Hymenoptera Tenthredinoidea Subfamily Selandriinae

Key to the

Genera of the World

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Specific or generic names are given to groups of living or fossil beings with certain characters in common. To separate a particular group from other ones a description is given to it, and for practical reasons and to avoid repeating this description every time, we refer to a name answering this particular description. By a common agreement the names should be binominal, latinazed, and not published before the year 1758 (Linnaeus, Systema Naturae, Ed. X); the first of the names is the generic name and the second the specific one. The same group may have different names, and it has been decided that the oldest of the names answering to a description by which the group may be recognized shall be used, and the names given later be regarded as synonyms. The original specimen (or specimens) from which the description is made and that answers the description is called the type (or types). The type may be destroyed or lost, but the name is still valid as long as the description had been published in a then commonly accessible scientific work or journal. A name with only a type-specimen is not valid without a published description or picture. The value of types lies in the possibility they offer when studied of bringing out further complementary characters not mentioned in the original description. A specimen may be accepted as type even with minor contradictions referable to poor lenses, skill, or a lapsus calami. Not only the specific name but also the generic name must be binominal, viz. it must have been connected with a name of a described species at some time. If a generic name was originally described without a species, then it becomes valid only from that date when it becomes connected with a name of a described species. A valid generic name once used in, for instance, zoology may be used in botany, but never again

The first entomologist to subdivide the *Hymenoptera Phytophaga* or *Symphyta* into families, subfamilies (sections), tribus, and subtribus was C. G. Thomson (Hymenoptera Scandinaviae, Tom. I, Lund 1871), one of the best entomologists who ever existed. This system of his was adopted and further developed by F. W. Konow (Deutsch. Ent. Zeitschr. 1890, pp. 225—255), whose classification in its main features is still used in this paper. The group-

ing together of different categories varies somewhat among different authors, and most Anglo-American ones have elevated lower groups to family rank. Classifications proposed by Fabricius, Ashmead, and Macgillivray have been abandoned by later authors.

A system with high merits and based on the shape of the head capsule, mesosternum, and the male genitalia has been proposed by H. H. Ross (Illinois Biolog. Monogr., XIV, Urbana 1937) and probably comes nearer the true relationship between the groups and genera than any other system. In the present author's opinion, it is hardly possible to make a practical key based on relation, but for groups of higher order than genera. The present key is purely artificial, and its main purpose is to make it possible for the students of saw-flies to place the insects in their taxonomically proper genera. If related genera mostly are placed together, they may also be widely separated in the interest of simplicity in use of the key. The work on this key was started already in 1931, and it could have been published two years later. The publication was postponed year after year as new genera were included. On several occasions the existing system had to be partly broken up and rearranged as new characters were introduced. A study of type species unveiled sometimes misunderstandings made in some cases by a succession of authors and caused occasionally old synonyms to be reestablished. The key was thus perpetually tested and it is hoped it will in its present shape be useful to future students of saw-flies. In the author's terminology the difference between a genus and a subgenus is that the latter merge gradually into each other, but the former are separable by distinct characters. It is sometimes very hard to define if a given character is distinct or not. In genera with many species a subdivision may be desirable, but not always possible to undertake. Students ought always to remember the purpose of a subdivision of a group into genera is to facilitate the determination of the insects. To create a new generic name with the main purpose to immortalize once own name as an author is quite commonly done in entomology, but cannot be approved of. It must be regarded as most desirable, when describing new species or genera, if their taxonomical place in the system should be made more easily understandable by later students by placing them in a key together with their relatives. To introduce hypothetical characters in a key, as done by Ashmead 1898 is on the other hand quite condemnable. In this key the name of the type species is given in brackets after the generic description. The synonym names of the genus is also given in brackets after the generic names. When the name of the author of a species is given in brackets, then this species was originally connected with another generic name.

The brevier numbers in the text of the key refer to the plates at the end. If these numbers are printed in italicfaced breviers (0), they refer to drawings made from the genus in question; otherwise (0) they illustrate only the actual character mentioned.

Most of the illustrations were drawn by the present author and taken from his earlier papers, but 20 are borrowed from papers by Benson (5, 9), Ross (147, 148, 150, 152, 153, 154, 156, 158, 159), and Takeuchi (75, 84, 85, 87, 99, 135, 137, 138, 140).

1.	The find coxae lengthened (protracted) and the end of the find femora thus
	reaching to and beyond the apex of abdomen. Clypeus truncate, if not stated
	differently. ¹²² , ¹²³ , ¹²⁹ , ¹³¹ Antennae with 9 joints ⁹³ , ⁹⁶ , ⁹⁷ (if multi-jointed, comp.
	nr. 10)
	Hind coxae normal, the hind coxae not reaching the apex of abdomen 7
2.	Hind wings with 2 closed middle cells. ^{4, 6} The hind metatarsus twice as long
	as the following tarsal joints combined, "dilated and hollowed on the outer
	side. Head scarcely developed behind the eyes,144 the front and vertex forming
	one peace without a suture, frontal area obsolate."126 (S. purpureifrons Cameron).
	Assam. Genus Sunoxa Cameron 1899.
_	Hind wings without closed middle cells, 7, 98 or with only one
3.	Hind wings with one closed middle cell. 142c, 149 4
	Hind wings without closed middle cell. The hind metatarsus not groved along
	the outer side, but is longer, sometimes almost twice as long as the following
	tarsal joints combined.159 Claws with basal lobe and the shorter subapical
	tooth placed somewhat lateral of the longer apical one.34, 49 Postocellar area
	broader than it is long. 143 The hind orbits very short. 143 The antennal fur-
	rows,131 malar space,106 posterior seam of the head, and presterna wanting.
	Antennal organs present. (A. formosanus Enslin).
	Formosa, Burma, Annam, Sikkim, Java. Genus Abeleses Enslin 1911.
4.	The hind metatarsus longer than the remaining tarsal joints combined, is flat
	and angularly refracted longitudinally producing a grove along the outer
_	The hind metatarsus normal (subcylindric), as long as or longer than the fol-
	lowing tarsal joints combined. ¹⁵⁹ Claws with the shorter subapical tooth placed
	lateral of the apical one.34 Antennal organ present, at least in the \(\frac{1}{2}\) 6
5.	The subapical tooth of the claws much longer than the apical one and placed
	basally of it.33 Antennae as long as the entire body and filiform.142B Clypeus
	flat, shallowly emarginated with angular corners. 101 Head slightly dilated be-
	hind the small subparallel eyes. 139 (M. crassitarsis Takeuchi).
	Japan. Genus Megabeleses Takeuchi 1952.
_	The subapical tooth of the claws subequally long with, and placed lateral of
	the apical one.24 Antennae shorter than abdomen. Clypeus subtruncate. Head
	strongly narrowing and not carinated behind the eyes,144 the inner margins
	of which are slightly converging downwards. 133 (E. formosanus Enslin).
	Formosa, Burma, Ceylon. Genus $E u s u n o x a$ Enslin 1911.
0	
6.	
	slenderly filiform. ^{142B} Malar space wanting or linear, shorter than half the dia-
	meter of an ocellus. (Anisoneura stigmaticalis Cameron).
	China, Formosa, Japan, Southern India. Genus Beleses Cameron 1877.
	(Anisoneura Cameron 1876 nec Guenée 1852, Belesidea Rohwer 1916).
_	Claws without basal lobe. ²⁴ Mesopleura with distinct presterna. ⁷⁹ Antennae
	stout, incrassated in the middle. ⁹⁷ Malar space as long as the diameter of an
	ocellus. (Phyllotoma? flavescens Marlatt).
	Japan, Formosa. Genus Nesotaxonus Rohwer 1910.
7.	Antennae with more or less than 9 joints
_	Antennae with 9 joints. 13, 97
8	Antennae with 7 joints. Hind wings with 2 closed middle cells. ^{4, 11} Basalis and
0.	the 1st recurrent vein strongly convergent in the front wings. ^{4, 11, 148} 9
_	Antennae with 10 or more joints
	Entomol. Ts. Årg. 84. H. 3-4, 1963

9. Claws with a narrow rectangular basal lobe and in its vicinity with a subapical tooth mostly somewhat shorter, but sometimes even longer than the apical one.^{23, 54, 62} In the front wings basalis strongly curved,¹³⁰ and joins medius in the same point as nervulus (is interstitial with it).⁹⁸ Malar space somewhat shorter than the diameter of an ocellus. Clypeus.^{102, 103} The 2nd antennal joint (pedicellus) longer than the first one (scapus).¹⁵⁵ (Melicerta ochroleucus Stephens).

Central and North Europe, Ussuri, Kamchatka, Formosa, Burma, Java, Sumatra, Borneo.

Genus Heptamelus Haliday 1855.

(Melicerta Stephens 1835, nec Schrank 1803, Caenoneura Thomson 1870).
 Claws simple.⁴¹ Basalis almost straight and not interstitial with nervulus.⁵ Malar space much longer than the diameter of an ocellus.¹²⁶ Pedicellus shorter than scapus.⁹⁷ (P. runari Conde).

Lettland. Genus P s e u d o h e p t a m e l u s Conde 1932.

- Antennae with 10—11 joints, simple and distinctly incrassated towards the apex. Hind wings with 2 closed middle cells, and the anellan cell longly petiolate. The inner margins of the eyes strongly converging downwards. ¹²⁹ Malar space much longer than the diameter of an ocellus. ¹²⁴ Frontal area poorly defined. Clypeus truncate to roundly emarginated. ¹⁰⁴ Mesopleura without presterna, but their upper triangular part separated by a very shallow furrow. ⁷⁹ The hind metatarsus much shorter than the following tarsal joints combined. Claws mostly simple, rarely with a very minute subapical tooth. ⁴¹ (Tenthredo spinarum Fabricius).

Palaearctic, Ethiopian, Indo-Malayan. Genus Athalia Leach 1817. (Dentathalia Benson 1931).

12. The middle antennal joints almost serrated, at least in the ♀, e.g. the joints prolonged into a short ramification below; the 5—7 last ones of the 23 antennal joints almost grown together and provided with antennal organs. The anal vein obliterated or interrupted shortly basally of the strongly oblique cross-vein; the anal cell appears accordingly to be petiolate. Hind wings without closed middle cells. Malar space as long as half the diameter of an ocellus. The hind coxae enlarged. Claws elongated, the subapical tooth longer than the apical one. 33, 52 (C. insolita Konow).

Tonkin. Genus Cladiucha Konow 1902.

— Antennae with 18—22 joints, all without ramification; scapus and pedicellus subequal in length. Hind wings with 2 closed middle cells. Mesopleura with narrow but distinct presterna. Frontal area wanting. Anterior margin of clypeus rounded. Malar space longer than half the diameter of an ocellus. Claws elongated, simple, or with a very minute subapical tooth. (H. annulitarsus Cameron).

Patria? (Further India?). Genus Hennedyia Cameron 1891. (Hennedyella Forsius 1935).

 Anal cell with oblique cross-vein.⁵ Hind wings without closed middle cells and the anellan cell open at the apex. Labrum and malar space very long, 3 to 4

times longer than the diameter of an ocellus. Clypeus truncate. Eyes strongly protruding. Mesopleura without presterna. Claws with a large triangular basal lobe and a shorter and more slender subapical tooth placed lateral and somewhat behind the longer apical one.³⁴ (*Tenthredo* [Emphytus] ochropoda Klug.) Palaearctic to N. Burma, Nearctic (introduced).

Genus Heterarthrus Stephens 1935. (Phyllotoma Fallén 1829 nec Leach 1819, Decatria Stephens 1835, Druida Newman 1838, Phlebatrophia Macgillivray 1909).

- Anal cell without cross-vein. Clypeus truncate or faintly rounded anteriorly.⁷⁶ 14
 14. Anal cell contracted in the middle.⁹ Hind wings without closed middle cells, and the anellan cell open at the apex. Claws simple. (*P. judaica* Forsius).
 - Israel, Algeria, Tunis. Genus Paraphyllotoma Forsius 1930. Anal cell not contracted. Hind wings mostly with 2 closed middle cells. (Except. D. bensoni Forsius 1931); the anellan cell closed and petiolate. (Except. D. bensoni Forsius 1931); the anellan cell closed and petiolate. (Claws with basal lobe and rather long subapical tooth. Scutellar appendage half as long as scutellum and half as long as it is broad. (D. morio Konow).

Ethiopian. Genus Dulophanes Konow 1907.

- 17. Both recurrent veins run into the 2nd cubital cell in the front wings. 22

- A closed anellan cell wanting. Mesopleura with rather distinct presterna. Clypeus truncate. Claws simple. Scapus and pedicellus short, broader than they are long; the 3rd and 4th antennal joints subequal in length. (*Pelmatopus ane-mones* Hering).

Germany, Lettland, Finland. Genus Endophytus Hering 1934.
(Neopelmatopus Conde 1934).

Mesopleura with distinct presterna. ^{79,90} Clypeus deeply roundly incised. ^{100,103} 20
 Mesopleura without presterna. Clypeus truncate. ^{113,123} Malar space quite linear. Claws long, and with a small straight subapical tooth near the middle. ⁴¹ Antennae slender; in the ♀ the 3rd and 4th joints subequal in length, pedicellus broader than it is long, in the ♂ the 3rd joint compressed and shorter than the 4th one. (S. cupressi Rohwer).

California. Genus Susana Rohwer 1932.

20. Claws with a subapical tooth almost as long as the apical one.^{51, 128} The 2nd recurrent vein and the 2nd cubital cross-vein interstitial or almost so. Eyes elongated, their inner margins distinctly emarginated and converging downwards.³ Malar space hardly as long as half the diameter of an ocellus. Antennae short and stout, hardly tapering towards the apex. (Hemichroa phytophaga Dyar=Tenthredo obtusa Klug).

Nearctic, Mexico. Genus Craterocercus Rohwer 1911.

Claws with a small subapical tooth.^{43, 127} Eyes short oboval, their inner margins straight, parallel, and not emarginated.¹²⁴ The 2nd recurrent vein not inter-

	stitial. Pedicellus almost as long as scapus, but less thick; the 3rd antennal
	joint almost shorter than the 4th one. Clypeus. 100, 101
91	
21.	Malar space longer than the diameter of an ocellus. 125 (Tenthredo [Allantus]
	brevis Klug).
	Palaearctic, North Burma. Genus Hoplocampa Hartig 1837 (s.str.).
_	Malar space linear. 106, 123 (Macgillivraya oregonensis Ashmead).
	Nearctic. Genus Macgillivrayella Ashmead 1899.
0.0	(Macgillivraya Ashmead 1898 nec Forbes 1852).
22.	Claws with a subapical tooth nearly as long as the apical one. ^{50, 51} Clypeus
	deeply, roundly incised. 100, 110 Antennal joints 3 and 4 subequal in length; pedi-
	cellus broader than it is long. Basalis and the intercostal cross-vein not inter-
	stitial (in the front wings)
	Claws simple. Clypeus faintly subemarginated. 102 Antennae slender, filiform, 142B
	and the 3rd antennal joint shorter than the 4th one. Basalis and the inter-
	costal cross-vein interstitial. (Hoplocampa laricis Marlatt).
	New Hampshire in U.S.A. Genus Marlattia Ashmead 1898.
23.	The inner margins of the long eyes distinctly emarginated and converging
	downwards.3 Malar space hardly as long as half the diameter of an ocellus.114
	Antennae short and stout, hardly tapering towards the apex 20
-	The inner margins of the eyes parallel or with only a very faint indication of
	a subemargination. ¹² Malar space longer than the diameter of an ocellus.
	Antennae longer than abdomen and gradually tapering towards the apex.94
	(Tenthredo alni Linneus).
	Holarctic, Tonkin, Sikkim. Genus Hemichroa Stephens 1835.
	(Leptocerca Hartig 1837, Engages Gistel 1848, Varna Ross 1937).
24.	In the hind wings the anellan cell closed. In the front wings the anal cell
	contracted, mostly broadly, but sometimes shortly
_	Anellan cell not closed at the apex. Scapus and pedicellus broader than they
	are long. (Tenthredo xylostei Giraud).
	Central and North Europe. Genus Hoplocampoides Enslin 1914.
25.	The contraction of the anal cell mostly long, but sometimes punctiform and
	then rarely suggesting an extremely short, oblique cross-vein. 150 The 3rd cubital
	cell shorter than the 1st and 2nd ones combined. (If longer comp. nr. 156).
	The hind wings with one closed middle cell, in the 3 rarely with marginal
	vein. ¹⁷
_	The anal cell of the front wings with a closed basal cell thus suggesting the
	subfamily Blennocampinae 145 (the basal cell there not completely closed as
	the perpendicularly bent anal vein is obliterate close to brachium 146). The 3rd
	cubital cell distinctly longer than the two first ones combined. The inner mar-
	gins of the eyes faintly S-curved and distinctly converging downwards. Malar
	space linear. Postocellar area as long as it is broad and strongly convexly ele-
	vated. Strongly shining insect. (M. souza-lopesi Malaise).
	Southern Brazil. Genus Metaneura Malaise 1949.
26.	
	lobe. ^{59, 61}
_	Claws without basal lobe, simple or with only an indistinct minute tooth near
	the base. 41 Antennae stout and short; scapus and pedicellus both almost broa-
	der then they are long. The hind tarsi slender, their middle joints longer than
	they are broad at the apex. Venation of front wing. 150 (Selandria sodalis Cresson).
	Nearctic, Southern Brazil, (Chile?). Genus Lycaota Konow 1903.

27. — 28.	Claws tridentate at the apex. ⁵⁹ Head and thorax with long sparce hair. (From Chile)
	livray=Selandria spissipes Cresson var. t.). Nearctic. Genus Blennogeneris Macgillivray 1923. (Lycaotella Ross 1932).
_	The subapical tooth of the claws placed lateral of the longer apical one. ³⁴ Head strongly narrowing behind the eyes. Malar space as long as the diameter of an ocellus. (S. boliviensis Konow). Bolivia, Chile, Peru. Genus Synaptoneura Konow 1908.
29. —	$(Zarca \ \ Br\`ethes \ \ 1919 \ \ nec \ \ Cameron).$ In the front wings the anal cell without cross-vein. \$10, 99, 152 \ \ Anal cell with cross-vein. \$5, 6, 7, 11, 147, 151 \ \ 80
30.	The upper triangular part of each mesopleurum separated from the rest of it by a more or less distinct horizontal shallow furrow; this furrow branching off almost perpendicularly from the sharp presternal furrow. ⁷⁹ Short and stout insects. The hind orbits rounded and not carinated. ¹³⁹ The outer margin of each mandible roundly curved, but less than at a right angle. ⁶⁷ Malar space mostly longer than the diameter of an ocellus, but may be just a little shorter than so. Claws with a very short subapical tooth, but without basal lobe. ¹²⁷ Venation. ¹⁵² (Tenthredo serva Fabricius).
	Holarctic. Genus Selandria Leach 1817. (Coryna Lepeletier 1828 nec Bosc 1802, Brachythops Haliday in Curtis 1839, Paraselandria Ashmead 1898, Selandridea Rohwer 1911, Pseudoselandria Macgillivray 1914).
	Mesopleura without horizontal furrow; presterna present or wanting
32. —	Hind wings without marginal vein, but with 2 closed middle cells. ^{4, 6, 11} 33 Hind wings with a marginal vein only between the radiellan and the mediellan veins. ¹⁶ (<i>C. rosigenu</i> Enderlein).
33.	Mandibles with a subapical tooth or basal lobe. 66, 67, 68, 69
34.	labrum emarginated and strongly deflexed downwards. 113 (L. plaumanni Ma-
_	Southern Brazil. Genus labrina Malaise 1942. The anterior margin of clypeus roundly protruding more or less broadly and seems mostly to be somewhat incrassated owing to a faint deflection down-
	Enternal To Ana Ot II 9 t 106

	wards.112 The basal cubital bend mostly incrassated and frequently with a
95	short spurious stump directed basally. 141
35.	The anterior margin of labrum rounded. 112 (A. calvescens Enderlein).
_	Neotropical Region south of Panama. Genus Adiaclema Enderlein 1919.
	Labrum incised in the middle with broadly rounded lateral teeth. (Stromboceros tarsalis Konow).
	Southern Brazil. Genus Clemina Malaise 1942.
36.	Head distinctly carinated behind the eyes. 83, 143 Clypeus mostly transversally
00.	convex medially and the acutely edged anterior margin distinctly emarginated,
	mostly somewhat angularly. 115 Pedicellus longer than it is broad. Mandibles
	roundly bent, more or less close to a right angle and with a large subapical
	tooth or lobe near the base. 69 Claws compact, shorter than the slender apical
	tooth which is much longer than the basal lobe.44, 48 Basalis and the 1st recur-
	rent vein distinctly converging.10 The anellan cell in the hind wings mostly
	sessile. ¹⁵ Presterna strongly convex and separated from the rest of the meso-
	pleura by deep furrows.90
_	The hind orbits never carinated behind. 139, 144
37.	The subapical tooth of the claws replaced by a triangular basal lobe. 44 (Strom-
	boceros albilabris Konow).
	Bolivia, Ecuador, Columbia, Costa Rica, Mexico. Genus Goniocerus Malaise 1942. Claws with an erect subapical tooth before the basal lobe. 45, 48 (Stromboceros
_	[Eustromboceros] leucostomus Rohwer).
	Mexico, Costa Rica, Bolivia, Argentina.
	Genus Prostromboceros Rohwer 1912.
	(Peterseniana Jörgensen 1913).
38.	Mandibles roundly bent at almost a right angle and with a large subapical
	tooth or lobe near the base. 69, 122 The hind metatarsus mostly longer than the
	following tarsal joints combined. ¹⁵⁹ Basalis and the first-recurrent vein almost
	parallel. 141
	Mandibles roundly bent, but less than at a right angle. ⁶⁷ Clypeus subconvex, more rarely transversally (horizontally) refracted or convex; the anterior mar-
	gin truncate or subemarginate. 104
39.	Clypeus transversally (horizontally) convex; the anterior margin acutely edged
	and emarginated. 109 Presterna mostly strongly convex and separated from the
	mesopleura by deep furrows. ⁷⁹ Pedicellus at least twice as long as it is broad
	at the apex; antennae long and slender. Anellan cell in the hind wings petio-
	late.4,7 Cubitus only slightly bent at the base and without spurious stump in
	the front wings
_	Clypeus not transversally convex, its anterior margin incised but not edged. ¹¹¹
	Presterna hardly or not at all convex, and separated from the mesopleura by
	very fine furrows. ⁸⁹ Pedicellus as long as or only little longer than it is broad; flagellum somewhat incrassated in the middle. Claws without basal lobe, the
	subapical tooth almost as long as the apical one and placed behind it apically
	of the middle. ⁵¹ The cubital bend mostly with a short spurious stump directed
	basally. 141 In the hind wings the anellan cell sessile. 6, 15
40.	
	than the apical one.47 Flagellum of the antennae without whitish markings.
	Mandibles. 69 (Stromboceros trigemmis Konow).
	Mandibles. ⁶⁹ (Stromboceros trigemmis Konow). South Brazil, Paraguay, Bolivia, Amazonas. Genus Plaumanniana Malaise 1942.

 Claws short with a rather acute basal lobe, the apical and the subapical teeth mostly subequal in length.⁴⁶ Flagellum frequently partly white. (Stromboceros [Stromboceridea] pilosus Rohwer).

Central Amercia, Peru. Genus Stromboceridea Rohwer 1911.

(Caribia Malaise 1942).

41. Clypeus very deeply and broadly, semicircularly incised and with protruding lateral teeth ¹¹⁰ apical half of labrum concavely depressed, the basal half with a convexity shaped as a crescent. The subapical tooth of the claws longer than the apical one.⁵² Malar space shorter than half the diameter of an ocellus. The pale markings not lilac-coloured. (Stromboceros opiparus Konow). South Brazil.
Genus Arcoclypea Malaise 1942.

— Clypeus only shallowly incised without protruding lateral teeth.¹¹¹ Labrum convex. The subapical tooth of the claws somewhat shorter than the apical one.⁸⁶ Malar space as long as, or longer than half the diameter of an ocellus. The pale markings lilac-coloured, but may turn entirely sordid whitish. (L. carinifrons Malaise).

Central and South America.

Genus Liliacina Malaise 1942.

- 42. Pedicellus almost disk-like,⁹⁶ at least twice as broad as it is long; flagellum of the antennae extremly stout, almost uniformly thick, not compressed, and the middle joints only twice as long as they are broad. Claws without basal lobe, with a long and slender apical tooth and a minute subapical one just basally of the middle.⁵³ Presterna rather indistinctly separated from the mesopleura by a very fine and almost furrow-like seam.⁸⁹ Clypeus flat, the anterior margin truncate. Malar space shorter than half the diameter of an ocellus. Cubitus and the 1st recurrent vein converging. (Stromboceros melanopterus Rohwer). Mexico, Arizona.
 Genus Eustromboceros Rohwer 1911.
- Pedicellus rarely shorter, but mostly longer than it is broad; flagellum slender, the middle joints more than three times as long as they are thick.⁹³ 43
- 43. The distance between the eyes below longer than one eye, as 4:3; the inner margins of the small eyes straight and hardly converging. 142A Malar space as long as pedicellus, this latter conical and about as long as it is broad at the apex, or faintly shorter; flagellum stoutly filiform. Clypeus subconvex, the anterior margin rather narrowly, quatercircularly incised. Head narrowing behind the eyes and covered by long and dens hair. The very poorly defined frontal area on the same level (tangent) with the eyes. Presterna distinctly separated, subconvex. Claws without basal lobe, but with a long subapical tooth. Cubitus angularly bend at the base; the 3rd cubital cell one third longer on cubitus than on radius. (T. nigrita Strand).

Ecuador. Genus Tioloma Strand 1910.

— Distance between the eyes below shorter, or subequal to the length of an eye. 44

44. Clypeus with a rugose, roundly elevated, and rather sharp transversal carina running close to the faintly emarginated anterior margin; base of clypeus rather flat and less rugose. ¹⁰⁷ Malar space as long as the diameter of an ocellus. The inner margins of the eyes extremely faintly S-shaped, parallel in the middle. Mesopleural episterna appears as if triangularly incised by addition of the broadly triangular and completely fused presterna; the lower margin of these presterna entering the anterior margin of the mesopleura at an angle of about 60°. ⁸⁸ Claws without basal lobe, the subapical tooth almost longer than the apical one. ⁶⁴ The hind basitarsus longer than the following tarsal joints combined. Antennae longer than abdomen; flagellum gradually tapering

towards both ends; the 3rd and 4th joints subequal in length; all flagellar joints except the last one at the apex with a minute, acute tooth on the under side; pedicellus longer than broad, as long as the main part of scapus. Cubitus angulate at the base; the 3rd cubital cell subequal in length to the 1st and 2nd combined, and the 3rd cubital cross-vein straight. The anellan cell sessile.

	(Waldheimia orbignyana Brullé).
	Bolivia. Genus Brulléana Malaise 1954.
_	Clypeus subconvex. 104
45.	Claws rather short, with one subapical tooth and a basal lobe, the latter mostly rather difficult to see. ⁵⁴ Presternal furrows indistinctly separating the broadly
	triangular presterna.89
_	Claws without basal lobe
46.	Malar space linear. The inner margins of the eyes strongly converging downwards. (I. pusilla Malaise).
	Costa Rica. Genus Inea Malaise 1942.
_	Malar space as long as the diameter of an ocellus. The inner margins of the eyes very faintly converging downwards, almost subparallel. ¹²⁵ (Anapeptamena
	nitida Strand). Ecuador (2840 m). Genus Neoanapeptamena Strand 1910.
17	Ecuador (2840 m). Genus Neoanapeptamena Strand 1910. Claws slender, simple, or with an erect subapical tooth much shorter than the
47.	apical one and removed from it.53
_	Claws cleft, the subapical tooth may be just a little longer or shorter than the apical one. ⁵¹
48.	Mesopleura seem very broadly and deeply triangularly incised anteriorly be-
10.	cause the large, equilateral, triangular presterna completely fused together with
	the mesopleura without separating furrow on the surface; subcutaneously the
	separating limit visible if the colour is pale.88 The subapical tooth of the
	mandibles removed from the apex.68 Basalis and the 1st recurrent vein con-
	verging. Anellan cell mostly sessile. (R. amazonica Forsius).
	Amazonas, Bolivia, S. Brazil, Ecuador, Paraguay, Peru.
	Genus Romaniola Forsius 1925.
_	Presterna of a normally elongated triangular form and rather indistinctly sepa-
	rated; 89 mesopleura accordingly normal. Flagellum mostly tapering from the
	middle, rarely filiform. Frontal area with rather distinct ridges. Malar space
	linear in the δ
49.	The subapical tooth of the mandibles removed from the long and slender apical
	one into the basal half of the mandible.66 Head very strongly narrowing behind
	the eyes. 144 (Stromboceros absonus Konow).
	Bolivia, Ecuador, South Brazil. Genus Bolivius Malaise 1942.
_	The subapical tooth of the mandibles placed near to the apex. ⁶⁷ Head only
	very faintly narrowing behind the eyes. (Stromboceros farctus Konow).
	Ecuador, Peru, Boliva, South Brazil. Genus Andeana Malaise 1942.
50.	
	the diameter of an ocellus. Inner margins of the eyes straight and parallel. 124
	Clypeus hardly subconvex, the anterior margin truncate. 123 Antennae gradu-
	ally tapering, as long as thorax and abdomen combined. The subapical tooth
	of the claws longer than the apical one. ⁵² Presterna distinctly convex and
	separated from the mesopleura by deep furrows. 90 The 3rd cubital cell rectan-
	gular, longer than the 1st and 2nd combined. (Stromboceros nigripennis Konow). Ecuador. Genus Belea Malaise 1942.
Enton	nol. Ts. Årg. 84. H. 3-4, 1963

- The sides of labrum roundly curved. 104, 123 Mandibles. 67 Malar space hardly as long as half the diameter of an ocellus in the ♀, linear in the ♂. Antennae shorter than the body proper, mostly as long as the abdome. The inner margins of the eyes more or less distinctly converging downwards. 131 The subapical tooth of the claws shorter than the apical one. 128 Presterna rarely somewhat convex, mostly only visible as separated by a fine seam. 89 The 3rd cubital cell mostly shorter than the two basal ones combined. Clypeus variable, the anterior margin truncate or roundly protruding. 76 (D. albisignata Enderlein). South Brazil, Peru. Genus Dochmioglene Enderlein 1919.

- 53. The scutellar appendage not differentiated or very narrow. In the front wings the short anal cross-vein situated at the very middle of the cell. Labrum narrow and triangular. Antennae filiform, slightly serrated. Short and robust insects.
- Scutellar appendage as long as scutellum. Cross-vein of the anal cell long, oblique, and placed distinctly apically of the middle.⁷⁵ Front wings distinctly longer than the total length of the slender body. Labrum narrow with broadly rounded apex. Antennae slender, filiform, longer than head and thorax combined. Claws with a minute subapical tooth near the base. Postocellar area convex, broader than it is long, and with a median furrow anteriorly. (R. longipennis Takeuchi).

Japan. Genus Rocalia Takeuchi 1952.

- 54. Anal cell with a very short perpendicular cross-vein. Antennae stout; pedicellus about as long as it is wide. (Selandria nova Norton).
 Nearctic. Genus Adelesta Ross 1937.
- Anal cell with an oblique cross-vein.¹⁴⁰ Antennae slender; pedicellus longer than it is wide. Mouth-parts (maxillo-labial complex) produced into an elongated proboscis.¹³⁸ Propodeum (1st tergite) deeply and broadly emarginated so that the middle portion becomes very short, almost linear; the cutaneous blotch accordingly large. (N. mirabilis Takeuchi).
 Japan.
 Genus Nipponorhynchus Takeuchi 1941.

- 55. The anterior margin of clypeus narrowly, roundly incised in the middle.¹⁰⁰ Presterna extremely narrow, almost linear. The large subapical tooth of the claws sometimes as long as the apical one.⁵¹ Abdomen subcylindric, twice as long as thorax or longer. The broadly flattened lateral lobes of the saw-sheath almost ear-sharped.⁷⁴ (*Tenthredo cingulata* Fabricius).
- Holarctic. Genus Strongylogaster Dahlbom 1835.
 Clypeus truncate or faintly angularly emarginated. 136 Presterna of distinct width. Claws simple or with a minute subapical tooth. 41 Abdomen normal. The lateral lobes of the saw-sheath long or short in dorsal view, but not ear-shaped. 119, 129 (T. contiqua Konow).
- Mandibles roundly bent, but much less than at a right angle.^{67, 68, 123}..... 62
 57. The basal lobe of the mandibles large, but with only one acute tooth or corner.¹²² Head not prolonged behind the eyes, the postocellar area accordingly broader than it is long, or it is subquadrate.¹³⁹ The apical tooth of the claws strong, and mostly longer than the subapical one.^{24, 37} The bend of the cubital

- The large basal lobe of the mandibles with 2 or 3 acute teeth.¹²¹ The upper orbita or temples prolonged; the postocellar area longer than it is broad. The subapical tooth of the claws much longer than the more slender apical one and is placed apically of the middle.³³ Cubital vein angularly broken at the extreme base and there with a spurious stump.¹⁴¹ Scutellar appendage reduced to a narrow bordure. The anterior margin of clypeus emarginated.¹²¹ Malar space linear. (I. versicolor Malaise).
- Clypeus subconvexly bent from side to side; the anterior margin truncate and not acute.¹²² Antennae filiform; pedicellus twice as long as it is broad, almost as long as scapus. Frontal area indistinct. Basalis and the 1st recurrent vein strongly converging.¹⁰ Claws.³⁷ Small insects, 5 mm long. (A. albipes Konow). Assam (Khasi Hills), Burma-Yünnan frontier.

Genus Anapeptamena Konow 1898.

- 59. Pedicellus broader than it is long; scapus rounded, with strongly constricted base. The subapical tooth of the claws subequally long with the apical one and placed close to and somewhat lateral of it, most pronounced in the ♂.²⁴ Basalis curved and strongly convergent with the 1st recurrent vein.⁴ The hind orbits carinated only near the mandibular base. (D. sino-birmana Malaise). Burma-Yünnan frontier. Genus Duplunguis Malaise 1944.
- Pedicellus distinctly, mostly one half longer than it is broad.⁹³ The subapical tooth of the claws placed behind the apical one, removed from, and mostly distinctly shorter than it.^{38, 41} Basalis meets subcosta removed from the base

- 60. The subapical tooth of the claws only little shorter than the apical one.³⁸ The hind orbits carinated from below half way up. Basalis almost straight, and subparallel with the 1st recurrent vein.⁹⁹ Insects of meduim size. 61
- The subapical tooth of the claws extremely short, almost wanting.⁴¹ The hind orbits not carinated. Basalis faintly curved and distinctly converging with the 1st recurrent vein.¹⁰ The hind metatarsus shorter than the remaining tarsal joints combined. Malar space almost as long as the diameter of an ocellus. In the ♂, the filiform antennae appear sparsely serrated below owing to a haired tooth at the apex of the 4 last joints; ⁹⁴ the 3rd and 4th joints subequal in length. Small insects. (C. nana Malaise).

Burma-Yünnan frontier. Genus Concavicornia Malaise 1944.

- 61. The hind metatarsus distinctly longer than the following tarsal joints combined. In the ♂ only, the flagellar antennal joints at the apex with projecting tufts of hair directed medially and suggesting teeth.^{93, 94, 95} (Stromboceros sikkimensis Malaise).
- Sikkim, Java, Burma-Yünnan frontier. Genus Denticornia Malaise 1944.
 Flagellar joints without projecting tufts of hair. The hind metatarsus subequal in length with the following tarsal joints combined. (E. birmana Malaise).
- Claws without basal lobe and the subapical tooth larger than the apical one and placed somewhat lateral of it.³² Clypeus subconvex, the anterior margin of it and of labrum truncate or subemarginate.¹⁰⁴ Head strongly narrowing behind the eyes and carinated.¹⁴³ The inner margins of the eyes faintly converging downwards. Malar space of distinct length. Antennae faintly incrassated towards the middle; pedicellus distinctly longer than it is broad at the apex. Presterna distinct. The hind metatarsus only little longer than the following tarsal joints combined.¹⁵⁹ Body and wings elongate. Cubitus bent at the extreme apex and there with a distinct spurious stump.¹⁴¹ (Stromboceridea jacobsoni Forsius).
 - Sumatra. Genus Euforsius Malaise 1944.
- 63. Claws both with basal lobe and a large subapical tooth that is mostly longer than the apical one and placed more or less lateral of it.²¹ 64
- 64. The basal lobe of the mandibles with 2 distinct teeth.¹²¹ Presterna separated from the mesopleura only subcutaneously. The subapical tooth of the claws almost straight behind the apical one.¹⁹ The cross-vein of the radial cell distally concavely bent.^{147, 149} The straight basal and the 1st recurrent veins distinctly converging. In the hind wings the discoidellan (2nd) middle cell considerably (one half) longer than the cubitellan (1st) middle cell.¹³⁰ Frontal area depressed, not reaching a level between the eyes. The anterior margin of clypeus shallowly incised. (Stromboceros pictipennis Konow).
 - Western Borneo. Genus Bornea Malaise 1944.
- The basal lobe of the mandibles with only one acute tooth.⁶⁹ Presterna separated by a distinct furrow. The subapical tooth of the claws mostly placed

distinctly lateral behind the apical one.^{20, 21, 22} Antennal flagellum subincrassated in the middle; pedicellus longer or shorter than it is broad at the apex. Basalis and the 1st recurrent vein almost parallel. The radial cross-vein distal convexely curved.¹⁰ The discoidellan (2nd) middle cell not, or only inconsiderably longer than the cubitellan (1st) one. Frontal area, at least above the antennal base, elevated above a tangent touching both eyes. Clypeus truncate or shallowly emarginated. Sinus sexualis sometimes present.⁷⁸ (N. metallicus Rohwer).

Peninsular- and Further India, Insulinde, the Philippines, South China, Formosa.

Genus Neostromboceros Rohwer 1912.
(Stypoza Enderlein 1919).

- 66. Basalis strongly bent and also strongly converging with the 1st recurrent vein.¹⁴⁸ Claws without visible subapical tooth even at an enlarging magnitude of 100; the large basal lobe undivided.²⁷ Frontal area completely surrounded by extremely acute carinas; ⁸³ the face angularly refracted downwards along the lower of these carinas and the cross-carinas from the area to each eye. Clypeus subconvex. The inner margins of the eyes subparallel.¹²⁴ The hind metatarsus as long as the following tarsal joints combined.¹⁵⁹ The anellan cell sessile. (A. shanibia Malaise).

Japan, Burma, Formosa. Genus Abusarbia Malaise 1944.

- 67. The subapical tooth of the mandibles placed laterally of and very closely to the apical one. 133 The antennal flagellum evenly and stoutly filiform, short. Clypeus flat. 102 Frontal area convex, indistinctly limited. 131 Nervellus attains the apex of the sessile anellan cell. Claws. 28 (Strongylogaster konowi Jakowlew). European Russia and Ussuri.

Genus Alphostromboceros Kuznezow-Ugamski 1928.

- 68. In the hind wings the 1st cubitellan cross-vein originates from the radiellan vein, as a consequence the 1st closed middle cell is surpressed basally by the radiellan cell itself; the anellan cell petiolate. The frontal area surrounded by rather sharply elevated ridges. Clypeus convex. Antennae faintly incrassated before the apex. Claws. (Tenthredo delicatula Fallén).

Palaearctic.

Genus Stombocerina Malaise 1942.

(Stromboceros Konow 1885 nec Gemminger & Harold 1871).

- The 1st cubitellan cross-vein originates from subcostella, the 1st closed middle cell accordingly reaching further basally than the radiellan cell; ⁹⁹ the anellan cell sessile. ⁹⁹ Frontal area unsharply outlined. Clypeus rather flat. Antennae of uniform thickness, hardly as long as head and thorax combined. (Stromboceros filicis Malaise).
 - Siberia (Ussuri), Sachalin, Corea, Japan.

Genus Parastromboceros Takeuchi 1941.

- Claws without basal lobe, if one is faintly indicated, then it is only rounded at the apex.³⁹ Presterna, and mostly also a frontal area at least indicated. . . 71
- 70. Mesopleura without presterna. Frontal area not limited. The basal vein strongly curved and strongly converging with the 1st recurrent vein. 148 Clypeus convex, its anterior margin mostly truncate. 123 Antennal flagellum filiform; 142B pedicellus twice as long as it is broad at the apex and almost as long as the main part of scapus, but is more slender. The anellan cell petiolate. The basal lobe of the mandibles without infundibular pit (comp. nr. 71). (Paraselandria imitatrix Ashmead).
 - Peninsular and Further India, Ceylon, Indonesia, Formosa, the Pilippines, Japan, Corea. Genus Nesoselandria Rohwer 1910.
- (Neobusarbia Takeuchi 1928, Anapeptamena auct. nec Konow).

 Mesopleura with distinctly separated presterna. Frontal area oval in outline and completely surrounded by very acute ridges. The hind orbits more or less distinctly carinated. The basal vein almost straight and very faintly converging with the 1st recurrent vein. The anellan cell sessile. Clypeus horizontally convexly bent, its anterior margin faintly subemarginated. Flagellum very faintly incrassated, almost stoutly filiform; pedicellus almost as long as the main part of scapus and one half longer than it is broad at the apex. The basal lobe of the mandibles with an only shallow minute pit, that may be entirely wanting. (Stromboceros sinensis Forsius).
 - China (Kiangsu), Japan. Genus Kulia Malaise 1944.
- 71. The basal lobe of the mandibles with a deep, infundibuliform pit.⁸² The anellan cell sessile.¹⁵ The basal vein hardly or only faintly curved. Both the apical and the subapical tooth of the claws slender.³⁹ Flagellum mostly short, and more or less stoutly filiform.
- 72. Head distinctly carinated behind the eyes.^{83, 143} Frontal area distinct. The inner margins of the eyes distinctly converging downwards.¹³³ Presterna convex, separated from the mesopleura by deep and mostly sharp furrows.⁹⁰ The hind metatarsus much shorter than the following tarsal joints combined.¹⁵⁸ The basal vein hardly bent and mostly subparallel with the 1st recurrent vein.¹⁴⁰ 73
- 73. The outer side of the mandibles roundly bent, distinctly less than at a right angle. Laws with slender subapical tooth. Emphytus coronatus Klug). Holarctic, Indomalayan. Genus A n e u g m e n u s Hartig 1837.

(Colposelandria Enslin 1912, Polyselandria Macgillivray 1914, Selandropha Zirngieble 1956).

- Mandibles bent at an almost right angle. 121 Claws simple. (Selandria fürstenbergensis Konow).
 - Central Europe, Finland, Sweden. Genus Atoposelandria Enslin 1913.
- 74. The hind metatarsus as long as, or longer than the following tarsal joints combined.¹⁵⁹ Claws short, the subapical tooth seems to originate from the slope of an indistinct basal lobe.30 The inner margins of the eyes faintly S-curved, and almost parallel in the middle. 133 Presterna mostly separated from the mesopleura only by fine and very indistinct furrows. Basalis and the 1st recurrent vein rather strongly convergent. 10 Clypeus and labrum flattened, the anterior margin of the former roundly emarginated, 102 the latter rounded and rather acute, not deflexed. 109 Each mesopleurum with a pale spot. (N. javana Enslin).

Java, Sumatra, Tonkin, Formosa, New Guinea (Central mountains).

Genus Neothrinax Enslin 1912.

The hind metatarsus much shorter than the following tarsal joints combined. 158 Claws longish; the subapical tooth somewhat basally of the middle.40 The inner margins of the eyes almost straight and rather strongly converging downwards. 129 The presternal furrows distinct, but not deep. Basalis and the 1st recurrent vein subparallel. The anterior margin of clypeus acute and almost truncate; that of labrum deflexed downwards and seems accordingly incrassated. (Stromboceros atratus Enslin).

Genus Pseudostromboceros Takeuchi 1941. Formosa.

(Formosibia Malaise 1944).

- 75. Antennal flagellum long and slender, almost filiform, 142B or somewhat incrassated in the middle.97 Malar space of distinct length. Pedicellus twice as long as it is broad at the apex. The lateral supra-antennal pits connected with
- Flagellum short, inconsiderably longer than head and thorax combined; 93 if longer, then they are compressed and strongly incrassated towards the middle. Pedicellus one half longer than it is broad at the apex, if not differently stated. The lateral supra-antennal pits completely separated from the antennal
- 76. The inner margins of the eyes straight and quite parallel.¹²⁴ Frontal area surrounded by carinas acute as the edge of a knife,83 and similar cross-ridges extending laterally from it almost to each eye; the face angularly refracted from these cross-ridges. Basalis strongly converging with the 1st recurrent vein. 40 Anellan cell petiolate. The 3rd antennal joint subequal in length with, or somewhat shorter than the 4th one. The supra-antennal pits poorly developed owing to the cross-ridges and the wanting supra-antennal tubercles. Scapus pale, and likewise a spot on each mesopleurum. Claws. 36 (B. viridipes Cameron).

Assam, Burma, Formosa. Genus Busarbia Cameron 1899. (Anapeptamena Rohwer and Takeuchi nec Konow).

- The inner margins of the eyes distinctly converging downwards. Face not refracted and acute cross-ridges wanting; the frontal area without surrounding ridges, or the ridges are not acute. 129 77
- 77. The anterior margin of clypeus roundly incised. 103 Labrum concavely depressed towards the apex.110 Frontal area sharply limited. The supra-antennal pit very large and deep, and the carina shaped tubercles lateral of it fused together with the frontal ridges.125 The hind orbits sharply carinated up to the posto-

cellar area.¹⁴³ Basalis and the 1st recurrent vein subparallel. Anellan cell petiolate. Flagellum somewhat incrassated in the middle. (*Stromboceros koebele* Rohwer).

Japan, Sachalin. Genus Arbusia Malaise 1944.

— Clypeus truncate or faintly subemarginated.¹²¹ Frontal area U-shaped in outline, as a raised flat area, distinctly defined, but not by ridges.¹³³ The middle supra-antennal pit very shallow and indistinct, laterally not defined by tubercles; the lateral pits connected with the antennal sockets by shallow and indistinct antennal furrows. The hind orbits carinated only below. Flagellum filiform.^{142B} The anellan cell either sessile or shortly petiolate.¹³⁴ Small insects. (A. birmanica Malaise).

Burma-Yünnan frontier. Genus Apeptamena Malaise 1944.

Malar space linear. Front wings with 4 cubital cells. (C. shanensis Malaise).

Burmese Southern Shan States. Genus Claguea Malaise 1944.

79. Flagellum short and filiform, hardly tapering towards the apex. Anellan cell

petiolate. The inner margins of the eyes distinctly converging downwards even in the middle. Frontal area rather distinct in outline. Mandibles not strongly bent. Small stout, shining insects. (Tenthredo [Allantus] cinereipes Klug). Palaearctic. Genus Melisandra Benson 1939.

(Birka Malaise 1944).

— Antennae longer by one fifth than head and thorax combined, compressed, and strongly tapering towards the apex. The faintly S-curved inner margins of the eyes parallel in the middle. Frontal area not or only indistinctly limited. At least scutellum punctured. The basal bend of cubitus mostly with a short spurious stump.¹⁴¹ Anellan cell sessile. Claws.³¹ (Stromboceros phaleratus Konow).

Burma, China.

Genus Bocerus Malaise 1944.

- 80. Antennae very stout, the joints 4—8 triangularly protruding beneath, and the antennae seems accordingly plumply serrated beneath.¹⁵⁴ In the front wings, the 3rd cubital cell very long and the anal cross-vein almost punctiform; the hind wings may have one or two closed middle cells. Claws simple. The hind metatarsus much shorter than the following tarsal joints combined.¹⁵⁸ Strongly metallic blue insects. (S. roepkei Enslin).

- one or two closed middle cells; ¹⁵ in the δ frequently with marginal vein. ^{16, 17} 82 82. The subapical tooth or the basal lobe of the claws shorter than the apical

83.	Claws without subapical tooth, but the protruding basal lobe may be mistaken
	for one. ^{25, 44} Mandibles subsymmetric, each of them tridentate. ¹⁰⁸ 86
	The subapical tooth at the middle of the claws, thus removed from the
-	base. ⁷⁰
84.	Malar space linear. 106, 131
_	Malar space about as long as the diameter of an ocellus. ¹² Body very slender.
	The extreme base of cubitus roundly bent. The hind wings with 2 closed middle
	cells and sessile anellan cell.6 Presterna distinct. Antennae long and gradually
	tapering towards the apex, distinctly compressed; the 3rd joint shorter than the
	4th one; pedicellus broader than it is long. Frontal area surrounded by
0.5	The state of the s
85.	Front wings with 4 cubital cells. Scutellum with isolated, deep punctures on
	the hind apex laterally. (C. albooralis Malaise).
	Burma-Yünnan frontier at 2000 m Genus Canonarea Malaise 1947.
_	Front wings with only 3 cubital cells, the 1st cubital cross-vein wanting. Scu-
	tellum impunctate. (T. compressicornis Malaise).
	Burma-Yünnan frontier. Genus Trearea Malaise 1947.
86.	Narrow but distinct presterna separated from the mesopleura. Pedicellus
00.	longer than scapus. 155 Malar space linear. In the front wings the 2nd recur-
	rent vein straight, ¹⁴⁸ in the hind wings the anellan cell sessile and one or two
	closed middle cells may occur or be entirely wanting in the same species; in
	the δ , the hind wings sometimes with marginal vein. (C. sebetia O. Costa=
	Tenthredo [Allantus] cinxia Klug).
	Cosmopolite (from Europe), Burma, China, Japan.
	Genus Caliroa O. Costa 1859.
	(Eriocampoides Konow 1890, Periclistoptera Ashmead 1898).
_	Presterna wanting. Pedicellus shorter than scapus. Malar space almost as long
	as the diameter of an ocellus. 108 Clypeus truncate. The 2nd recurrent vein
	S-curved. 149 The anellan cell petiolate
87.	Claws with a subapical tooth. 43 Head narrowing behind the eyes. 143 The hind
0	wings with one closed middle cell and the radiellan cell with a faint indica-
	tion of an appendiculate cell at the apex.8 (Selandria rosae Harris=Tenthredo
	aethiops Fabricius).
	Holarctic. Genus Endelomyia Ashmead 1898.
_	Claws with a large triangular basal lobe. 35 Head somewhat enlarged behind the
	eyes. 139 The hind wings without closed middle cell, and the radiellan cell acute
	at the apex. ⁷ (A. carbonaria Malaise).
	Tonkin. Genus Arla Malaise 1957.
88.	Basalis joins subcosta a distance from the origin of cubitus that is shorter
	than the length of nervulus; 14 if subequal in length, then the insect is metallic
	blue
	Basalis removed from the origin of cubitus about as far as the length of ner-
	vulus, is strongly curved, and strongly converging with the 1st recurrent
	vein; the cross-vein of the anal cell joins brachium at an angle of 60°—70°.
	The hind wings with 2 closed middle cells. The general direction of the inner
	margins of the eyes distinctly converging downwards. The hind orbits not
	carinated. 139 Frontal area not defined although convexely elevated. 142A Clypeus
	the god of the district and the state of the

truncate. The 3rd antennal joint almost twice as long as the 4th one. Claws with a large subapical tooth. 62 (B. albipes Malaise).

Genus Birmindia Malaise 1947.

89.	Elongate, 8—9 mm long insects. The inner margins of the eyes almost straight, extremely faintly converging downwards. The cross-vein of the anal cell not strongly oblique, joins the brachium at an angle of about 70°. The hind wings with 2 closed middle cells in both sexes. Antennae with antennal organs; scapus distinctly longer and broader than pedicellus; the 3rd antennal joint longer than the 4th one. Clypeus emarginated anteriorly. (Rohweria flavipennis Moleice)
	Malaise).
	Mexico. Genus Rohwerina new name.
	(Rohweria Malaise 1935 nec Fouts 1925).
	Plump insects, 3—6 mm long. The general direction of the inner margins of the eyes parallel in their upper part. Asiatic or Indo-Malayan insects 90
90.	Pedicellus as long as or longer than scapus. The anterior margin of clypeus roundly incised. Claws 26, 45
	Pedicellus distinctly shorter than scapus. Clypeus roundly truncate. 76 The
	inner margins of the eyes parallel above, converging towards the mouthparts
	below. The cross-vein of the anal cell joins brachium at an angle of about 60°.
	Colour without metallic lustre. (P. athalioides Konow).
	Siberia, Manchuria, Japan. Genus Poppia Konow 1904.
91.	, , , , , , , , , , , , , , , , , , ,
	parallel. ¹²⁴ The anal cell with almost perpendicular cross-vein; the hind wings
	with 2 closed middle cells. ¹¹ Frontal area distinct in outline. Colour without
	metallic lustre. Claws. 45 (B. himalaiensis Rohwer).
	The Himalayas, Sumatra, Java, Formosa, Vladivostok.
	Genus Busarbidea Rohwer 1915.
	(Canoniades Forsius 1929).
_	The hind orbits carinated only below; on the other hand, just along the hind
	margins of the eyes a furrow composed of connected punctures; the inner
	margins of the eyes very faintly converging downwards. ¹³¹ The cross-vein of
	the anal cell joins brachium at an angle of about 40° . In the δ , the hind
	wings with marginal vein. ¹⁷ Frontal area not defined. ¹²⁶ Distinctly metallic
	blue insects. Claws. ²⁶ (N. metallica Rohwer).
	Java, Sumatra. Genus Neopoppia Rohwer 1912.
	(Pseudopoppia Forsius 1925).
92.	
_	The hind wings without closed middle cells. ⁷
93.	Claws tridentate 59, 84 (one apical and two subapical teeth close together) and,
	in addition, sometimes a broad basal lobe. Malar space linear or wanting. 94
	Claws with or without subapical tooth, but not tridentate. ^{22, 31, 41} 97
94.	
<i>9</i> 4.	Only the claws of the hind legs tridentate and only in the 3 , 84 in the 3 all, 85
	and in the \circlearrowleft the claws of the 4 anterior legs with acute-angeled basal lobe
	and in addition a subapical tooth behind the longer apical one. In the δ ,
	the hind wings with ¹⁷ or without marginal vein and without closed middle
	cell. ⁷ The 3rd antennal joint distinctly longer than the 4th one; pedicellus as
0-	long as, or almost longer than scapus. Clypeus truncate
95.	The hind wings with marginal vein in the $\mathring{\mathcal{O}}$; 17 the $\mathring{\mathcal{O}}$ either unknown or with

	Head and thorax without strikingly long hair. The 3rd antennal joint more or less distinctly shorter than the 4th one; pedicellus twice as long as it is broad at the apex; antennae with antennal organs. Stigma of the front wings very narrow and gradually drawn out into an acute apex. The hind metatarsus almost longer than the following tarsal joints combined and somewhat flattened. (A. decora Konow).
	Southern Brazil, Peru. Genus Acidiophora Konow 1899.
96.	Clypeus truncate. The inner margins of the eyes subparallel. ¹²⁴ Mandibles long
	and slender. Pedicellus longer than scapus. Scutellum with some separate large
	punctures. \mathcal{P} unknown. (T. reedi Rohwer).
	Chile. Genus Trichotaxonus Rohwer 1910.
	Anterior margin of clypeus triangularly incised in the middle. The inner mar-
	gins of the eyes converging downwards. Antennae short and stout. Presterna
	wanting. The postocellar area strongly convex. Scutellum impunctate. Man-
	dibles subsymmetric, not specially slender, and the basal lobe with two blunt
97.	teeth
_	The hind wings without marginal vein in the δ . ¹⁷ In the front wings the anal cell
	with strongly oblique cross-vein. ⁷ Presterna wanting
98.	In the hind wings of the δ a small triangular middle cell comes into existence
	between the marginal vein, the mediellan vein, and nervellus; it is removed
	from the petiolate anellan cell. In the front wings the cross-vein of the anal
	cell is very long, strongly oblique, and placed distal of the middle. ^{5, 14} Post-
	scutellum very large, only twice as large as it is long in both sexes. From
	Chile
	No small triangular middle cell separated by nervellus and the marginal vein
99.	The anterior margin of clypeus extremely deeply and broadly, semi-circularly
	incised; 12, 105 clypeus sometimes much shorter in the middle than the length
	of its lateral teeth. 110 The long cross-vein of the anal cell placed apically of
	the middle. 14 The hind orbits long. Malar space of distinct length 140
	Clypeus almost truncate, in the middle with an hardly discernible triangular
	incision. 136 The cross-vein of the anal cell extremely short and placed basally
	of the middle.147 The hind orbits very short and strongly narrowing back-
	wards. 144 Malar space linear. Claws without basal lobe, the subapical tooth
	as long as the apical one and placed behind it. ⁶⁴ Antennae faintly incrassated in the middle; pedicellus longer than it is broad and almost as long as scapus.
	(Ch. xantha Benson).
	Australia (N.S.W.). Genus Cheilophleps Benson 1938.
100.	The basal vein joins subcosta removed from the origin of cubitus a distance
200.	subequal to the length of the 1st existing cubital cross-vein. ⁴ The cross-vein
	of the anal cell not strongly oblique. ¹¹ Mandibles asymmetric, the left one
	with a broad basal lobe, the right one sickel-shaped. 12, 72, 126, 160
_	The basal vein joins subcosta at, or close to the origin of cubitus. 134 103
101.	The front wings with only 3 cubital cells (the 1st cubital cross-vein want-
	ing).98, 132, 151 Body long and slender. Antennae long and slender, faintly in-
	crassated before the apex; pedicellus longer than it is broad at the apex. The
	outer margin of the mandibles bent at a right angle; ⁶⁹ the right mandible quite simple. ¹² The distance between the blunt lateral teeth of clypeus at least twice
	as long as the depth of the incision. 103, 106
	as long as the depth of the meision.

— Front wings with 4 cubital cells. Body plump. Pedicellus much broader than it is long.⁹⁶ The outer margin of the mandibles roundly bent, but less than a right angle; the right mandible with a small distinct basal tooth. The distance between the long, pricker-shaped lateral teeth of clypeus only on half longer than the depth of the incision. The stout antennae as long as head and thorax combined and gradually tapering towards the apex. Claws with a minute subapical tooth near the apex. (Dinax jakowleffi Konow).

Genus Adamas Malaise 1945. (Dinax Konow 1897 nec Gistl 1848).

102. Abdomen more or less strongly constricted at the 2nd tergite. Mesopleura strongly and coarsely punctured. The subapical tooth of the claws shorter than the apical one.⁶² The apex of the front wings mostly strikingly infuscated around the cubital vein and the entire insect mimicrying a small vespidae both in appearance and behavior. (A. klugii Burmeister).

North- and Further India, Indonesia, South China, Formosa, The Pilippines.

Genus Athlophorus Burmeister 1847.

(Emphytoides Konow 1898).

- Abdomen not constricted, but extremely slender. Head and thorax impunctate.
 The subapical tooth of the claws much longer than the apical one.²¹ Wings not infuscated. (Athlophorus formosanus Enslin).
- Formosa, Burma. Genus He mathlophorus Malaise 1945.

 103. In the hind wings nervellus perpendicular to the mediellan vein and mostly also to the petiole of the always petiolate anellan cell. 4, 11 Claws with a sub-
- 104. Malar space almost twice as long as the diameter of an ocellus.¹²⁵ The abdominal tergites with whitish, cutaneous, paired spots.¹⁵³ The subapical tooth of the claws minute, almost inconspicuous.⁴¹ The 3rd cubital cell one half longer than the 2nd one. (Strongylogaster multicolour Norton).

Holarctic. Genus Parataxonus Macgillivray 1908. (Leucempria Enslin 1913).

- Malar space as long as the diameter of an ocellus or shorter.¹³³ The abdominal tergites without paired cutaneous spots. If 4 cubital cells are present, the 3rd one is almost shorter then the 2nd one. Antennae stout, hardly longer than head and thorax combined; flagellum subincrassated towards the middle. 105
- The front wings with only 3 cubital cells, e.g. the 1st cubital cross-vein wanting. The acute anterior margin of clypeus truncate in the middle, and with acutely angled lateral teeth.¹³³ Head faintly carinated behind almost up to the postocellar area. Antennae stout, as long as abdomen, with antennal organs. Nervellus curved, oblique towards the anellan petiole, but almost perpendicular to the mediellan vein.^{134, 140} Sturdy insects. Claws.⁴² (O. albinigripes Malaise).

Burmese Southern Shan States, Burma-Yünnan frontier.

Genus Ocla Malaise 1957.

106. Eyes normally protruding, semicircular in outline when seen from above. Head narrowing behind the eyes. Claws with a rather long subapical tooth and

	in addition with a hidden basal lobe, distinct only after preparation. 54 Antennal flagellum distinctly compressed. Clypeus very deeply, semicircularly incised with long, acute lateral teeth. 96 Mandibles subsymmetric. ($M.\ rufi$ -
	thorax Malaise).
	The Himalayas, Assam, Burma. Genus Mallachiella Malaise 1934. (Malachiella Malaise 1934) Err.typ.
_	Eyes hardly protruding, less then semicircular in dorsal view. Head strongly
	enlarged behind the eyes, almost trapezoid in dorsal view. Claws with a small
	triangular subapical tooth and no basal lobe. ⁸⁷ Antennae not compressed. Clypeus quartercircularly incised and with blunt lateral teeth. (H. simini
	Malaise).
	Turkestan (Semiretche). Genus Heptapotamius Malaise 1935.
107.	Front wings with 4 cubital cells. ⁷⁵
_	Front wings with only 3 cubital cells; the 1st cubital cross-vein wanting.4,98
	Clypeus roundly incised. 100
108.	The apical half of antennae very strongly compressed. 13
	Antennae not specially compressed. 93, 97
109.	The 3rd antennal joint distinctly shorter than the 4th one. Both δ and Ω 110 Only δ (in the Ω the hind wings with 2 closed middle cells). The 3rd and 4th
	antennal joints subequal in length. ¹³ Scutellum bluntly pyramidally elevated.
	Mesopleura very coarsely punctured. Pedicellus longer than it is broad at the
	apex. The subapical tooth of the claws shorter than the apical one. 18, 86 140
110.	The subapical tooth of the claws much longer than the apical one.21 Head and
	mesopleura not, or only indistinctly punctured. Pedicellus much longer than
	it is broad at the apex
_	The subapical tooth of the claws shorter, but mostly broader, rarely also
	longer than the apical one. ⁶² Pedicellus as long as it is broad at the apex. Face below the antennae and mesopleura densely punctured, opaque. The left man-
	dible with a distinct subapical tooth close to the apex and in addition with a large basal lobe. 160
111.	The hind orbits distinctly carinated at least below. ¹⁴³ In the front wings the
	anal cross-vein mostly more oblique than 80° (exception $Tritobrachia$) 112
_	The hind orbits not carinated. Head narrowing behind the eyes. ¹⁴⁴ Mandibles
	subsymmetric, and each one with a subapical tooth near the apex.80 Clypeus
	with a faint indication of a dorso-ventral blunt ridge along the middle, the acute anterior margin with 3 indistinct and very blunt teeth. The anal cross-
	vein not very oblique, about 80° to 85°. Claws. 63 (H. sinobirmanus Malaise).
	Burma-Yünnan frontier. Genus Hemiphytus Malaise 1947.
112.	Mandibles asymmetric, the right one simple and sickel-shaped, the left one
	with a large and broad subapical tooth near the base. 12, 72, 81 Clypeus, if not
	stated differently, with an horizontal cross-elevation separated from the supra-
	clypeal area by a furrow or depression. 107, 109 Head not enlarged behind the eyes
	Mandibles subsymmetric, not strongly bent. ¹²⁵ Clypeus not horizontally re-
	fracted by a cross-elevation. 104, 111, 113
113.	
	thorax impunctate, shining. Each mandible with only one subapical tooth.67
	The subapical tooth of the claws shorter than the apical one. 40, 42 Antennae not
	strikingly incrassated. 105

- Head very strongly dilated behind the eyes; especially face, and mesopleura densely and coarsely punctured, opaque. Mandibles with 2 distinct subapical teeth.¹¹⁵ Claws with a small basal lobe, which is indistinct on the 4 hind feet; the apical and subapical teeth subequal in length.^{64, 92} Antennae strongly incrassated towards the middle. The postocellar area with a broad and rather deep longitudinal middle furrow. Clypeus quarter-circularly emarginated,⁷² convex, and a supra-clypeal furrow entirely wanting. The hind metatarsus shorter then the following tarsal joints combined. (Allantus kolthoffi Forsius).
 China (Kiang-su).
 Genus K jellia Malaise 1947.

- 115. The 2nd cubital cell more than twice as long as it is broad at the apex and almost longer than the 1st one.¹³² Scutellum acutely elevated, punctured, opaque. Mesopleura very coarsely punctured. The 4th antennal joint longer than the 3rd or the 5th one. The apical and subapical teeth of the claws subequal in length.⁶² (M. alboterminalis Malaise).
- Burma (Chin Hills, 2000 m). Genus Mimathlophorus Malaise 1947.

 The 2nd cubital cell only little longer than the extremely long 2nd cubital cross-vein, and the 1st cubital cell more than twice as long as the 2nd one. Scutellum subconvex, like the mesopleura impunctate and strongly shining. The 3rd, 4th, and 5th antennal joints subequal in length. The subapical tooth of the claws distinctly longer than the apical one. Yery slender insects. (L. tricolor Malaise).
- Burma-Yünnan frontier, 2000 m. Genus Linomorpha Malaise 1947.

 116. The subapical tooth of the claws much longer and broader than the apical one. From the conserver of the anal cell joins brachium at an angle of about 60°. Is 118
- 117. Antennae longer than abdomen. Nervulus joins medius at the basal fifth of the discoidal cell. On wings late in autumn. (Emphytus abdominalis Lepeletier). Europe, China, Ussuri, Japan. Genus Apethymus Benson 1939.
- Antennae shorter than abdomen. Nervulus joins medius basally of the middle of the dicoidal cell.¹⁵¹ On wings in summer time. (*Tenthredo [Dolerus] cinctus* Linnaeus).

Holarctic, China, Formosa, North Borneo(?).

Genus Emphytus Klug 1815. (S. strictus). (Allantus Rohwer 1911 nec Panzer 1805*).

 Species which were species inquirendae from the standpoint of the author of the generic name at the time of its publication.

^{*} Rohwer's proposition (Ent. News XXII, p. 218, 1911) that the generic name Emphytus Klug 1813 should be replaced by Allantus Panzer 1801 nec Jurine 1807, because Tenthredo togata should be the type of Allantus, has caused much confusion, especially as such authors as Enslin and Takeuchi were induced to trust and follow him. According to the Rules of Zoological Nomenclature, Article 30, II, e, the following species are excluded from consideration in determining the types of genera. The "Rules" reads:

Two subgenera may be distinguished: A/ Nervulus and basalis interstitial or almost so.⁹⁸ (Tenthredo togatus Panzer). Subgenus Synemphytus Malaise 1945. Holartic. (Allantus Enslin 1913 and Takeuchi 1952 nec Panzer 1805). B/ Nervulus joins medius exactly in the middle of the discoidal cell or just apically of the middle. Claws. 26 (Emphytus coloradensis Weldon). Holarctic. Subgenus Protemphytus Rohwer 1909. (Emphytina Rohwer 1911, Simplemphytus Macgillivray 1914). 118. Clypeus very deeply and broadly, semi-circularly incised with acute lateral teeth.12 Antennae shorter than abdomen, strongly and gradually tapering towards the apex, the 3rd and 4th joints subequal in length.93 The hind orbits about as long as the maximal width of an eye. The postocellar area longer than it is broad.83 Malar space fully as long as the diameter of an ocellus. The hind metatarsus as long as the following tarsal joints combined. Claws with basal lobe.²⁰ (T. fulvus Malaise). Genus Taxonemphytus Malaise 1947. Southern China. Clypeus as if strongly inflated, its anterior margin only quarter-circularly incised.81 Antennae long and slender, not compressed, faintly incrassated towards the apex, and with antennal organs; the 3rd joint shorter than the 4th one, as 3:5. The hind orbits very short, only one third as long as the maximal width of an eye. The postocellar area broader than it is long. Malar space a little shorter than the diameter of an ocellus. The hind metatarsus little longer than the following tarsal joints combined. Claws without basal lobe.⁵² Mandibles asymmetric. (T. tenuicornis Enderlein). Genus Tritobrachia Enderlein 1919. Sumatra, W. Java, Singapoor. 120. Claws not only with a basal lobe, but also with a subapical and an apical tooth.²⁰ The cross-vein of the anal cell strongly oblique ⁷ (exception the genus Darjilingia), and its angle with brachium not more obtuse than 30°.14 125 Claws without subapical tooth, only with an apical one and the basal lobe.²⁵ The left mandible with a long, slender, and isolated basal tooth. 114 158 121. Claws simple, without subapical tooth.41 Malar space as long as, or longer than pedicellus. Mandibles subsymmetric, each of them short, broad, slightly roundly bent, and with a distinct basal tooth. 124 Antennae long, filiform, and the 3rd and 4th joints subequal in length. 142B The hind orbits faintly carinated, but only below. Head and thorax impunctate and shining. Frontal area roundly elevated, flat above. The cross-vein of the anal cell faintly oblique, almost

122. Mandibles asymmetric and bent at an almost right angle, the right one simple,

perpendicular. Small insects of 4—6 mm length. (Taxonus nigritarsis Cameron).

2. Species which the author of the genus doubtfully referred to it.

The Himalayas (Simla), Burma-Yünnan frontier.

The statement of Neave (Nomenclator Zool., London 1939) that Leach 1817 should be the author of the name *Emphytus* instead of Klug 1815 is erroneous. (Malaise, Arkiv f. Zool., 39 A, nr. 8, p. 22, 1947).

Panzer referred in 1801 only doubtfully *Tenthredo togata* Fabricius to the generic name *Allantus* Jurine, but accepted it positively in 1805 for *Tenthredo lateralis* Fabricius. (Comp. facsimile reproduced by Malaise in Opuscula Ent., Suppl. IV, p. 77, Lund 1945.

the left one with a large subapical tooth.¹² Antennae stout, distinctly compressed towards the apex; pedicellus conical, more or less distinctly longer than it is broad at the apex. Mesopleura impunctate and without presterna. 124

- Both mandibles with subapical tooth, subsymmetric, and only slightly roundly bent.¹²⁵ Clypeus roundly or angularly emarginated anteriorly, sometimes with a minute middle tooth; its lateral teeth at least as broad as their own length, and they are shorter than the length of clypeus in the middle. Nervellus joins always the long petiole of the anellan cell. The subapical tooth of the claws quite minute.¹²⁷ The hind orbits more or less distinctly carinated.¹⁴³ 123
- 123. Pedicellus much longer than it is broad at the apex, at 3:2. Malar space about as long as the diameter of an ocellus. The cross-vein of the anal cell placed in the apical third of the cell, and joins brachium at an angle of about 60° in Palaearctic species, and about 45° in nearctic ones. (A. fulvipes A. Costa = Tenthredo glabrata Fallén).

Holarctic.

Genus Ametastegia A. Costa 1882.

(Aphilodyctium Ashmead 1898, Aomodyctium (Ashmead) Rohwer 1911,

Unitaxonus Macgillivray 1921).

— Pedicellus hardly as long as it is broad at the apex, about as long as the malar space. The cross-vein of the anal cell placed in the apical fourth of the cell, is not strongly oblique, and joins brachium at an angle of about 80°. 11 (O. pallidipes Malaise).

The Burmese Shan States and the Burma-Yünnan frontier, 1500-2000 m.

Genus Oralia Malaise 1961.

124. Clypeus almost inflated, its anterior margin deeply semi-circularly to roundly rectangularly incised and its slender lateral teeth subequal in length to clypeus itself between them. ¹²⁶ The hind orbits about as long as the width of an eye, they are not, or only indistinctly carinated behind. ¹³⁹ The subapical tooth of the claws almost as long as the apical one. ¹²⁸ Nervellus joins the petiole of the anellan cell. ^{4,7} The cross-vein of the anal cell oblique, and joins brachium at an angle of about 45°. ¹⁴ The 3rd antennal joint hardly longer than the 4th one. (C. sino-birmana Malaise).

Burma-Yünnan frontier and the Burmese Southern Shan States.

Genus Clypea Malaise 1961.

— Clypeus near the base with a bluntly elevated horizontal cross-ridge (as in Emphytus); the anterior margin of clypeus shallowly roundly emarginated.¹⁰⁹ The hind orbits sharply carinated, and they are longer than half the width of an eye. The subapical tooth of the claws much shorter than the apical one.⁵⁷ The radiellan cell of the hind wings petiolate at the apex; the anellan cell sessile, and nervellus joins the anellan cell itself.¹³² The 3rd antennal joint almost shorter than the 4th one. (E. apicimacula Malaise).

Burmese Southern Shan States, 1500 m.

Genus Emphystegia Malaise 1961.

- The 2nd and 3rd cubital cells receive each one recurrent vein. Flagellum of antennae more or less distinctly incrassated towards the middle. 126

- 127. Antennae not longer than head and thorax combined, with antennal organs, and flagellum not compressed, but incrassated towards the middle. Malar space quite linear. Clypeus very shallowly and broadly emarginated, almost truncate. (N. africana Enslin=Netroceros calo Konow).

The Ethiopian region.

Genus Neacidiophora Enslin 1911.

(Netrocerina Enderlein 1919).

— Antennae longer than abdomen, uniformly thick, flagellum distinctly compressed and without antennal organs, the 3rd and 4th antennal joints subequal in length. Malar space longer than half the diameter of an ocellus. Clypeus semi-circularly incised, and with acutely angled lateral teeth. The cross-vein of the anal cell joins brachium at an angle of about 60°. Mesopleura shining without distinct punctures. The hind metatarsus distinctly compressed, and subequal in length to the following tarsal joints combined. The hind wings never with closed middle cell. (Taxonus gribodoi Konow).

The Himalayas, Assam, Burma, Formosa? Genus Darjilingia Malaise 1934.

- Clypeus truncate or angularly roundly protruding. The basal lobe of the claws very large.³⁴ Frontal area not limited.¹³¹ Malar space linear. Head not carinated behind; the orbits behind the middle of each eye very short, only one eighth of the length of an eye.
 130
- 129. Antennae slender, as long as the abdomen, at the most faintly compressed. Claws. ^{23, 62} Malar space of distinct length. (*Taxonus rufocinctus* Norton). North America, Japan, China, Formosa, Burma.

Genus Parasiobla Ashmead 1898. (Polytaxonus Macgillivray 1908).

- Antennae as long as the entire insect, the 4th and following joints very strongly compressed and flattened.¹³ Malar space one half longer than the diameter of an ocellus. (I. apicicornis Malaise).
 The Himalayas.
 Genus Indostegia Malaise 1934.
- The posterior margin of the anal cell partly obliterate, and this cell appears accordingly to be petiolate as in the subfamily Blennocampinae, but the anal vein with a free, backwards directed stump. The antennal furrows sharp. The anterior margin of clypeus truncate or almost truncate. Malar space entirely wanting. Antennae short and stout; pedicellus much longer than it is broad at the apex. (A. thoracica Rohwer).
 Peninsular India.
- 131. Pedicellus almost longer than scapus and one half longer than it is broad at the apex; antennae almost uniformly thick, and subequal in length with the

abdomen. The claws of the hind legs tri-dentate in the 3 only.84, 85 (Compare nr. 94). (H. nigriceps Takeuchi). Japan, Burma, The Himalayas (Simla). Genus Hemibeleses Takeuchi 1929. Pedicellus only half as long as scapus and its length and width subequal; antennae short, strongly incrassated towards the middle. Saw-sheath long and acute in dorsal view, broad in lateral view.73 Farce.131 (F. varipes Takeuchi). Formosa, Assam, Burmese Shan States. Genus Formosempria Takeuchi 1929. 133. The cross-vein of the anal cell not very oblique, it joins brachium at an angle of 90° to 60°. 11, 98 Elongate insects. (If scutellum pyramidally elevated and with an acute longitudinal carina, compare nr. 139 Xenapatidia). 144 The cross-vein of the anal cell strongly oblique, it joins brachium at an angle 134. Elongate insects. Mandibles asymmetric, the left one with larger subapical tooth or teeth than the right one.12 The middle lobe of mesonotum normal, convex, and with a longitudinal median furrow. The postocellar area longer than it is broad.83 Head strikingly prolonged behind the eyes. Venation as Very strout insects. Mandibles subsymmetric, almost without subapical The anterior margin of clypeus deeply roundly incised.⁹⁶ Malar space as long as, or only little longer than half the diameter of an ocellus. Claws with a basal lobe, and the subapical tooth only little shorter than the apical one.62 The posterior half of the mesonotal middle lobe depressed into a broad triangle with quite flat, impunctate bottom, and the ordinary sharp longitudinal middle furrow transferred into an acutely edged carina. (Tenthredo ovata Linnaeus). Holarctic. Genus Eriocampa Hartig 1837. (Brachyocampa Zirngiebl 1956). Clypeus truncate. Malar space as long as the diameter of an ocellus. Claws without basal lobe and only a minute subapical tooth.87 Mesonotal middle lobe normal, subconvex, and with a dividing longitudinal middle furrow. (E. subtruncata Takeuchi). Japan. Genus Eriocampopsis Takeuchi 1952. 136. The left mandible with a long, acute, and quite isolated basal tooth, which is separated by a narrow incision to the very base.114 The emargination of clypeus rather shallow, 4 to 6 times broader than the length of its blunt lateral teeth, if not stated differently. Antennae stout, faintly incrassated towards the middle. Malar space linear or entirely wanting. The inner margins of the

137.	The subapical tooth of the claws placed somewhat lateral of the apical one. ³⁴ The anal cell not constricted before the base. Scutellum subconvex, not
	pyramidally elevated
100	Claws without a subapical tooth. ²⁵
138.	The 1st abdominal tergite (propodeum) without medial longitudinal seam because the membraneous posterior incision (blotch) reaches to the very basal
	limit of the segment. (Xenapates affinis Forsius).
	Portugese East Africa, Peninsular- and Further India, China.
	Genus Neoxenapates Forsius 1934.
-	Propodeum with a longitudinal middle seam of distinct length. Clypeus
	extremely deeply, semicircularly incised, the lateral teeth much longer than
	clypeus in the middle. ¹⁰⁵ The inner margins of the eyes rather distinctly converging downwards. (<i>Monophadnus bengalensis</i> Cameron).
	North India, Burma. Genus Allantidea Rohwer 1912.
139.	The hind orbits not carinated. 139 Scutellum convex, but not pyramidally ele-
	vated. Propodeum (1st tergite) of abdomen without longitudinal middle seam
	because the membraneous posterior incision (blotch) reaches to the base of
	the segment. The base of the anal cell variable, either with or without a
	constriction at the base of the cell. (Dineura africana Cameron).
	Ethiopian. Genus X e n a p a t e s Kirby 1882. (Anataxates Benson 1939).
	The hind orbits carinated below. Scutellum pyramidally elevated with an
	acute, longitudinal carina. The blotch of propodeum reaching only half-way
	to the base of the segment and there continued by a middle seam. The anal
	vein of the front wings distinctly curved near the base, and the anal cell
	accordingly constricted there. (X. tricolor Malaise).
	Tenasserim, Burmese Southern Shan States. Genus Xenapatidea Malaise 1957.
140.	Pedicellus orbicular in outline, as broad as, or broader than it is long. 96 Meso-
	pleura coarsely punctured. Mandibles bi-dentate. 109 The hind metatarsus
	distinctly longer than the following tarsal joints combined. (Allantus pinguis
	Norton).
	Nearctic. Genus Dimorphopteryx Ashmead 1898.
141.	Pedicellus longer than it is broad. ¹³
141.	apical joints strongly compressed, 13 the 3rd and 4th ones mostly subequal in
	length. The hind metatarsus longer than the following tarsal joints combined.
	Claws. 18 (Taxonus tricoloricornis Konow).
	Peninsular- and Further India. Genus Indotaxonus Malaise 1957.
	The flagellar joints more or less cylindric in outline, and if faintly com-
142.	pressed they are much less than twice as broad as they are thick 142
142.	The hind metatarsus distinctly longer than the following tarsal joints combined
_	The hind metatarsus subequal in length with the following tarsal joints com-
	bined. 159 Antennae only as long as head and thorax combined. (Tenthredo
	[Allantus] nitida Klug=Tenthredo agrorum Fallén).
110	Palaearctic, (Nearctic?). Genus Taxonus Hartig 1837.
143.	Malar space shorter than the diameter of an ocellus. (Strongylogaster aprilis Say).
	Nearctic. Genus Strongylogasteroidea Ashmead 1898.
	School Strong group destroy de de Ashinead 1000.

-	Malar space as long as the diameter of an ocellus. (Strongylogaster pallipes Say). Nearctic. Genus Hypotaxonus Ashmead 1898.
144.	Claws simple or with a very minute subapical tooth.41 (If longer, comp.
	nr. 150. ⁵¹) Malar space longer than the diameter of an ocellus. ^{124, 125} 149 Claws different. ^{25, 64} Malar space as long as, or shorter than half the diameter
	of an ocellus. 122 (Exception Rhopographus). The cross-vein of the anal cell
	almost perpendicular. 11
145.	Scutellum pyramidal with acute longitudinal middle carina. The hind orbits
_	carinated below. 139 Scutellum subconvex. 146
146.	The 4th antennal joint longer than the 3rd one; flagellum filiform. Frontal
	area surrounded by sharply elevated, but not acute, narrow carinas. 129 147
-	The 3rd antennal joint longer than the 4th one. Claws with only one subapical
	tooth. 40, 64 The front wings with 4 cubital cells. Presterna distinct. 90 Slender, but not filiform insects
147.	Claws with a subapical tooth somewhat shorter than the apical one, and in
	addition there is an almost filiform 2nd subapical tooth further basally.71 Saw-
	sheath. ^{74, 116, 117, 118} Extremely slender, almost filiform insects. (C. inopinus
	Konow). Java, Sumatra, Further India. Genus Canonias Konow 1901.
	Claws with only one subapical tooth. ³⁷ Insects of ordinary shape. The posto-
	cellar area and the temples strongly elevated along the posterior part of the
	head. 129 Basalis distinctly curved, but its general direction subparallel to the
	1st recurrent vein. 130 Mesopleura with distinct presterna. 90 (B. verticalis Malaise).
	Burma at the Yünnan frontier, 2000 m. Genus Busarbina Malaise 1961.
148.	·
	length
10000	what compressed. ⁹⁷ Abdomen extremely long, faintly constricted near its
	base, and incrassated before the apex. Basalis and the 1st recurrent vein sub-
	parallel. Malar space as long as the diameter of an ocellus, or faintly longer.
	Clypeus deeply, triangularly to roundly incised. Saw-sheath. ⁷⁷ Claws long, the subapical tooth placed rather far behind the somewhat shorter apical
	one. 64 (Rhoptroceros procinctus Konow).
	Malakka, Sumatra, Java, Formosa. Genus Rhopographus Konow 1899.
	(Rhoptroceros Konow 1898 nec Ratzeburg 1846, Jacobsoniella Forsius 1929 nec Melichar 1914).
149.	
	1st tergite (propodeum) divided by a longitudinal middle seam, but not
	deeply roundly incised, and without a large cutaneous blotch
_	Both apical spurs of the front tibiae thorn-like, not bi-dentate. Propodeum deeply roundly incised with a large whitish blotch. (P. excectus Conde=
	Strongylogaster sharpi Cameron).
	Lettland, Scotland, Finland. Genus $Pseudohemitaxonus$ Conde 1932.
150.	
	vulus joins medius about the middle of the discoidal cell. Claws with a rather large subapical tooth. ⁵¹ Presterna indistinct. (<i>Tenthredo filicis</i> Klug).
	Palaearctic. Genus Pseudotaxonus A. Costa 1894.

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(Polystichophagus Ashmead 1898).

- Frontal area distinct. In the front wings, nervulus joins medius apically of

	the middle of the discoidal cell. Claws either without a subapical tooth, or
	it is extremely minute. 41 Presterna present. (Taxonus dubitatus Norton).
	Holarctic. Genus Hemitaxonus Ashmead 1898.
	(Cockerellonis and Epitaxonus Macgillivray 1908, Sahlbergia Forsius 1910,
	Prototaxonus Rohwer 1910, Eriocampidea (Ashmead) Rohwer 1911).
151.	In the hind wings, the apex of the radiellan cell truncate, and with a large
	appendiculate cell; the radiellan cell itself is only 5 to 6 times as long as
	this appendiculate cell. ¹⁴⁹ The front wings with 4 cubital cells, and the 3rd
	of these is longer than the two first ones combined; the cross-vein of the
	anal cell is more oblique than 45°. Head prolonged behind the ocelli. Frontal
	area not, or hardly limited
_	An appendiculate cell of the hind wings is either wanting, or it is quite minute,
	so that the radiellan cell is about 20 times longer then this appendiculate
	one, and the radiellan cell is not truncate at the apex
152.	The anal vein of the anal cell interrupted somewhat basally of the cross-
	vein,149 and the cell accordingly appears almost petiolate as in the subfamily
	Blennocampinae, 146 but there the basal part of the vein is bent towards bra-
	chium and no remnant of the anal vein is directed basally. Malar space
	mostly shorter than half the diameter of an ocellus. Claws with a subapical
	tooth and a very large basal lobe. 34 (A. solocicornis Enderlein = Monophadnus
	pilosus Konow).
	Further India, Sumatra, Java, Borneo, the Philippines. Genus Ateloza Enderlein 1919.
	The anal cell closed. Malar space quite linear. Claws with 3 acute teeth and
	in addition a blunt basal lobe. (N. rufiventris Konow).
	Ethiopian. Genus Netroceros Konow 1896.
153.	The anal cell constricted in the middle by an oblique, extremely short, almost
200.	
	punctiform cross-vein. 150 The front wings with 4 cubital cells. Malar space
	punctiform cross-vein. ¹⁵⁰ The front wings with 4 cubital cells. Malar space long, and the eyes removed from the base of the mandibles. Claws with only
_	punctiform cross-vein. 150 The front wings with 4 cubital cells. Malar space long, and the eyes removed from the base of the mandibles. Claws with only an indistinct subapical tooth, or they are simple. 41 Body oboval
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154. ————————————————————————————————————	punctiform cross-vein. 150 The front wings with 4 cubital cells. Malar space long, and the eyes removed from the base of the mandibles. Claws with only an indistinct subapical tooth, or they are simple. 141 Body oboval

metallic lustre. Head strongly narrowing and also prolonged behind the eyes. Antennae short and stout, but not compressed; pedicellus conical and as long as scapus. Presterna wanting. The hind metatarsus much shorter than the following tarsal joints combined. [158] (M. malayana Forsius).

Malaya, Java. Genus Malaisea Forsius 1933.

157. Claws without a subapical tooth and only with the acutely angled basal lobe in addition to the apical tooth.²⁵ Clypeus convex and very short in the middle, because its anterior margin is extremely broadly and deeply incised so that only two acute teeth remain lateral of the incision.¹¹⁴ The left mandible with a long and slender basal tooth.¹¹⁴ Antennae shorter than abdomen, incrassated towards the middle; scapus and pedicellus much longer than they are broad. Presterna distinct, but very narrow. The hind metatarsus hardly longer than the following tarsal joints combined.¹⁵⁹ Malar space quite linear. (*T. pentagonica* Malaise).

Japan. Genus Takeuchiella Malaise 1935.

- Basalis joins subcosta a distance from the origin of cubitus that is nearly as long as the length of the 1st cubital cross-vein.¹⁴ Malar space nearly as long as half the diameter of an ocellus. Clypeus truncate or faintly subemarginated.¹³⁶ The hind metatarsus very slender, not compressed, and somewhat shorter than the following tarsal joints combined. Antennae short, without antennal organs; pedicellus as long as it is broad at the apex. Claws with a basal lobe much shorter than the subequally long apical and subapical teeth.⁹² (Macrophya excavata Norton).

Nearctic. Genus Pseudosiobla Ashmead 1898.

160. Clypeus with 3 protruding, triangular teeth, the middle of these much longer and larger than the lateral ones. Antennae strongly incrassated towards the middle; pedicellus twice as long as it is broad at the apex and only little shorter than scapus. Claws.³⁴ (Siobla rufo-balteata Cameron).

Tenasserim in Further India, W. Java. Genus Tala Malaise 1935.

— The anterior margin of clypeus truncate. Antennae very long and slender. The hind coxae longer than normal and the end of femora reaching to or beyond the apex of abdomen. Asiatic insects mostly with metallic lustre. 3

161. The front wings with 4 cubital cells, and the 2nd of these mostly receiving both recurrent veins in the \mathcal{D} only; the 2nd cubital cross-vein and the 2nd recurrent vein are mostly interstitial in the \mathcal{D} , and the hind wings then also

	with marginal vein. 16 Postscutellum extremely enlarged and it is only twice as broad as it is long. The anterior margin of clypeus roundly angularly incised. 156 Malar space linear, but of a distinct length. Antennae almost filiform, longer than abdomen. Saw-sheath. 69 (A. varinervis Konow). Chile Genus $Antholouble$ Konow 1904.
-	The 2nd and the 3rd cubital cells each receiving a recurrent vein. Postscutel-lum normal, many times broader than it is long
162.	Clypeus extremely deeply and broadly, semi-circularly incised almost to the base, and appear in the middle linear; in this incision the membranaceous base of labrum plainly visible; labrum itself several times broader than it is long, and its anterior margin strongly deflexed downwards and appears subemarginate or truncate. Mandibles asymmetric, the left one with two free-standing, thorn-like subapical teeth. ¹⁰⁵
	a/ The hind wings with one closed middle cell in the ♀. Claws. ⁵⁶ (P. collariatus Konow).
	Brazil, Columbia, Amazonas (from Peru to Surinam and Para). Genus Probleta Konow 1908 (1/3).
	b/ The hind wings without closed middle cell in the $\stackrel{\bigcirc}{\downarrow}$ (constant?). Claws. ⁵⁵ (E. bicoloratus Malaise).
	Brazil. Subgenus Epiprobleta Malaise 1949.
_	Clypeus only quartercircularly incised, and this incision reaching to half the length of clypeus, which covers the base of the bluntly pointed, subequally long and broad labrum. ¹⁰⁶ Mandibles asymmetric, the subapical teeth neither free-standing nor thorn-like. The basal lobe of the claws well developed, but not acute. ⁴⁹ (P. fulvoniger Malaise).
	Brazil. Genus Protoprobleta Malaise 1949.
163.	Scapus shorter than pedicellus. The front wings with 3 cubital cells. Frontal area indistinct in outline. The subapical tooth of the claws almost as long as the apical one. Remarks [Emphytus] lepidus Klug). Europe. Genus $Harpiphorus$ Hartig 1837. (Asticta Newman 1838).
_	Scapus longer than pedicellus
164.	The hind metatarsus as long as, or longer than the following tarsal joints combined. Clypeus extremely broadly roundly or subrectangularly incised with long and narrow lateral teeth (compare the genus <i>Taxonus</i> Hartig). Rather elongated insects
_	The hind metatarsus distinctly shorter than the following tarsal joints combined. In the hind wings the anellan cell petiolate, and the petiole distinctly perpendicular to nervellus, if not stated differently. 165
165.	Abdomen above with pairy, membranaceous, whitish spots on at least the middle tergites. 153 Pedicellus not longer than it is broad. Clypeus broadly emarginated anteriorly. The postocellar area always broader than it is long. $^{142F, G}$

The hind orbits carinated. The 1st cubital cross-vein sometimes obliterated.

	Scutellum as broad as, or broader than it is long. (Dolerus pallimacula Lepeletier=Tenthredo liturata Gmelin).
	Holarctic. Genus Empria Lepeletier 1828.
	(Poecilostoma Dahlbom 1835, Prosecris Gistel 1848,
	Poecilosoma Thomson 1871, Poesilostomidea Ashmead 1898,
	Tetratneura Ashmead 1898, Triempria Enslin 1914).
_	Abdomen without pairy whitish spots above
166.	The 3rd antennal joint twice as long as any of the subequally long following joints. Malar space shorter than pedicellus. (<i>Ph. atrum</i> Macgillivray).
	Nearctic. Genus Phrontosoma Macgillivray 1908.
	The 3rd antennal joint not twice as long as the 4th one; mostly shorter than the 4th and 5th combined. (Compare also nr. 168)
167.	In the hind legs, the tibia much longer than the entire tarsus, as about $3:2.^{158}$
	Antennae short and stout; pedicellus hardly longer than it is broad at the
	apex. Claws with a somewhat shorter subapical tooth quite close to the apex. 157
	Mandibles subsymmetric, each with a subapical tooth. The hind orbits not
	carinated. Clypeus. 156 (Tenthredo abdominalis Fabricius).
	Holarctic. Genus Monostegia O. Costa 1859.
	The hind tibia and tarsus about subequal in length, if not differently stated,
	but then the antennae are very long. The subapical tooth not quite close to
	the apex of the claws. 127 Malar space longer than the diameter of an ocellus,
	if not stated differently. 142A
168.	Antennae short and stout, hardly longer than thorax, the 3rd joint as long as the 4th and 5th joints combined. Clypeus. 103 Mandibles subsymmetric, each
	one with a large subapical tooth rather close to the apex. 133 In the hind wings
	nervellus straight and perpendicular both to the brachiellan and to the mediel-
	lan veins. (Poesilostoma inferentia Norton).
	Holarctic. Genus Monsoma Macgillivray 1908.
	(Monosoma Viereck 1910).
_	Antennae longer than abdomen, the 3rd joint much shorter than the combined
	4th and 5th ones, sometimes subequal to, or even shorter than the 4th one
	alone. Mesopleura without presterna. The inner margins of the eyes sub-
	parallel; the eyes shorter than the distance between them. 142A 169
169.	Clypeus deeply, roundly incised anteriorly with broad, blunt, or rounded
	lateral teeth. 103 The hind orbits mostly angularly carinated near the mandibular
	base. Scapus and pedicellus much broader than the thickness of flagellum. 170
_	Clypeus with distinctly sculptured surface, its acute anterior margin nearly
	truncate or very faintly, almost angularly emarginated. 136 The hind orbits
	rounded without any traces of carination. The anal cross-vein strongly oblique,
	its general direction with an angle of about 40° . In the hind wings, nervellus
	not perpendicular to the petiole of the anellan cell. Claws without basal lobe,
	and the subapical tooth only little shorter than the apical one. ⁵⁰ Mandibles
	asymmetric, the right one with a not large subapical tooth near the middle,
	the left one with a very minute subapical tooth at the apical fourth. (E. obsoletus Malaise).
	tetus maiaise).

170. Mandibles subsymmetric with a more or less blunt subapical tooth. 142 Claws

Japan, Burma.

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Genus Empronus Malaise 1935.

without basal lobe, the shorter subapical tooth mostly removed half way from the apex, and directed more or less perpendicularly to the main trend of the claw. Antennae long and slender, filiform; scapus and pedicellus distinctly longer then they are broad at the apex; the 4th antennal joint considerably longer than the 3rd one. — General colour pale yellow below, black above; the black with rich pale markings, and the yellow with black ones; the mostly black mesopleura with a pale horizontal band. Not rare on law ferns. (F. longiserra Malaise).

Burma above an altitude of 1500 m. Genus Ferna Malaise 1961.

- Mandibles asymmetric, the right one with a large and broad subapical tooth, the left one with an extremely small subapical tooth near the apex.^{123, 136} 171
- 171. Pedicellus much broader than it is long, scapus only just distinctly so.⁹⁶ Clypeus.¹⁰³ Mandibles.¹²³ Claws without basal lobe, the subapical tooth shorter than the apical one, neither of them perpendicular to the main direction of the claw.⁵⁰ Nervellus perpendicular to the petiole of the anellan cell. (*Poecilosoma nigriceps* Cameron).

The Himalayas (Simla, Sikkim). Genus Monostegidia Rohwer 1915.

- 172. Claws with a broad basal lobe.⁹² Scutellum very faintly subconvex, not reaching a level touching all three mesonotal lobes. Tibia and tarsus subequal in length in the hind legs. The lateral furrows of the postocellar area not reaching the posterior side of the head; the posterior seam of the same area indistinct. (K. maculiscuta Malaise).

Burma at 2000 m. Genus Kambaitia Malaise 1961.

- Claws without basal lobe.⁹¹ Scutellum subconvexly elevated, reaching a level touching all three mesonotal lobes. Tibia distinctly longer than tarsus in the hind legs, almost as 5:4. The subparallel lateral furrows of the postocellar area reaching the brim of the head, and there communicating with the distinct seams of the same area on the back of the head. (K. fulvipicta Malaise). Burma (Kambaiti at 2000 m).
 Genus Kambaiti na Malaise 1961.
- - Nervulus joins medius basally of the middle of the discoidal cell, near to basalis. 132, 134
 174
- 174. Front wings with 4 cubital cells. Antennae whitish in the middle, black towards base and apex. Claws with a broad basal lobe, and the apical and the subapical teeth subequal in length.²⁰ (A. incisa Cameron).
 Japan, China, Formosa.
 Genus Allomorpha Cameron 1876.
- 175. Claws with distinct, acute basal lobe, and the subapical tooth as long as, or longer than the apical one.^{20, 62} Antennae strongly compressed already from the 3rd joint on. The right mandible simple without subapical tooth. (*Harpiphorus varianus* Norton).

Genus Macremphytus Macgillivray 1908.

Nearctic.

— Claws without distinct basal lobe, and the subapical tooth only half as long as the apical one.⁵⁰ Antennae compressed only towards the apex.¹³ The right mandible with a distinct protruding basal tooth.¹²⁶ (Macremphytus deutziae Takeuchi).

Japan, Sachalin, Ussuri, China, Formosa.

Genus Asiemphytus Malaise 1947.

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Explanations of Terms

The explanation of the terms used is given in the accompanying illustrations, and further explanations will be given in the text or in connection with the keys when considered necessary.

Fig. 1. Sketch of thorax, base of the abdomen, and leg in a Tenthredo. A) Thorax in dorsal view. B) Thorax in lateral view. C) Leg.

- a. Pronotum.
- a2. Lower corner of pronotum.
- b. Praescutum or mesonotal middle lobe.
- c. Tegulae.
- d. Mesonotal lateral lobes.
- e. Scutellum. f. Cenchris.
- g. Scutellar appendage.
- h. Postscutellum.
- i. Propodeum or 1st tergite. (Not divided along the middle at all in the genera Peüs, Jermakia, and Propodea; with a longitudinal carina in Tenthredopsis, etc.).
- m. Coxa. t. Trochanter. -
- u. Femur. v. Tibia.

- j. The membranous "blotch".
- k. Propleura.
- 1. Parapterum.
- m₁
- m2 Coxae. m₃
- n. Mesopleura, or more correctly mesopleural episterna.
- o. Mesopleural epimaera.
- p. Mesosternum.
- q. Metapleura, or metapleural epimaera.
- r. Metasterna, or metapleural episterna.
- s_2 2nd and 3rd abdominal tergites.
- x₁—x₅. Tarsus. x₁. Metatarsus.
- y. Claws.

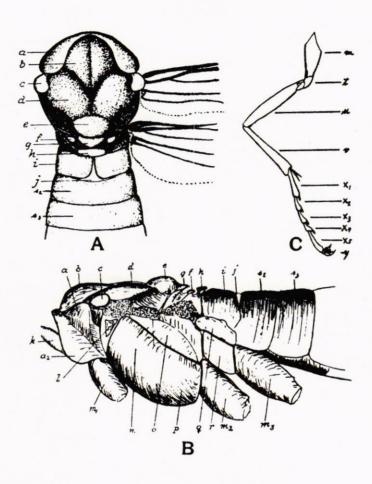
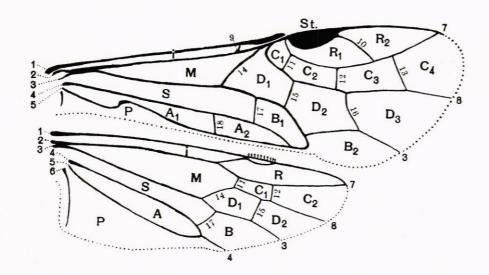


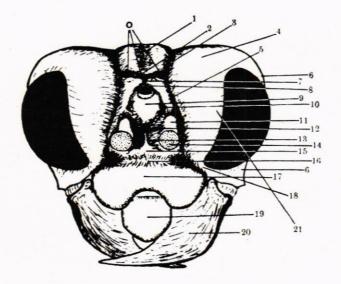
Fig. 2. Front and hind wings of a Selandriinae. Letters stand for the cells and figures for the veins.

	The front wing.		The hind wing.
1.	Costa.	1.	Costella.
2.	Subcosta.	2.	Subcostella.
3.	Medius.	3.	Mediella.
4.	Brachius (or submedius).	4.	Brachiella.
5.	Analis.	5.	Anella.
		6.	Axillus.
7.	Radius.	7.	Radiella.
8.	Cubitus.	8.	Cubitella.
9.	The intercostal cross-vein.		
10.	The radial cross-vein.		
11.	1st cubital cross-vein.	11.	1st cubitellan cross-vein
12.	2nd cubital cross-vein.	12.	2nd cubitellan cross-vein.
13.	3rd cubital cross-vein.		
14.	Basalis.	14.	Basella.
15.	1st recurrent vein.	15.	Recurrentella.
16.	2nd recurrent vein.		
17.	Nervulus.	17.	Nervellus.
	The anal cross-vein.		
	The anal cell.		The anellan or lanceolate cell.
В.	The brachial cell.	В.	The brachiellan cell.
C_1 .	The 1st cubital cell.	C_1 .	The cubitellan middle cell.
C2.	The 2nd cubital cell.	C2.	The 2nd cubitellan cell.
	The 3rd cubital cell.		
C4.	The 4th cubital cell.		
D_1 .	The 1st discoidal cell or the discoidal	D_1 .	The discoidellan middle cell.
	cell.		
	The 2nd discoidal cell.	D_2 .	The 2nd discoidellan cell.
	The 3rd discoidal cell.		
	The intercostal cell.	I.	The intercostellan cell.
	The median cell.	Μ.	The mediellan cell.
	The posterior cell.		The postellan cell.
	The 1st radial cell.	R.	The radiellan cell.
	The 1st radial cell.		
	The submedian cell.	S.	The submediellan cell.
St.	Stigma.		

If either or both of veins 12 and 15 in the hind wings is wanting, that wing is said to have only one or no closed middle cell. If the anellan cell, as in Fig. 2 receives nervellus near the apex, the anellan cell is said to be sessile, but if nervellus joins the brachiellan vein behind the apex of the anellan cell, this cell is petiolate.



- Fig. 3. Sketch of the head of a Tenthredo in frontal view. (The inner margins of the eyes somewhat emarginate and strongly converging downwards. Clypeus roundly incised with rounded lateral teeth).
- 5. Antennal furrow(s). (Continues the lateral furrows of the postocellar area from laterally of the ocelli to the clypeus).
- 14. Antennal socket(s). (With removed antennae).
- 8. Circumocellar furrow. (Surrounding the middle ocellus, angular in the upper part).
- 17. Clypeus.
 - Crest. (Horizontal ridges perpendicularly from the frontal ridges to the inner margins of the eyes thus interrupting the antennal furrows. [In Selandriinae and Blennocampinae]).
 - Face. Part of the head in front. (Between the eyes, the clypeus, and the two upper ocelli).
- 9. Frontal area.
- 10. Frontal ridges. (Surrounding the frontal area, at least laterally).
- 6. Hind orbita. (Behind the eyes from the temples to the base of the mandibles; mostly carinate behind, the carina finally disappearing below).
- 8. Inner orbita.
- 7. Interocellar furrow. (A short longitudinal furrow perpendicular to the postocellar furrow, angularly forked anteriorly, and there merging into the circumocellar furrow).
- 19. Labrum.
- 3. Lateral furrow(s) of the postocellar area. Lateral pits. The antennal furrows in Selandriinae and Blennocampinae reduced to single or double pits lateral to and somewhat above the supra-antennal pit; mostly as large as that pit.
- 18. Malar space. (The sometimes quite linear strip between the eyes and the clypeus or the base of the mandibles).
- 20. Mandible(s).
- 13. Middle fovea or furrow. (The longitudinal middle ridge marked in the fig. 39 mostly wanting). Mouth-parts. The combined 17, 19, 20, and the palpi.
- 0. Ocelli.
- 6. Orbita(hind).
- Orbita (inner).
 Postocellar area.
- 2. Postocellar furrow. (A sometimes curved or angular furrow behind the ocelli). Sincipite (sinciput) = 1+4.
- 12. Supra-antennal pit.
- 11. Supra-antennal tubercle(s).
- 15. Supra-clypeal area.
- 16. Supra-clypeal furrow, laterally with the supra-clypeal pits. 4. Temple(s).

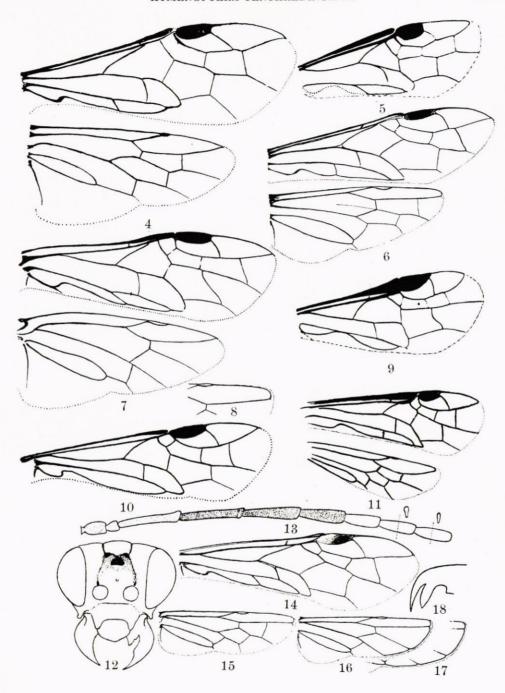


Figs. 4-18.

- 4. Front and hind wings of Birmindia albipes Malaise.
- 5. Front wing of Heterarthrus sp.6. Front and hind wings of Xenapatidea tricolor Malaise.
- 7. Front and hind wings of Arla carbonaria Malaise.
- 8. The radiellan cell (hind wing) of Endelomyia aethiops Fabricius.
- 9. Front wing of Hoplocampa sp.
- 10. Front wing of Busarbia formosana (Rohwer).

- Front and hind wings of Busarbidia ussuriensis (Malaise).
 Indotaxonus tricoloricornis (Konow); Head in frontal view.
 Antenna (with cross-section of the 8th and 9th joints).
 Front wing (♂ or ♀) of Indotaxonus tricoloricornis (Konow).
 Hind wing of ♀.
 Hind wing of ♂ with incomplete marginal vein.

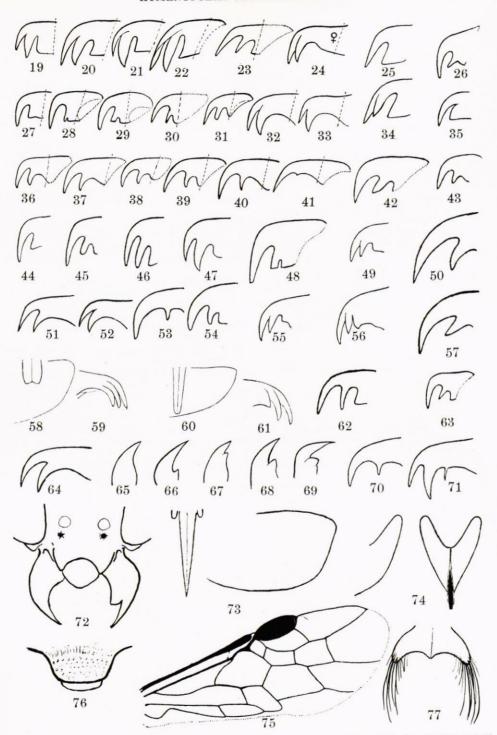
- 17. Complete marginal vein in ♂ of Indotaxonus unicolor Malaise.
 18. Claw of Indotaxonus.



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Figs. 19-77.

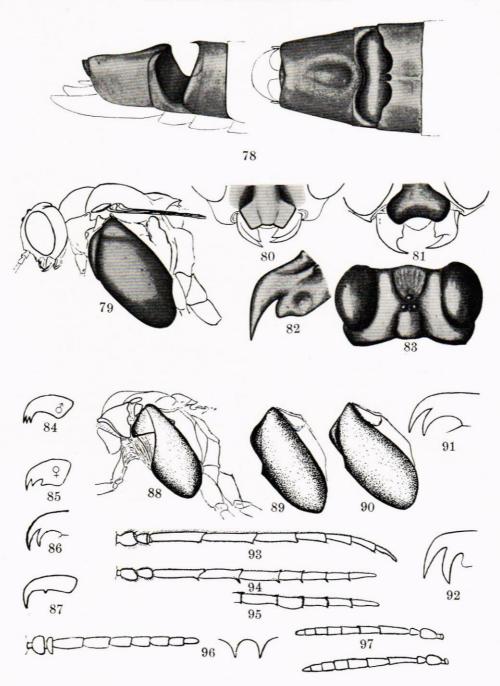
Claws of: 19. Bornea pictipennis (Konow), 20. Neostromboceros dentiserra Malaise, 21. N. coxalis (Smith), 22. N. chalybeus (Konow), 23. Nesoselandria birmana Malaise, 24. Duplunguis sino-birmanica Malaise, 25. Xenapatidea sp., 26. Protemphytus birmanus Malaise, 27. Abusarbia japonica (Malaise), 28. Alphostromboceros konowi (Kuznezof-Ugamski), 29. Strombocerina delicatula (Fallén), 30. Neothrinax javana Enslin, 31. Bocerus phaleratus (Konow), 32. Euforsius jacobsoni (Forsius), 33. Iconia versicolor Malaise, 34. Neoxenapates sp., 35. Arla carbonaria Malaise, 36. Busarbia viridipes Cameron, 37. Anapeptamena albipes Konow, 38. Denticornia subtilis (Benson), 39. Aneugmenus verticinus Malaise, 40. Pseudostromboceros atratus (Enslin), 41. Concavicornia nana Malaise, 42. Ocla albinigripes Malaise, 43. Endelomyia aethiops (Fabricius), 44. Goniocerus albilabris (Konow), 45. Prostromboceros leucostomus (Rohwer), 46. Stromboceridea picticornis (Cameron), 47. Plaumanniana trigemmis (Konow), 48. Prostromboceros niveana (Jörgensen), 49. Protoprobleta fulvoniger Malaise, 50. Monostegidia nigriceps (Cameron) and Empronus obsoletus Malaise, 51. Adiaclema maculipennis (Cameron), 52. Belea nigripennis (Konow), 53. Romaniola sp., 54. Inea pusilla Malaise, 55. Epiprobleta bicoloratus Malaise, 56. Probleta langei Konow, 57. Emphystegia sp. 58. Saw-sheath, and 59. claw of Kuschelia solox (Enderlein). 60. Saw-sheath, and 61. claw of Antholcus varinervis Konow. 62. Claws of: Birmindia albipes Malaise, 63. Hemiphytus sinobirmanus Malaise, 64. Rhopographus procinctus (Konow). Left mandible of: 65. Adiaclema pilicornis (Cameron), 66. Bolivius absonus (Konow), 67. Dochmioglene soleatus (Konow), 68. Romaniola sp., 69. Plaumanniana aemulus (Konow). Claws of: 70. Trearia and Canonaria sp., 71. Canonias inopinus Konow. 72. Underface of Emphytus cinctus (Linnaeus). 73. Saw-sheath in dorsal and lateral view of Formosempria shanensis Malaise. 74. Saw-sheath of Canonias inopinus Konow in lateral view and from behind. 75. Front wing of Rocalia longipennis Takeuchi. 76. Clypeus and labrum of Dulophanes flavipes Enslin (The anterior margin of clypeus subtruncate or roundly protruding). 77. Saw-sheath in dorsal view of Rhopographus procinctus (Konow).



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Figs. 78-97.

- 78. Apex of abdomen in the males of certain species of the genus Neostromboceros Rohwer.
- 79. Mesopleura in the genus Selandria Leach with the upper part separated by a shallow horizontal furrow. Presterna distinct and separated by a deep and sharp furrow perpendicular to the horizontal one.
- 80. Mouth-parts of Hemiphytus sinobirmanus Malaise. The acute anterior margin of clypeus in the middle subtruncate or faintly triangularly protruding. Supra-clypeal furrow wanting. Malar space extremely long. Mandibles subsymmetric.
- 81. Mouth-parts of Tritobrachia tenuicornis Enderlein. Clypeus inflated. Mandibles asymmetric. Malar space short.
- The right mandible in a Neothrinax Enslin. Its basal lobe with an infundibuliform pit.
- 83. Head of Busarbia viridipes Cameron in dorsal view. Head narrowing and carinated behind the eyes. The flat frontal area surrounded by extremely acute carinas and similar cross-ridges extending to each eye. The under-face refracted from these latter carinas downwards at an almost right angle. The postocellar area subquadrate in outline
- Claws of: 84. Hemibeleses nigriceps Takeuchi ♂, 85. Hemibeleses nigriceps ♀, 86. Liliacina carinifrons Malaise, 87. Eriocampopsis subtruncata Takeuchi.
- 88. Mesopleura with broadly triangular presterna separated by a subcutaneous seam visible only if the color is light.
- 89. Mesopleura with presterna separated by a fine and shallow furrow.
- 90. Mesopleura with presterna separated by a deep furrow.
- Claws of: 91. Kambaitina, and 92. Kambaitia.
- Antenna of Denticornia brunneicornis Malaise (♀ in lateral view).
 Antenna of Denticornia sikkimensis (Malaise) (♂ in dorsal view).
- 95. Apical half of the previous antenna in lateral view.
- 96. Antenna and clypeus of Adamas jakowleffi (Konow). The 1st and 2nd antennal joints (scapus and pedicellus) are broader than they are long, the latter almost disk-like.
- 97. Antenna of Rhopographus formosanus Malaise and Rh. procinctus (Konow).



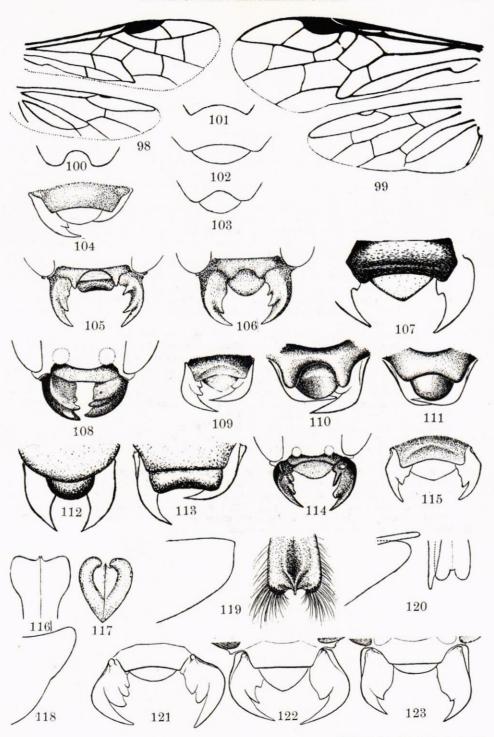
Figs. 98-123.

Front and hind wings of: 98. Emphytus togatus (Panzer), and 99. Parastromboceros filicis (Malaise).

Anterior margin of clypeus in: 100. Hoplocampa sino-birmana Malaise. (Deeply roundly incised with rounded lateral teeth), 101. Hoplocampa formosana Malaise. (Roundly emarginated with angular lateral teeth), 102. Heptamelus marginatus Malaise. (Roundly emarginated with blunt lateral teeth), 103. Heptamelus ochroleucus (Stephens). (Deeply,

roundly, somewhat triangularly incised with blunt lateral teeth).

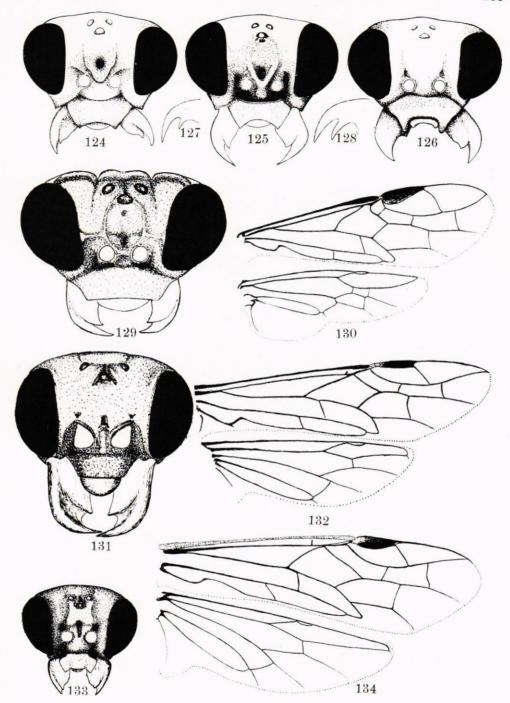
Mouth-parts of: 104. Inea pucilla Malaise. (The anterior margin of the subconvex clypeus faintly subemarginated), 105. Probleta langei Konow. (The semicircular incision of clypeus reaching almost to the base making the membraneous base of labrum visible. Mandibles asymmetric. Malar space linear or wanting), 106. Protoprobleta fulvoniger Malaise. (Clypeus less deeply incised and labrum rounded anteriorly), 107. Brulléana orbignyana (Brullé). (Clypeus with a transversal [horizontal] carina, triangularly pointed labrum, and subsymmetric mandibles), 108. Arla carbonaria Malaise. (Clypeus subtruncate, mandibles subsymmetric, malar space of distinct length, and the straight inner margins of the eyes faintly converging downwards), 109. Plaumanniana trigemmis (Konow). (Clypeus with a transverse convexity subparallel with the emarginated and acutely edged anterior margin. Mandibles bent almost at a right angle), 110. Arcoclypea opiparus (Konow). (Clypeus semicircularly incised. Labrum concavely depressed anteriorly), 111. Liliacina carinifrons Malaise, 112. Adiaclema nigripectus (Enderlein). (The anterior margin of clypeus and of labrum rounded. Mandibles simple), 113. Labrina plaumanni Malaise. (Clypeus truncate; the strongly deflexed anterior margin of labrum appear emarginated. Mandibles simple), 114. Xenapatidea tri-color Malaise. (The left mandible with an isolated basal tooth. Clypeus emarginated), 115. Prostromboceros niveana (Jörgensen). (Clypeus as in 109, but mandibles not so strongly bent), Saw-sheath of Canonias assamensis Rohwer: 116. in dorsal view, 117. from behind, and 118. in lateral view. Saw-sheaths in lateral and dorsal view of: 119. Thrinax birmana Malaise, 120. Thrinax sino-birmana Malaise. Mouth-parts of: 121. Iconia versicolor Malaise, 122. Anapeptamena albipes Konow, and 123. Nesoselandria birmana Malaise.



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Figs. 124-134.

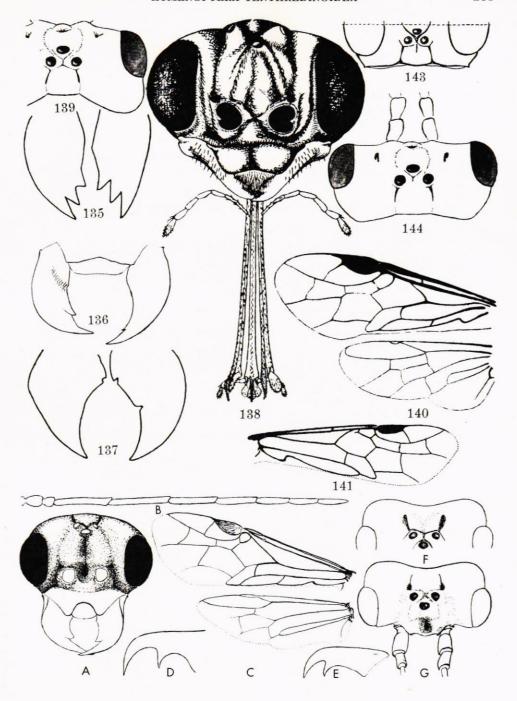
- 124. Ungulia fasciativentris Malaise. Face in frontal view. (Clypeus subconvex with roundly emarginated margin; mandibles roundly, not strongly bent, asymmetric; malar space much longer than the diameter of an ocellus; inner margins of the eyes almost parallel; frontal area distinct only below; the middle supra-antennal pit large and deep).
- 125. Oralia pallidipes Malaise. (Clypeus roundly incised with acute lateral teeth; mandibles subsymmetric, their outer margin bent almost at a right angle; malar space longer than the diameter of an ocellus; inner margins of the eyes very faintly converging downwards; frontal area surrounded by low, but distinct ridges to the middle ocellus, romboidal in outline and enclosing the large middle supra-antennal pit). (Postocellar area omitted in 124, 125, and 126).
- 126. Clypea shanica Malaise. (Clypeus swelled up [not flat], the anterior margin deeply, roundly, subsquarely incised; mandibles asymmetric, the left one with a broad and large, the right one with a small, acute basal lobe; malar space long; frontal area only roundly elevated without carinas; the middle supra-antennal pit wanting, and the lateral ones small, but distinct; the inner margins of the eyes very faintly converging downwards).
- Claws of: 127. Oralia pallidipes Malaise, 128. Clypea shanica Malaise.
- 129. Head in frontal view of Busarbina verticalis Malaise. (Clypeus truncate; mandibles subsymmetric; malar space long; inner margins of the eyes straight and rather strongly converging; frontal area oval in outline and surrounded by abruptly elevated, but not acute carinas and similar carinas extending to the eyes; underface refracted downwards from these carinas; the middle supra-antennal pit large; the posterior margin of the head above elevated into a rounded carina interrupted by the extremely deep lateral furrows of the postocellar area).
- 130. Front and hind wings of Busarbina verticalis Malaise.
- 131. Formosempria shanensis Malaise. Head in frontal view. (The frontal area and the antennal furrows entirely obsolate; malar space linear; clypeus truncate; mandibles subsymmetric.
- 132. Mimathlophorus alboterminalis Malaise. Front and hind wings.
- 133. Ocla albinigripes Malaise. Head in frontal view. (Frontal area elevated, flat above, but without lateral ridges; the inner margins of the eyes converging downwards; clypeus flat, truncate in the middle and with acutely triangular lateral teeth; mandibles subsymmetric, faintly curved; malar space about as long as the diameter of an ocellus).
- 134. Taxonemphytus fulvus Malaise. Front and hind wings.



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Figs. 135-144.

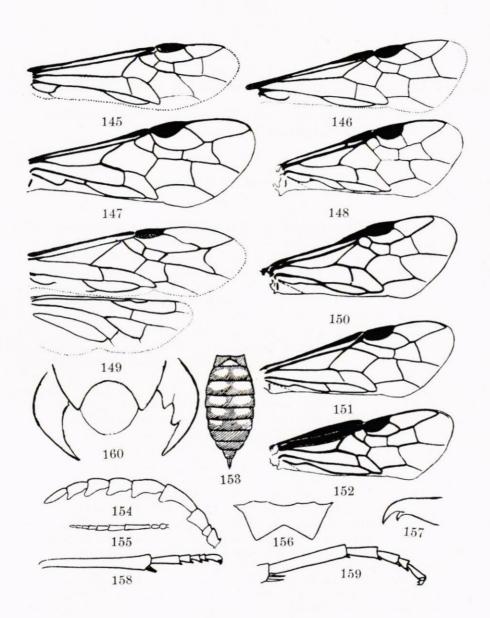
- 135. Mandibles of Rocalia longipennis Takeuchi.
- 136. Mouth-parts of Empronus fulvus Malaise. (Mandibles asymmetric, the left one with a minute subapical tooth near the apex; the anterior margin of clypeus faintly, angularly emarginated).
- 137. Subsymmetric mandibles of Eriocampa mitsukurii Takeuchi.
- 138. Head in frontal view of Nipponorhynchus mirabilis Takeuchi. (The mouth-parts are most remarkable with the long proboscis and the triangular labrum; the inner margins of the eyes almost parallel, subemarginated, and the distance between the eyes longer than the length of an eye).
- 139. The hind orbits rather prolonged backwards, rounded, not carinated behind, and not narrowing behind the eyes.
- 140. Front and hind wings of Nipponorhynchus mirabilis Takeuchi.
- Front wings of Iconia versicolor Malaise. (The base of cubitus with a free stump directed basally).
- 142. The genus Ferna Malaise. A/ Head in frontal view, B/ Antenna, C/ Front and hind wings, D/ and E/ Claws, F/ and G/ Different shape of postocellar lateral furrows.
- 143. Head strongly narrowing behind the eyes with carinated hind orbits. The postocellar furrow distinct and the area broader than it is long.
- 144. Head strongly narrowing behind the eyes, but the hind orbits not carinated. The postocellar furrow wanting, but the interocellar furrow distinct and connected with the angularly forking circumocellar furrow.



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Figs. 145-160.

- 145. Front wing of Metaneura souza-lopesi Malaise. (The anal cell is broadly contracted and this genus may erroneously be referred to the subfamily Blennocampinae. Compare pr. 146)
- 146. A Blennocampinae, Amonophadnus sp. The anal cell is not constricted because the anal vein becomes vitreous and obliterate before reaching brachius and is directed perpendicularly towards it.
- 147. Front wing of Adelesta nova (Norton).
- 148. Front wing of Caliroa sp.
- 149. Front and hind wings of Ateloza pilosa (Konow). (This venation suggests also a Blennocampinae. The same is valid for the genus Allantopsis Rohwer, and both genera will also be delt with among the Blennocampinae. The anellan cell with a large appendiculate cell at the apex).
- 150. Front wing of Lycaota sodalis (Cresson).
- 151. Front wing of Emphytus cinctus (Linnaeus).
- 152. Front wings of Selandria vanduzeei (Rohwer).
- 153. Abdomen of Empria obscurata (Cresson) to show the whitish, membranaceous spots on the basal tergites.
- 154. Antenna of Ceratulus spectabilis Macgillivray. Similar antennae occur in the genus Salatigia Enslin, but scapus and pedicellus are there different.
- 155. Antenna of Caliroa limacina (Retzius).
- 156. Clypeus of Monostegia abdominalis (Fabricius).
- 157. Claw of Monostegia abdominalis (Fabricius).
- 158. Tibia and tarsus with the metatarsus shorter than the following tarsal joints combined.
- 159. A tarsus with metatarsus as long as or longer than the following tarsal joints combined.
- 160. Mouth-parts of a Parasiobla sp. (from Burma). (Clypeus almost semi-circularely incised; the left mandible with two large subapical lobes, the right one simple or with a very minute basal tooth).



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