelli equidistant from each other and the eyes. Prothorax yellow, a tubercle above each eye; three transverse yellow bands, one just before middle, one behind middle, one midway between that band and apex; the anterior band directed downwards and backwards to middle of inferior border of prothorax a little before middle band and coalescing with it at this point; between these bands and the apex more or less ferruginous; punctured, tegmina yellowish, veins darker. Legs yellow. Tips of tarsi black, a fuscous spot at apex of tibiae. Length 7 to 8 mm.

Described from five specimens. Types in author's collection and in Mr. Van Duzee's.

Hab.—Calif. (Coquillett).

It differs from the other North American species of *Smilia* (*camelus*) in being more inclined anteriorly, in not having an angle in front superiorly, and in being much less elevated, the highest point being at middle of prothorax; also in coloration.

XVII. ACUTALIS, FAIRMAIRE.

93. A. TARTAREA, Say.

1830. *Membracis tartarea*. Say, Journ. Acad. Nat. Sci. Phila. vi, 242, 1.

1851. *Ceresa tartarea*. Walk. List Hom. B. M. 1141, 34.

1859. *Membracis tartarea*. Say, Compl. Writ. ii, 376, 1.

1876. *Acutalis tartarea*. Uhler, List Hem. West Miss. R. 345, 1.

1889. *Ceresa semicrema*, var. Prov. Faune Can. iii, 235.

1890. *Acutalis tartarea*. Van Duzee, Psyche, v, 389.

Hab.—Mo., Ia, and Pa., (Riley), Ill. (Forbes), Utah (Uhler), Mass. to Fla. (Uhler), Miss. (Cook).

94. A. SEMICREMA, Say.

1830. *Membracis semicrema*. Say, Journ. Acad. Nat. Sci. Phila. vi, 242, 2.

1846. *Membracis anticonigra*. Fairm. Rev. Memb. 498, 7.

1851. *Acutalis anticonigra*. Walk. List. Hom. B. M. 592, 9.

1851. *Ceresa semicurva*. Walk. List Hom. B. M. 1141, 35.
 1856. *Acutalis anticonigra*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 391.
 1859. *Membracis semicrema*. Say, Compl. Writ. ii, 376, 2.
 1876. *Acutalis semicrema*. Uhler, List Hem. West Miss. R. 345, 2.
 1889. *Acutalis semicrema*. Prov. Faune Can. iii, 235.
 1890. *Acutalis semicrema*. Van Duzee, Psyche, v, 389.
 1892. *Acutalis semicrema*. Harrington, Ottawa Nat. vi, 30.

Hab.—Fla. (Say), N. Y. (Fitch), Miss. and Mex. (Uhler), Can. (Provancher).

95. A. DORSALIS, Fitch.

1851. *Tragopa dorsalis*. Fitch, Cat. Hom. N. Y. 52, 698.
Tragopa dorsalis. Walk. List Hom. B. M. 1147, 28.
 1856. *Acutalis dorsalis*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 390, 103.
 1869. *Acutalis dorsalis*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.
 1876. *Acutalis dorsalis*. Uhler, List Hem. West Miss. R. 345, 3.
 1883. *Acutalis dorsalis*. Saunders, Ins. Inj. Fruits, 289, 160.
 1890. *Acutalis dorsalis*. Van Duzee, Psyche, v, 391.

Hab.—N. Y. (Fitch), Texas (Riley), Mich. (Cock).

96. A. CALVA, Say.

1830. *Membracis calva*. Say, Journ. Acad. Nat. Sci. Phila. vi, 242, 3.
 1835. *Smilia flaripennis*. Germ. in Silb. Rev. iii, 240, 16.
 1846. *Acutalis flaripennis*. Fairm. Rev. Memb. 497, 5.
 1851. *Ceresa calva*. Walk. List Hom. B. M. 1141, 36.
Acutalis flaripennis. Walk. List Hom. B. M. 591, 5.
 1856. *Acutalis calva*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 391.

1859. *Membracis calva*. Say, Compl. Writ. ii, 376, 3.
 1876. *Acutalis calva*. Uhler, List Hem. West Miss. R.
 345, 4.
 1878. *Acutalis calva*. Glover, MS. Journ. Hom. pl. 1,
 fig. 3.
 1889. *Ceresa calva* (var. of *semicrema*?). Prov. Faune
 Can. iii, 235.
 1890. *Acutalis calva*. Van Duzee, Psyche, v, 389.
Hab—Pa. (Say); Miss., Mich., Ala., Col., Mo., Tex., D.
 C., Fla., Va., Ark., and N. H. (Riley); Ill. (Forbes);
 Md., Mex., and Mass. (Uhler); Can. (Provancher);
 Ia (Osborn).

97. *A. OCCIDENTALIS*, n. sp.

Head yellow, with a broad black band passing along base between eyes, lower of which is sinuous and includes ocelli. Prothorax dull yellow, shining, but very minutely punctured, marked with black as follows: a median line extending backward, very narrow in front after leaving a triangular spot of same color, behind middle dilated into a large round spot; a triangular spot on each side in front of lateral angles, continuing backward and upward, meeting on the median line; base of thorax with a narrow yellow transverse band along its edge; from lateral angles an impressed line extending posteriorly near the lower margin. Tegmina and wings transparent, dilute yellow, veins darker, exceeding in length abdomen and apex of posterior process of prothorax; apical border broad and whitish. Abdomen piceous on sides, anteriorly. Slightly pubescent. Below ferruginous. Length 3 mm.

It differs from *illinoiensis* in the black transverse band at base of vertex, which is wanting in that species; and from *calva* in the shorter and more obtuse posterior process.

Described from several specimens. Types in author's collection and in that of Mr. Van Duzee.

Hab.—Calif. (Coquillett).

98. *A. PARVA*, n. sp.

Similar to *occidentalis* but smaller. It differs from that species in having an anterior transverse yellow band at base of prothorax, lateral impressed lines, and apex of head black. It is transversely depressed about midway between highest point

of prothorax and apex; somewhat strongly punctured posteriorly; and the end of the abdomen is more nearly perpendicular than in *occidentalis*. Below, head and juga black, chest yellow, abdomen tawny, legs yellow. Tegmina and wings dilute yellow; sides of abdomen and chest yellowish. Lower edge of prothorax compressed behind lateral angles. Length 2.5 mm.

Described from two specimens. Types in author's collection and in that of Mr. Van Duzee.

Hab.—Arizona (*Coquillett*).

99. *A. BINOTATA*, n. sp.

Head yellow, with an irregular band between eyes, at the base, and two dots near apex black. Prothorax black, excepting a transverse band at base and two large ovate spots anteriorly, the apex and lateral borders yellow; posteriorly irregularly sculptured and several scattered prominent punctures. Tegmina and wings yellow, veins near apex brown, apical border wrinkled. Upper surface of abdomen not declivous, under surface curving upwards, ferruginous. Legs yellow, tibiae marbled more or less with brown. Length 3 mm.

Described from one specimen. Type in author's collection.

Hab.—Calif. (*Van Duzee*).

100. *A. ILLINOIENSIS*, n. sp.

Head yellow, darker towards base; ocelli a little farther from each other than from the eyes; a narrow black band along the base, including also base of prothorax; two minute punctures near apex. Prothorax smoky yellow, base with a narrow black band, as stated above; just above this band a transverse yellow band, parallel to it; from middle of this yellow line a piceous band extending along the median line posteriorly, just before apex dilating into a large pyriform spot; two black dots on each side near front margin. Tegmina and wings transparent, vitreous. Abdomen sloping from just before apex of posterior prothoracic process downwards and backwards, almost reaching apex of tegmina; large, yellow. Pectus, tips of tarsi, and base of femora black, legs tawny. Length 4 mm.

Described from one specimen collected by C. W. Stromberg. Type in author's collection.

Hab.—Galesburg, Illinois.

The four black spots on head, and all dark lines on dorsum excepting the median found in *nigrolineata*, Stål, are wanting in this species.

101. A. TRIFURCATA, Godg.
1893. *Acutalis trifurcata*. Godg. Can. Ent. xxvi, 53, 2.
Hab.—St. Vincent Island, West Indies, (*H. H. Smith*).
102. A. APICALIS, Godg.
1893. *Acutalis apicalis*. Godg. Can. Ent. xxvi, 53, 3.
Hab.—St. Vincent Island, West Indies. (*H. H. Smith*).
103. A. MÆSTA, Stål.
1858. *Acutalis mæsta*. Stål, Hem. Rio Janeiro, ii, 33, 7.
Hab.—Mex. (*Lethierry*).
104. A. NIGROLINEATA, Stål.
1864. *Acutalis nigrolineata*. Stål, Hem. Mex. 72, 437.
Hab.—Mex. (*Stål*).

XVIII. CYRTOLOBUS,* GODING.

105. C. MUTICUS, Fabr.
1776. *Membracis mutica*. Fabr. Gen. Ins. Mant. 297,
12, 13.
1781. *Membracis mutica*. Fabr. Spec. Ins. ii, 318, 15.
1787. *Membracis mutica*. Fabr. Mant. Ins. ii, 265, 25.
1794. *Membracis mutica*. Fabr. Ent. Syst. iv, 15, 29.
1803. *Centrotus mutica*. Fabr. Syst. Rhyng. 21. 24.
1869. *Cyrtosia mutica*. Stål, Hem. Fabr. ii, 25, 1.
1890. *Cyrtosia mutica*. Van Duzee (?) Psyche, v, 390.
Hab.—N. A. (*Stål*).
106. C. FENESTRATUS, Fitch.
1851. *Cyrtosia fenestrata*. Fitch, Cat. Hom. N. Y. 49,
678.
Cyrtosia fenestrata. Walk. List Hom. B. M.
1147, 2.
1876. *Cyrtosia fenestrata*. Uhler, List Hem. West Miss.
R. 345.
1877. *Cyrtosia fenestrata*. Uhler, Rep. Ins. Coll. 1875,
457.
1878. *Cyrtosia fenestrata*. Glover, MS. Journ. Hom.
pl. 1, fig. 15.

**Cyrtosia*, Fitch, which is preoccupied in the Diptera.

1889. *Cyrtosia fenestrata*. Proy. Faune Can. iii, 239.
1890. *Cyrtosia fenestrata*. Van Duzee, Psyche, v, 388.
Cyrtosia fenestrata. Smith, Cat. Ins. N. J. 441.
 Hab.—N. Y. (Fitch), Col. and Dak. (Uhler), Ill. (Forbes),
 N. J. (Smith), Can. (Provancher), Miss. (Cook).
107. C. VAU, Say.
1831. *Membracis vau*. Say, Journ. Acad. Nat. Sci.
 Phila. vi, 299, 6.
1851. *Thelia semifascia*. Walk. List Hom. B. M. 561,
 16.
Smilia vau. Fitch, Cat. Hom. N. Y. 48, 658.
Thelia vau. Walk. List Hom. B. M. 1142, 16.
1856. *Smilia vau*. Fitch, 3d Rep. Ins. N. Y. in Trans.
 Agr. Soc. 451.
1859. *Membracis vau*. Say, Compl. Writ. ii, 378, 6.
1862. *Membracis vau*. Harris, Treatise, 220.
1876. *Smilia vau*. Glover, Rep. U. S. Dep. Agr. 30,
 fig. 20.
1877. *Smilia vau*. Uhler, Wheeler's Rep. App. J. 1333.
1878. *Smilia vau*. Glover, MS. Journ. Hom. pl. 2, fig.
 10, 31.
1889. *Cyrtosia vau*. Van Duzee, Can. Ent. xxi, 7.
Cyrtosia vau. Proy. Faune Can. iii, 238.
1890. *Smilia vau*. Smith, Cat. Ins. N. J. 441.
Cyrtosia vau. Van Duzee, Psyche, v, 389.
1892. *Cyrtosia vau*. Harrington, Ottawa Nat. vi, 30.
 Hab.—Penn. (Say); Mo., N. C., Tex., and Ark. (Riley);
 N. Mex. (Uhler); Ill. (Forbes); Mass. (Harris); Can.
 (Van Duzee); N. Y. (Smith); Col. (Gillette).
108. C. TRILINEATUS, Say.
1824. *Membracis trilineata*. Narr. Long's Exped. 300, 2.
1859. *Membracis trilineata*. Say, Compl. Writ. i, 200, 2.
1889. *Cyrtosia trilineata*. Proy. Faune Can. iii, 239.
1890. *Cyrtosia trilineata*. Van Duzee Psyche, v, 389.
1892. *Cyrtosia trilineata*. Harrington, Ottawa Nat. vi,
 30.
 Hab.—N. W. States (Say), Can. (Provancher), Ill.
 (Stromberg).
109. C. SCULPTUS, Fairm.
1846. *Thelia sculpta*. Fairm. Rev. Memb. 307, 5.

1851. *Thelia sculpta*. Walk. List Hom. B. M. 562, 17.
 1867. *Cyrtosia sculpta*. Stål, Öfv. Kongl. Vet.-Acad.
 Forh. xxiv, 554.
Hab.—N. C., (*Van Duzee*), Mich. (*Davis*), Ill. (*Forbes*).
110. *C. ORNATUS*, Prov.
 1889. *Cyrtosia ornata*. Prov. Faune Can. iii, 240.
 1892. *Cyrtosia ornata*. Harrington, Ottawa Nat. vi,
 30.
Hab.—Ottawa, Can., (*Provancher*).
111. *C. TUMIDUS*, Walk.
 1851. *Thelia tumida*. Walk. List Hom. B. M. 560, 14.
Hab.—Fla. (*Walker*).
112. *C. CRISTIFERUS*, Stål.
 1864. *Smilia cristifera*. Stål, Hem. Mex. 71, 433.
 1867. *Cyrtosia cristifera*. Stål, Öfv. Kongl. Vet.-Acad.
 Forh. xxiv, 554.
Hab.—Mex. (*Stål*).
113. *C. CARINATUS*, Stål.
 1864. *Smilia carinata*. Stål, Hem. Mex. 71, 435.
 1867. *Cyrtosia carinata*. Stål, Öfv. Kongl. Vet.-Acad.
 Forh. xxiv, 554.
Hab.—Mex. (*Stål*).
114. *C. TUBEROSUS*, Fairm.
 1846. *Thelia tuberosa*. Fairm. Rev. Memb. 307, 6.
 1851. *Thelia tuberosa*. Walk. List Hom. B. M. 562, 18.
Hab.—Miss. (*Riley*), Ill. (*Forbes*).
115. *C. ARQUATUS*, Emmons.
 1854. *Cyrtosia arquata*. Emmons, Agr. N. Y. v, 154,
 pl. 13, fig. 14.
Hab.—N. Y. (*Emmons*).
116. *C. FULIGINOSUS*, Emmons.
 1854. *Cyrtosia fuliginosa*. Emmons, Agr. N. Y. v,
 154, pl. 13, fig. 15.
Hab.—N. Y. (*Emmons*).
117. *C. INTERMEDIUS*, Emmons.
 1854. *Cyrtosia intermedia*. Emmons, Agr. N. Y. v, pl.
 13, fig. 16.
Hab.—N. Y. (*Emmons*).

118. *C. GLOVERI*, n. sp.1878. *Cyrtosia gloveri*. Glover, MS. Journ. Hom. pl. 1, fig. 14.*Hab.*—Unknown; probably Maryland.

The species figured by Glover in his illustrations of Homoptera on plate 1, fig. 14, has, as far as I know, never received a name; and as Glover was familiar with the various species described by our native writers and did not place the specific name on the plate, he evidently believed it to be new. I have never met the species in collections seen; but as the plates of Glover are well known I have called it *gloveri*, so as to include it in this catalogue.

XIX. *ATYMNA*, SAY.119. *A. INORNATA*, Say.1831. *Membracis inornata*.* Say, Journ. Acad. Nat. Sci. Phila. vi, 299, 7.1851. *Smilia inornata*. Fitch, Cat. Hom. N. Y. 48, 653.
Thelia inornata. Walk. List Hom. B. M. 1142, 42.1856. *Smilia inornata*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 471, 198.1858. *Smilia inornata*. Walk. List Hom. B. M. Suppl. 134.1859. *Membracis inornata*. Say, Compl. Writ. ii, 578, 7.1869. *Smilia inornata*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.1876. *Smilia inornata*. Glover, Rep. U. S. Dep. Agr. 30, fig. 18.1878. *Smilia inornata*. Glover MS. Journ. Hom. pl. 2, fig. 26.1882. *Atymna inornata*. Lintner, 1st Rep. Ins. N. Y. 284.1889. *Atymna inornata*. Prov. Faune Can. iii, 248.1890. *Atymna inornata*. Van Duzee, Psyche, v., 589.

*Last September, Prof. Uhler, our most distinguished student of this Order, informed me that *Membracis subulata*, Say, is but a variety of this species.

- 1890 *Smilia inornata*. Pack. Ins. Inj. Forest and Shade Trees, 350, 19.
Hab.—Penn. (Say), N. Y. (Fitch), West. States (Riley), Ill. (Goding), Md. (Glover), Can. (Provancher).
120. A CASTANEA. Fitch.
1851. *Smilia castanea*. Fitch. Cat. Hom. N. Y. 49, 699.
Thelia castanea. Walk. List Hom. B. M. 1143, 48.
1856. *Smilia castanea*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 470, 197.
1858. *Smilia castanea*. Walk. List Hom. B. M. Suppl. 133.
1867. *Atymna castanea*. Stål, Öfv. Kongl. Vet.-Acad. Forh. xxiv, 554.
1869. *Smilia castanea*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.
1890. *Atymna castanea*=*Atymna inornata*, Say ♂ (?).
 Van Duzee, Psyche, v, 390.
Smilia castanea. Pack. Ins. Inj. Forest and Shade Trees, 350, 18.
1892. *Atymna castanea*. Harrington, Ottawa Nat. vi, 30.
Hab.—N. Y. (Fitch), Penn. (Rathvon), Can. (Harrington).
121. A. QUERCI, Fitch.
1851. *Smilia querci*. Fitch, Cat. Hom. N. Y. 49, 672.
Thelia querci. Walk. List Hom. B. M. 1143, 47.
1854. *Gargara querci*. Emmons, Agr. N. Y. v, 156, pl. 13, fig. 8.
1878. *Smilia querci*. Glover, MS. Journ. Hom. pl. 2, fig. 11.
1890. *Atymna querci*. Van Duzee, Psyche, v, 390.
Hab.—N. Y. (Fitch), Mo. (Riley), Ia. (Osborn), Ill. (Forbes), Ont. and Conn. (Van Duzee), Mich. (Cook).
122. A. VIRIDIS, Emmons.
1854. *Smilia viridis*. Emmons, Agr. N. Y. v, 154, pl. 3, fig. 13.
Hab.—N. Y. (Emmons), Ill. (Goding).

123. A. CINEREUM, Emmons.
 1854. *Gargara cinereum et Smilia* ———. Emmons,
 Agr. N. Y. v, 156, pl. 13, fig. 3 [2 on list of
 figures?].
Hab.—N. Y. (*Emmons*).
124. A. MACULIFRONTIS, Emmons.
 1854. *Gargara maculifrontis et Smilia* ———. Em-
 mons, Agr. N. Y. v, 156, pl. 13, fig. 1.
Hab.—N. Y. (*Emmons*), Mich. (*Cook*), Ill. (*Goding*).
125. A. PALLIDIFRONTIS, Emmons.
 1854. *Gargara pallidifrontis*. Emmons, Agr. N. Y. v,
 pl. 13, fig. 7.
Hab.—N. Y. (*Emmons*), Ill. (*Stromberg*).
126. A. DISCOIDALIS, Emmons.
 1854. *Gargara discoidalis*. Emmons, Agr. N. Y. v,
 157, pl. 13, fig. 4.
Hab.—N. Y. (*Emmons*).
127. A. INERMIS, Emmons.
 1854. *Gargara inermis*. Emmons, Agr. N. Y. v, 157,
 pl. 13, fig. 9.
Hab.—N. Y. (*Emmons and Van Duzee*).

XX. EVASHMEADEA, GODING, n. gen.

Clavus and part of corium covered by thorax ; corium from its base emitting three veins contiguous at base ; corium before the middle with a transverse venule between the two interior longitudinal veins ; two discoidal cells, one before the two apical cells and behind the above transverse venule, another before the second apical cell. Thorax punctured, destitute of longitudinal rugæ ; anteriorly convex and slightly unicarinate, behind lateral angles compresso-acute ; when seen from side, two sinuses, the anterior sinus at the middle of prothorax ; before and behind this sinus a rounded lobe ; the posterior sinus is immediately behind second lobe, and is much shallower than the other, the upper part gradually curving downward to apex, which is acute ; lateral angles slightly produced.

This genus is dedicated to my esteemed friend, Mr. W. H. Ashmead, to whom I am indebted for many favors.

128. *A. CONCINNA*, n. sp.

Head yellow punctured with darker color; eyes brown; ocelli on a line with centre of eyes and equidistant from each other and the eyes; middle slightly produced; base a little convex. Prothorax dull yellow, densely punctured, a median percurrent carina; convex in front, more or less mottled with very light yellow and ferruginous; apical fourth always ferruginous; in strongly marked specimens the two lobes are ferruginous, which color extends down the sides; a whitish line passes diagonally behind posterior lobe, another whitish band extends diagonally forwards and upwards in front of anterior lobe, the sinus between lobes always lighter than ground color, its edges marked with ferruginous. Tegmina transparent, veins yellow, apex ferruginous. Below yellow; leg yellow, tarsi black (in some specimens tibiæ also black). Length 7 mm.

Described from two specimens. Types in author's collection and in that of Mr. Van Duzee.

Hab.—Arizona (*Van Duzee*).

The two examples seen, differ widely in markings, and possibly represent two species.

129. *A. BAJULA*, n. sp.

Greenish yellow, probably green when alive. Head yellow speckled with brown, and two longitudinal brown lines through ocelli, converging toward apex. Prothorax greenish yellow, median carina darker; on each side of carina and contiguous to it a whitish band extending to anterior lobe; lateral borders whitish, a band of same color passing across in front of apex, and one through median sinus; a brown patch in front of and above lateral angles; on each side, on lateral border below base of anterior lobe, a semicircular blackish irregular line, the convexity of which is upwards; within the semicircular space are other irregular black lines; lobes greenish. Tegmina vitreous, a brown patch across middle and at apex. Below, yellowish, tips of tarsi black. Length 4.5 mm.

Described from one specimen. Type in author's collection.

Hab.—Arizona (*Van Duzee*).

130. *A. ARIZONENSIS*, n. sp.

Head yellow, irrorate with black; eyes yellow; ocelli equidistant from each other and the eyes, black. Prothorax yellow.

irrorate with black anteriorly; behind lateral angles piceous, the two dorsal lobes brown; apex same color, with a transverse white band just before; sinus between two dorsal lobes white, extending usually down to lateral borders in a zigzag manner. Tegmina clear, veins brown, apical border brown. Legs yellow, tibiæ with row of spines on each side, tarsi black. Abdomen black below, apex light brown. Length 4 mm.

Described from one specimen. Type in author's collection.

Hab.—Arizona.

In this species the second discoidal cell is divided by a longitudinal venule, the exterior part much narrower; also the median basal cell is divided into two parts by the coalescence of the basal veins. This feature may be of generic value.

XXI. OPHIDERMA, FAIRM.

131. O. SALAMANDRA, Fairm.

1846. *Ophiderma salamandra*. Fairm. Rev. Memb. 493, 1.

1851. *Ophiderma salamandra*. Walk. List Hom. B. M. 588, 1.

1854. *Gargara pubescens*. Emmons, Agr. N. Y. v, 157, pl. 13, fig. 2.

1856. *Ophiderma salamandra*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 465, 191.

1890. *Ophiderma salamandra*. Smith, Cat. Ins. N. J. 442.

Hab.—N. Y. (Fitch), D. C. and Va. (Riley), N. J. (Smith), Ill. (Forbes), Mich. (Cook).

132. O. FLAVIGUTTULA, n. sp.

♀. Head triangular, yellowish; eyes prominent, dark brown; ocelli equidistant from each other and the eyes, red; convex, densely pubescent. Prothorax with very slight median carina, densely pubescent, an irregular yellow patch starting at lateral border and extending upwards and forwards, midway between base and apex; an irregular band at base, concolorous with head, extending along sides in a greenish gray line; otherwise dirty brown, lightly punctured; apex of posterior process not reaching apex of tegmina. Tegmina sub-

coriaceous at base, lightly punctured, basal half and apex brown. Below yellow, feet and legs brown. Length 6.2 mm.

Described from one specimen from Illinois (Stromberg). Type in author's collection.

133. *O. FLAVA*, n. sp., ♂ and ♀.

Similar in stature to *salamandra*, but much broader between lateral angles, and not so depressed. Median carina evidently percurrent. Entirely yellow and pubescent. Apex of head strongly recurved, a short, deeply impressed transverse line above each eye. Legs yellow, apex of femora and tibiæ and tips of tarsi fuscous. Length 7 mm.

Described from one ♂ received from Mr. Westcott, and one ♀ from Dr. Riley. Types in author's collection.

Hab.—Ill. (Westcott), Mich. (Van Duzee).

One fresh specimen received from Mr. Stromberg is grass-green.

134. *O. FLAVICEPHALA*, n. sp.

Brown, head yellow; a yellow stripe on each side of prothorax anteriorly; abdomen yellow, tip brown. Head broad, triangular, yellow, eyes prominent; ocelli equidistant from each other and the eyes; a dark brown line along capito-thoracic articulation, two dots of same color on this line directly above ocelli; a short semicircular line of same color on each side between these dots and the eyes. Prothorax with a curved line similar to and just above those on head, the two on each side nearly completing a small circle; the lines on prothorax apparently raised; the smooth percurrent median carina a trifle lighter colored; just in front of highest point of prothorax a dark spot bisected by median carina; on each side of prothorax a wide yellow stripe (continuous with color on head) extending from the front angles along the lower margins nearly two thirds of the distance to apex, the posterior edge of this stripe truncated diagonally downward and backward, the superior edge convex, the inferior border following course of border of prothorax; from posterior edge of this stripe a dark cloud passes across prothorax; apex lighter than ground color, which is ferruginous-brown; punctured and pi-

lose. Tegmina with apex and costal half of base brown, elsewhere clear. Abdomen yellow, tip brown; femora black, tibiae and tarsi yellow. Length 6.2 mm.

Described from one specimen. Type in author's collection.

Hab.—N. J. and Penn. (*Liebeck*), N. Y. (*Goding*) Fla. and Md. (*Van Duzee*).

135. *O. NIGRICEPHALA*, Emmons.

1854. *Gargara nigricephala*. Emmons, Agr. N. Y. v, 157, pl. 13, fig. 5.

Hab.—N. Y. (*Emmons*).

XXII. *VANDUZZEA*, n. gen.

1890. *Van Duzee*, Psyche, v, 389.

Closely related to *Ophiderma*, Fairm., but separated therefrom by the transverse apical cell of the tegmina, which in the former genus is triangular and stylated.

Type of genus *Membracis arquata*, Say.

136. *V. ARQUATA*, Say.

1831. *Membracis arquata*. Say, Journ. Acad. Nat. Sci. Phila. vi, 302, 12.

1851. *Carynota arquata*. Fitch, Cat. Hom. N. Y. 48, 651.

Carynota arquata. Walk. List Hom. B. M. 1144, 2.

1859. *Membracis arquata*. Say, Compl. Writ. ii, 380, 12.

1869. *Caranota arcuata!* Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.

1878. *Carineta arquata*. Glover, MS. Journ. Hom. pl. 2, fig. 24.

1890. *Ophiderma arquata*. *Van Duzee*, Psyche, v, 389. (Suggests new genus.)

Ophiderma arquata. Smith, Cat. Ins N. J. 442. Hab.—Penn. (*Say*), West. States (*Riley*), Can. (*Van Duzee*), N. J. (*Smith*), N. C. (*Van Duzee*), Mich. (*Cook*).

137. *V. VESTITA*, n. sp.

Head broad, black, perpendicular, triangular, a narrow dusky brown mark on upper edge just below origin of carina

Eyes prominent; ocelli equidistant from each other and the eyes. Front of prothorax blackish brown, fading posteriorly to a reddish brown in a triangular form, the apex of which reaches three fourths of the distance to apex of posterior process; lateral angles slightly produced; sides of prothorax from just behind lateral angles to apex black, interrupted by a light yellow, or whitish, trapezoidal spot on each side just behind middle of inferior border; just before the apex a white band across posterior part of process. Tegmina clear, with dark brown veins, or brown with a lighter band across middle. Legs and feet brown or black. Length 4.7 mm.

Described from five specimens. Type in author's collection.

Hab.—Arizona (*Van Duzee*), D. C. (*Osborn*).

The ground color of this species varies from brown to black. The triangular brown patch is found on the brown specimens only, but the white markings mentioned are constant, and in the black specimens another white spot is sometimes found just in front of the trapezoidal one. One example received from Prof. Osborn, labeled *Salamandra*, from D. C., proved to be this species. It is the species referred to by Townsend, in the *Canadian Entomologist*, Vol. 24, p. 196, as *Cyrtolobus annexus*, Uhler.

138. V. LÆTA, n. sp.

Head yellowish, irrorate with black, a wavy impressed line (—) extending from lower corner of each eye transversely. Prothorax yellow, irrorate with black anteriorly; on each side a white stripe extending from middle of inferior border diagonally upward and forward, connected by a transverse broken band extending across back; a transverse band just before the apex; surface between these two bands very dark brown; all in front of anterior stripe irrorate; pubescent. Tegmina clear, apical border brownish. Below yellowish; tibiae and tips of tarsi brown. Length 4.7 mm.

Described from one specimen. Type in author's collection.

Hab.—Arizona (*Van Duzee*).

139. V. APICALIS, Walker.

1851. *Ceresa apicalis*. Walker, List Hom. B. M. 533,
33.

Hab.—N. A. (*Walker*).

XXIII. JANTHE, STÅL.

140. J. EXPANSA, Germ.

1835. *Hemiptycha expansa*. Germ. in Silb Rev. iii, 245, 1.

Hemiptycha cucullata. Burm. Handb. Ent. ii, 140, 4.

1846. *Thelia expansa*. Fairm. Rev. Memb. 309, 13, pl. 5, fig. 6, 7.

1864. *Smilia expansa*. Stål, Hem. Mex. 71, 432.

1867. *Janthe expansa*. Stål, Bid. Hem. Syst. 554.

1889. *Janthe expansa*. Prov. Faune Can. iii, 231.

Hab.—Mex. (Fairmaire), Arizona (Riley), Fla. (Provancher).

141. J. FOLIACEA, Stål.

1864. *Smilia foliacea*. Stål, Hem. Mex. 71, 433.

1869. *Janthe foliacea*. Stål. Bid. Memb. Kän. 240, 1.

Hab.—Mex. (Stål).

XXIV. CARYNOTA, FITCH.

142. C. MARMORATA, Say.

1831. *Membracis marmorata*. Say, Journ. Acad. Nat. Sci. Phila. vi, 301, 11.

1846. *Thelia porphyrea*. Fairm. Rev. Memb. 306, 4.

1851. *Cyrtosia marmorata*. Fitch, Cat. Hom. N. Y. 49, 677.

Cyrtosia marmorata. Walk. List Hom. B. M. 1146, 1.

1859. *Membracis marmorata*. Say, Compl. Writ. ii, 379, 11.

1867. *Optilete porphyrea*. Stål, Bid. Hem. Syst. 556. pl. 2, fig. 22.

1878. *Cyrtosia marmorata*. Glover, MS. Journ. Hom. pl. 2, fig. 21.

Optilete porphyrea. Glover, MS. Journ. Hom. pl. 2, fig. 22.

1889. *Carynota marmorata*. Van Duzee, Can. Ent. xxi, 6.

Carynota picta. Prov. Faune Can. iii, 247. [Fide Van Duzee.]

1890. *Carynota marmorata*. Van Duzee, Psyche, v, 389.

Cyrtosia marmorata. Smith, Cat. Ins. N. J. 441.

Hab.—Penn. (Say), West. States (Riley), N. Y. (Fitch),
Can. (Van Duzee, Provancher), N. J. (Smith), N. C.
(Palmer), Ill. (Goding).

143. *C. STROMBERGI*, n. sp.

Stature similar to *mera*, but smaller, wanting the fuscous band. Greenish, mottled with yellow; apex sanguineous, pilose.

Head yellow, a greenish spot just above apex; eyes prominent, drab; ocelli a trifle nearer to each other than to the eyes, orange-yellow. Prothorax with a percurrent carina, greenish mottled with yellow, an impressed sinuous line on each side from notch for base of tegmina to depressed place on prothoracic process just behind middle, all below this line mottled with a dark cloud; four longitudinal impressed lines; apex sanguineous, humeral angles and a band in front at base of prothorax yellow. As is usual in members of this genus there are three punctures on the prothorax just above the eyes, sometimes connected by black impressed lines, and a transverse impressed line just above the base; below this line smooth, elsewhere heavily punctured and pilose. Tegmina yellow, basal half more or less dusky, punctured, apex and some of the veins black. Below yellow, with an orange-colored patch on each side of abdomen. Legs yellow, a dusky line on outer surface, feet dusky. Length 8 mm.

Described from one example in author's collection.

Hab.—Ill. (Stromberg).

This may prove to be the male of *mera*.

144. *C. MERA*, Say.

1831. *Membracis mera*. Say, Journ. Acad. Nat. Sci. Phila. vi, 301, 10.

1851. *Carynota mera*. Fitch, Cat. Hom. N. Y. 48, 650.

Carynota mera. Walk. List Hom. B. M. 1144, 1.

1854. *Gargara majus*. Emmons, Agr. N. Y. v, 156, pl. 13, fig. 6.

1856. *Ophiderma mera*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 465, 191.

1859. *Membracis mera*. Say, Compl. Writ. ii, 379, 10.

1869. *Ophiderma mera*. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.
1878. *Ophiderma mera*. Glover, MS. Journ. Hom. pl. 1. fig. 16.
1889. *Carynota mera*. Prov. Faune Can. iii, 246.
1890. *Carynota mera*. Van Duzee, Psyche, v, 389.
Ophiderma mera. Smith, Cat. Ins. N. J. 442.
Ophiderma mera. Pack. Ins. Inj. Forest and Shade Trees, 342, 11.
- Hab.*—Penn. (Say), Mo. and Tex. (Riley), Ia. (Osborn) Ill. (Goding), N. J. (Smith), Cau. (Provancher).
145. *C. MUSKOKENSIS*, n. sp.
1889. *Carynota marmorata*, Van Duzee, Can. Ent. xxi, 6.
1892. *Carynota marmorata*. Harrington, Ottawa Nat. vi, 30.

♀. Brick-red, marbled or spotted with yellow. Head rufous, unequal, marked with yellow; spindle-shaped; ocelli much nearer each other than to the eyes; eyes prominent. Prothorax arcuated, flattened in front of middle, then tapering to apex, which equals or surpasses apical cell of tegmina; brick-red, densely speckled with yellow along median carina for a distance on each side to summit, elsewhere with scattering yellow points; above each eye an irregular blackish scar. Tegmina nearly covered, basal half reddish, punctured, tip fuliginous, below reddish yellow, legs reddish. Length 8.5 mm., breadth 4 mm., altitude 4 mm.

Described from one female collected by E. P. Van Duzee and referred to by him in his List of Muskoka Hemiptera.

Hab.—Muskoka Lake District (Van Duzee).

Food plant, *Populus grandidentata*?

This species differs from *marmorata* in the length of the posterior process, and in the markings as given by Say.

In a letter to the author, Mr. E. P. Van Duzee says: "Are you aware that the species of *Carynota* have become mixed? Provancher's *picta* equals Say's *marmorata*, while his *marmorata* equals the species I determined as *marmorata* in my list of Muskoka Hemiptera, where, you see, I felt a little doubt. I sent Provancher a specimen from Muskoka which he used in

his determination. Had he sent me a specimen of his *picta* before describing it I could have corrected the error."

I see no reason why Optilete should be separated from Carynota, and, in my opinion, they should be united, Carynota Fitch having priority. Fairmaire's *Thelia porphyrea*, which was used by Dr. Stål as the type of his genus Optilete appears to me to be Say's *marmorata*, which I find to be somewhat variable as to markings.

SUBFAMILY DARNINÆ, STÅL.

XXV. HEMIPTYCHA, GERM.

146. H. NIGRORUFA, Walk.
1858. *Hemiptycha nigrorufa*. Walk. List Hom. B. M. Suppl. 143.
Hab.—Mex, (Walker).

XXVI. PYRANTHE, STÅL.

147. P. LONGICORNIS, Fairm.
1846. *Hemiptycha longicornis*. Fairm, Rev. Memb. 315, 7.
1869. *Pyranthe longicornis*. Stål, Bid. Memb. Kän, 252, 2.
Hab.—N. A. (Fairmaire).

XXVII. DARNOIDES, FAIRM.

148. D. CARINATA, Leth.
1872. *Darnoides carinata*. Leth. Ann. Soc. Ent. Belg. xxv, 15.
Hab.—Guadeloupe (Lethierry).

XXVIII. HYPHINOË, STÅL.

149. H. CUNEATA, Germ., ♀.
1835. *Hemiptycha cuneata*. Germ. in Silb. Rev. iii, 246, 3.
1846. *Hemiptycha cuneata*. Fairm. Rev. Memb. 319, 23, pl. 6, fig. 26.
Hemiptycha globiceps, ♂. Fairm. Rev. Memb. 319, 20, pl. 6, fig. 19.

1851. *Hemiptycha cuneata*. Walk. List Hom. B. M. 574, 28.
Hemiptycha globiceps. Walk. List Hom. B. M. 573, 25.
1864. *Hemiptycha cuneata*. Stål, Hem. Mex. 71, 428.
1869. *Hyphinoë cuneata*. Stål, Bid. Memb. Kän. 257, 1.
1878. *Hyphenoë globiceps*. Butler, Cist. Ent. ii, 245, 3.
Hab.—Mex. (Fairmaire).
150. H. CAMELUS, Gray.
1832. *Darnis camelus*. Gray, Griff. An. King. Ins. ii, 260, pl. 109, fig. 3.
1835. *Hemiptycha sagata*. Germ. in Silb. Rev. iii, 245, 2.
1846. *Hemiptycha camelus*. Fairm. Rev. Memb. 319, 21, pl. 6, fig. 21.
1851. *Hemiptycha camelus*. Walk. List Hom. B. M. 574, 26.
*Hemiptycha viridissima** Walk. List Hom. B. M. 572, 21.
Triquetra valida. Walk. List Hom. B. M. 524, 16.
1858. *Hemiptychia viridissima*. Walk. List Hom. B. M. Suppl. 146.
Thelia obliqua. Walk. Ins. Saund. Hom. 73.
1864. *Hemiptycha camelus*. Stål, Hem. Mex. 71, 430.
1869. *Hyphinoë camelus*. Stål, Bid. Memb. Kän. 257, 2.
1878. *Hyphinoë camelus*. Butler, Cist. Ent. ii, 344, 1.
Hyphinoë viridissima. Butler, Cist. Ent. ii, 345, 2.
Hab.—Mex. (Fairmaire).
151. H. ASPHALTINA, Fairm.
1846. *Hemiptycha asphaltina*. Fairm. Rev. Memb. 319 22, pl. 6, fig. 20.
1851. *Hemiptycha asphaltina*. Walk. List Hom. B. M. 574, 27.

*Butler ranks *viridissima* as distinct. He says, "It not only differs in size and color [from *camelus*], being much larger and greener than *camelus*, but it has considerably longer tegmina, is more coarsely punctured, has the front margin of the pronotum bracket-shaped (~~~~~), the humeral horns prominent, and the posterior process longer."

1858. *Hemiptycha apriformis*, ♂. Walk. List Hom. B. M. Suppl. 144.
Hemiptycha pubescens, ♀. Walk. List Hom. B. M. Suppl. 144.
1864. *Hemiptycha asphaltina*. Stål, Hem. Mex. 71, 429.
1869. *Hyphinoë asphaltina*. Stål, Bid. Memb. Kän. 257, 3.
1878. *Hyphinoë asphaltina*. Butler, Cist. Ent. ii, 346, 8.
Hab.—Mex. (*Fairmaire*).
152. H. BIGUTTA, Walker.
1858. *Hemiptycha bigutta*. Walk. List Hom. B. M. Suppl. 142.
1878. *Hyphinoë bigutta*. Butler, Cist. Ent. ii, 245, 5.
Hab.—Guatemala (*Walker*).

XXIX. OCHROLOMIA, STÅL.

153. O. ZONIFERA, Butler.
1878. *Ochrolomia zonifera*. Butler, Cist. Ent. ii, 339, 5, pl. 7, fig. 2.
Hab.—Mex. (*Butler*).
154. O. INCERTA, Walker.
1858. *Darnis incerta*. Walk. List Hom. B. M. Suppl. 149.
1878. *Ochrolomia incerta*. Butler, Cist. Ent. ii, 338, 3.
Hab.—Mex. (*Sallé*).

XXX. STICTOPELTA, STÅL.

155. S. NOVA, Godg.
1892. *Stictopelta nova*. Godg. Ent. News, iii, 109.
Hab.—Calif. (*Riley*).
156. S. FRATERNA, Butler.
1878. *Stictopelta fraterna*. Butler, Cist. Ent. ii, 340, 9.
Hab.—Mex. (*Butler*).
157. S. BIPUNCTATA, Burm.
1836. *Darnis bipunctata*. Burm. in Silb. Rev. iv, 171, 4.
1846. *Darnis bipunctata*. Fairm. Rev. Memb. 480, 7.

1851. *Darnis bipunctata*. Walk. List Hom. B. M. 575, 7.
 1869. *Stictopelta bipunctata*. Stål, Hem. Fabr. ii, 32.
 1878. *Stictopelta bipunctata*, Butler, Cist. Ent. ii, 340, 3.
Hab.—Mex. (Fairmaire).
158. S. AFFINIS, Guér.
 1838. *Darnis affinis*. Guér. Ic. Reg. An. Ins. 364, pl. 59, fig. 2.
 1846. *Darnis affinis*. Fairm. Rev. Memb. 480, 3. *
 1851. *Darnis affinis*. Walk. List Hom. B. M. 574, 3.
 1858. *Darnis transversalis*. Walk. Hom. B. M. Suppl. 148.
 1864. *Darnis affinis*. Stål, Hem. Mex. 72, 438.
 1878. *Stictopelta affinis*. Butler, Cist. Ent. 339, 1.
Hab.—Mex. (Fairmaire).
159. S. ADUSTA, Burm.
 1836. *Darnis adusta*. Burm. in Silb. Rev. iv, 170, 2.
 1846. *Darnis adusta*. Fairm. Rev. Memb. 480, 4.
 1851. *Darnis adusta*. Walk. List Hom. B. M. 575, 4.
 1878. *Stictopelta adusta*. Butler, Cist. Ent. ii, 340, 4.
Hab.—Mex. (Fairmaire).
160. S. MARMORATA, Godg.
 1892. *Stictopelta marmorata*. Godg. Ent. News, iii, 201.
Stictopelta marmorata. Townsend, Can. Ent. xxiv, 195.
Hab.—New Mex. (Townsend).
161. S. PRÆCOX, Burm.
 1836. *Darnis præcox*. Burm. in Silb. Rev. iv, 173, 9.
 1846. *Darnis præcox*. Fairm. Rev. Memb. 480, 6.
 1851. *Darnis præcox*. Walk. List Hom. B. M. 575, 6.
 1878. *Stictopelta præcox*. Butler, Cist. Ent. ii, 340, 7.
Hab.—Mex. (Fairmaire).
162. S. STRIGIFRONS, Fairm.
 1846. *Darnis strigifrons*. Fairm. Rev. Memb. 481, 8.
 1851. *Darnis strigifrons*. Walk. List Hom. B. M. 475, 8.
 1878. *Stictopelta strigifrons*. Butler, Cist. Ent. ii, 340, 5.
Hab.—Mex. (Fairmaire).

XXXI. CRYPTOPTERA, STÅL.

163. C. BREVIS, Fairm.

1846. *Darnis brevis*. Fairm. Rev. Memb. 483, 18.
 1851. *Darnis brevis*. Walk. List Hom. B. M. 578, 20.
 1858. *Darnis brevis*, var.? Walk. List Hom. B. M.
 Suppl. 147.
 1878. *Cryptoptera brevis*. Butler, Cist. Ent. ii, 342, 3.
Hab.—Mex. (Fairmaire).

XXXII. DARNIS, FABR.

164. D. LATERALIS, Fabr.

1801. *Membracis lateralis*. Fabr. in Coq. Ill. Ic. Ins.
 ii, 78, pl. 18, fig. 9.
 1803. *Darnis lateralis*. Fabr. Syst. Rhyng. 27, 6.
 1821. *Darnis lateralis*. Germ. Mag. Ent. iv, 11, 1.
 1828. *Darnis lateralis*. Boitard, Man. Ent. ii, 164.
 1835. *Darnis lateralis*. Germ. in Silb. Rev. iii, 250, 1.
 1836. *Darnis lateralis*. Burm. in Silb. Rev. iv, 170, 3.
 1840. *Darnis lateralis*. Blanchard, Hist. Nat. Ins. iii,
 185, 2.
 1843. *Darnis lateralis*. Am. & Serv. Hemip. 545, 1.
 1846. *Darnis lateralis*. Fairm. Rev. Memb. 480, 5.
Darnis lateralis. Crochard, Ed. Reg. An. Ins.
 pl. 8, fig. 3.
 1869. *Darnis lateralis*. Stål, Hem. Fabr. 30, 1.
 1877. *Darnis lateralis* (?). Uhler, Wheeler's Rep.
 Append. J. 1333.
 1878. *Darnis lateralis*. Butler, Cist. Ent. ii, 337, 1.
Hab.—Mojave Desert, Calif. (Uhler). Mex. (Lethierry).

165. D. LINEOLA, Walk.

1858. *Darnis lineola*. Walk. List Hom. B. M. Suppl.
 146.
 1878. *Darnis lineola*. Butler, Cist. Ent. ii, 343. (Sug-
 gests a new genus near *Tomogonia* of Stål.)
Hab.—Mex. (Walker).

XXXIII. HYPHEUS, STÅL.

166. H. TRIPARTITUS, Walk.

1851. *Darnis tripartita*. Walk. List Hom. B. M. 576,
 15.

1878. *Hypheus tripartitus*. Butler, Cist. Ent. ii, 343.
Hab.—Fla. (*Walker*).

167. *H. STUPIDUS*, Walk.

1851. *Darnis stupida*. Walk. List Hom. B. M. 577, 16.

1878. *Hypheus stupidus*. Butler, Cist. Ent. ii, 343.
Hab.—N. A. and Nova Scotia (*Walker*).

XXXIV. *TOMOGONIA*, STÅL.

168. *T. VITTATIPENNIS*, Fairm.

1846. *Smilia vittatipennis*. Fairm. Rev. Memb. 293, 8,
 pl. 5, fig. 3.

1851. *Smilia vittatipennis*. Walk. List Hom. B. M.
 535, 9.

1869. *Tomogonia vittatipennis*, ♂. Stål, Bid. Memb.
 Kän. 258, 1.

Hab.—Guatemala, (*Fairmaire*).

XXXV. *ACONOPHORA*, FAIRM.

169. *A. LAMINATA*, Fairm.

1846. *Aconophora laminata*. Fairm. Rev. Memb. 294, 2.

1851. *Aconophora laminata*. Walk. List Hom. B. M.
 536, 2.

1864. *Aconophora laminata*. Stål, Hem. Mex. 70, 426.

1869. *Aconophora laminata*. Stål, Hem. Fabr. ii, 35.

1878. *Aconophora laminata*. Butler, Cist. Ent. ii,
 347, 2.

Hab.—Mex. (*Fairmaire*).

170. *A. MEXICANA*, Stål.

1864. *Aconophora mexicana*. Stål, Hem. Mex. 70, 427.

1869. *Aconophora mexicana*. Stål, Hem. Fabr. ii, 35, 7.

1878. *Aconophora mexicana*. Butler, Cist. Ent. ii, 347,
 4.

Hab.—Mex. (*Stål*), Guatemala, (*Butler*).

171. *A. GRÆSCENS*, Germ.

1835. *Smilia græscens*. Germ. Silb. Rev. Ent. iii, 238,
 17.

Smilia pugnar. Germ. Silb. Rev. Ent. iii, 239,
 19. (? = *gilvipes* [*vide* Stål].)

1851. *Aconophora interna*. Walk. List Hom. B. M.
 541, 19.

1869. *Aconophora gilvipes*. Stål, Hem. Fabr. ii, 35, 10.

1878. *Aconophora pugnar*. Butler, Cist. Ent. ii, 348,
10.

Aconophora gilvipes. Butler, Cist. Ent. ii, 348,
11.

Aconophora grisescens. Butler, Cist. Ent. ii, 353,
34.

Hab.—Mex. (Butler).

172. *A. MARGINATA*, Walker.

1851. *Aconophora marginata*. Walk. List. Hom. B. M.
540, 16.

1869. *Aconophora gracilicornis*. Stål, Hem. Fabr. ii,
35, 11.

1878. *Aconophora marginata*. Butler, Cist. Ent. ii,
348, 8.

Hab.—Mex. (Stål).

173. *A. PALLESCENS*, Stål.

1869. *Aconophora pallescens*. Stål, Hem. Fabr. ii, 35,
12.

1878. *Aconophora pallescens*. Butler, Cist. Ent. ii, 353,
37.

Hab.—Mex. (Stål).

174. *A. FEMORALIS*, Stål.

1869. *Aconophora femoralis*. Stål, Hem. Fabr. ii, 35,
13.

1878. *Aconophora femoralis*. Butler, Cist. Ent. ii, 351,
27.

Hab.—Mex. (Stål).

175. *A. GLADIATA*, Stål.

1869. *Aconophora gladiata*. Stål, Hem. Fabr. ii, 35, 14.

1878. *Aconophora gladiata*. Butler, Cist. Ent. ii, 351,
26.

Hab.—Vera Cruz, Mex. (Stål).

176. *A. LINEOSA*, Walk.

1858. *Aconophora lineosa*. Walk. List Hom. B. M.
Suppl. 134.

1878. *Aconophora lineosa*. Butler, Cist. Ent. ii, 352,
30.

Hab.—N. A. (Walker).

177. A. LATICORNIS, Walk.
 1858. *Aconophora laticornis*. Walk. List Hom. B. M. Suppl. 134.
 1869. *Aconophora hastata*. Stål, Hem. Fabr. ii, 35, 5.
 1878. *Aconophora laticornis*. Butler, Cist. Ent. ii, 349, 18.
Hab.—Mex. (*Walker*).
178. A. STABILIS, Walk.
 1858. *Aconophora stabilis*. Walk. List Hom. B. M. Suppl. 135.
 1878. *Aconophora stabilis*. Butler, Cist. Ent. ii, 347, 3.
Hab.—Mex. (*Walker*).
179. A. CALIGINOSA, Walk.
 1858. *Aconophora caliginosa*. Walk. List Hom. B. M. Suppl. 135.
 1878. *Aconophora caliginosa*. Butler, Cist. Ent. ii, 349, 19.
Hab.—Guatemala (*Walker*).
180. A. ANOSPERSA, Butler.
 1878. *Aconophora anosparsa*. Butler, Cist. Ent. ii, 348, 9, pl. 7, fig. 14.
Hab.—Mex., Volcano of Orizaba, (*Butler*).
181. A. PRUNITIA, Butler.
 1878. *Aconophora prunitia*. Butler, Cist. Ent. ii, 350, 21, pl. 7, fig. 19.
Hab.—Mex., Oaxaca, (*Butler*).
182. A. CONIFERA, Butler.
 1878. *Aconophora conifera*. Butler, Cist. Ent. ii, 350, 23, pl. 7, fig. 15.
Hab.—Mex. (*Butler*).
183. A. CONCOLOR, Walk.
 1851. *Aconophora concolor*. Walk. List Hom. B. M. 540, 17.
 1869. *Aconophora nigra*. Stål, Hem. Fabr. ii, 35, 5.
 1878. *Aconophora concolor*. Butler, Cist. Ent. ii, 349, 17.
Hab.—Mex. (*Walker*).
184. A. COMPRESSA, Walk.
 1851. *Aconophora compressa*. Walk. List Hom. B. M. 541, 18.

1878. *Aconophora compressa*. Butler, Cist. Ent. ii, 351, 24.
Hab.—Mex. (*Walker*).
185. *A. FLAVIPES*, Germ.
 1835. *Smilia flavipes*. Germ. Rev. Silb. iii, 238, 16.
 1846. *Aconophora flavipes*. Fairm. Rev. Memb. 294, 1.
 1878. *Aconophora flavipes*. Butler, Cist. Ent. ii, 346, 1.
Hab.—Mex. (*Lethierry*).

XXXVI. *HETERONOTUS*, LAP.

186. *H. QUADRINODOSUS*, Fairm.
 1846. *Heteronotus quadrinodosus*. Fairm. Rev. Memb. 499, 1, pl. 5, fig. 27.
 1864. *Heteronotus quinquenodosus*. Stål, Hem. Mex. 70, 425.
Hab.—Mex. (*Fairmaire*).
187. *H. TRINODOSUS*,* Butler.
 1878. *Heteronotus trinodosus*. Butler, Cist. Ent. ii, 357, 2, pl. 7, fig. 8.
Hab.—Mex. (*Butler*).

SUBFAMILY HOPLOPHORINÆ, STÅL.

XXXVII. *PLATYCOTIS*, STÅL.SUBGENUS *Platycotis*, STÅL.

188. *P. SAGITTATA*, Germ.
 1821. *Membracis sagittata*. Germ. Mag. Ent. iv, 19, 15.
 1824. *Membracis belligera*. Say, Journ. Acad. Nat. Sci. Phila. vi, 302, 13.
 1835. *Hoplophora sagittata*. Germ. in Silb. Rev. iii, 241, 2.
 1846. *Hoplophora sagittata*. Fairm. Rev. Memb. 273, 16.
 1851. *Hoplophora sagittata*. Walk. List Hom. B. M. 515, 20.

*M. Lucien Lethierry, in Ann. Soc. Ent. France, October, 1890, page 154, described a new species of *Heteronotus* from Venezuela, as *trinodosus*. As Mr. Butler's name has priority, I will change the name of the Venezuela species to *Lethierryi*.

1851. *Thelia belligera*. Walk. List Hom. B. M. 1143, 45.
1859. *Membracis belligera*. Say, Compl. Writ. ii, 380, 13.
1869. *Platycotis sagittata*. Stål, Hem. Fabr. ii, 37.
Platycotis sagittata. Stål, Bid. Memb. Kän. 263, 1.
1890. *Platycotis sagittata*. Van Duzee, Psyche, v, 389.
Hab.—Penn. and Fla. (Say), Calif. and S. C. (Riley), Ill. (Forbes).
189. P. MINAX, Godg.
 1892. *Platycotis minax*. Godg. Ent. News, iii, 109.
Hab.—Calif. (Riley).
190. P. ASODALIS, Godg.
 1892. *Potnia asodalis*. Godg. Ent. News, iii, 110.
Hab.—Marlo County, Calif. (Riley).
191. P. ACUTANGULA, Stål.
 1869. *Platycotis acutangulus*. Stål, Bid. Memb. Kän. 263, 2.
Hab.—Mex. (Stål).
192. P. QUADRIVITTATA, Say.
 1831. *Membracis quadrivittata*. Say, Journ. Acad. Nat. Sci. Phila. vi, 300, 9.
1835. *Hoplophora 4-lineata*. Germ. in Silb. Rev. 241, 3.
1846. *Hoplophora lineata*. Fairm. Rev. Memb. 270, 4, pl. 6, fig. 12, 13, and 15, nec 14.
Hoplophora 4-lineata. Fairm. Rev. Memb. 273, 17.
1851. *Hoplophora 4-lineata*. Walk. List Hom. B. M. 515, 21.
Aconophora rubrivittata. Walk. List Hom. B. M. 537, 11.
Aconophora porrecta. Walk. List Hom. B. M. 538, 12.
Aconophora viridescens. Walk. List Hom. B. M. 538, 13.
Aconophora guttifer. Walk. List Hom. B. M. 539, 15.

1851. *Hoplophora lineata*. Walk. List Hom. B. M.
511, 4.
Thelia quadricittata. Walk. List Hom. B. M.
1143, 44.
1859. *Membracis quadrivittata*. Say, Compl. Writ. ii,
379, 9.
1869. *Thelia quadrivittata*. Rathvon in Mombert's
Hist. Lancaster Co. Pa. 551.
Platycotis 4-lineata. Stål, Hem. Fabr. ii, 37.
1876. *Hoplophora quadricittata*. Glover, Rep. U. S.
Dept. Agr. 30, fig. 22.
1878. *Thelia quadrivittata*. Glover, MS. Journ. Hom.
pl. 1, fig. 23.
Hoplophora quadrivittata. Glover, MS. Journ.
Hom. pl. 2, fig. 19.
Aconophora quadrivittata. Butler, Cist. Ent. ii,
351, 28.
Aconophora viridescens. Butler, Cist. Ent. ii, 351,
29.
1889. *Platycotis quadrivittata*. Prov. Faune Can. iii,
250.
Platycotis 4-maculata. Prov. Faune Can. iii, 250.
1890. *Platycotis quadrivittata*. Van Duzee, Psyche, v,
389.
Platycotis quadrivittata. Smith, Cat. Ins. N. J.
440.
Hab.—Md. (Say), D. C. and Tex. (Riley), N. J. (Goding),
Fla. (Ashmead), Mex. (Butler), Carolina (Fair-
maire), Can. (Provancher), Penn. (Rathvon).
193. P. NIGROLINEATA, Prov.
1889. *Platycotis nigrolineata*. Prov. Faune Can. iii, 251.
Hab.—Vancouver (Provancher).
194. P. VITTATA, Fabr.
1803. *Centrotus vittatus*. Fabr. Syst. Rhyng. 20, 23.
1804. *Cercopis vittata*. Coq. Ill. Ins. iii, 93, tab. 21,
fig. 5.
1835. *Hoplophora vittata*. Burm. Handb. Ent. ii, 134, 2.
1846. *Hoplophora vittata*. Fairm. Rev. Memb. 271, 5.

1851. *Hoplophora vittata*. Walk. List Hom. B. M. 511, 5.
Hoplophora humilis. Walk. List Hom. B. M.
 514, 18.
1869. *Platycotis vittata*. Stål, Hem. Fabr. 37, 1.
1890. *Platycotis vittata*. Smith, Cat. Ins. N. J. 440.
Hab.—Carolina (*Fabricius*), N. J. (*Smith*).

SUBGENUS *Lophopelta*, STÅL.

195. *P. TUBERCULATA*, Fairm.
 1846. *Hoplophora tuberculata*. Fairm. Rev. Memb.
 237, 18, pl. 6, fig. 9.
1851. *Hoplophora tuberculata*. Walk. List Hom. B. M.
 515, 22.
1869. *Hoplophora tuberculata*. Stål, Hem. Fabr. ii, 37.
Hab.—Calif. (*Fairmaire*).
196. *P. HISTRIONICA*, Stål.
 1864. *Hoplophora histrionica*. Stål, Hem. Mex. 69, 414.
 1869. *Platycotis histrionica*. Stål, Hem. Fabr. ii, 37.
Hab.—Vera Cruz, Mex. (*Stål*), Mex. (*Fairmaire*).

SUBGENUS *Microschema*, STÅL.

197. *P. SPRETA*, n. sp.

Color light yellow, lower edge of prothorax bright red; densely punctured. Head broad, short, densely punctured; eyes prominent, yellow; ocelli nearer to each other than to the eyes, black. Prothorax armed at shoulders with a short blunt horn on each side; base straight, not sinuate, between eyes; median carina very prominent, anterior half black; on each side in front a deep impression containing a prominent tubercle, above and externally two smaller tubercles, the three forming a triangle; on each side of median carina two or three smaller carinæ parallel with it; just above and behind the shoulders a conspicuous depression; lower border rosy red, a pink cloud extending over anterior half; posterior portion depressed, extremity elevated, at base slightly narrowing for a distance, then rapidly attenuated to apex. Thighs yellow, tibiæ and tarsi red; tibiæ with a black spot on the upper third. Tegmina opaque, lightly punctured; veins prominent, reddish yellow; a row of three black dots across center of tegmina,

another dot half-way between this row and the base; two discoidal cells, wings with three apical cells, anal cell large. Length 10 mm.

Described from three specimens. Types in author's collection.

Hab.—Mex. (*Ashmead*).

XXXVIII. HOPLOPHORA, GERM.

198. H. MONOGRAMMA, Germ.

1835. *Hoplophora monogramma*. Germ. in Silb. Rev. iii, 24, 2, 6.

1846. *Hoplophora monogramma*. Fairm. Rev. Memb. 271, 8.

Hoplophora sanguinosa. Fairm. Rev. Memb. 270, 2.

1851. *Hoplophora monogramma*. Walk. List Hom. B. M. 512, 8.

Hoplophora sanguinosa. Walk. List Hom. B. M. 511, 2.

1864. *Hoplophora monogramma*. Stål; Hem. Mex. 69, 413.

1869. *Hoplophora monogramma*. Stål, Bid. Memb. Kän. 264, 6.

Hab.—Mex. (*Fairmaire*).

199. H. GLOVERI, n. sp.

1878. *Hoplophora*, n. sp. Glover, MS. Journ. Hom. pl. 1, fig. 2.

This differs from other species of the genus in its smaller size, and in the presence of a light spot on each side at base of prothorax, and one just before the tip. Length 4.7 mm. to tip of elytra.

Hab.—Unknown.

200. H. CINEREA, Fairm.

1846. *Hoplophora cinerea*. Fairm. Rev. Memb. 272, 13.

1851. *Hoplophora cinerea*. Walk. List Hom. B. M. 513, 13.

1858. *Hoplophora cinerea*. Walk. List Hom. B. M. Suppl. 129.

1864. *Hoplophora cinerea*. Stål, Hem. Mex. 69, 412.

1869. *Hoplophora cinerea*. Stål, Bid. Memb. Kän. 264,
7.

Hab.—Mex. (*Fairmaire*).

201. *H. ORNATA*, Fairm.

1846. *Hoplophora ornata*. Fairm. Rev. Memb. 274, 19.

1851. *Hoplophora ornata*. Walk. List Hom. B. M. 515,
23.

Hab.—Mex. (*Fairmaire*).

XXXIX. *POTNIA*, STÅL.

202. *P. FAIRMAIREI*, Guér.

1846. *Hoplophora granadensis*. Fairm. Rev. Memb.
273, 15.

1857. *Hoplophora fairmairei*. Guér. Hist. Cuba, Ins.
432.

1869. *Hoplophora (Enchotypa) granadensis*. Stål, Hem.
Fabr. ii, 37.

Potnia fairmairei. Stål, Bid. Memb. Kän. 267, 1.
Hab.—Cuba, (*Guérin*).

XL. *UMBONIA*, BURM.

203. *U. CRASSICORNIS*, AM. & SERV.

1843. *Physoplia crassicornis*. Am. & Serv. Hemip.
543, 1, pl. 10, fig. 1.

1846. *Umbonia crassicornis*. Fairm. Rev. Memb. 275,
2.

1851. *Physoplia crassicornis*. Walk. List Hom. B. M.
517, 3.

1864. *Umbonia crassicornis*. Stål, Hem. Mex. 69, 415.

1869. *Umbonia crassicornis*. Stål, Bid. Memb. Kän.
264, 1.

1878. *Physoplia crassicornis*. Glover, MS. Journ. Hom.
pl. 1, fig. 21.

1889. *Umbonia crassicornis*. Prov. Faune Can. iii, 249.
Hab.—Mex. (*Fairmaire*).

204. *U. NIGRATA*, AM. & SERV.

1843. *Physoplia nigrata*. Am. & Serv. Hemip. 543, 2.

1846. *Umbonia nigrata*. Fairm. Rev. Memb. 275, 1,
pl. 4, fig. 6 and 7.
1851. *Physoplia nigrata*. Walk. List Hom. B. M. 516, 1.
Physoplia media. Walk. List Hom. B. M. 516, 2.
1864. *Umbonia nigrata*. Stål, Hem. Mex. 69, 415.
1869. *Umbonia nigrata*. Stål, Bid. Memb. Kän. 264, 2.
1892. *Physoplia nigrata*. Kirby, Element. Text-Book
Ent. 2d ed, 213, 249, pl. 80, fig. 6.
- Hab.*—Fla. (Amyot & Serville), Mex. (Fairmaire)
205. U. OROZIMBO, Fairm.
1846. *Umbonia orozimbo*. Fairm. Rev. Memb. 277, 7,
pl. 6, fig. 2.
1851. *Umbonia orozimbo*. Walk. List Hom. B. M.
519, 7.
1858. *Umbonia picta*, ♀. Walk. List Hom. B. M. Suppl.
130.
Umbonia decorata, ♀. Walk. List Hom. B. M.
Suppl. 130.
Physoplia intermedia, ♂. Walk. Ins. Saund. 66.
1864. *Umbonia orozimbo*. Stål, Hem. Mex. 69, 418.
1869. *Umbonia orozimbo*. Stål, Bid. Memb. Kän. 265, 3.
1889. *Umbonia orozimbo*. Prov. Faune Can. iii, 250.
- Hab.*—Mex. (Fairmaire).
206. U. SPINOSA, Fabr.
1775. *Membracis spinosa*. Fabr. Syst. Ent. 675, 4.
1781. *Membracis spinosa*. Fabr. Spec. Ins. ii, 316, 5.
1787. *Membracis spinosa*. Fabr. Mant. Ins. ii, 263, 11.
1788. *Umbonia spinosa*. Gmel. Ed. Syst. Nat. i, 3,
2094, 66.
Cicada spinosa. Stoll, Cig. 83, pl. 21, fig. 116.
1792. *Membracis spinosa*. Oliv. Enc. Meth. vii, 665, 20.
Membracis armata. Oliv. Enc. Meth. vii, 668, 3.
1794. *Membracis spinosa*. Fabr. Ent. Syst. iv, 11, 12.
1803. *Centrotus spinosus*. Fabr. Syst. Rhyng. 17, 6.
1835. *Hoplophora spinosa*. Germ. in Silb. Rev. iii,
243, 8.
Umbonia spinosa. Burm. Handb. Ent. ii, 138, 1.
Cicada spinosa. Sulz. Hist. Ins. pl. 9, fig. 6.

1843. *Hemiptycha spinosa*. Blanchard, Hemip. 184, 3,
pl. 13, fig. 6.
Umbonia spinosa. Am. & Serv. Hemip. 543, 1,
pl. 10, fig. 2.
1846. *Umbonia spinosa*. Fairm. Rev. Memb. 276, 6.
1851. *Umbonia spinosa*. Walk. List Hom. B. M. 519, 6.
1869. *Umbonia spinosa*. Stål, Hem. Fabr. ii, 37, 1.
Umbonia spinosa. Stål, Bid. Memb. Kän. 265, 7.
Hab.—Mex. (*Ashmead*).
207. U. AMAZILI, Fairm.
1846. *Umbonia amazili*. Fairm. Rev. Memb. 277, 9.
1851. *Umbonia amazili*. Walk. List. Hom. B. M. 519,
9.
Hab.—N. A. (*Fairmaire*).
208. U. RECLINATA, Germ.
1835. *Hoplophora reclinata*. Germ. in Silb. Rev. iii,
243, 9.
1846. *Umbonia reclinata*. Fairm. Rev. Memb. 276, 5,
pl. 6, fig. 3.
1851. *Umbonia reclinata*. Walk. List Hom. B. M. 518,
5.
1854. *Umbonia funestra*. Stål, Nya Hem. 249, 1.
1858. *Umbonia funestra*. Walk. List Hom. B. M.
Suppl. 338.
Umbonia multiformis. Walk. List Hom. B. M.
Suppl. 129.
1864. *Umbonia reclinata*. Stål, Hem. Mex. 69, 417.
1869. *Umbonia reclinata*. Stål, Bid. Memb. Kän. 265,
10.
1889. *Umbonia reclinata*. Prov. Faune Can. iii, 250.
Hab.—Campeachy, Mexico (*Fairmaire*).

XLI. OCHROPEPLA, STÅL.

209. O. PALLENS, Stål.
1869. *Ochropepla pallens*. Stål, Bid. Memb. Kän. 268, 3.
Hab.—Mex. (*Stål*).

SUBFAMILY MEMBRACINÆ, STÅL.

XLII. MEMBRACIS, FABR.

210. *M. 6-MACULATA*, Walk.
1858. *Membracis 6-maculata*. Walk. Ins. Saund. 59.
Hab.—Honduras, (Walker), Mex. (Ashmead).
211. *M. MEXICANA*, Guér.
1838. *Membracis mexicana*. Guér. Icon. Reg. Anim.
364, pl. 59, fig. 1.
1846. *Membracis mexicana*. Fairm. Rev. Memb. 248,
19.
1851. *Membracis mexicana*. Walk. List Hom. B. M.
478, 23.
1864. *Membracis mexicana*. Stål, Hem. Mex. 67, 404.
1889. *Membracis mexicana*. Prov. Faune Can. iii, 228.
Hab.—Mex. (Fairmaire), Honduras (Walker), Costa
Rica (Lethierry).
212. *M. STOLIDA*, Fairm.
1846. *Membracis stolida*. Fairm. Rev. Memb. 248, 20.
1851. *Membracis stolida*. Walk. List Hom. B. M. 478,
24.
Hab.—Mex. (Fairmaire).
213. *M. NIGRA* ? Stoll.
1788. *Cicada nigra*. Stoll, Cig. 68, pl. 17, fig. 92.
1792. *Membracis nigra*. Oliv. Enc. Meth. 668, 4.
1803. *Membracis compressa*. Fabr. Syst. Rhyng. 9,
14.
1835. *Membracis compressa*. Germ. in Silb. Rev. iii,
225, 8.
1846. *Membracis nigra*. Fairm. Rev. Memb. 247, 13.
1851. *Membracis nigra*. Walk. List Hom. B. M. 477,
17.
Hab.—West. States (Riley).

XLIII. ENCHENOPA, AM. & SERV.

214. *E. IGNIDORSUM*, Walk.
1858. *Enchenopa ignidorsum*. Walk. List Hom. B. M.
Suppl. 124.

1864. *Membracis sellata*. Stål, Hem. Mex. 67, 406.
1869. *Euchenopa ignidorsum*. Stål, Bid. Memb. Kän. 272, 10.
Hab.—Mex. (Walker).
215. *E. APICALIS*, Stål.
1864. *Euchenopa apicalis*. Stål, Hem. Mex. 68, 408.
Hab.—Mex. (Stål).
216. *E. BINOTATA*, Say.
1824. *Membracis binotata*. Say, Narr. Long's Exped. Append. 301, 4.
1835. *Membracis binotata*. Germ. in Silb. Rev. iii, 226, 10.
1841. *Membracis binotata*. Harr. Rep. Ins. Mass. 181.
1846. *Membracis binotata*. Fairm. Rev. Memb. 251, 29.
1851. *Enchophyllum binotatum*. Fitch, Cat. Hom. N. Y. 47, 641.
Euchenopa binotata. Walk. List Hom. B. M. 481, 2.
1854. *Enchophyllum binotatum*. Emmons, Agr. N. Y. v, pl. 13, fig. 17.
Thelia binotata. Emmons, Agr. N. Y. v, 156.
1856. *Euchenopa binotata*. Fitch, 3d Rep. Ins. N. Y. in Trans. Agr. Soc. 146, 90; and 464.
1859. *Membracis binotata*. Say, Compl. Writ. ii, 201, 4.
1862. *Membracis binotata*. Harris, Treatise, 221, 224.
Membracis binotata. Uhler in Harr. Treatise, 221.
1868. *Enchophyllum binotatum*. Walsh. & Riley, Am. Ent. i, 248.
1869. *Euchenopa birittata* [?]. Rathvon, in Mombert's Hist. Lancaster Co. Pa. 551.
Euchenopa binotata. Stål, Bid. Memb. Kän. 272, 11.
1876. *Euchenopa binotata*. Glover, MS. Journ. Hom. pl. 1, fig. 22.
1878. *Euchenopa binotata*. Glover, Rep. U. S. Dept. Agr. 28, fig. 11.
1880. *Euchenopa binotata*. Riley, Am. Ent. iii, 254.

1881. *Enchophyllum binotatum*. Riley, Am. Nat. xv, 574.
1882. *Enchenopa binotata*. Lintner, 1st Rep. Ins. N.Y. 281, 283.
1883. *Enchenopa binotata*. Saunders, Ins. Inj. to Fruits, 242, 129.
1885. *Enchenopa binotata*. Dimmock (Mrs.), Psyche, iv, 241.
1888. *Enchenopa binotata*. Comstock, Introd. Ent. 172, fig. 142.
1889. *Enchenopa binotata*. Van Duzee, Can. Ent. xxi, 6.
Enchenopa binotata. Provancher, Faune Can. iii, 229.
1890. *Enchenopa binotata*. Van Duzee, Psyche, v, 389.
Enchenopa binotata. Packard, Ins. Inj. Forest and Shade Trees, 341, 10, and 512, 95.
Enchenopa binotata. Smith, Cat. Ins. N. J. 440.
Hab.—Mo., Tex., Penn., Mich., and N. Y. (Riley); Illinois (Goding); Ia. (Osborn); N. J. (Smith); Mass. (Harris); Md. (Glover); Can. (Van Duzee).
217. E. BREVIS, Walk.
 1851. *Enchenopa brevis*. Walk. List Hom. B. M. 492, 39.
Hab.—Illinois (Goding).
218. E. SERICEA, Walk.
 1851. *Enchenopa sericea*. Walk. List Hom. B. M. 493, 41.
Hab.—Mexico (Champion).
219. E. CURVICORNIS, Walk.
 1858. *Enchenopa curvicornis*. Walk. Ins. Saund. 62.
 1869. *Enchenopa curvicornis*. Stål, Bid. Memb. Kän. 272, 12.
Hab.—Vera Cruz (Walker).
220. E. BIFUSIFERA, Walk.
 1858. *Enchenopa bifusifera*. Walk. List Hom. B. M. Suppl. 125.
 1869. *Enchenopa bifusifera*. Stål, Bid. Memb. Kän. 273, 13.
Hab.—Vera Cruz (Walker).

221. *E. MALALEUCA*, Walk.
 1858. *Enchenopa malaleuca*. Walk. Ins. Saund. 59.
Hab.—Mex. (*Walker*).

XLIV. *CAMPYLENCHIA*, STÅL.

222. *C. MINANS*, Fairm.
 1846. *Membracis minans*. Fairm. Rev. Memb. 252, 35,
 pl. 4, fig. 32.
 1851. *Enchenopa minans*. Walk. List. Hom. B. M.
 482, 8.
 1864. *Membracis minans*. Stål, Hem. Mex. 67, 405.
Hab.—Mex. (*Fairmaire*).
223. *C. CURVATA*, Fabr.
 1803. *Membracis curvata*. Fabr. Syst. Rhyng. 13, 34.
 1824. *Membracis latipes*. Say, Narr. Long's Exp. Ap-
 pend. 302, 5.
 1846. *Membracis latipes*. Fairm. Rev. Memb. 252, 32.
 1851. *Enchenopa antonina*, ♂. Walk. List Hom. B. M.
 488, 32.
Enchenopa renosa, ♂. Walk. List Hom. B. M.
 488, 33.
Enchenopa densa, ♂. Walk. List Hom. B. M.
 490, 35.
Enchenopa frigida, ♀. Walk. List Hom. B. M.
 490, 36.
Enchenopa bimaculata, ♂. Walk. List Hom. B.
 M. 491, 37.
Enchenopa latipes. Walk. List Hom. B. M.
 482, 5.
Aconophora curvata. Walk. List Hom. B. M.
 537, 10.
Enchophyllum latipes, ♀. Fitch, Cat. Hom. N. Y.
 47, 644.
 1858. *Enchenopa frigida*, var. Walk. List Hom. B. M.
 Suppl. 126.
 1859. *Membracis latipes*. Say, Compl. Writ. i, 202, 5.
 1869. *Campylenchia curvata*. Stål, Hem. Fabr. ii, 43, 3.

1876. *Euchenopa currata*. Uhler, List Hem. W. Miss. R. 343.
1877. *Euchenopa currata*. Uhler, Rep. Ins. Coll. 1875, 457.
Campylenchia currata. Uhler, Wheeler's Rep. Append. J. 1333.
1888. *Euchenopa currata*. Comstock, Introd. Ent. 172.
1890. *Campylenchia currata*. Van Duzee, Psyche, v, 389.
Euchenopa currata. Smith, Cat. Ins. N. J. 440.
Hab.—Tex., Vt., Mont., Ia., Wyom., Col., N. C., Mo., and Calif. (*Riley*); Ill. (*Goding*); N. Y. (*Fitch*); N. J. (*Smith*); N. Mex. (*Uhler*).

XLV. ENCHOPHYLLUM, AM. & SERV.

SUBGENUS *Tropidocera*, STÅL.

224. *E. RILEYI*, Godg.
 1893. *Enchophyllum rileyi*. Godg. Can. Ent. xxv, 56, 7.
Hab.—St. Vincent Island, W. I. (*Goding*).
225. *E. TRIMACULATUM*, Stål.
 1864. *Enchophyllum trimaculatum*. Stål, Hem. Mex. 68, 407.
 1869. *Enchophyllum trimaculatum*. Stål, Memb. Kän. 271.
Hab.—Mex. (*Stål*).

SUBGENUS *Phyllotropis*, STÅL.

226. *E. FASCIATUM*, Fabr.
 1767. *Membracis fasciata*. Gmel. Ed. Syst. Nat. ii, 2092, 54.
 1787. *Membracis fasciata*. Fabr. Mant. Ins. ii, 262, 6.
 1794. *Membracis fasciata*. Fabr. Ent. Syst. iv, 9, 6.
Membracis fasciata. Oliv. Enc. Meth. vii, 662, 5.
 1803. *Membracis fasciata*. Fabr. Syst. Rhynch. 9, 16.
 1835. *Membracis fasciata*. Germ. in Silb. Rev. iii, 225, 6.
 1843. *Membracis cucullata*, Am. & Serv. Hemip. 534, pl. 9, fig. 2.

1846. *Membracis fasciata*. Fairm. Rev. Memb. 245, 8.
 1851. *Membracis fasciata*. Walk. List Hom. B. M.
 476, 12.
 1869. *Enchophyllum fasciatum*. Stål, Hem. Fabr. ii,
 41.

Hab.—N. A. (*Van Duzee*).

XLVI. *ÆCHMOPHORA*, STÅL.

227. *A. FERRUGINOSA*, n. sp.

Color, in dried specimens, ferruginous; strongly compressed, but not elevated; the median longitudinal carina percurrent, the lateral carinæ, starting from the humeral angles, arch upon the back, and extend along lower border to apex, which is very long and slender and reaches apex of tegmina. Anterior prothoracic process projects forward and a little upward, seen from above slightly swollen just behind middle, apex suddenly swollen into a knob. The median carina extends along under side of anterior process. Tegmina ferruginous, basal part subcoriaceous, apex subtransparent; strongly punctured throughout. Behind the head, in front of humeral angles, a broad and deep fossa, which extends upwards, then backwards, and disappears; the color of this is much darker. Feet ferruginous. Length 5 mm.; with anterior horn 9 mm.

Described from two specimens received from Mr. E. P. Van Duzee. Types in author's collection.

This species may be found in collections labeled *Enchenopa gracilis*, but it belongs to Stål's genus as above, and has not been described

Hab.—Arizona (*Van Duzee*).

228. *A. CALIFORNENSIS*, n. sp.

Pale ferruginous, differing from *ferruginosa* in being mottled posteriorly with yellow, and in the following particulars: lightly tuberculate; form more robust; anterior horn more elevated and shorter; a slight sinus at posterior base of anterior process. Tegmina entirely coriaceous and concolorous with rest of body. Length 5 mm.; with anterior horn 7 mm.

Hab.—Calif. (*Riley*).

Described from two examples received from Dr. Riley. Types in author's collection.

XLVII. SPHONGOPHORUS, FAIRM.

SUBGENUS *Cladonota*, STÅL.229. *S. LATIFRONS*, Stål.

1869. *Sphongophorus latifrons*. Stål, Bid. Memb. Kän.
274, 4.

Hab.—Mex. (*Stål*)

230. *S. ALBOFASCIATUS*, Goding.

1893. *Sphongophorus albofasciata*. Godg. Can. Ent.
xxv, 54, 5.

Hab.—St. Vincent Island, W. I. (*Goding*).

SUBGENUS *Sphongophorus*, FAIRM.231. *S. CLAVIGERUS*, Stål.

1864. *Sphongophorus claviger*. Stål, Hem. Mex. 68,
411.

Hab.—Mex. (*Stål*).

232. *S. BALLISTA*, Germ.

1835. *Hypsauchenia ballista*. Germ. in Rev. Silb. iii,
231, 1.

1841. *Hypsauchenia ballista*. Am. & Serv. Hemip. 535,
pl. 9, fig. 5.

1846. *Sphongophorus ballista*. Fairm. Rev. Memb.
261, 1.

1851. *Sphongophorus ballista*. Walk. List Hom. B. M.
497, 1.

1858. *Sphongophorus ballista*. Walk. List Hom. B. M.
Suppl. 127.

Hab.—Mex. and Ga. (*Fairmaire*); Costa Rica. (*Lethierry*).

SUBGENUS *Lobocladisca*, STÅL.233. *S. VEXILLIFERUS*, Goding.

1893. *Sphongophorus vexillifera*. Godg. Can. Ent. xxv,
53, 4.

Hab.—St. Vincent Island, W. I. (*Goding*).

XLVIII. PTERYGIA, LAP.

234. P. TRITUBERCULATA, Stål.

1869. *Pterygia trituberculata*. Stål, Bid. Memb. Kän. 278, 5.

Hab.—Mex. (*Stal*).

XLIX. TROPIDOSCYTA, STÅL.

235. T. PALLIDIPENNIS, ♂, Stål.

1869. *Tropidoscyta pallidipennis*. Stål, Hem. Fabr. ii, 46, 3.

Hab.—Mex. (*Stal*).

236. T. FERRUGINIPENNIS, n. sp.

♂ ♀. Head a trifle shorter than wide, with scattering hairs, apex obtusely rounded, ocelli above a line passing through eyes, situated near base of prothorax, a trifle nearer the eyes than to each other; antennæ black, longer than usual. Prothorax slender, elevated in front, convex, not foliaceous, highest point formed above head in an obtuse angle, furnished with a lightly elevated median carina; on each side a carina starting at middle of inferior borders passes obliquely upward and forward, the two meeting at the superior angle in front; posterior process unisinate above, destitute of a tubercle, but not quite straight; color fusco-ferruginous, excepting a transverse band just before apex and a spot on middle of back, which are much paler or nearly white, tip of apex dark brown; in the male a nearly black spot before the white band. Tegmina with basal portion of clavus and corium ferruginous, middle portion with small brown spots, terminal cells subhyaline, exterior edge a trifle cloudy; two discoidal cells separated by second basal cell, third apical cell elongate, clavus not narrowed toward apex; wings with four apical cells, first long oval, second sessile with truncated base. Abdomen and chest dark brown; front and middle tibiæ broadly dilated, hind pair lightly dilated, yellow; femora and tips of tarsi dark brown. Length ♂, 5 mm.; ♀, 6 mm.

Described from one male and one female. Types in National Collection and that of the author.

Hab.—Los Angeles Co., Calif. (*Riley*).

This species is near *pallidipennis*, Stål, but is larger, and has the tegmina ferruginous.

237. *T. CORNUTULA*, ♀, Stål.

1869. *Tropidoscyta cornutula*. Stål, Hem. Fabr. ii, 46, 4.

Hab.—Mex. (*Stål*).

238. *T. GIBBERA*, ♀, Stål.

1869. *Tropidoscyta gibbera*. Stål, Hem. Fabr. ii, 46, 8.

Hab.—Tex. (*Stål*).

239. *T. AMERICANA*, n. sp. *

Black, more or less speckled with white. Head nearly quadrangular, punctured, with linear impressions, strongly recurved. Prothorax black, with one prominent percurrent carina, on each side of which is a curved carina starting some distance behind origin of median carina, and extending posteriorly half-way to apex; anterior part of prothorax somewhat elevated, advanced, truncate superiorly, at middle deeply notched. Behind this notch a prominent tubercle; apex acuminate, almost ferruginous. Tegmina blackish brown, spotted across middle with white; exterior angle and apex ferruginous-brown; a white patch in front of this; posterior border white, with many ferruginous dots at the base of costal area, first basal cell and clavus coriaceous. Legs black, tarsi light ferruginous. Length, 4.8 mm.

Described from two specimens. Types in author's collection and that of E. P. Van Duzee.

Hab.—Arizona (*Goding*).

L. BOLBONOTA, AM. & SERV.

SUBGENUS *Bolbonota*, STÅL.

240. *B. PICTIPENNIS*, Fairm.

1846. *Bolbonota pictipennis*. Fairm. Rev. Mem. 258, 3.

1851. *Bolbonota pictipennis*. Walk. List Hom. B. M. 495, 3.

1864. *Bolbonota pictipennis*. Stål, Hem. Mex. 68, 409.

Hab.—Mex. (*Stål*).

* This species may be found in some collections under the MS. name "*carinata*."

SUBGENUS *Tubercunota*, GODG.

241. *B. BISPINIFERA*, Godg.
1893. *Bolbonota bispinifera*. Godg. Can. Ent. xxv, 55, 6.
Hab.—St. Vincent Island, W. I. (*Goding*).
242. *B. TUBERCULATA*, Fabr.
1801. *Centrotus tuberculatus*. Coq. Ill. Ins. 78, tab. 18,
fig. 8.
1803. *Centrotus tuberculatus*. Fabr. Syst. Rhyng. 22,
32.
1835. *Membracis tuberculata*. Burm. Handb. Ent. ii,
135, 1.
1846. *Bolbonota tuberculata*. Fairm. Rev. Memb.
260, 9.
1851. *Bolbonota tuberculata*. Walk. List Hom. B. M.
496, 9.
1869. *Bolbonota tuberculata*. Stål, Hem. Fabr. ii, 46.
Hab.—Fla. and Mex. (*Riley*).

SUBFAMILY CENTROTINÆ, STÅL.

LI. *MONOBELUS*, STÅL.

243. *M. FASCIATUS*, Fabr.
1798. *Membracis fasciata*. Fabr. Ent. Syst. Suppl.
515, 33.
1799. *Centrotus fasciatus*. Coq. Ill. Ins. i, 35, tab. 9,
fig. 5.
1803. *Centrotus 2-guttatus*. Fabr. Syst. Rhyng. 21, 27.
Centrotus fasciatus. Fabr. Syst. Rhyng. 22, 30.
1846. *Centrotus fasciatus*. Fairm. Rev. Memb. 519, 33.
1851. *Centrotus fasciatus*. Walk. List Hom. B. M.
629, 71.
1866. *Monobelus fasciatus*. Stål, Analecta Hem. 386.
1869. *Monobelus fasciatus*, ♂. Stål, Hem. Fabr. ii,
47, 1.
Monebelus fasciatus. Stål, Hem. Fabr. ii,
50, 1.

1893. *Monobelus fasciatus*. Godg. Can. Ent. xxv, 53, 1.
Hab.—West Ind. (*Fairmaire*), St. Vincent Island, W. I.
 (*Godling*).

244. *M. NASUTUS*, Stål.

1869. *Monobelus nasutus*. Stål, Hem. Fabr. ii, 50, 2.
Hab.—Gaudaloupe (*Stål*).

245. *M. LATERALIS*, Stål.

1869. *Monobelus lateralis*, ♀. Stål, Hem. Fabr. ii, 50, 5.
Hab.—Cuba (*Stål*).

246. *M. FLAVIDUS*, Fairm.

1846. *Centrotus flavidus*. Fairm. Rev. Memb. 519, 34.

1851. *Centrotus flavidus*. Walk. List Hom. B. M. 629,
 72.

1869. *Monobelus flavidus*. Stål, Hem. Fabr. ii, 50, 4.
Hab.—Cuba (*Fairmaire*).

LII. DELAUNEYA, LETH.

247. *D. FASCIATA*, Leth.

1881. *Delauneya fasciata*. Leth. Ann. Ent. Belg.
 xxv, 17.

Hab.—Gaudaloupe (*Lethierry*).

LIII. CENTRUCHUS, STÅL.

248. *C. LIEBECKI*, n. sp. *

Yellow-ferruginous, silky white between lateral horns; behind horns a spot on costal margin, near base of tegmina. Head black, broad, eyes very prominent, base convex, griseous, lower part of face strongly declivous; four roughened carinae pass along face from base downward, the ocelli being in the two internal ones, the outer ones being contiguous to the eyes; part of face below eyes triangular, apex yellow. Ocelli equidistant from each other and the eyes. Prothorax convex, lateral angles slightly produced, a prominent median carina extending from base to apex nearly black. Above the lateral angles, on each side, is a long horn or protuberance, flattened laterally, slightly curving upward, outward, and forward, the

* This species is named after Mr. Chas. Liebeck, who has supplied me with many interesting specimens in this and other sub-families.

apex truncated; width of base and apex equal. Apex of scutellum bidentate, the teeth ivory-white; posterior margin of prothorax with a very slender tooth or style, extending backward on each side of posterior process of prothorax, a little distant from it. The entire surface of the prothorax densely and regularly punctured. Apex of tegmina far surpassing tip of abdomen; a black spot on the internal margin a short distance from the apex; another black spot on the costa, about one third the distance from the base. Tarsi black; legs mottled with ferruginous and grayish yellow; tibiae triquetrous. Tegmina lightly ferruginous and opaque. Length to apex of tegmina, 8.5 mm.; width at lateral angles, 3.2 mm.

Described from two specimens. Type in author's collection.

Hab.—Near Philadelphia (*Liebeck*).

LIV. CAMPYLOCENTRUS, STÅL.

249. *C. OBSCURIPENNIS*, Stål.

1869. *Campylocentrus obscuripennis*. Stål, Bid. Memb. Kän. 289, 1.

Hab.—Mex. (*Stål*).

250. *C. HAMIFER*, Fairm.

1846. *Centrotus hamifer*. Fairm. Rev. Memb. 512, 10.

1851. *Centrotus hamifer*. Walk. List Hom. B. M. 603, 10.

1858. *Centrotus hamifer*. Walk. List Hom. B. M. Suppl. 159.

Centrotus niveiplaga. Walk. List Hom. B. M. Suppl. 160.

1864. *Centrotus hamifer*. Stål, Hem. Mex. 73, 447.

1866. *Campylocentrus hamifer*. Stål, Hem. Africana, iv, 89.

Centrotus hamifer. Stål, Analecta Hem. 386, 2.

1869. *Campylocentrus hamifer*. Stål, Bid. Memb. Kän. 289.

Hab.—Mex. (*Fairmaire*), Guatemala (*Walker*).

251. *C. CURVIDENS*, Fairm.

1846. *Centrotus curvidens*. Fairm. Rev. Memb. 515, 18.

1851. *Centrotus curvidens*. Walk. List Hom. B. M.
610, 28.

1858. *Centrotus curvidens*. Walk. List Hom. B. M.
Suppl. 159.

1864. *Centrotus curvidens*. Stål, Hem. Mex. 73, 448.

1869. *Campylocentrus curvidens*. Stål, Bid. Memb.
Kän. 289.

Hab.—Mex. (*Fairmaire*).

252. *C. SUBSPINOSUS*, Fairm.

1846. *Centrotus subspinosus*. Fairm. Rev. Memb. 519,
31.

1851. *Centrotus subspinosus*. Walk. List Hom. B. M.
628, 69.

1869. *Campylocentrus subspinosus*. Stål, Bid. Memb.
Kän. 289.

Hab.—Mex. (*Fairmaire*).

LV. BOÖCERUS, STÅL.

253. *B. GILVIPES*, Stål.

1869. *Boöcerus gilvipes*. Stål, Bid. Memb. Kän. 290, 1.
Hab.—Mex. (*Stål*).

LVI. PLATYCENTRUS, STÅL.

254. *P. ACUTICORNIS*, Stål.

1869. *Platycentrus acuticornis*. Stål, Bid. Memb. Kän.
291, 1.

1893. *Platycentrus acuticornis*. Riley, Rep. Ins. Coll.
Death Valley Expedition, in N. A. Fauna,
No. 7, 250.

Hab.—Mex. (*Stål*), San Bernardino Co. Calif. (*God-
ing*).

255. *P. OBTUSICORNIS*, Stål.

1869. *Platycentrus obtusicornis*. Stål, Bid. Memb.
Kän. 291, 2.

Hab.—Mex. (*Stål*).

LVII. BRACHYBELUS, STÅL.

256. *B. CRURALIS*, Stål.

1869. *Brachybelus cruralis*. Stål, Bid. Memb. Kän.
292, 1.

Hab.—Vera Cruz, Mex. (*Stål*).

LVIII. NESSORHINUS, AM. & SERV.

257. N. VULPES, Am. & Serv.
 1843. *Nessorhinus vulpes*. Am. & Serv. Hemip. 542,
 pl. 12, fig. 11.
 1846. *Nessorhinus vulpes*. Fairm. Rev. Memb. 296, 1.
 1851. *Nessorhinus vulpes*. Walk. List Hom. B. M.
 542, 1.
 1858. *Nessorhinus vulpes*. Walk. List Hom. B. M.
 Suppl. 136.
 1869. *Nessorhinus vulpes*. Stål, Bid. Memb. Kän. 294.
Hab.—Haiti, St. Domingo, and Campeachy (*Amyot &*
Serville).
258. N. GIBBERULUS, Stål.
 1869. *Nessorhinus gibberulus*. Stål, Bid. Mem. Kän.
 294, 1.
Hab.—Porto Rico (*Stål*).

LIX. GONIOLOMUS, STÅL.

259. G. TRICORNIGER, Stål.
 1869. *Goniolomus tricorniger*. Stål, Bid. Memb. Kän.
 294, 1.
Hab.—Cuba (*Stål*).

LX. CENTRODONTUS, GODING.

260. C. ATLAS, Goding.
 1892. *Gargara atlas*. Godg. Ent. News, iii, 110.
Centrodontus atlas. Godg. Ent. News, iii, 201;
 Insect Life, v, 92.
 1893. *Centrod [ont] us atlas*. Riley, Rep. Ins. Coll.
 Death Valley Expedition, in N. Am. Fauna,
 No. 7, 250.
Hab.—Death Valley (Inyo Co.), Calif. (*Koebele*); Kern
 Co., Calif. (*Van Duzee*); N. Mex. (*Townsend*).

LXI. MICROCENTRUS, STÅL.

261. M. CARYÆ, Fitch.
 1851. *Uroxiphus caryæ*. Fitch, Cat. Hom. N. Y. 52,
 700.

1851. *Centrotus carya*. Walk. List Hom. B. M. 1147, 76.
 1856. *Uroxiphus carya*. Fitch, 3d Rep. Ins. N. Y., in Trans. Agr. Soc. 450, 174.
 1869. *Microcentrus carya*. Stål, Bid. Memb. Kån. 295.
Uroxiphus carya. Rathvon, in Mombert's Hist. Lancaster Co., Pa., 551.
 1890. *Microcentrus carya*. Smith, Cat. Ins. N. J. 440.
Microcentrus carya. Van Duzee, Psyche, v, 391.
Uroxiphus carya. Packard, Ins. Inj. to Forest and Shade Trees, 324, 112.
 1892. *Microcentrus carya*. Godg., Insect Life, v, 92.
Hab.—N. Y. (Fitch). West. States (Riley), Penn. (Rathvon), N. J. (Smith).

LXII. ORTHOBELUS, STÅL.

262. O. HAVANENSIS, Fairm.
 1846. *Centrotus havanensis*. Fairm. Rev. Memb. 516, 22.
 1851. *Centrotus havanensis*. Walk. List Hom. B. M. 611, 32.
 1869. *Orthobelus havanensis*. Stål, Hem. Fabr. ii, 48.
Hab.—Cuba (Fairmaire).
 263. O. URUS, Fairm.
 1846. *Centrotus urus*. Fairm. Rev. Memb. 516, 23, pl. 3, fig. 6.
 1851. *Centrotus urus*. Walk. List Hom. B. M. 611, 33.
Centrotus megaceros, ♀. Walk. List Hom. B. M. 615, 45.
 1866. *Centrotus urus*. Stål, Analecta Hem. 386, 3.
 1869. *Orthobelus urus*. Stål, Hem. Fabr. ii, 48.
Hab.—St. Domingo (Fairmaire).

LXIII. CENTROTUS*, FABR.

264. C. PUSILLUS, Fairm.
 1846. *Centrotus pusillus*. Fairm. Rev. Memb. 512, 11.

*The species under this genus name are included in *Centrotus* because they are recorded under that name by the original describers. It is extremely doubtful if a true *Centrotus* is to be found within our limits.

1851. *Centrotus pusillus*. Walk. List Hom. B. M. 603,
11.
Hab.—Mex. (*Fairmaire*).
265. [?] *C. ACANTHASPIS*, Fairm.
1846. *Centrotus acanthaspis*. Fairm. Rev. Memb. 515,
19.
1851. *Centrotus acanthaspis*. Walk. List Hom. B. M.
611, 29.
Hab.—Port Jackson (*Fairmaire*).
266. *C. POEYI*, Fairm.
1846. *Centrotus poeyi*. Fairm. Rev. Memb. 518, 29.
1851. *Centrotus poeyi*. Walk. List Hom. B. M. 612,
39.
Hab.—Cuba (*Fairmaire*).
267. *C. SERRICORNIS*, Walk.
1858. *Centrotus serricorne*. Walk. Ins. Saund. 77.
Hab.—Haiti (*Walker*).
268. *C. OPPUGNANS*, Walk.
1858. *Centrotus oppugnans*. Walk. List Hom. B. M.
Suppl. 160.
Hab.—Mex. (*Walker*).
269. *C. AURIFASCIA*, Walk.
1851. *Centrotus aurifascia*. Walk. List Hom. B. M.
618, 49.
Hab.—Jamaica (*Walker*).
270. *C. PLATYCERUS*, Walk.
1851. *Centrotus platycerus*. Walk. List Hom. B. M.
618, 50.
Hab.—Jamaica (*Walker*).
271. *C. CRIBRATUS*, Walk.
1851. *Centrotus cribratus*. Walk. List Hom. B. M.
619, 51.
Hab.—Jamaica (*Walker*).
272. *C. JUCUNDUS*, Walk.
1851. *Centrotus jucundus*. Walk. List Hom. B. M.
620, 52.
Hab.—Jamaica (*Walker*).

LXIV. CALLICENTRUS, STÅL.

273. C. IGNIPES, Walk.
1851. *Centrotus ignipes*. Walk. List Hom. B. M. 616, 47.
Hab.—Jamaica (Walker).
274. C. FLAVIVITTA, Walk.
1851. *Centrotus flavivitta*. Walk. List Hom. B. M. 617, 48.
Hab.—Jamaica (Walker).

LXV. LEPTOCENTRUS, STÅL.

275. L. TAURUS,* Fabr.
1767. *Cicada taurus*. Gmel. Ed. Syst. Nat. iv, 14, 24.
1775. *Membracis taurus*. Fabr. Syst. Ent. 676, 9.
1781. *Membracis taurus*. Fabr. Spec. Ins. ii, 317, 10.
1787. *Membracis taurus*. Fabr. Mant. Ins. ii, 264, 20.
1794. *Membracis taurus*. Fabr. Ent. Syst. iv, 14, 24.
Membracis taurus. Oliv. Enc. Meth. vii, 665, 23.
1798. *Membracis rupicapra*. Fabr. Ent. Syst. Suppl. 514, 13, 14.
1803. *Centrotus rupicapra*. Fabr. Syst. Rhyng. 18, 7.
Centrotus taurus. Fabr. Syst. Rhyng. 20, 19.
1846. *Centrotus taurus*. Fairm. Rev. Memb. 510, 4.
1851. *Centrotus taurus*. Walk. List Hom. B. M. 602, 4.
1866. *Leptocentrus taurus*. Stål, Hem. Afr. iv, 90.
1869. *Leptocentrus taurus*. Stål, Hem. Fabr. ii, 50, 1.
Hab.—Mex. (Goding).

* One of the species sent to me for study from the Biol. Cent.-Am. Collection is an example of this.

ADDENDA AND ERRATA.

To complete the list of species recognized by Stål as belonging to this family, the following are appended, not from the belief that they belong here, but because there should be no hasty change made in the classification of the Homoptera until they have been more carefully studied.*

SUBFAMILY CENTROTINÆ, STÅL.

LXVI. TOLANIA, STÅL.

276. *T. OPPONENS*, Walk.

1858. *Centrotus opponens*. Walk. List Hom. B. M. Suppl. 159.

1862. *Tolania opponens*. Stål. Öf. Vet.-Akad. Förh. 491.

Hab.—Mex. (Walker).

LXVII. † ÆTHALION, LATR.

277. *A. GRATUS*, Walk.

1858. *Æthalion gratum*. Walk. List Hom. B. M. Suppl. 169.

1864. *Æthalion dilatatum*. Stål, Hem. Mex. 73, 450.

1869. *Æthalion gratus*. Stål, Bid. Memb. Kän. 299, 14.

Hab.—Mex. (Walker).

278. *A. NERVOSO-PUNCTATUS*, Sign.

1851. *Æthalion nervoso-punctatum*. Sign. Ann. Ent. Soc. France, Sér. 2, ix, 679, 14, pl. 14, fig. 10.

1858. *Æthalion nervoso-punctatum*. Walk. List Hom. B. M. Suppl. 168.

1869. *Æthalion nervoso-punctatus*. Stål. Bid. Memb. Kän. 299, 12.

Hab.—Mex. (Walker).

*None of the species mentioned here have a prolongation of the prothorax backward, and they rightfully belong with the Jassidæ.

† There are 68 instead of 67 genera represented in this catalogue, and 282 species instead of 278, XIV., 41, 42, 43, and 44 being duplicated.

The following additional localities have been obtained since this catalogue was put in the printer's hands:

For numbers 7, 8, 140, 177, 203, 204, 205, 206, 211, and *Aconophora lanceolata*, Fairm., Guatemala (*Henshaw*); 14, 27, and 142, Me. and Mass. (*Henshaw*); 15, Ia. (*Osborn*), N. Y. (*Van Duzee*); 19, Mich. (*Cook*), Pa. (*Rathvon*), Me. (*Henshaw*); 21, N. Y. (*Lintner*); 14, 19, 22, 27, 28, 41, 53, 65, 71, 76, 85, 96, 107, 131, 216, 223, 261, Neb. (*Barber*); 28, Mich. (*Cook*), Me., Fla., Tex., Calif., and B. C. (*Henshaw*); 34, 44, 66, 91, 116, 122, 132, and 145, Mich. (*Cook*); 41, B. C. (*Henshaw*), Nev. (*Hillman*); 43, Miss. (*Weed*), Mich. (*Cook*); 46, Mass. (*Henshaw*), Mich. (*Cook*); 52, Mich. (*Cook*), Ia. (*Osborn*), Va. and Md. (*Henshaw*); 55, Mich. (*Cook*), Pa. (*Rathvon*), Ia. ? (*Osborn*), Me. (*Henshaw*); 57, Ill. (*Goding*); 65, 68, 75 (recorded as *jugata* Uhler, which is a MS. name), 131, and 261, Ia. (*Osborn*); 67, Mich. (*Cook*), Mass. and Me. (*Henshaw*); 72, Mass. (*Henshaw*); 73, 83, and 85, Ia. ? (*Osborn*); 86, Mass. and Pa. (*Henshaw*); 95, Pa. (*Rathvon*); 97, and 119, Ia. (*Osborn*), Mich. (*Cook*); 114, Mich. (*Cook*), Tex. (*Henshaw*); 121, Pa. (*Henshaw*); 136, and 192, Va. (*Henshaw*); 137, N. Mex. (*Townsend*), Col. (*Gillette*); 138, Col. (*Goding*); 188, Va., Tex., and Vict. (*Henshaw*); 194, Mass., Tex., Calif., Vict. (*Henshaw*); 198, Cent. Am. (*Henshaw*); 217, Me. (*Henshaw*); 223, Mich. (*Cook*), Anticosti, Mass., Pa., Md., Va., D. C., Oregon, and Wash. (*Henshaw*); 248, Tex. (*Henshaw*).

Page 391, line 19, for *Entomolgique* read *Entomologique*.

Page 393, for No. 5 substitute as follows: *

P. DISPAR, Fabr.

1803. *Darnis dispar*. Fabr. Syst. Rhyng. 32, 23.

1836. *Entylia dispar*. Burm. Silb. Rev. iv, 182, 2.

1869. *Parmula dispar*. Stål, Hem. Fabr. ii, 29, 1.

Hab.—Mexico (*Goding*).

Page 397, between lines 12 and 13 from bottom insert as follows: 1893. *Entilia sinuata*. Rice, Insect Life, v, 243.

Page 399, line 7, after "one" insert *female*.

* *P. munda*, Walk, belongs to *Phanusa* (*Fide Fowler*)

Page 400, between lines 9 and 10 insert as follows: 1851. *Cyphonia rectispina*. Walk. List Hom. B. M. 597, 6; line 19, for *postfasciata* read *postfasciata*.

Page 401, line 4, for *bubalus* read *diceros*.

Page 402, at bottom of page add as follows:

1891. *Ceresa bubalus*. Fletcher, Rep. Ent. and Bot. Can. 191.

1892. *Ceresa bubalus*. Osb. Trans. Ia. Hort. Soc. 119, fig. 30.

1893. *Ceresa bubalus*. Osb. Fruit and Forest Tree Ins. 24, fig. 30.

Page 403, line 21, for the interrogation point substitute a period; between lines 2 and 3 from bottom insert as follows:

1892. *Ceresa taurina*. Osb. Trans. Ia. Hort. Soc. 119.

1893. *Ceresa taurina*. Osb. Fruit and Forest Tree Ins. 24.

Page 409, between lines 4 and 5 from bottom insert as follows: *Stictocephala gillettei*, ♂. Godg. Ent. News, iii, 200.

Page 411, line 2, for *nigripes*, Stål, read *munda*, Walk.; between lines 2 and 3 insert as follows: 1858. *Parmula munda*. Walk. List Hom. B. M. Suppl. 152; line 4, for Mex. (Stål), read Mex. and Guatemala (*Walk.*).

Page 412, between lines 11 and 12 from bottom insert as follows:

1892. *Thelia crataegi*. Osb. Trans. Ia. Hort. Soc. 119.

1893. *Thelia crataegi*. Osb. Fruit and Forest Tree Ins. 24.

Page 413, line 12 from bottom, and page 414, line 1, for *acuminata* read *acuminatus*.

Page 414, line 11, for *Hyphinae* read *Hyphinoë*.

Page 416, line 3 from bottom, for *Telamona* read *Membracis*.

Page 417, line 1, for 1841 read 1851.

Page 422, between lines 8 and 9 insert as follows: 1892. *Telamona mexicana?* Godg. Ent. News, iii, 108.

Page 424, line 9, for *top* read *tips*.

Page 425, line 6, dele "fig."; line 2 from bottom, for *galata* read *galeata*.

Page 427, line 4 from bottom, for *Membracis* read *Acutalis*.

Page 429, line 15, after "lower" insert *edge*.

Pages 435 and 436. *Note*.—An examination of the types shows that numbers 122 to 126 belong to *Cyrtolobus*.

Page 437. After the numbers 128, 129, and 130, for *A.* read *E.* *

Page 441, line 17 from bottom, for *V.* read *Amastris* †; line 4 from bottom, insert (?) before *V.*

Page 442, between lines 8 and 9 insert as follows: 1851. *Thelia expansa*. Walk. List. Hom. B. M. 563, 26; between lines 14 and 15 from bottom, insert as follows: *Thelia marmorata*. Walk. List. Hom. B. M. 555, 4.

Page 444, line 15 from bottom, after "scar" insert as follows: Apical cell much longer than in *marmorata*, the length exceeding the breadth more than twice, while in *marmorata* the cell is but a little longer than broad; line 14 from bottom, after "fuliginous" and "yellow" substitute semicolons for commas; line 7 from bottom, after "process," add as follows: in not being suddenly depressed a short distance before apex, in not having the median carina flat from this depression, and in being much more depressed anteriorly.

Page 445, line 8. *Note*.—Through the kindness of Rev. W. W. Fowler, of Lincoln, England, I have had the opportunity to examine Stål's type of the genus *Optilete*, and, as surmised, it proves to be a typical *marmorata*, Say. Between lines 16 and 17 from bottom insert as follows: 1851. *Hemiptycha longicornis*. Walk. List Hom. B. M. 569, 7.

Page 449, line 10 from bottom, *Note*.—Walker's *Darnis lineola* belongs to *Phacusa* (*Fide* Fowler).

Page 452, No. 181, for *prunitia*, Butler, read *hastata*, Stål (*Fide* Fowler).

* *Ashmeadea* being preoccupied, the name was changed to *Eyashmeadea*.

† A more careful study of the species places it in *Amastris*.

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