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

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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; ? antennae 13-jointed, ? 14-jointed. (Africa.) Oberthürella Saussure.

 (Type O. lenticularis Sauss.)
- 2. Discoidal nervure interstitial with the median nervure; ? antennae 13-jointed, ? 14-jointed Liopteron Perty. (Type L. compressum Perty.)

Discoidal nervure not interstitial with the median nervure but issuing from the transverse median nervure; Q unknown, & antennae 13-jointed, clavate Peras Westwood.

(Type P. niger Westw.)

Subfamily V. — Eucoilinae.

1861. 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, 341.

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						
1. Metathorax norm						
Eucoilinae.) .						3
	aced into a long necl					do-
men abnormally	petiolated, the petiole	being long	g and slen	der, longe	r than t	the
thorax. (Tribe l	. Zamischini.) .					2
2. Body of abdomer	not large, compressed	d; ? anten	nae long, 1	3-jointed,	thicken	ed
toward apex, slender	basally, the third join	nt shorter th	nan the for	urth. (Bra	azil.)	
		7	Zamischus	Ashmead,	gen. n	ov.
			(Type Z.	brasiliens	is Ashr	n.)
3. Base of abdomen	with a hairy girdle					15
Base of abdomen	bare, without a hairy	girdle				
Mesonotum	with parapsidal furro	ws .				4
Mesonotum	without parapsidal fu	rrows.			198	9
4. Parapsidal furrov	vs distinct to base of	scutellum				5
	ws not distinct to ba					
	ne scutellum, thence t				te carir	na;
cup of scutellum	large, marginal cell c	losed; ante				
				Eucoilidia		
			(Type E.	canadensi	s Ashn	n.)

	Described for the state of the
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 Gronotoma Förster
	(Type G. sculpturata Först.)
	Marginal cell open along the front margin Diglyphosema Förster
	(Type D. eupatorii Först.)
7.	Marginal cell open along the front margin
	Marginal cell <i>closed</i> along the front margin
	Cup of scutellar large, rounded, its disk concave; antennae 13-jointed,
	long, subfiliform, only slightly and gradually thickened towards apex
	Microstilba Förster
	(Type M. bidentata Förster)
8.	Mesonotum with <i>five</i> carinae; cup of scutellum large, oval or rounded; anten-
	13-jointed, filiform, joints 4-12 long oval. (South America.)
	Tropideucoela Ashm., gen. nov.
	(Type T. rufipes Ashm.)
	Mesonotum without carinae; cup of scutellum large; antennae 13-jointed,
	'.'
	(Type D. divulgata Först.)
9.	Marginal cell open along the front margin
	Marginal cell <i>closed</i> along the front margin
10.	
	Scutellum abnormal, armed with two horns behind
	Antennae 13-jointed, ending in a 6-jointed club
	Dicerataspis Ashmead
	(Type D. grenadensis Ashm.)
II.	
	Antennae at most subclavate, without a distinct, abrupt club
	Ectolyta Förster
	(Type Cothonaspis incressata Thoms.)
12.	
	(Type Kleidotoma atrocoxalis Ashm.)
	Cup of antennae 5-jointed Pentaplasta Kieffer
	(Type Pentacrita coxalis Ashm.)
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
	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
16.	Marginal cell open along the front margin
10.	Marginal cell <i>closed</i> 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
1/.	Antennae filiform or subfiliform, <i>not</i> ending in a distinct club
	Arhoptra Kieffer
	(Type Eucoila melanopoda Cam.)
18.	Club of antennae more than 3-jointed
10.	Club of antennae 3-jointed
	Scutellum normal, <i>not</i> produced into a beak at apex
	Scutellum abnormal, produced into a beak or horn at apex; funicle joints
	2-7 small, moniliform Rhynchacis Förster
	(Type Cothonaspis niger Hartig.)
	Wings extending far beyond tip of abdomen Kleidotoma Westwood
19.	= Trirhoptrasema Kieffer 1
	(Type K. psiloides Westw.)
20.	
	Club of antennae 4-jointed Tetrarhoptra Förster
	(Type T. tetratoma Först.)
21.	Club of antennae more than 5-jointed
	Club of antennae 5-jointed Pentacrita Förster
	(Type Eucoila cordata Gir.)
22.	Club of antennae 6-jointed
	CLYDE K IEROOFOHIA DEVATORIA L DOMS DEVACOIA DICEA FOISL I

¹ Kieffer proposes this genus for my Kleidotoma americana, which, however, is a true Kleidotoma. I am probably responsible for the Abbé's 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.

	Club of antennae 7-jointed Heptameris Förster
	(Type Eucoila pygmea Thoms.)
23.	Wings abbreviated and much narrowed
	Wings not abbreviated, fully developed and always extending far beyond the
	tip of the abdomen
24.	Club of antennae less than 7-jointed
	Club of antennae 7-jointed Nedinoptera Förster
	(Type Eucoila holophila Thomson)
25.	Metapleura bare, without a hairy cushion
	Metapleura covered with a hairy cushion
	Marginal cell not fully developed, the first abscissa of the radius alone
	present, or longer than the second when the latter is present
	Glauraspidia Thomson
	(Type G. parva Thomson.)
	Marginal cell fully developed, the first abscissa of the radius shorter
	than the second Apistophyza Förster
	(Type Eucoila microptera Hartig.)
26.	Wings extending at least to the middle of the abdomen, and usually with a
	rinal cell
mare	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 11-, 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 11-jointed, filiform (South America.) Promiomoera Ashm., gen. nov.
	(Type P. filicornis Ashm.)
	Antennae 12- or 13-jointed

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
38. Scutellum normal, the cup not modified into a carina 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 shout equal the fifth and beyond a little thicker and shorter. (South
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
40. Mesonotum without furrows or lines
41. Cup of scutellum excavated, smooth in front, the anterior part closed, posteriorly with a fovea
42. Cup of scutellum not extending over the tip of the scutellum; antennal usually with a more or less distinct club
43. First and second abscissae of the radius not nearly equal in length, the first most frequently much shorter than the second

	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
	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, nar-
rowe	ed, ovate or ellipzoidal, rarely large oval
	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
	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 Pentamerocera Ashmead.
	(Type P. angularis Ashm.)
	Club of antennae 4-jointed Tetramerocera Ashmead
	(Type T. variabilis Ashm.)
50.	
disti	
	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
	Antennae 13-jointed Lytosema Kieffer (Type Eucoila guérinii Dahlb.)
52.	Abdomen not unusually compressed, the hypopygium not very prominent 53
	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
	(Type P. designata Först.)
53.	Front wings with the cubitus wanting
	Front wings with the cubitus present, distinct
	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
	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 Diranchis Förster
,	(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 follow-
	ing Hypodiranchis Ashmead
	ing
	Club of antennae 6-jointed or less
57.	Club of antennae 7-jointed
	(Type Heptamerocera aliena Ashm.)
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 less 60
	Club of antennae 5-jointed Pentarhoptra Kieffer
	(Type Eucoila tomentosa Giraud)
60.	Club of antennae 4-jointed 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 girdle 62
	Abdomen at base with a hairy girdle
62.	Mesonotum with parapsidal furrows
02.	Mesonotum without parapsidal furrows
63.	Parapsidal furrows distinct to base of scutellum
03.	Parapsidal furrows not distinct to base of scutellum, converging and meeting
	before reaching the base of the scutellum, thence to base as a delicate carina;
	marginal cell closed; antennae 15-jointed Eucoilidea Ashmead
64.	
04.	Parapsidal furrows converging and meeting at the base of the scutellum 65 Parapsidal furrows almost parallel or some distance apart to the base of
6-	
65.	Marginal cell <i>closed</i> along the front margin; cup of scutellum large; antennae
15-10	ointed, the first flagellar joint longer than the second, excised towards base
	Gronotoma Förster
	Marginal cell open along the front margin; antennae 15-jointed
	Diglyphosema Förster
66.	Marginal cell open along the front margin 67
	Marginal cell closed along the front margin
	Cup of scutellum large, rounded, its disk concave; antennae 15-jointed,
	the third joint longer than the second, strongly excised
	Microstilba Förster
67.	Mesonotum with 5 carinae Tropideucoela Ashmead
	Mesonotum without carinae Disorygma Förster
68.	Marginal cell open along the front margin
	Marginal cell closed along the front margin
69.	Scutellum normal, unarmed
	Scutellum abnormal, armed with two horns behind Dicerataspis Ashmead

70.	Unknown (only known)
	Pentaplasta Kieffer
	Ectolyta Förster
71.	First joint of flagellum shorter than the fourth, the latter the stouter . 72
	First joint of flagellum not longer than the fourth, the following slightly and
	gradually increasing in length Erisphazia Förster
72.	Apex of wings entire not emarginate Psilosema Kieffer
,	Apex of wings emarginate Schizosema Kieffer
73.	Front wings at apex emarginate or excised; apical abscissa of the submargi-
13.	nal vein stout, quadrate, at the most only a little longer than thick . 74
	Front wings at apex <i>entire</i> , 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
74.	Marginal cell open along the front margin
	Marginal cell closed along the front margin Leptopelina Förster
75.	Scutellum normal, not produced into a beak at apex
	Scutellum abnormal, produced at apex into a beak or horn
	Rhynchacis Förster
76.	First joint of the flagellum not or scarcely longer than the second, rarely
curv	red, and hardly as thick as the second
	First joint of the flagellum a little longer than the second, stouter and
	usually slightly curved, the following joints cylindrical, usually three or more
	times longer than thick and gradually but imperceptibly increasing in length
	to the penultimate
77.	Joints of flagellum long, cylindrical, equal in length or very nearly, and at
	t four times as long as thick Tetrarhoptra Förster
icas	Joints of flagellum differently formed
- 9	
78.	rate, the apical joints not or rarely more than three times as long as thick
Clav	Pentacrita Förster
	Flagellar joint I scarcely as long as the second or distinctly shorter, the fol-
	lowing joints stouter, fully thrice as long as thick . Hexacola Förster
	Unknown Heptameris Förster
79.	Wings abbreviated 80
	Wings fully developed
80.	Metapleura bare or at most very sparsely pubescent 81
	Metapleura clothed with a dense pubescence
	Marginal cell incomplete, the second abscissa of the radius wanting or
	very short

	Marginal cell completely formed, the first abscissa of the radius shorter than the second Apistophyza Förster
81. cell	Wings reaching at least to the middle of the abdomen, and with a marginal
CCII	Wings not reaching beyond the base of the abdomen, and without a marginal cell
	Antennae 15-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
	Aphiloptera Förster
83.	Antennae 13- to 15-jointed
	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-jointed
	Antennae 13- or 14-jointed
	Antennae 14-jointed
	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.
0	(Type P. filicornis Ashm.)
85.	Marginal cell <i>closed</i> along the front margin
06	Marginal cell open along the front margin Idiomorpha Förster
86.	Cup of scutellum large, rounded, the whole disc concave Miomoera Förster
	Cup of scutellum large oval the whole disc not concave, anteriorly flat,
Q =	posteriorly with a fovea Paramiomoera Ashmead
87.	Marginal cell <i>closed</i> along the front margin
88.	Wings pubescent, the margins fringed or ciliated
00.	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
	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
	Scutellum ending in a spine Odonteucoila Ashmeac
91.	First joint of the flagellum usually longer than the second, more rarely equa
-	ength, 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
	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
,,	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
	ed
	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
, ,	ngly curved outwardly; cup of scutellum very large 96
	Marginal cell not especially short, always much longer than wide; mesonotum
	without furrows
96.	Mesonotum short, without furrows
	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,
	t 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

98.	Cup of scutellum normal
	Cup of scutellum overlapping the apex of the scutellum Psichara Förster
99.	First joint of the flagellum not longer than the second or on'y a little
	longer
	First joint of the flagellum very distinctly longer than the second, the follow-
	ing joints from $2\frac{1}{2}$ to 3 times as long as thick . Hexamerocera Kieffer
100.	Flagellar joints long, cylindrical, four or more times longer than thick
	Pseudeucoila Ashmead
	Flagellar joints at the most thrice as long as thick or even shorter
	Pentamerocera Ashmead
IOI.	Marginal cell confluent with the costal cell, the apical abscissa of the submargi-
	rein wanting
	Marginal cell not confluent with the costal cell, the apical abscissa of the
	submarginal vein always present
102.	Second abscissa of the radius wanting or not extending to the costa, the
	inal cell therefore open at apex
	Second abscissa of the radius distinct, reaching the costa; first joint of the
	flagellum more than twice the length of the second; the second and follow-
	ing moniliform Piezobria Förster
103.	Cubitus in front wings always more or less present or distinct 104
3	Cubitus in front wings obliterated or wanting 106
104.	Wings pubescent, ciliate
	Wings bare, glabrous, not ciliate Lytosema Kieffer
105.	Cup of scutellum narrowed, ellipzoidal; first joint of flagellum very long,
	tly curved, as long as 2 and 3 united, joints beyond cylindrical
	Pilinothrix 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 107
	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



Ashmead, William H. 1903. "Classification of the Gall-Wasps and the Parasitic Cynipoids, or the Superfamily Cynipoidea. II." *Psyche* 10, 59–72. https://doi.org/10.1155/1903/97546.

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DOI: https://doi.org/10.1155/1903/97546

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