CLASSIFICATION OF THE GALL-WASPS AND THE PARASITIC CYNIPOIDS, OR THE SUPERFAMILY CYNIPOIDEA. II.

By William h. ashmead, a. m., ASSISTANT CURATOR, U. S. NATIONAL MUSEUM.

Subfamily IV. - Liopterinae.
1894. Liopterinae, Subfamily IV, Ashmead, Proc. ent. soc. Washington, vol. 3, p. 17 .

This group was first recognized as a subfamily by the writer about ten years ago, and I am surprised therefore, to see that Dr. von Dalla Torre takes credit for it in Wytsman's Genera Insectorum, Family Cynipidae, received January 27, 1903. He , and some other writers, placed the group in the subfamily Anacharinae, but its resemblance to that subfamily is merely superficial, the attachment of the abdomen, the abdomen itself, and the antennae being quite different.

In the publication quoted above I suggested that the group was probably an ancient phylum of the Cynipidae whence originated some of the Chalcidoidea, Chalcis, Eurytoma, etc. Since the suggestion was made additional evidence supporting it has been found in the African genus Oberthürella Saussure, occurring in Madagascar and Liberia, a genus belonging to this group, not mentioned by Dalla Torre or by Kieffer, and which has the hind femora slightly swollen and armed with a tooth beneath, similar to some chalcidoids.

## Table of Genera.

1. Head and thorax coarsely rugose; marginal cell closed

Scutellum normal, not ending in a spine; hind femora unarmed . 2 Scutellum ending in a long, acute spine; hind femora. armed with a strong tooth beneath, before the middle; $q$ antennae 13 -jointed, $\delta 14$ jointed. (Africa.) . . . . . . Oberthürella Saussure.
(Type O. lenticularis Sauss.) 2. Discoidal nervure interstitial with the median nervure; $?$ antennae 13 -jointed, ठ 14 -jointed . . . . . . . . . . Liopteron Perty. (Type L. compressum Perty.) Discoidal nervure not interstitial with the median nervure but issuing from the transverse median nervure; $\ddagger$ unknown, $\delta$ antennae 13 -jointed, clavate Peras Westwood. (Type P. niger Westw.)

> Subfamily V. - Eucoilinae.

186ı. Eucoilidae, Familia, Thomson, Öfvers. vet. akad. forhl. no. 9, p. 397.
1869. Eucoeloidae, Familie 4, Förster, Verh. zool.-bot gesell. Wien, vol. 19, p. 329, 34 .

This group is without doubt the largest and most widely distributed of any in the family Figitidae, the genera and species being exceedingly numerous although but little studied. As soon as the attention of entomologists is directed to the collecting of these obscure wasps and especially in tropical countries we may expect the discovery of many new genera, as is clearly shown by the new genera described here, most of which were recognized in a small collection of these insects taken by Mr. Herbert H. Smith in South America.

The subfamily is at once recognized by the cup-like elevation on the scutellum and by the hind tibiae having two apical spurs, characters not found in any other group.

## Table of Genera.

Females . . . . . . . . . . . ${ }^{I}$
Males ..... 61

1. Metathorax normal, not produced, the abdomen at most subsessile - (Tribe IIEucoilinae.)3

Metathorax produced into a long neck, the length of the hind coxae, the abdomen abnormally petiolated, the petiole being long and slender, longer than the thorax. (Tribe I. Zamischini.) .
2. Body of abdomen not large, compressed ; $i f$ antennae long, 13 -jointed, thickened toward apex, slender basally, the third joint shorter than the fourth. (Brazil.)

Zamischus Ashmead, gen. nov. (Type Z. brasiliensis Ashm.)
3. Base of abdomen with a hairy girdle ..... I5
Base of abdomen bare, without a hairy girdle
Mesonotum with parapsidal furrows ..... 4
Mesonotum without parapsidal furrows ..... 9
4. Parapsidal furrows distinct to base of scutellum ..... 5Parapsidal furrows not distinct to base of scutellum, converging and meetingbefore reaching the scutellum, thence to base of scutellum as a delicate carina;cup of scutellum large, marginal cell closed ; antennae 13 -jointed

Eucoilidia Ashmead
5. Parapsidal furrows converging and meeting at the base of the scutellum
Parapsidal furrows almost parallel, or some distance apart to the base of the
scutellum . . . . . . . . . . .
6. Marginal cell closed along the front margin

Marginal cell open along the front margin
7. Marginal cell open along the front margin

Gronotoma Förster (Type G. sculpturata Först.)

Diglyphosema Förster (Type D. eupatorii Först.)

Marginal cell closed along the front margin
Cup of scutellar large, rounded, its disk concave; antennae i3-jointed, long, subfiliform, only slightly and gradually thickened towards apex

Microstilba Förster
(Type M. bidentata Förster)
8. Mesonotum with five carinae; cup of scutellum large, oval or rounded; antennae 13-jointed, filiform, joints 4-I2 long oval. (South America.)

Tropideucoela Ashm., gen. nov. (Type T. rufipes Ashm.)
Mesonotum without carinae; cup of scutellum large; antennae 13 -jointed, without a distinct club . . . . . . Disorygma Förster (Type D. divulgata Först.)
9. Marginal cell open along the front margin

Marginal cell closed along the front margin I 3
io. Scutellum normal, unarmed
Scutellum abnormal, armed with two horns behind
Antennae 13 -jointed, ending in a 6 -jointed club
Dicerataspis Ashmead
(Type D. grenadensis Ashm.)
I I. Antennae ending in an abrupt club, which is three or more jointed . I2 Antennae at most subclavate, without a distinct, abrupt club

Ectolyta Förster
(Type Cothonaspis incressata Thoms.)
Triplasta Kieffer (Type Kleidotoma atrocoxalis Ashm.)
Cup of antennae 5 -jointed . . . . $\quad$ Pentaplasta Kieffer
13. Antennae ending in a distinct, abrupt club .

Antennae without a distinct club
Erisphagia Förster (Type Eucoila curta Gir.)
14. Club of antennae 5 -jointed (rarely 6-jointed)

Apex of front wings entire . . . . Psilosema Kieffer
$=$ Cothonaspis Thomson Förster
(Type C. pentatoma Thoms.)
Apex of front wings emarginate or excised
Schizosema Kieffer
(Type Eucoila emarginata Hartig.)
15. Front wings at apex emarginate or excised; apical abscissa of the submarginal vein stout, quadrate, at the most only a little longer than thick 16
Front wings at apex entire, never emarginate or excised although sometimes shortened and truncate ; apical abscissa of the submarginal vein slender, not stout, always two or more times longer than thick

Marginal cell closed along the front margin
Club of antennae 6- or 7 -jointed .
Leptopelina Förster (Type Eucoila longipes Hartig.)
17. Antennae ending in a distinct, abrupt club . 18
Antennae filiform or subfiliform, not ending in a distinct club
Arhoptra Kieffer
(Type Eucoila melanopoda Cam.)
18. Club of antennae more than 3 -jointed

Club of antennae 3 -jointed
Scutellum normal, not produced into a beak at apex . . . 19
Scutellum abnormal, produced into a beak or horn at apex; funicle joints ${ }_{2-7}$ small, moniliform . . . . . Rhynchacis Förster (Type Cothonaspis niger Hartig.)
19. Wings extending far beyond tip of abdomen
. Kleidotoma Westwood $=$ Trirhoptrasema Kieffer ${ }^{1}$
(Type K. psiloides Westw.)
20. Club of antennae more than 4 -jointed 21
Club of antennae 4 -jointed . . . . . Tetrarhoptra Förster (Type T. tetratoma Först.)
21. Club of antennae more than 5 -jointed 22
Club of antennae 5 -jointed . . . . . Pentacrita Förster
22. Club of antennae 6-jointed . . . . . Hexacola Förster
$($ Type Kleidotoma hexatoma Thoms. $=$ Hexacola picea Först.)

[^0]Club of antennae 7 -jointed Heptameris Förster(Type Eucoila pygmea Thoms.)
23. Wings abbreviated and much narrowed24
Wings not abbreviated, fully developed and always extending far beyond thetip of the abdomen28
24. Club of antennae less than 7 -jointed ..... 25
Club of antennae 7 -jointed Nedinoptera Förster(Type Eucoila holophila Thomson)
25. Metapleura bare, without a hairy cushion26Metapleura covered with a hairy cushionMarginal cell not fully developed, the first abscissa of the radius alonepresent, or longer than the second when the latter is presentGlauraspidia Thomson(Type G. parva Thomson.)Marginal cell fully developed, the first abscissa of the radius shorterthan the second
Apistophyza Förster (Type Eucoila microptera Hartig.) 26. Wings extending at least to the middle of the abdomen, and usually with a marginal cell 27
Wings not extending beyond the base of the abdomen, and without a marginal cell ; club of antennae 3 -jointed
Aphyoptera Förster
(Type A. inustipennis Förster)
27. Wings shorter than the abdomen, the marginal cell closed
Agroscopa Förster
(Type A. helgolandica Först.)
Wings as long as the abdomen, the marginal cell present but open along the front margin ; club of antennae 5 -jointed
Aphiloptera Förster (Type A. anisomera Först.)
28. Antennae if-, $_{12}$-, or 13 -jointed .
Antennae 14-jointed
Wings bare, glabrous . . . . Macrocereucoila Ashmead (Type M. longicornis Ashm.)
Wings pubescent ciliate
Antennae filiform, without a distinct club, the third joint longer than the fourth
Episoda Förster
(Type E. xanthoneura Först.)
29. Antennae 1 I-jointed, filiform (South America.) Promiomoera Ashm., gen. nov. (Type P. filicornis Ashm.)
Antennae 12-or 13 -jointed
Antennae 12-jointed ..... 30
Antennae 13 -jointed ..... 32
30. Marginal cell closed along the front margin ..... 31
Marginal cell open along the front margin Idiomorpha Förster(Type I. melanocera Först.)
31. Cup of scutellum large, rounded, the whole disk impressed or concave; anten-nae filiform, the third joint the longest, or without an abruptly defined clubMiomoera Förster(Type M. aberrans Först.)
Cup of scutellum large oval, the whole disk not impressed, anteriorly flat,posteriorly with a fovea, with small punctures bordering the margin; anten-nae ending in an abrupt 7 -jointed clubParamiomoera Ashmead
(Type P. heptoma Ashm.)
32. Marginal cell closed along the front margin ..... 33
Marginal cell open along the front margin ..... 50
33. Wings pubescent, the margins fringed or ciliated ..... 34Wings bare, glabrous, not pubescent or ciliated

Antennae subfiliform not ending in a distinct club, although slightly thickened toward apex, the third joint a little longer than the fourth

> Eucoila Westwood.

$$
=\text { Psilodora Förster }
$$

(Type E. crassinervis Westw.)
34. Abdomen not unusually compressed, the hypopygium not prominent; second joint of the flagellum usually shorter than the first, rarely as long or a little longer $3_{6}$ Abdomen usually strongly compressed at the sides, the hypopygium most frequently prominent, plow-share shaped; second joint of the flagellum always distinctly longer than the first.

Scutellum ending in a spine
Scutellum normal
Antennae long, without a distinct club . Hypolethria Förster (Type Cothonaspis melanoptera Hartig.)
35. Antennae long, gradually thickened toward apex, the third joint only about two thirds the length of the fourth, 4 to 6 long, cylindrical (South America.)

Odonteucoila Ashmead, gen. nov. (Type O. chapadae Ashm.)
36. Scutellum not ending in a spine ..... 37
Scutellum ending in a spineAntennae long, gradually thickened towards apex, the third joint muchshorter than the fourthOdontoeucoila Ashmead
37. Flagellar joints all long and cylindrical, the last 7 or 8 joints, however, are sometimes stouter and form sometimes a more or less well defined club; first abscissa of the radius distinctly shorter than the second . . . . $3^{8}$ Flagellar joints not all long and cylindrical, some oblong oval, ellipzoidal, or moniliform . . . . . . . . . . . 40
38. Scutellum normal, the cup not modified into a carina . . . 39 Scutellum abnormal, the axillae acutely toothed posteriorly, the cup modified into a carina which is gradually dilated posteriorly, appearing tridentate ; antennae long, filiform, the flagellar joints long, cylindrical, the first joint of the flagellum not quite so long as the second (South America.)

Trissodontaspis Ashmead, gen. nov.
(Type T. rufipes Ashm.)
39. Head and thorax finely coriaceous, not polished, the scutellum with two large oblong foveae at base, the cup narrowed ellipzoidal, connected with a carina anteriorly; antennae long, subfiliform slightly and gradually thickened toward apex, the flagellar joints long, cylindrical, the first shorter than the second, third, or fourth which are about equal, the fifth and beyond a little thicker and shorter. (South America.) . . . . . . . Dieucoela Ashmead, gen. nov. (Type D. subopaca Ashm.) Head and thorax smooth, shining, the scutellum with a large oval or round cup; first three joints of flagellum much elongated, and slenderer than the following

Aglaotoma Förster (Type Cothonaspis codrunus Först.)

## 40. Mesonotum without furrows or lines

Mesonotum with furrows or grooved lines.
Marginal cell rather short and broad, the second abscissa of the radius curved . . . . . . . . Chrestosema Förster
(Type C. erythrapum Först.)
41. Cup of scutellum excavated, smooth in front, the anterior part closed, posteriorly with a fovea . . . . . . . . . . . 42

Cup of scutellum flattened, neither excavated nor margined, slightly arched; metathorax smooth; antennae filiform

Ganaspis Förster
(Type G. mundata Först.)
42. Cup of scutellum not extending over the tip of the scutellum; antennae usually with a more or less distinct club

Cup of scutellum greatly elevated above the tip of the scutellum; antennae without a distinct club, usually long . . . . . Psichara Förster
(Type Cothonaspis longicornis Hartig.)
43. First and second abscissae of the radius not nearly equal in length, the first most frequently much shorter than the second

First and second abscissae of the radius equal in length or very nearly Antennae usually with a 7 - or 8 -jointed club, the joints elongate, cylindrical, the first joint of the flagellum shorter than the second; cup of scutellum usually small

Rhoptromeris Förster
(Type Cothonaspis eucera Hartig.)
44. Marginal cell not short, much longer than wide . . . . . 45

Marginal cell rather short, hardly longer than wide, the second abscissa of the radius curved outwardly (South America.)

Zaeucoela Ashmead, gen. nov.
(Type Z. unicarinata Ashm.)
45. Antennae with an abruptly defined club; cup of scutellum usually small, narrowed, ovate or ellipzoidal, rarely large oval

46
Antennae without an abruptly defined club, filiform or nearly, or only slightly, incrassated toward apex Pseudoeucoila Ashmead, gen. nov.
$=$ Eucoila Auctore.
(Type Cothonaspis trichopsila Hartig.)
46. Club of antennae 7 -jointed or less 47
Club of antennae 8 -jointed.
Flagellum with joints 2 and 3 very small, together scarcely as long as the first . . . . . . . Dimicrostrophis Ashmead (Type D. ruficornis Ashm.)

## 47. Club of antennae 6 -jointed or less

Club of antennae 7 -jointed.
Flagellum with joints 2 and 3 not small, neither much shorter than the first Heptamerocera Ashmead (Type H. robusta Ashm.)
48. Club of antennae 5 -jointed or less

Club of antennae 6-jointed . . . . . Hexamerocera Kieffer (Type Eucoila rufiventris Gir.)
49. Club of antennae 5 -jointed

Club of antennae 4 -jointed Pentamerocera Ashmead. (Type P. angularis Ashm.)

Tetramerocera Ashmead (Type T. variabilis Ashm.)
50. Marginal cell closed at base, the apical abscissa of the submarginal vein distinct

Marginal cell open at base or confluent with the costal cell, the apical abscissa of the submarginal vein wanting

Second abscissa of the radius usually wanting or much abbreviated; scutellum at apex normal Adieris Förster (Type A. reclusa Först.)

Second abscissa of the radius distinct ; scutellum at apex usually emarginate and obtusely bidentate . . . . . Piezobria Förster (Type P. bicuspidata Först.)
> 51. Wings pubescent, ciliate

> Wings bare, glabrous, not ciliate.
> Antennae 13-jointed $5^{2}$

Lytosema Kieffer
(Type Eucoila guérinii Dahlb.)

## 52. Abdomen not unusually compressed, the hypopygium not very prominent 53 <br> Abdomen much compressed, the hypopygium prominent plow-share shaped; antennae long, subfiliform, the joints elongate; cup of scutellum narrowed, ellipzoidal ; cubitus in front wings more or less distinct Pilinothrix Förster <br> (Type P. designata Först.)

> 53. Front wings with the cubitus wanting

> Front wings with the cubitus present, distinct 54

Antennae filiform, without a distinct club . . Anectoclis Förster
(Type A. indagatrix Först.)
Antennae subclavate or clavate more or less thickened toward apex, the joints submoniliform . . . . . Cothonaspis Hartig
= Trybliographa Förster
(Type Cothonaspis scutellaris Hartig.)
54. Cup of scutellum normal, not ending in a spine . . . . . 55
Cup of scutellum abnormal, ending in a long spine
Acantheucoela Ashmead (Type Cynips armatus Cresson.)
55. Cup of scutellum not large . . . . . . . . . .
Cup of scutellum large oval or rounded
Antennae clavate, the club not abruptly defined but more than 6-
jointed
(Type D. copulata Först.)
56. Club of antennae distinct, abruptly defined, 3 - to 7 -jointed . . . 57

Club of antennae not abruptly defined; cup of scutellum small, narrowed ellipzoidal; first two joints of flagellum very slender, shorter than the following

Hypodiranchis Ashmead
(Type H. hawaiiensis Ashm.)
57. Club of antennae 6 -jointed or less . . . . . . . . . . 58
Club of antennae 7 -jointed
58. Club of antennae 5 -jointed or less
Club of antennae 6-jointed Hexaplasta Förster= Didyctium Riley
(Type Cothonaspis hexatoma Hartig.)
59. Club of antennae 4 -jointed or less60
Club of antennae 5 -jointed
Club of antennae 5 -jointed Pentarhoptra Kieffer
(Type Eucoila tomentosa Giraud)
Tetraplasta Ashm., gen. nov.(Type T. unica Ashm.)
Club of antennae 3 -jointed
Eutrias Förster
61. Metathorax produced into a long neck the length of the hind coxae, the abdo- men abnormally petiolated, the petiole long and slender, longer than the thorax
Zamischus Ashm.
Metathorax normal not produced, the abdomen subsessile.Abdomen at base bare, without a hairy girdle62
Abdomen at base with a hairy girdle ..... 73
62. Mesonotum with parapsidal furrows ..... 63
Mesonotum without parapsidal furrows ..... 68
63. Parapsidal furrows distinct to base of scutellum ..... 64
Parapsidal furrows not distinct to base of scutellum, converging and meetingbefore reaching the base of the scutellum, thence to base as a delicate carina;marginal cell closed; antennae 15-jointedEucoilidea Ashmead
64. Parapsidal furrows converging and meeting at the base of the scutellum 65 Parapsidal furrows almost parallel or some distance apart to the base of the scutellum ..... 67
65. Marginal cell closed along the front margin ; cup of scutellum large ; antennae${ }^{1} 5$-jointed, the first flagellar joint longer than the second, excised towards baseGronotoma Förster
Marginal cell open along the front margin; antennae ${ }_{15}$-jointed
Diglyphosema Förster
66. Marginal cell open along the front margin ..... 67Marginal cell closed along the front marginCup of scutellum large, rounded, its disk concave; antennae ${ }_{5} 5$-jointed,the third joint longer than the second, strongly excised
Microstilba Förster
67. Mesonotum with 5 carinae Tropideucoela Ashmead
Disorygma Förster
68. Marginal cell open along the front margin ..... 69
Marginal cell closed along the front margin ..... 7 I
69. Scutellum normal, unarmed ..... 70
Scutellum abnormal, armed with two horns behind Dicerataspis Ashmead
73. Front wings at apex emarginate or excised; apical abscissa of the submargi-nal vein stout, quadrate, at the most only a little longer than thick74 Front wings at apex entire, never emarginate or excised, although sometimes shortened and truncate; apical abscissa of the submarginal vein slender, not stout, always two or more times longer than thick 79
74. Marginal cell open along the front margin ..... 75
Marginal cell closed along the front margin Leptopelina Förster
75. Scutellum normal, not produced into a beak at apex ..... 76Scutellum abnormal, produced at apex into a beak or hornRhynchacis Förster
76. First joint of the flagellum not or scarcely longer than the second, rarelycurved, and hardly as thick as the second .77First joint of the flagellum a little longer than the second, stouter andusually slightly curved, the following joints cylindrical, usually three or moretimes longer than thick and gradually but imperceptibly increasing in lengthto the penultimate. Kleidotoma Westwood
77. Joints of flagellum long, cylindrical, equal in length or very nearly, and atleast four times as long as thick.Tetrarhoptra Förster
Joints of flagellum differently formed. ..... 78
78. Flagellar joints i to 3 equal in length or very nearly, the first slightly curved,clavate, the apical joints not or rarely more than three times as long as thickPentacrita Förster
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Unknown .
Heptameris Förster
79. Wings abbreviated ..... 80
Wings fully developed ..... 83
8o. Metapleura bare or at most very sparsely pubescent ..... 8 I
Metapleura clothed with a dense pubescence
Marginal cell incomplete, the second abscissa of the radius wanting orvery short .
Glauraspidia Thomson

Marginal cell completely formed, the first abscissa of the radius shorter than the second .

Apistophyza Förster
81. Wings reaching at least to the middle of the abdomen, and with a marginal cell 82
Wings not reaching beyond the base of the abdomen, and without a marginal cell

Antennae ${ }^{5} 5$-jointed, the first joint of the flagellum distinctly longer than the second, excised, the following not quite twice as long as thick

Aphyoptera Förster
82. Wings shorter than the abdomen, the marginal cell closed

Agroscopa Förster
Wings as long as the abdomen, the marginal cell open along the front margin, the first abscissa of the radius longer than the second
83. Antennae $\mathbf{1}_{3}$ - to $\mathrm{I}_{5}$-jointed

Aphiloptera Förster
Antennae 16 -jointed, very long, the flagellar joints long, cylindrical
Wings glabrous, the marginal cell closed Macrocereucoila Ashmead (Type M. longicornis Ashm.)
Wings pubescent, the marginal cell closed . . Episoda Förster
84. Antennae ${ }_{15} 5$-jointed

Antennae $\mathrm{I}_{3}$ - or 14 -jointed
Antennae 14 -jointed 85
Antennae 13 -jointed
Flagellum long, filiform, the joints long, cylindrical, the first joint only about half as long as the second ; cup of scutellum large, rounded Promiomoera Ashmead, gen. nov. (Type P. filicornis Ashm.)
85. Marginal cell closed along the front margin . . . . 86
86. Cup of scutellum large, rounded, the whole disc concave Miomoera Förster Cup of scutellum large oval the whole disc not concave, anteriorly flat, posteriorly with a fovea . . . . . Paramiomoera Ashmead
87. Marginal cell closed along the front margin 88
Marginal cell open along the front margin IOI
88. Wings pubescent, the margins fringed or ciliated . . . . 89

Wings bare, glabrous, without a marginal fringe
Antennae long, filiform, the joints cylindrical . Eucoila Westwood
89. First abscissa of the radius distinctly shorter than the second . . 90

First abscissa of the radius as long as the second

# First joint of the flagellum distinctly shorter than the second <br> Hypolethria Förster 

First joint of the flagellum as long or nearly as long as the second
Rhoptromeris Förster
90. Scutellum normal, or at least not ending in a spine . . 9 I
Scutellum ending in a spine . $\quad$ Odonteucoila Ashmead
91. First joint of the flagellum usually longer than the second, more rarely equal in length, or very slightly shorter

First joint of the flagellum very distinctly shorter than the second
Heptamerocera Ashmead
92. Scutellum normal, the cup not modified into a carina . . . . 93

Scutellum abnormal, the axillae acutely toothed posteriorly, the cup modified into a carina which is gradually dilated posteriorly, appearing tridentate

Trissodontaspis Ashmead
93. Head and thorax smooth and shining

94
Head and thorax not smooth and shining, but finely coriaceous; scutellum with two large foveae at base, the cup narrowed ellipzoidal, connected with a carina anteriorly ; antennae long, the joints long, cylindrical, the first joint of the flagellum not longer or thicker than the second, the eighth and beyond slightly shortening . . . . . Dieucoela Ashmead
94. First joint of the flagellum not greatly elongated, thickened, or strongly curved 95
First joint of the flagellum usually greatly elongated, much thickened and curved

Aglaotoma Förster
95. Marginal cell short nearly as wide as long, the second abscissa of the radius strongly curved outwardly; cup of scutellum very large 96
Marginal cell not especially short, always much longer than wide; mesonotum without furrows . $9^{8}$
96. Mesonotum short, without furrows . . . . . . . 97

Mesonotum with two fine furrows abbreviated posteriorly and two very broad lateral impressions shortened anteriorly . . . Chrestosema Förster
97. Mesonotum with a very delicate median carina; cup of scutellum very large oval ; first joint of the flagellum not longer than the second, the joints oblong oval, about thrice as long as thick

Zaeucoela Ashmead, gen. nov. (Type Z. unicarinata Ashm.)
Mesonotum without a median carina; cup of scutellum large rounded, the disk flat or slightly impressed ; first joint of the flagellum longer than the second (or rarely shorter and slenderer), the following joints oval or moniliform hardly longer than thick or at most only about twice as long as thick, never thrice as long as thick .

Ganaspis Förster

Cup of scutellum rather large oval or ovate; first joint of flagellum not longer than the second . . . . . . . Cothonaspis Hartig $=$ Trybliographa Förster
106. Cup of scutellum normal or not ending in a spine

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Cup of scutellum abnormal, ending in a strong spine
Acantheucoela Ashmead
107. Cup of scutellum not large, either ovate or ellipzoidal with a fovea posteriorly 108
Cup of scutellum large broadly oval or rounded
First joint of the flagellum subclavate at least as long as the second
Diranchis Förster


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[^0]:    ${ }^{1}$ Kieffer proposes this genus for my Kleidotoma americana, which, however, is a true Kleidotoma. I am probably responsible for the Abbés error by describing through a lapsus pennae the marginal cell as being closed, when it is really more or less open along the fore margin.

