

AN ATLAS OF
INSECT
MORPHOLOGY

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BY
J. G. REEB

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PREFACE TO THE SECOND EDITION

The present work is a revised and somewhat enlarged edition of *An Atlas of Insect Morphology*, first issued in 1981. The encouraging letters and reviews stimulated the authors to carefully consider and where deemed opportune to incorporate the many constructive and valuable suggestions into the second edition. Consequently, several figure inscriptions have been substituted by more commonly used terms or expressions. At some places entirely new figures with many new terms have been included, specially designed for this edition, at others, earlier figures have simply been replaced by more meaningful ones. Also minor corrections in some terms had to be made.

Though the authors have taken much time in the revision they still cannot venture to hope that each and every imperfection has been rooted out.

Besides the several new figures and many inscriptions, a new feature of this edition is a list of Selected References at the end of the volume. This is to show which basic works have been used as sources both as for illustrations and nomenclature, consequently a number of figure captions had to be reset.

The authors are truly grateful for the reception of the first edition. And they hope that the changes and additions to which reference is made in the foregoing may increase the practicability of this new edition.

Budapest, February 1984.

The Authors

PREFACE TO THE FIRST EDITION

The principal aim of the present atlas is to survey insect morphology as far as the imago's exoskeleton is concerned. Many books of a similar nature have appeared in the past, and though the subject is the same the treatment of our attempt is different.

Most authors on insect morphology wrote descriptive works with a wealth of information hidden in the text thereby necessitating that students interested in the superficial characteristics of a particular insect group should delve into voluminous books to select terminology for their special purpose. But since insects are so extremely variable in form, in the majority of cases the selection of the precise term to describe any particular feature presents quite a task. To further aggravate the problem many an author coined new words either to substitute older ones or to provide a name for a skeletal characteristic previously unnamed. Thus, there are scarcely any two works using identical terminology.

One of the most comprehensive works in the recent literature is the two volumes (the head and the thorax) of Matsuda, whose great merit is that he attempted to homologize insect morphology. Even so his books are basically descriptive presenting at the same time a string of arguments and counter-arguments to support the validity of one or another technical term, in many instances coining new ones, thereby once again rendering orientation difficult.

The majority of the figures have been adapted from literature sources, on the other hand, many have been newly designed, especially when illustrating homologized body regions: the reason for this approach was to convey the meaning in a simplified form.

The Authors

INTRODUCTION

The structure of this atlas illustrating the general external morphology of the fully developed insect is quite simple. With the use of a wide selection of literature the authors have endeavoured to gather all relevant material, falling back on homologization where it was deemed necessary, to introduce students of morphology into the realm of common external characteristics of insect imagoes.

The external morphology of the insect is treated in parts broken down according to the main body regions shown in 756 line drawings. The parts include, in order, the homologized skeletal elements, the various appendages, the superficial apertures of the body as well as the copulatory organs as distinct from abdominal organs. The simple drawings fulfil one sole purpose: illustration, since in several instances we may encounter figures in which are illustrated all the principal skeletal features, obviously in nature such a form is quite unthinkable. Our purpose in doing this was to save place. Obviously when it has been thought necessary, though without the claim of completeness and without regard to special order, the authors have presented the principal types which diverge from the basic form. In other words, the principal types were to a certain extent designed to loosen up the otherwise strictly homologized and schematically represented figures. Even in the case of the principal types the authors declined to restrict any particular feature to one species, thus, in every instance the accepted lowest category was the genus, the highest the order. The figures in the plates are more or less related to one another, on the other hand, occasionally morphologically quite alien parts are placed side by side.

Subsequent to the atlas proper an Appendix is given which illustrates, in over one hundred figures, the superficial characteristics of the insect body. Illustrations here include the microsculpture, the noncellular, the unicellular and the multicellular external and internal cuticular processes or formations, e.g. spine, bristle, hair, suture, cavity, etc. Furthermore, one finds illustrations of the spiracle, the auditory organ, the form of segmentation and articulation, the openings of various glands and the wing pattern.

In order to identify any particular part of the body with certainty the terminology is given in Latin. In several cases decisions had to be made after careful consideration of the available terms. In accepting a term into the atlas our governing principle was to choose the most commonly used descriptive word or expression whose functional content is most readily conceivable among the host of synonyms. Here the authors would like particularly to stress that when a name was selected to describe a bodily feature, in fact no overruling decision had been made for the supremacy of that one term, thus, all the other perhaps similarly frequently used names may equally be correct, and the authors had no intention of suppressing any one word or expression. It is all the more important to bear this in mind since many specialists working on one particular group of insects adopted a terminology of their own and these terms have a standing of several decades or perhaps

even of two centuries. However, some of these terms (given in italics) had to be included in the indexes to help those trying to solve a problem solely by means of the indexes. All the special expressions would in fact need a separate volume. The validity of many a word describing the very same bodily part is unquestionable, since an anatomical or morphological term may be formed in several ways. Among these the commonest is the single-word expression, thus, the foot-stalk of the maxilla is the *stipes*. In other cases, a concept may be approached from several other directions, all being correct, e.g. between the cheek and the *pleurostoma* a thin line is present, this we might call the lower margin of the cheek (*clavus genalis ventralis*), or the upper margin of the *pleurostoma* (*clavus pleurostomatalis dorsalis*), but we are aware of another, somewhat vague expression: *linea marginalis*, when the accepted and currently used term is *sutura subgenalis*. Of course, all these variations will not figure in the indexes as synonyms owing to lack of space. A general expression, e.g. the maxilla (Fig. 61), refers not to the maxilla of a butterfly, of a beetle, of a dragonfly, but that of *an insect*, since it is homologized. Also the present authors deferred from using the word, e.g. *pars*, and its corresponding synonyms, because it was restricted to one particular conceptual sphere, and all the more so did the authors bear this in mind since in the literature these words are employed rather arbitrarily. Thus, our Fig. 61 depicting the maxilla with its movable parts may equally be called *pars maxillaris*, or *area maxillaris*, or *regio maxillaris*.

With a view to completeness the authors endeavoured to illustrate and thereby to introduce as many bodily parts and their respective current morphological terms as were possible. However, again owing to shortage of space, certain obvious analogies were not given despite the fact that they exist. For example, when a given part, say a plate, was further differentiated, and it had a process at its front margin, it appeared as the anterior process of the plate; if it also had a posterior process it was either illustrated and given a name, or it was left wholly unnamed.

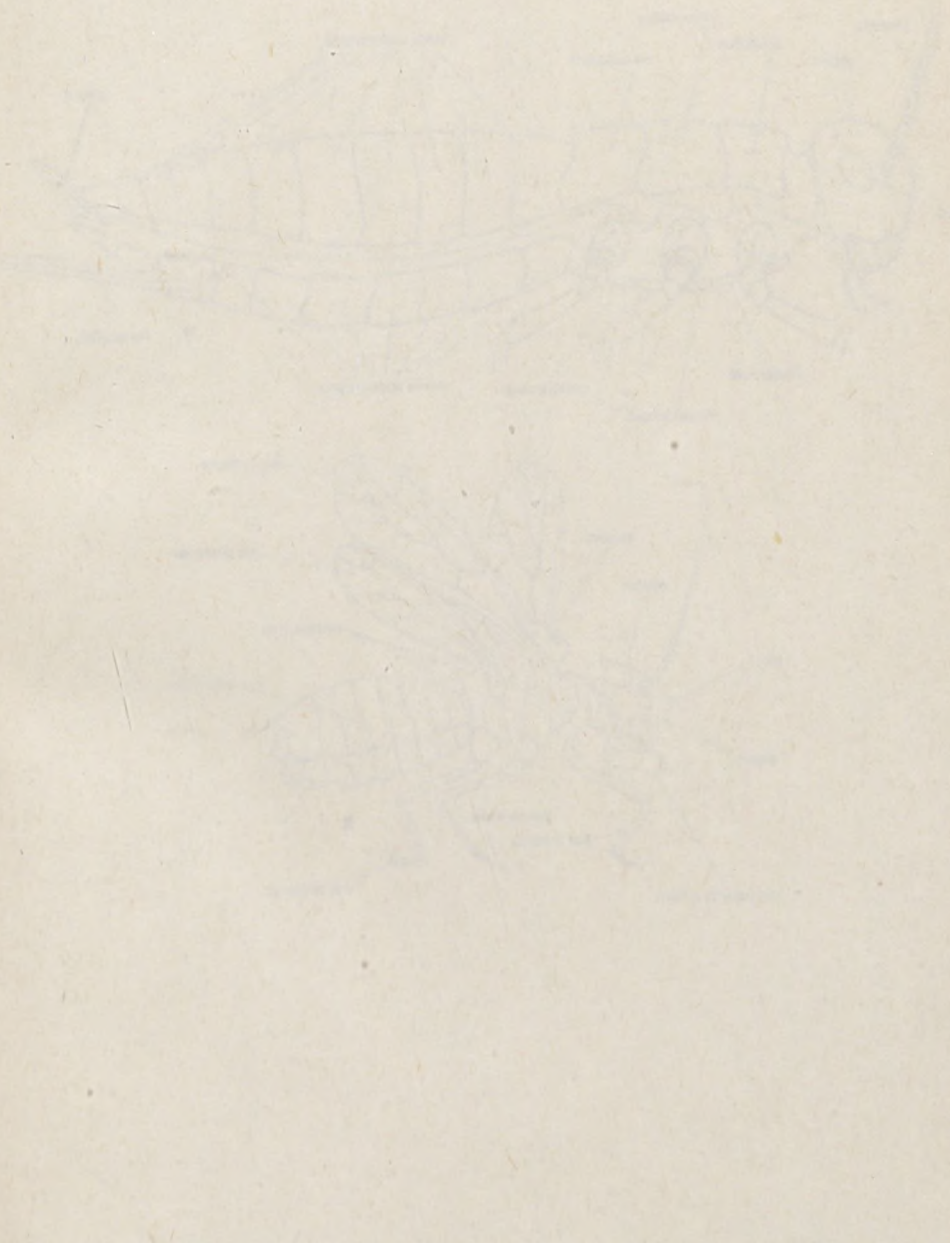
The figure captions are in English. Figures connected with one another in the caption are separated by a comma, parts not strictly related by a dash. In parentheses at the end of each figure caption the names of the authors of the respective source books are given in alphabetical order. The major part of the material is to be found in various anatomical and morphological works in the world literature. In the case of a general figure of mere reference value, it is not a practice to give the relevant source, thus, the original work of some of the drawings is today well-nigh impossible to trace and has little significance anyway. Following this principle those figures which are the result of the present authors' original research are similarly not marked by the word "original" or otherwise.

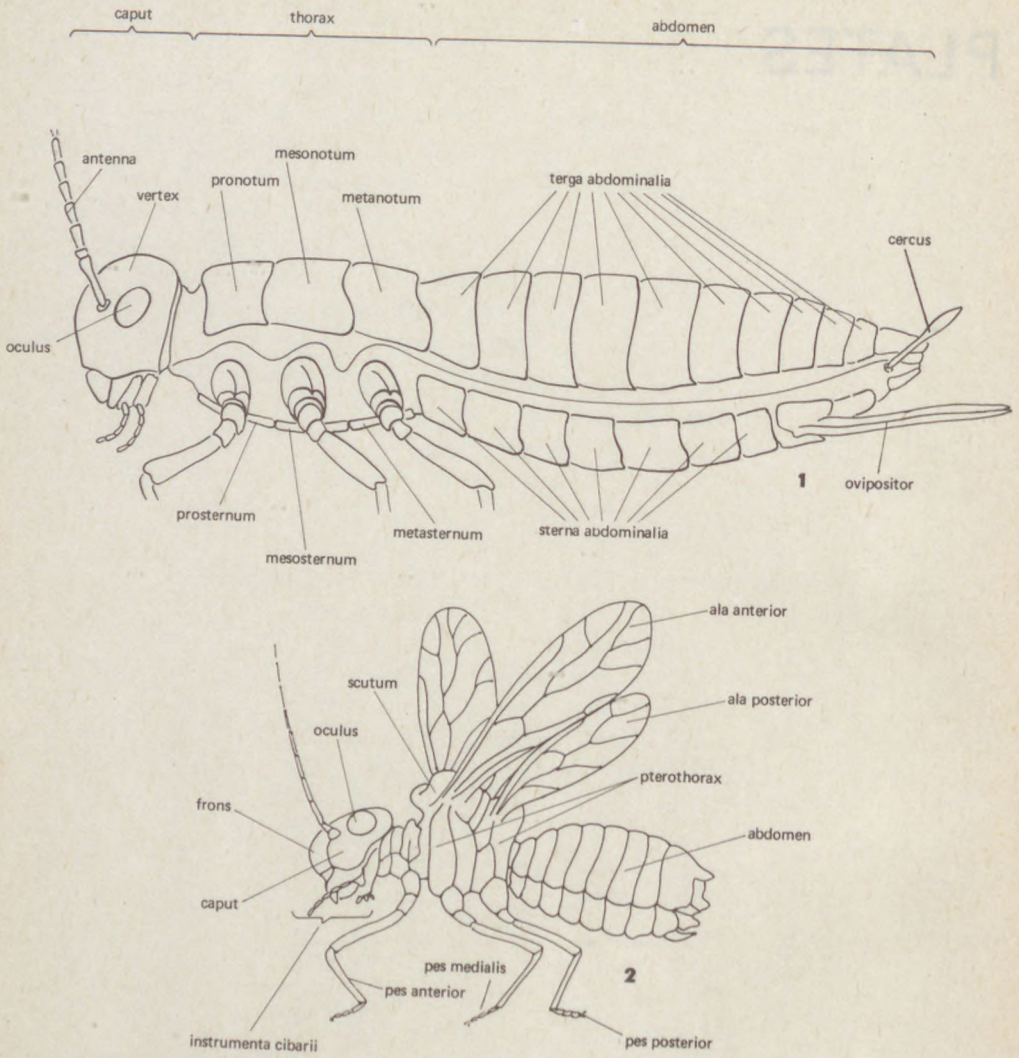
After the atlas part the two indexes are appended: a Latin—English and an English—Latin. Perhaps a few words are not wholly out of place here concerning this section of the book. First, it would be far more precise to say Latin/Greek—English and English—Latin/Greek indexes, since in numerous instances the literature uses Greek words and in even greater number words of Greek derivations. Secondly, it is frequently possible to find in the literature words with a correct Latin ending, e.g. *pleura*, which in fact is the plural form of the original Greek *pleuron*; but some authors take the word to be a singular Latin noun and suffix the Latin plural ending *-e* for the feminine noun obtaining "pleurae" (used in human anatomy) wishing to determine the two lateral regions of what is generally a thoracic segment of the insect body. Even though it is far beyond the

scope of the present work to clarify linguistically all the problematic derivations, to enhance utility coupled with accuracy the applied terms have been carefully selected and linguistically checked. Thirdly, in the case when the original Greek as well as its Latinized version are also used, we were inclined to employ the more commonly used form, as mentioned earlier. Thus, we simply compiled an index of the words figuring in the plates, complementing these with some of their more important synonyms; we did this in order to provide a tool at its most appropriate place.

The indexes are arranged in an absolute alphabetical order, and the words are given as they appear in the plates. Words are given in their correct orthographical form except in some rare instances when a form although objectionable has attained such wide recognition in world literature that the correct form would appear out of place, an example of this is *coxopodite* for *coxapodite*. In the case of adjectival structures the Latin—English part presented no problem since the nouns, e.g. *clavus*, *fossa*, *sutura*, etc. are always at the beginning of the expression, which does not hold, of course, for the English—Latin part. Just the same, there too the present authors followed strict alphabetical order. After the word-pairs the numbers refer to the respective figures.

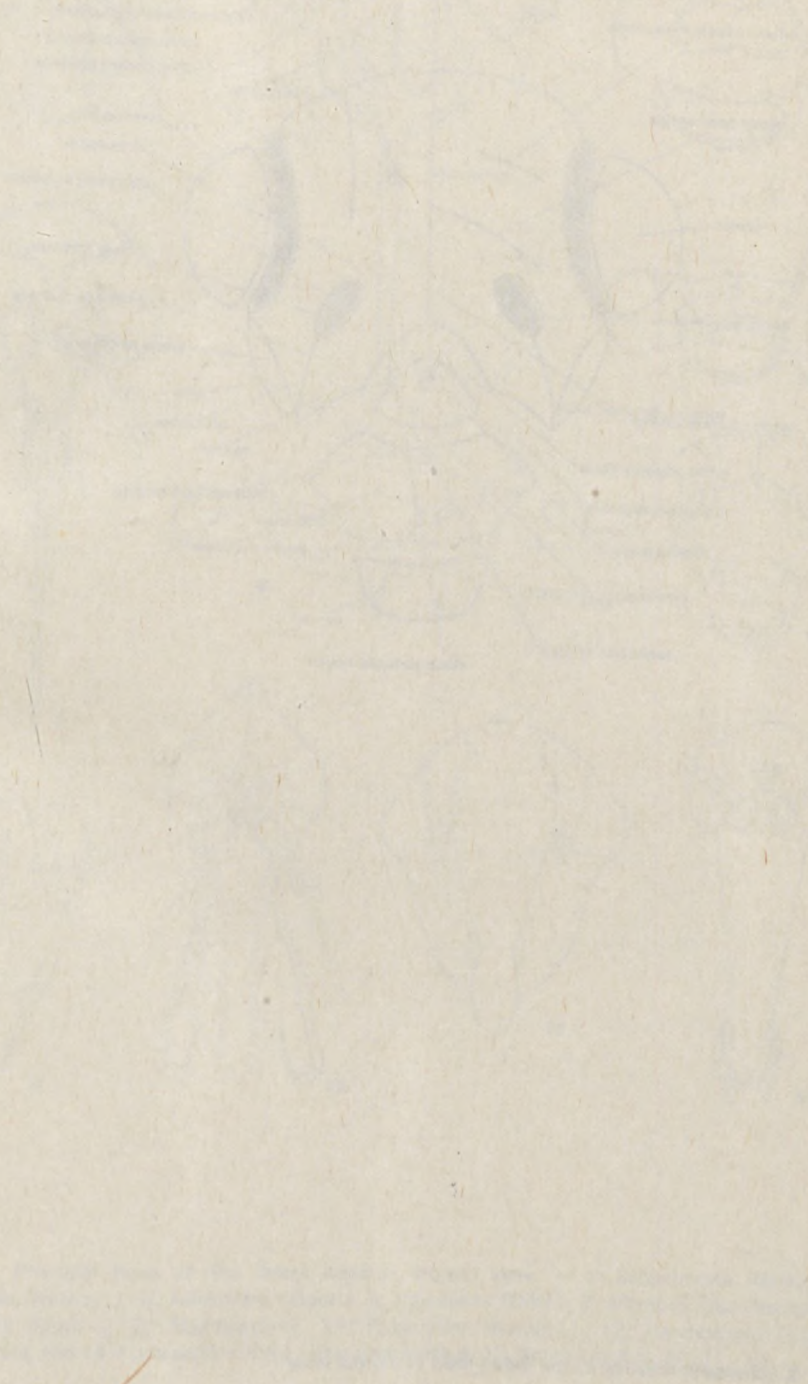
PLATES





Figs. 1–2. Schematic drawing of the insect in lateral view. — 1: Wingless, and 2: winged (after Kéler 1, and Weber 2)

THE HEAD



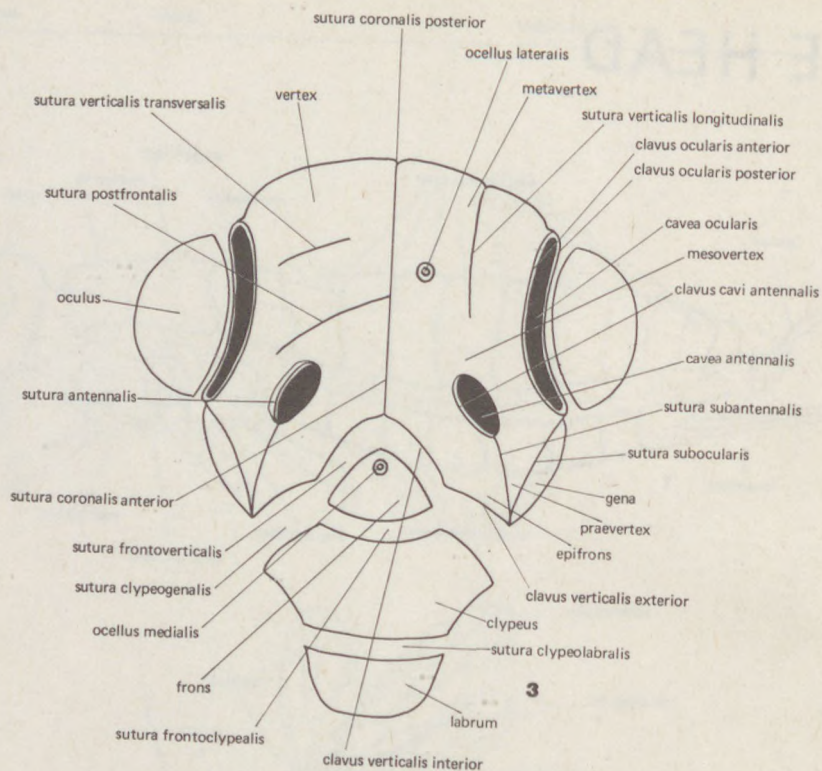
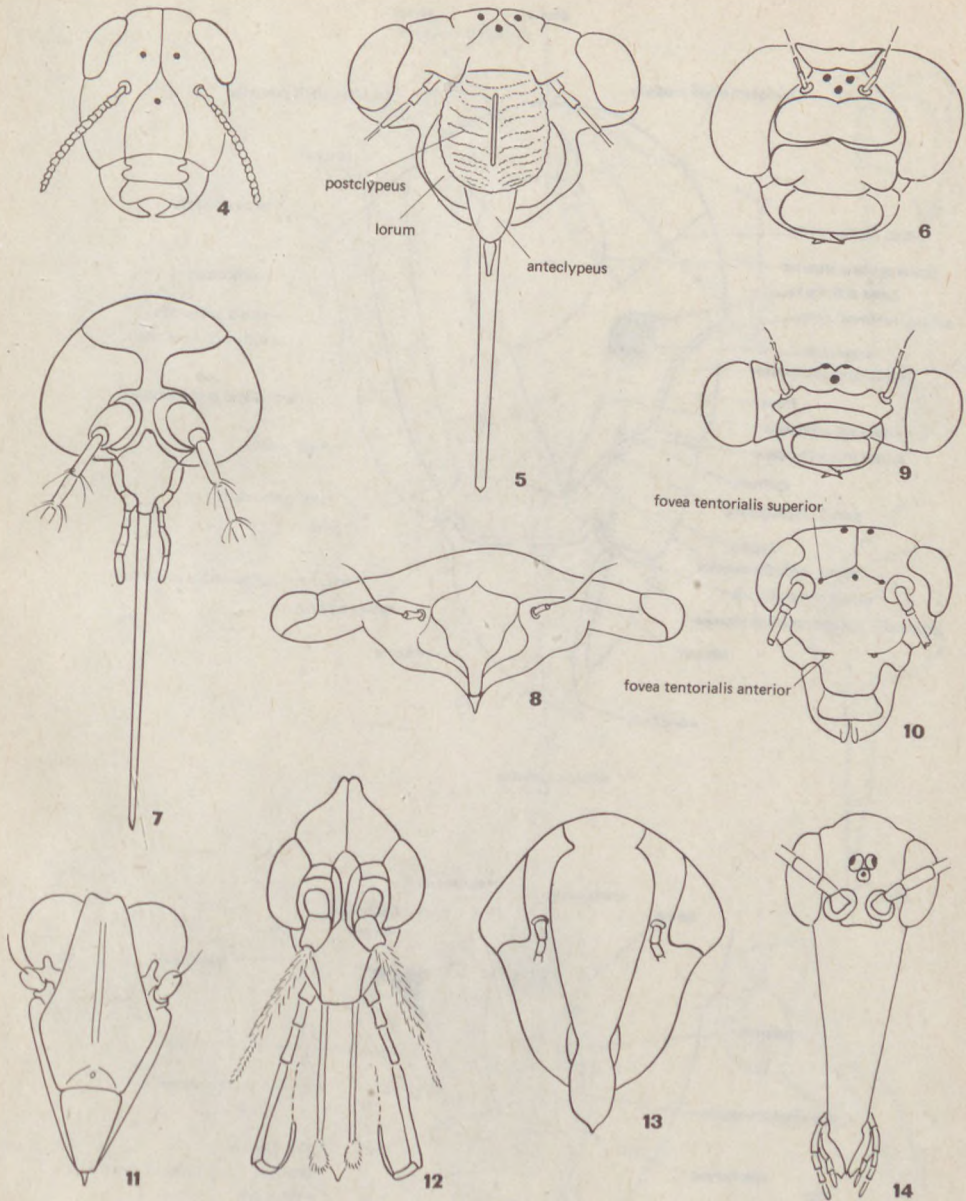


Fig. 3. Schematic drawing of the insect head in frontal view



Figs. 4–14. Principal types of the insect head in frontal view. — 4: *Schistocerca* (Orthopt.), 5: *Magicicada* (Homopt.), 6: Anisoptera (Odon.) 7: *Culicoides* (Dipt.), 8: Membracidae (Homopt.), 9: Zygoptera (Odon.), 10: Hymenoptera, 11: Fulgoridae (Homopt.), 12: Psychodidae (Dipt.), 13: Heteroptera, and 14: *Panorpa* (Mecopt.) (after Shvanvich 5, 12, Snodgrass 4, 8, 10, 11, 13)

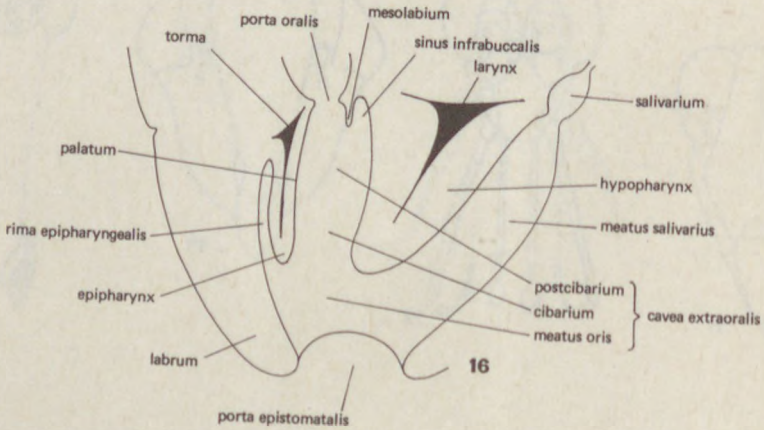
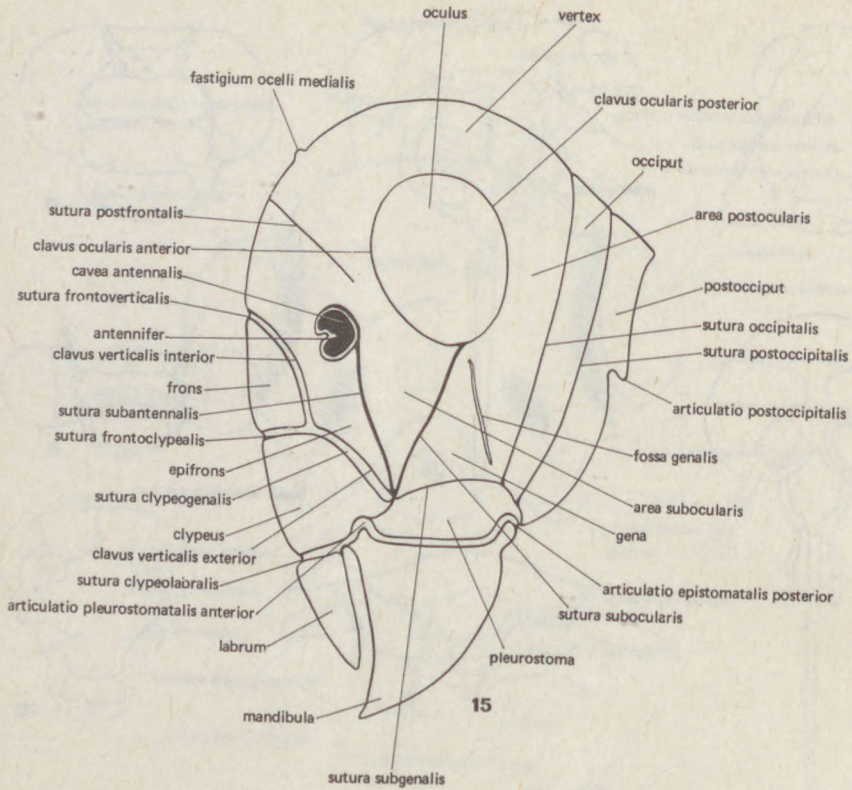
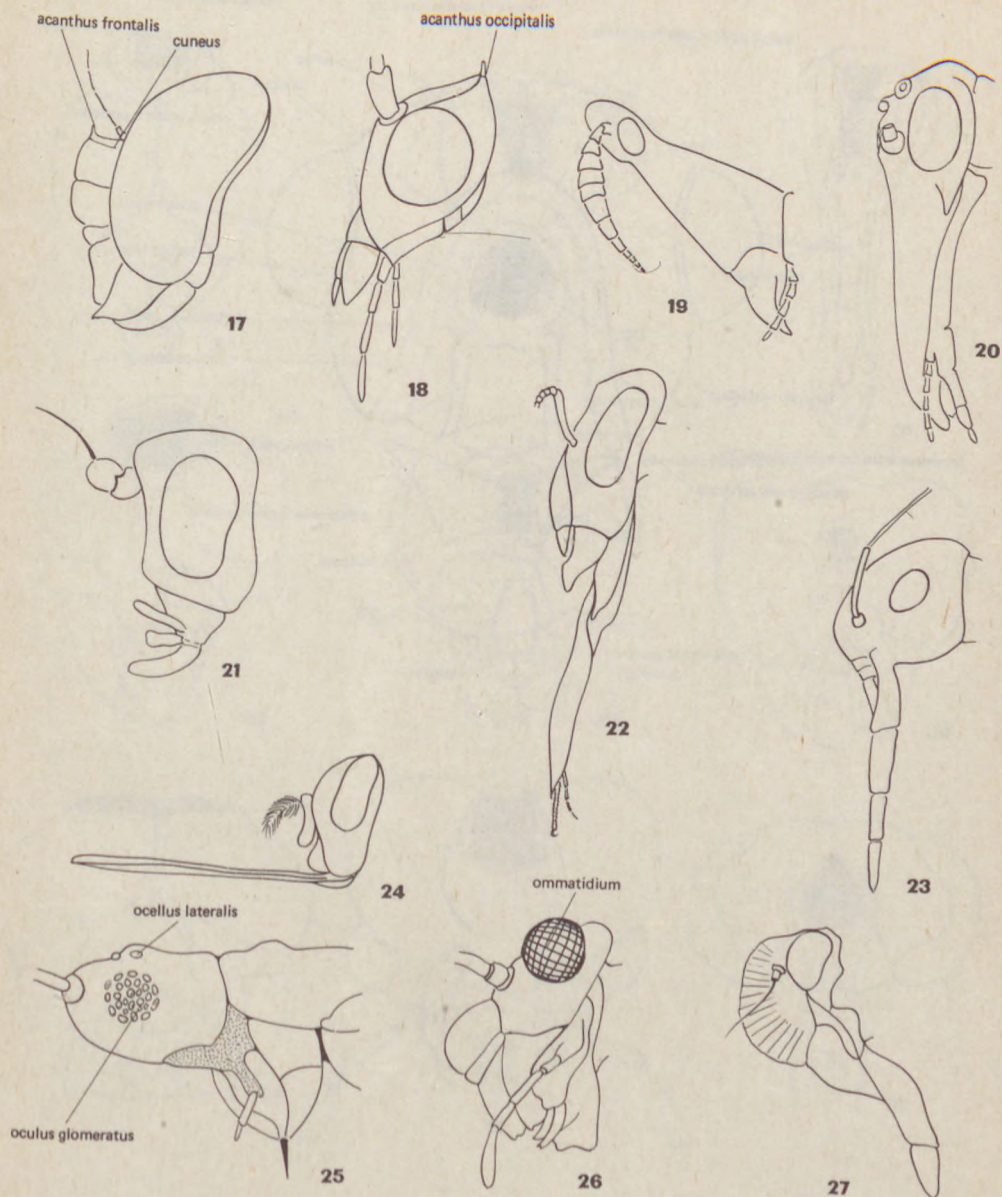


Fig. 15. Schematic drawing of the insect head in lateral view. — 16. Diagrammatic representation of the preoral cavity in longitudinal section (after Steinmann and Zombori 16)



Figs. 17–27. Principal types of the insect head in lateral view. — 17: *Sympetrum* (Odon.), 18: *Wesmælius* (Neuropt.), 19: *Acrida* (Orthopt.), 20: *Panorpa* (Mecopt.), 21: Diptera, 22: *Apis* (Hymenopt.), 23: Heteroptera, 24: *Glossina* (Dipt.), 25: Thrips (Thysanopt.), 26: *Psocus* (Psocopt.), and 27: *Magici-cada* (Homopt.) (after Snodgrass 21, 24, 26, 27 and Shvanvich 22, 25)

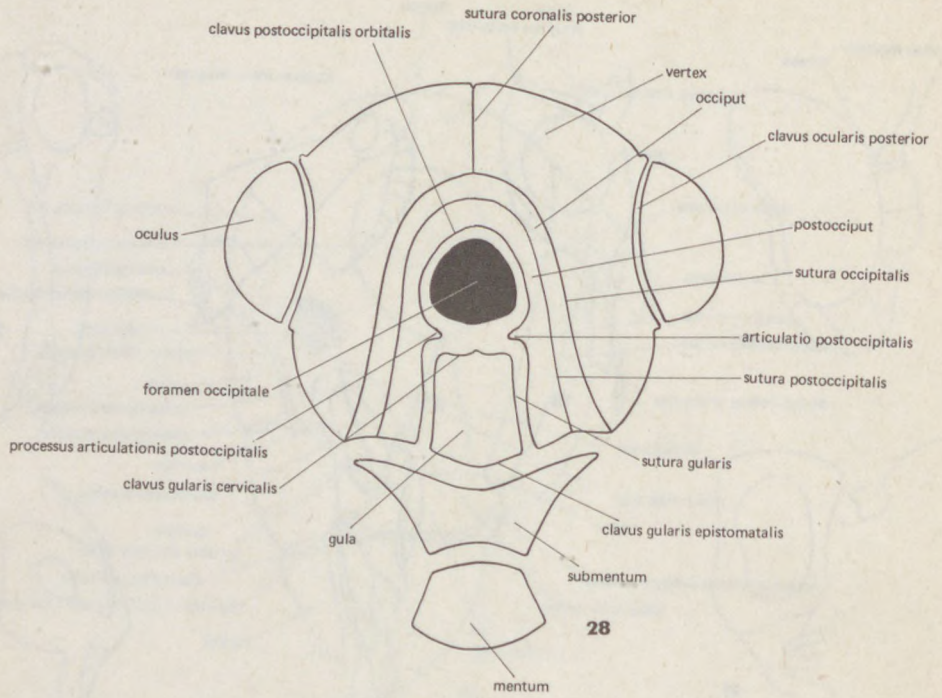
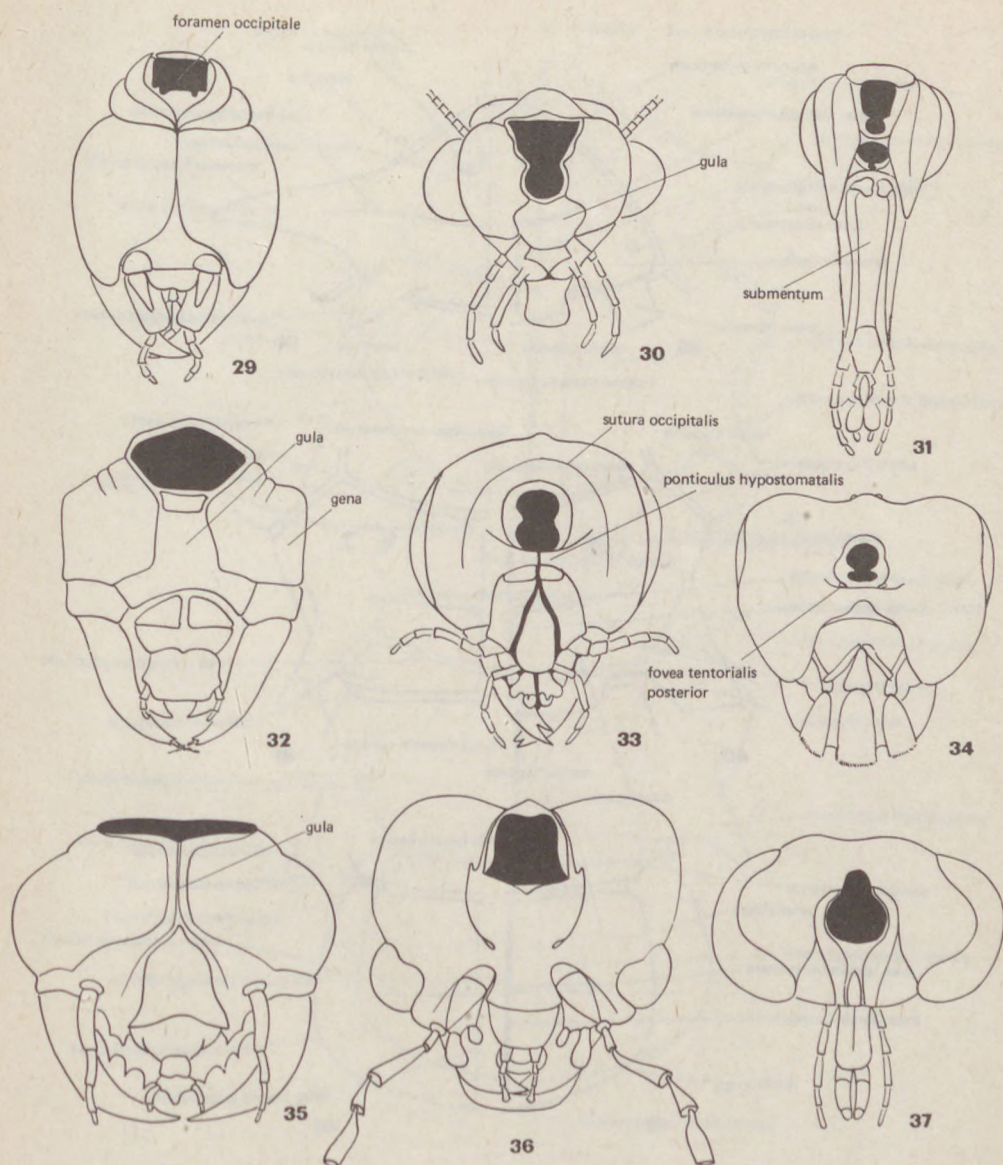
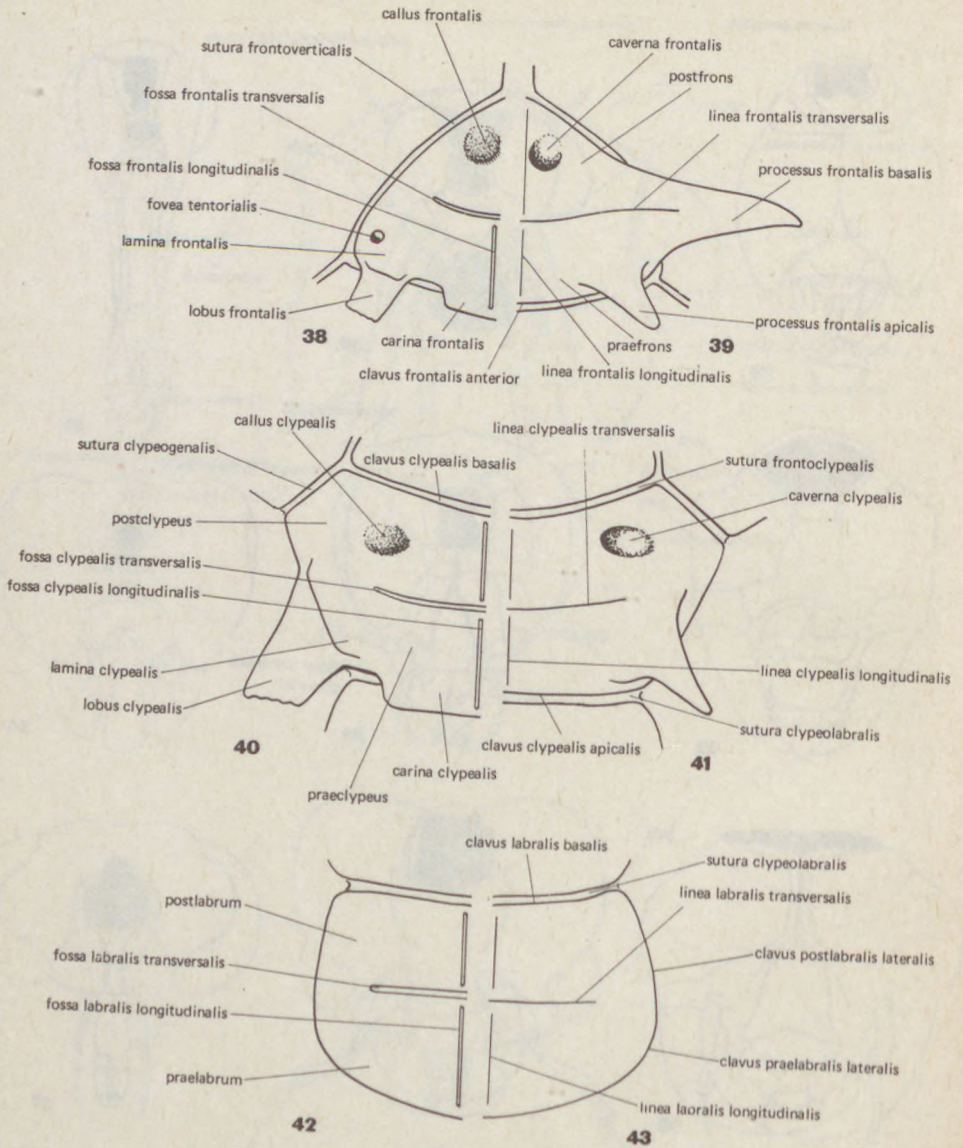


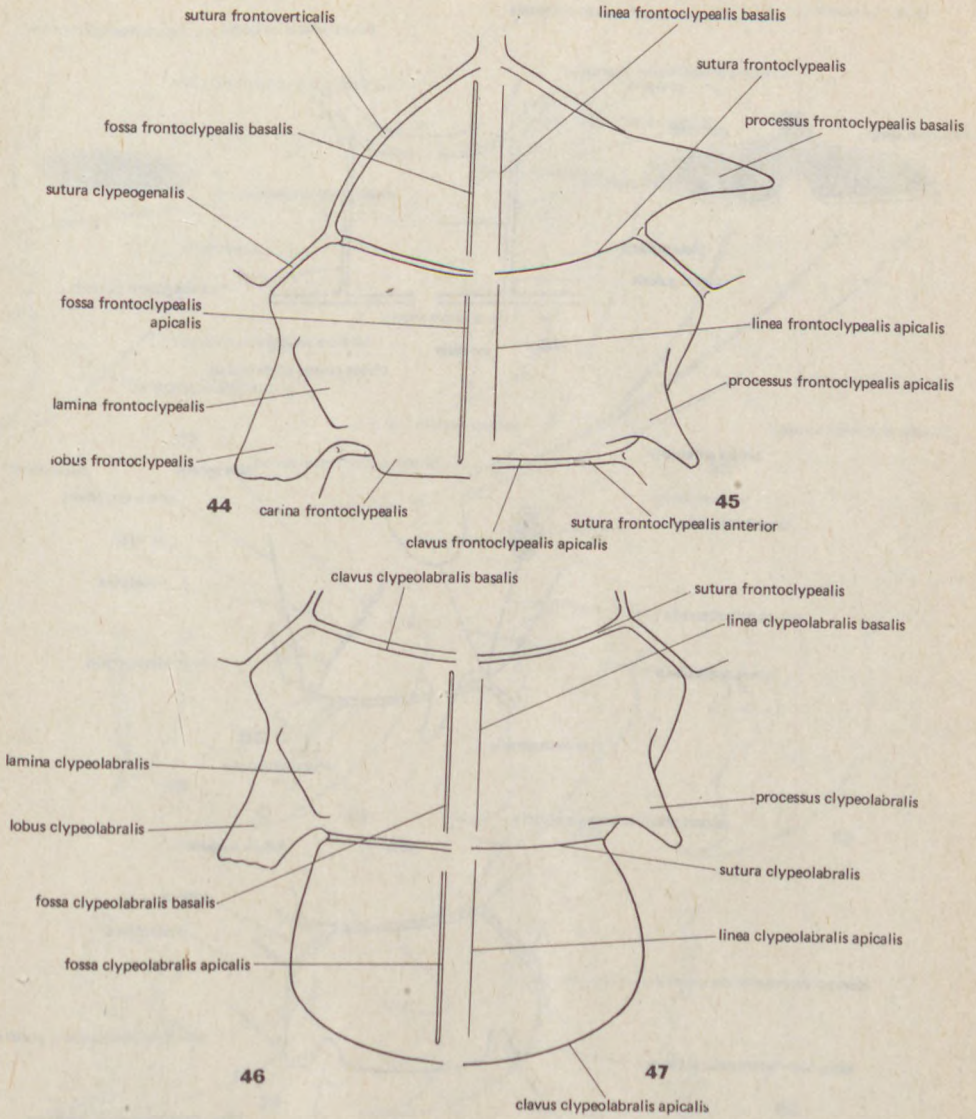
Fig. 28. Schematic drawing of the insect head in posterior view



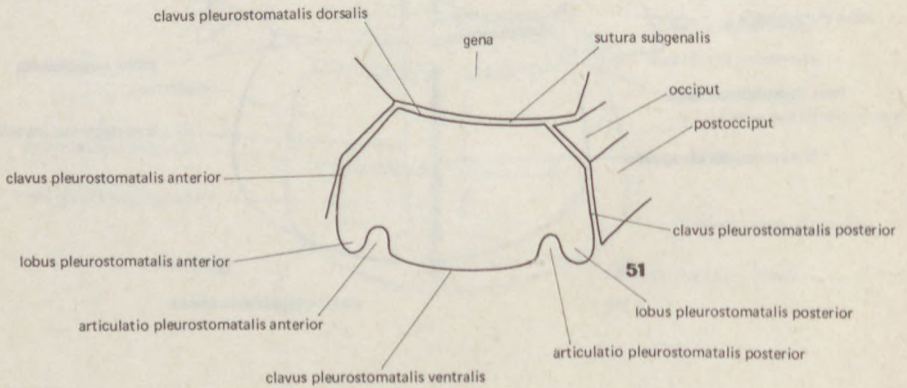
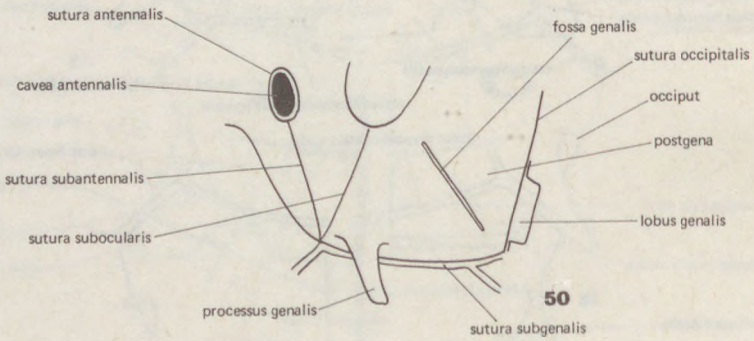
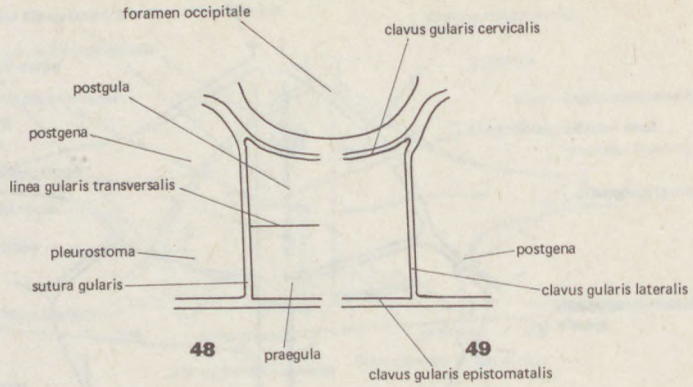
Figs. 29-37. Principal types of the insect head in posterior view. — 29: *Staphylinus* (Coleopt.), 30: *Myrmeleon* (Neuropt.), 31: *Panorpa* (Mecopt.), 32: *Sialis* (Megalopt.), 33: *Vespa* (Hymenopt.), 34: *Apis* (Hymenopt.), 35: *Thinopinus* (Coleopt.), 36: *Melandrya* (Coleopt.), and 37: *Culicoides* (Dipt.) (after Shvanvich 33, and Snodgrass 29, 32, 34-37)



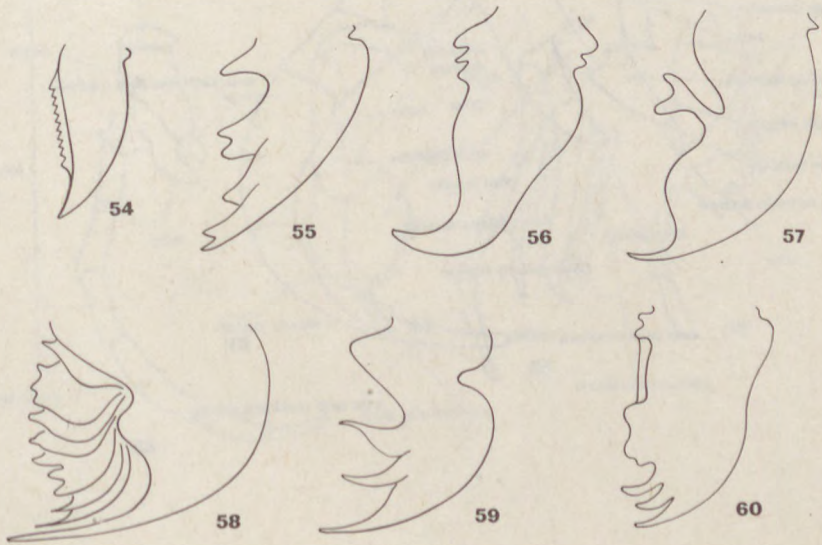
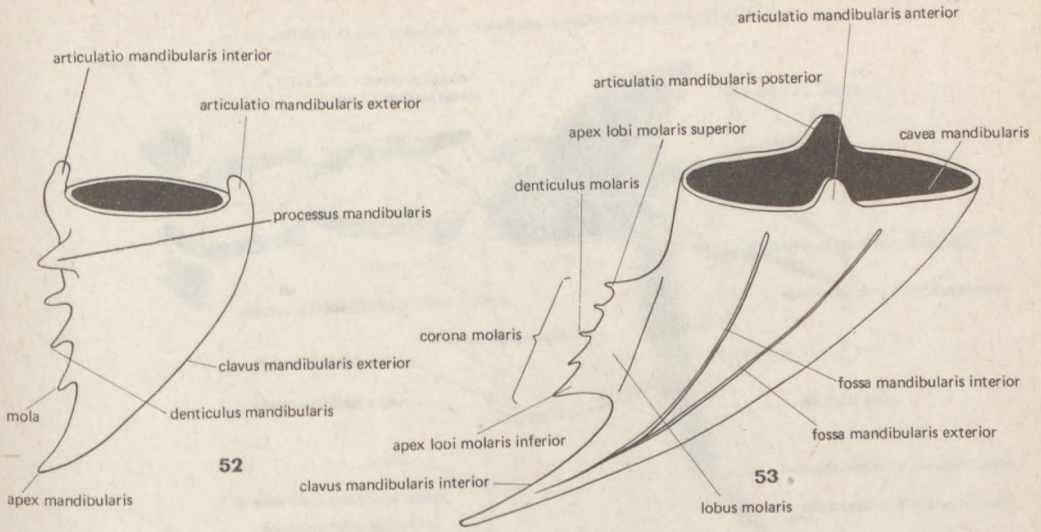
Figs. 38–43. Schematic drawing of 38–39: the frons, 40–41: the clypeus, and 42–43: the labrum



Figs. 44-47. Schematic drawing of 44-45: the frontoclypeus, and 46-47: the clypeolabrum



Figs. 48–51. Schematic drawing of 48–49: the gula, 50: the gena, and 51: the pleurostoma



Figs. 52-60. The mandible (mandibula). - 52-53: The two main types of mandibular articulation. 54-60: Principal types of the mandible, 54: *Heliocopriss* (Coleopt.), 55-56: Orthoptera, 57: *Anax* (Odon.), 58: *Acrydium* (Orthopt.), 59: *Hydrous* (Coleopt.), and 60: *Periplaneta* (Blatt.) (after Shvanvich 54-60)

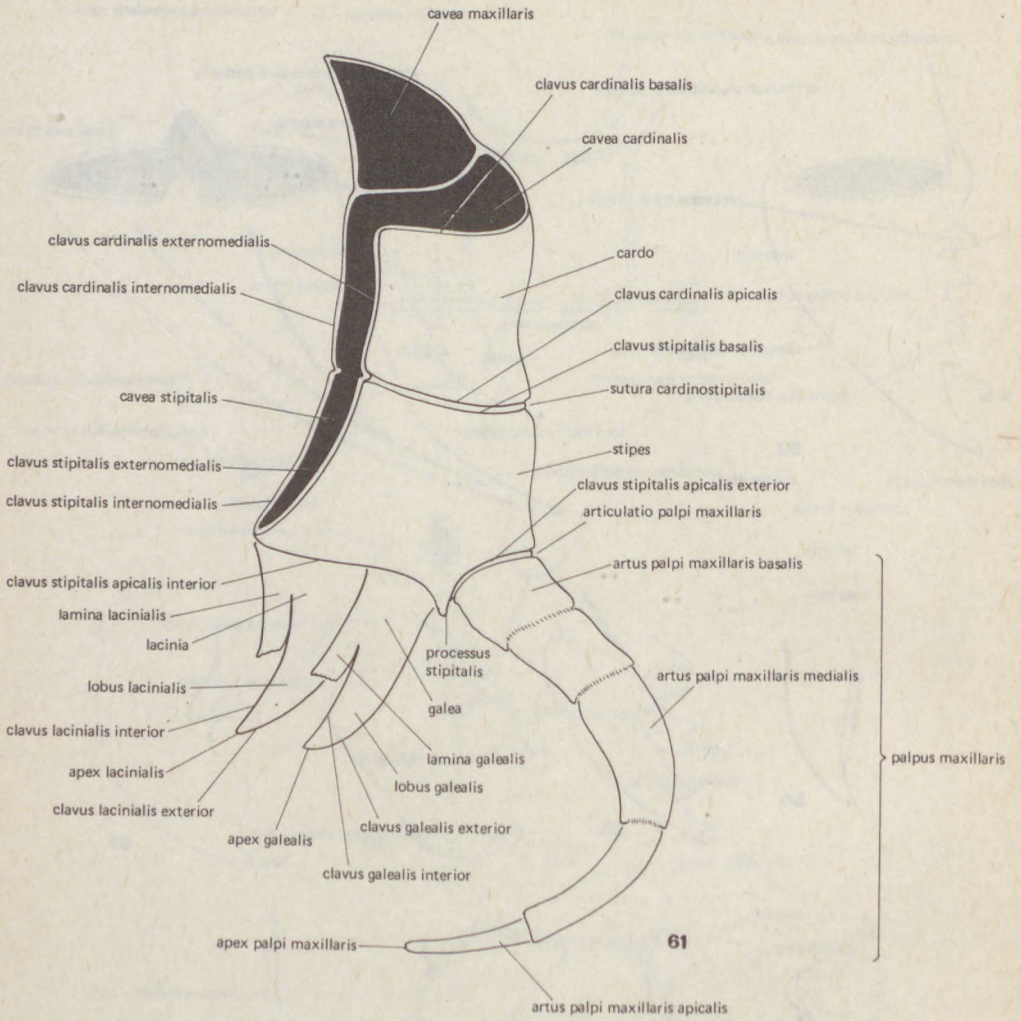
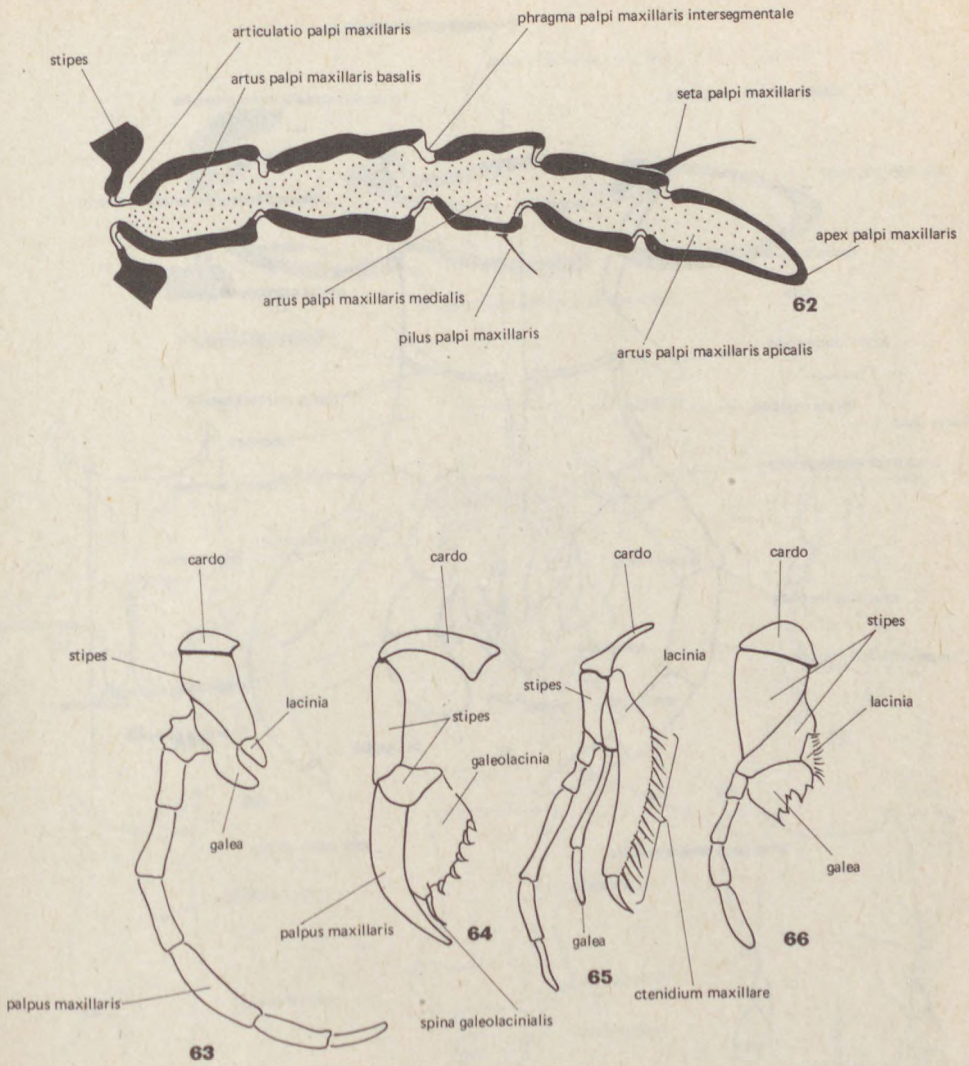
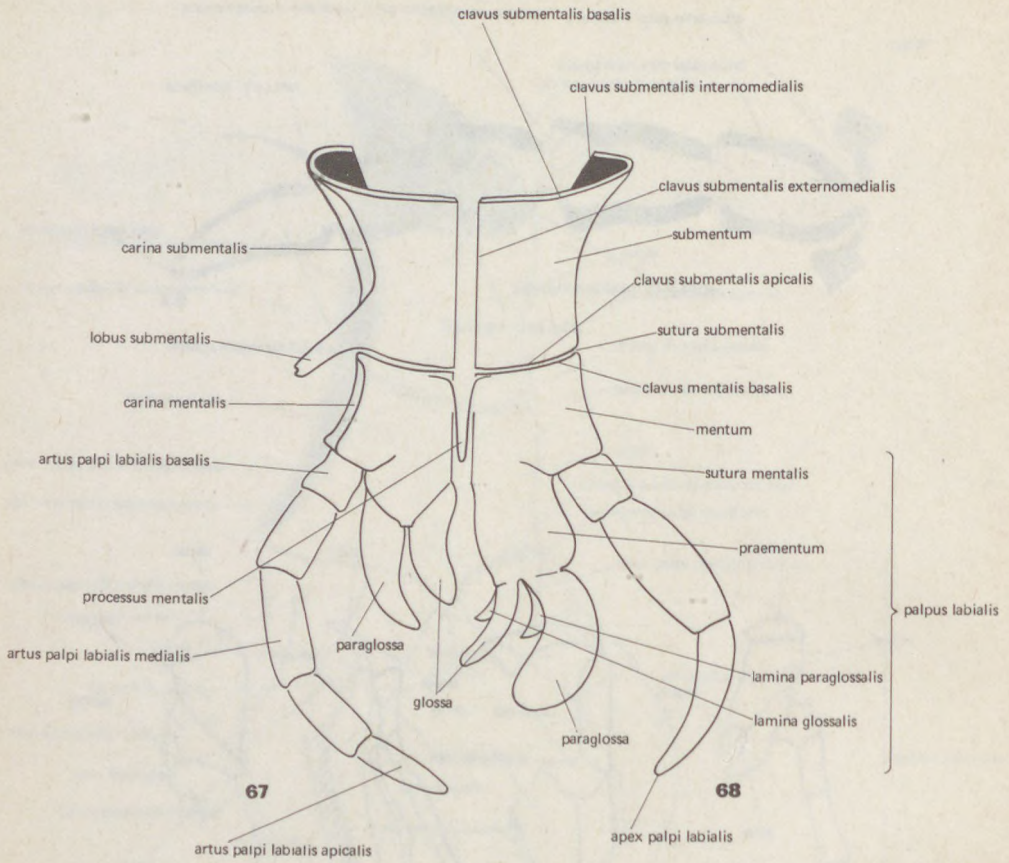


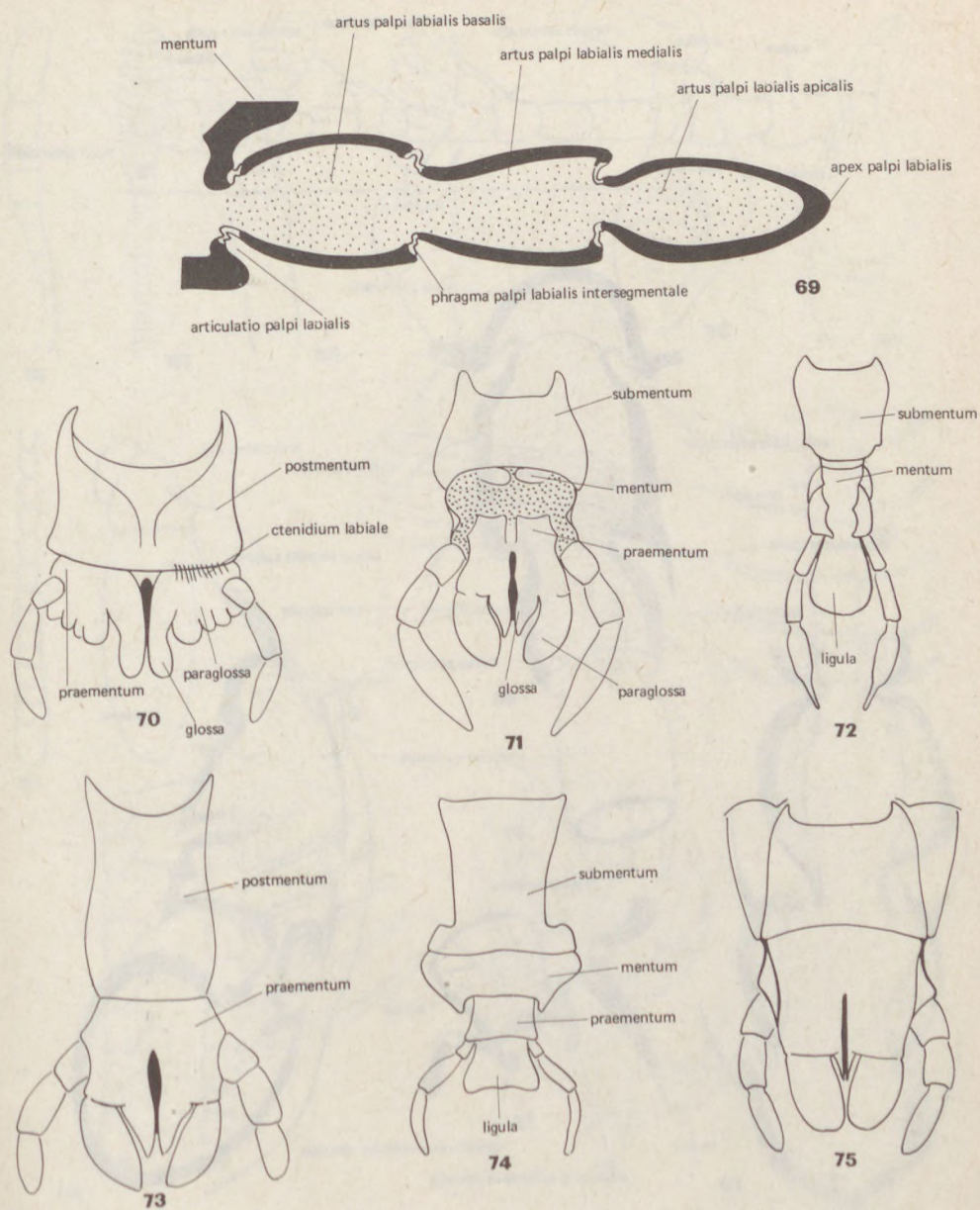
Fig. 61. The maxilla



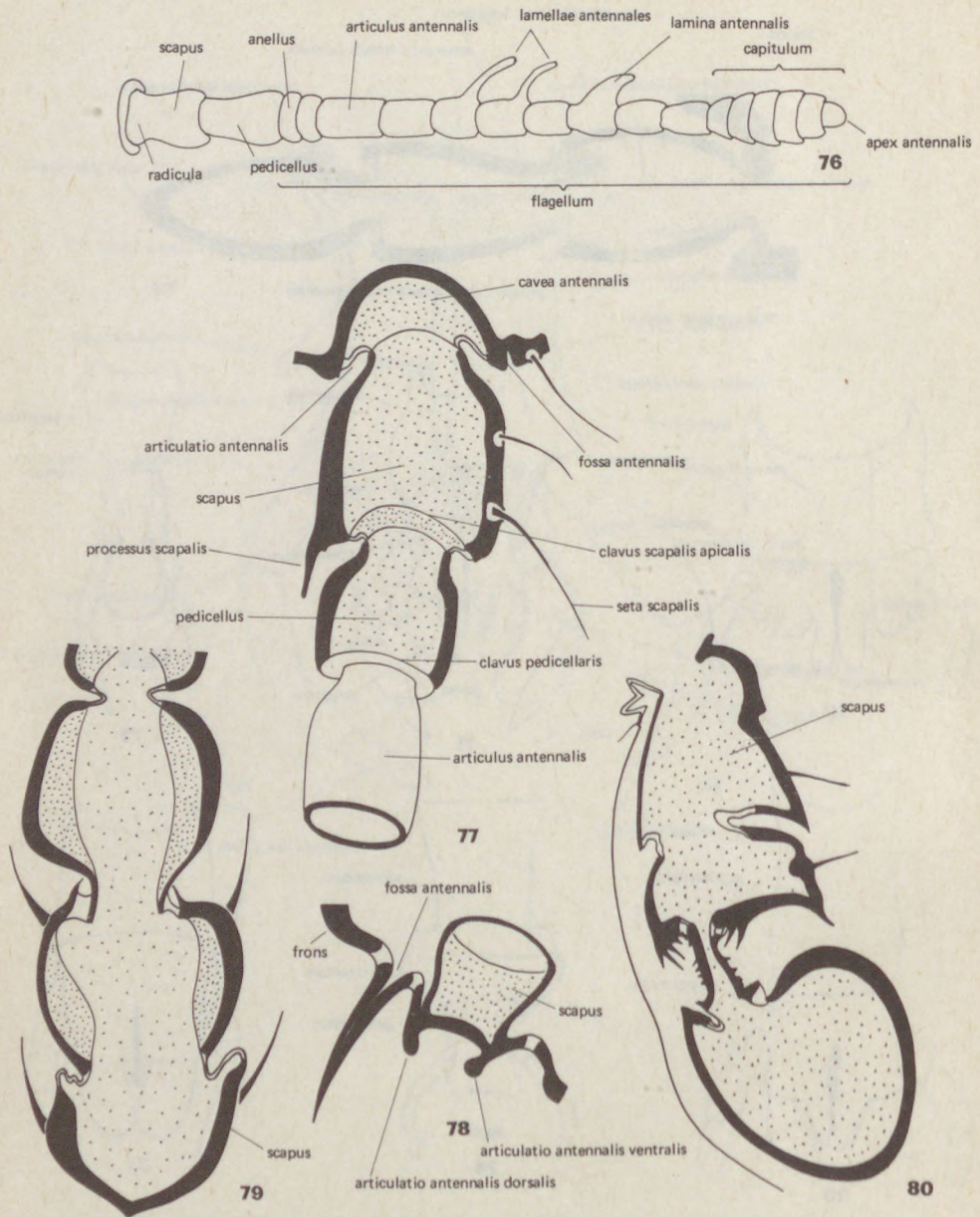
Figs. 62–66. The maxillary palp (palpus maxillaris) and the principal types of the maxilla. — 62: The maxillary palp, 63: *Machilis* (Thysanura), 64: *Aeshna* (Odon.), 65: *Cicindela* (Coleopt.), and 66: *Melolontha* (Coleopt.) (after Wenk 62, and Weber 63–66)



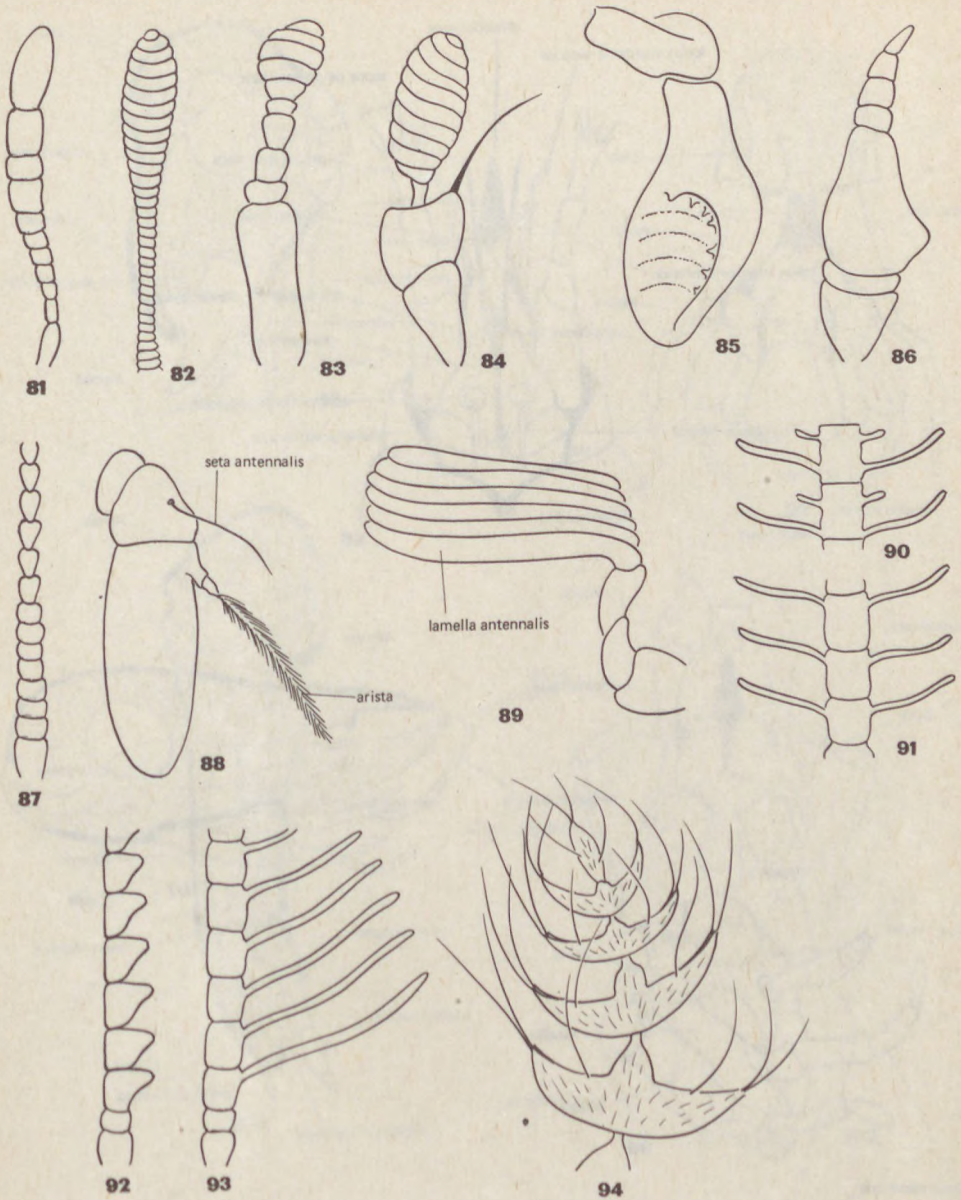
Figs. 67–68. The labium. — 67: Schematic drawing of a five-jointed, and 68: a three-jointed palp



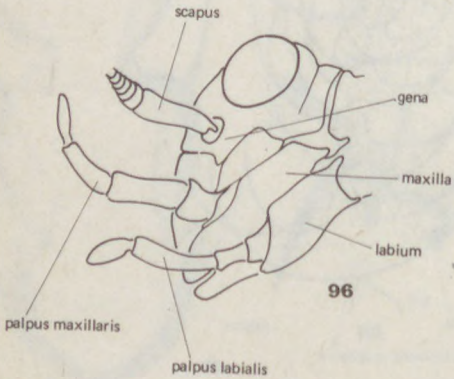
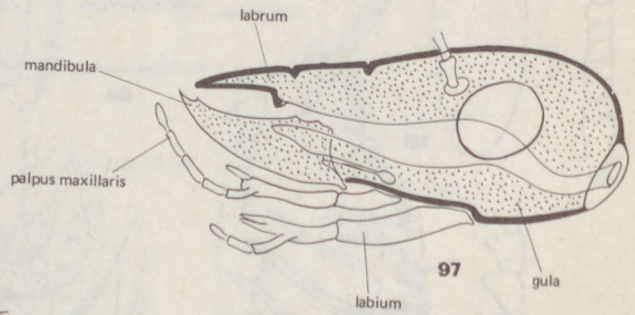
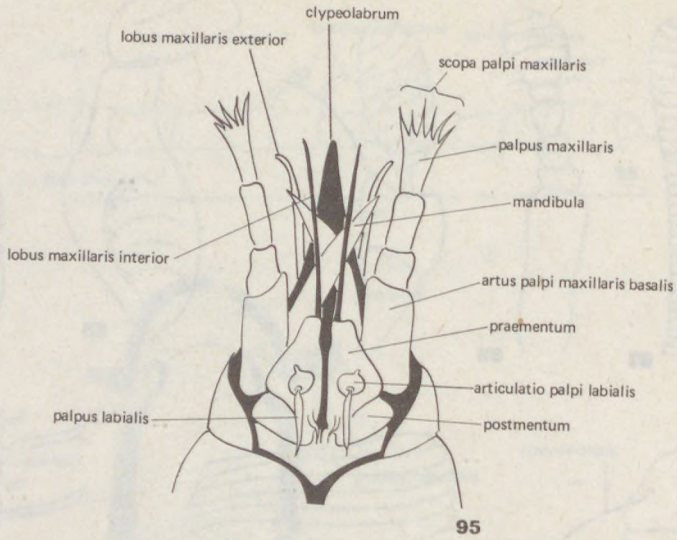
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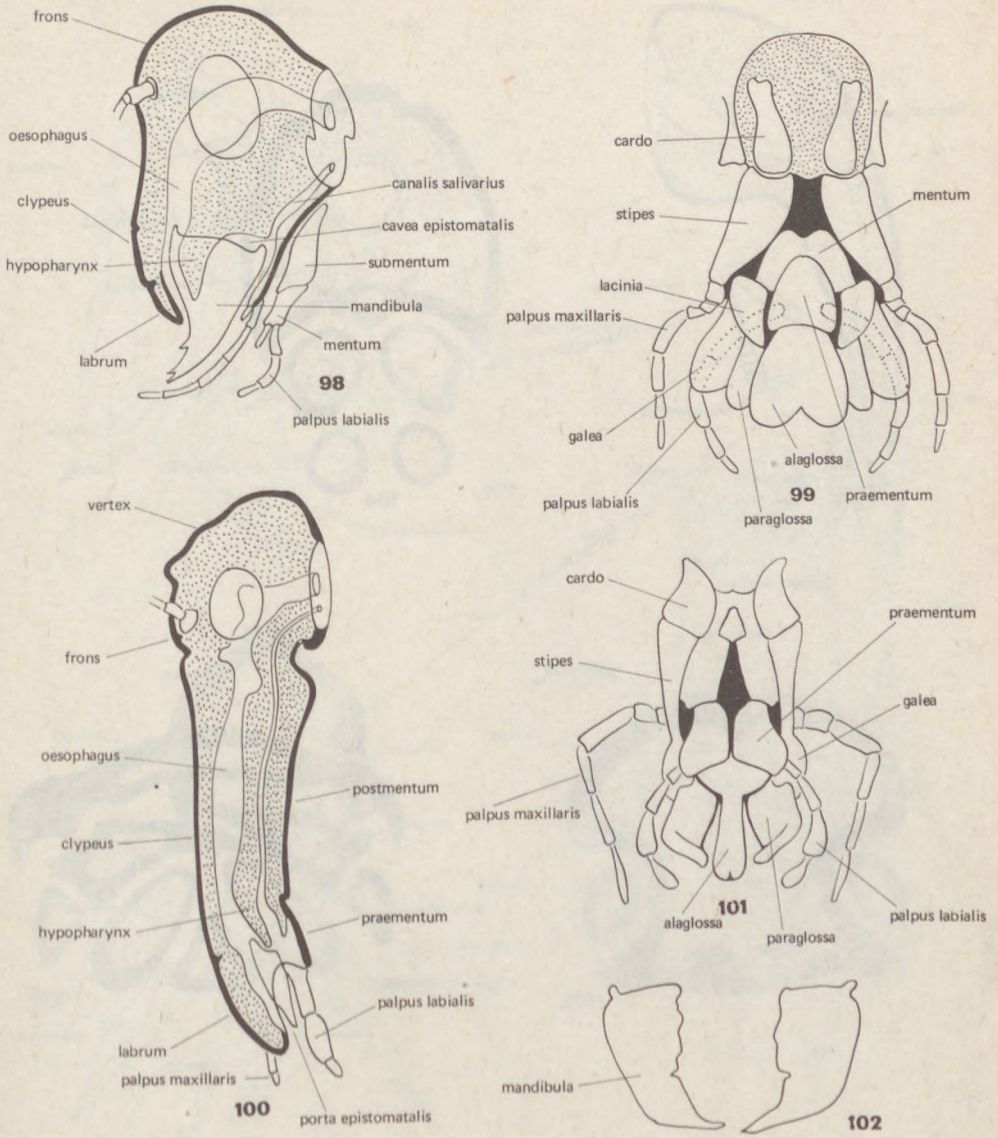
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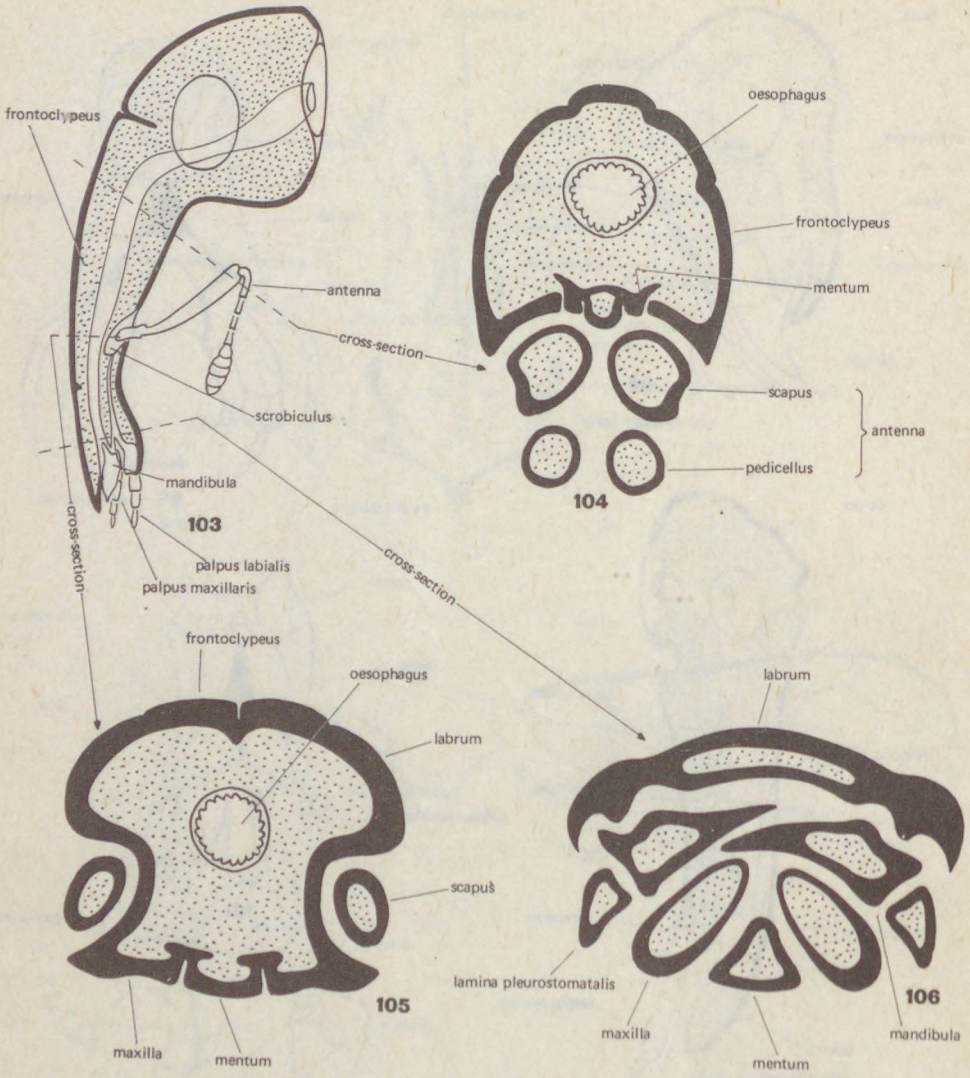
Figs. 81–94. Characteristic types of the antenna. — 81: Abbreviate antenna (antenna abbreviata). 82: incrassate (a. incrassata), 83: clavate (a. clavata), 84: spathulate (a. spathulata), 85: laminate (a. laminata), 86: mucronate (a. mucronata), 87: attenuate (a. attenuata), 88: setigerous (a. setigera), 89: lamellate (a. lamellata), 90: alternately pinnate (a. inaequaliter pinnata), 91: plumose (a. plumata), 92: imbricate (a. imbricata), 93: pectinate (a. pectinata), and 94: fusiform (a. fusiformis) (after Daday)



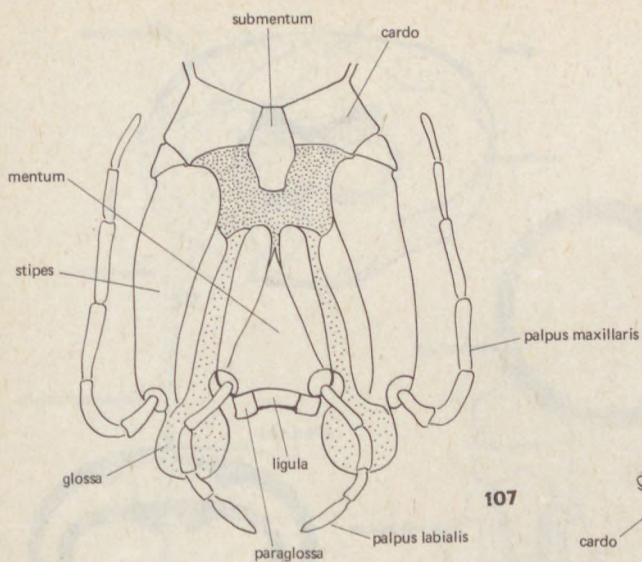
Figs. 95–97. Principal types of the insect head. — 95: Entognath, 96: hypognath, and 97: prognath (after Matsuda 95, and Snodgrass 96)



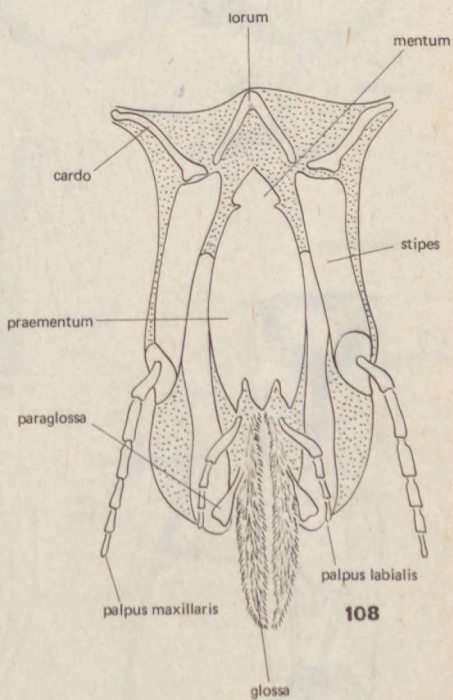
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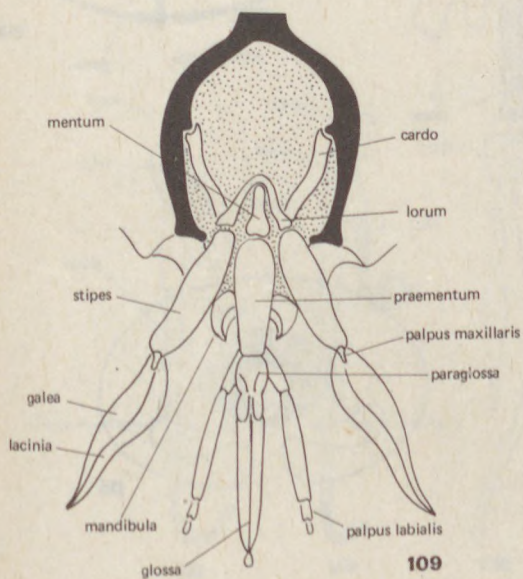
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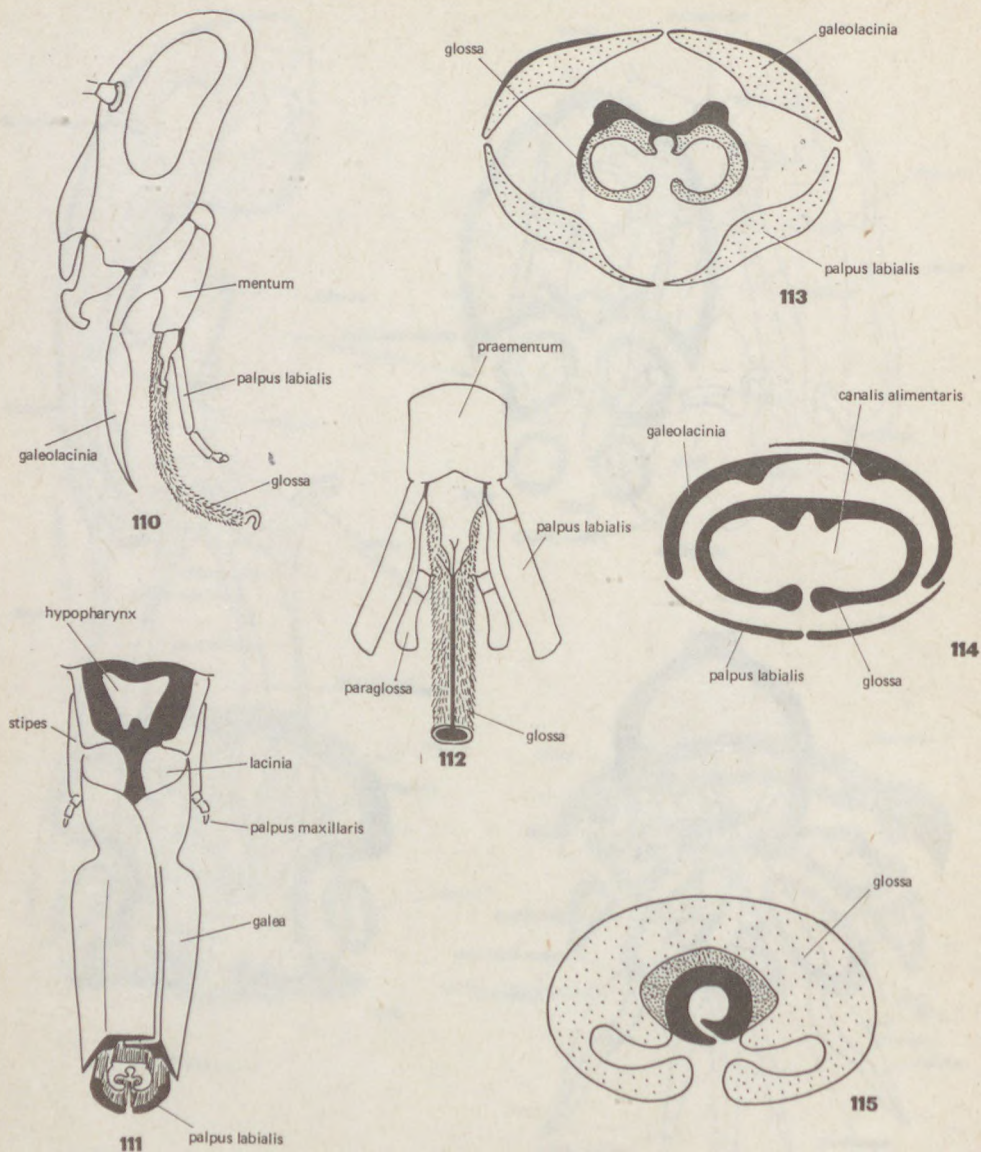


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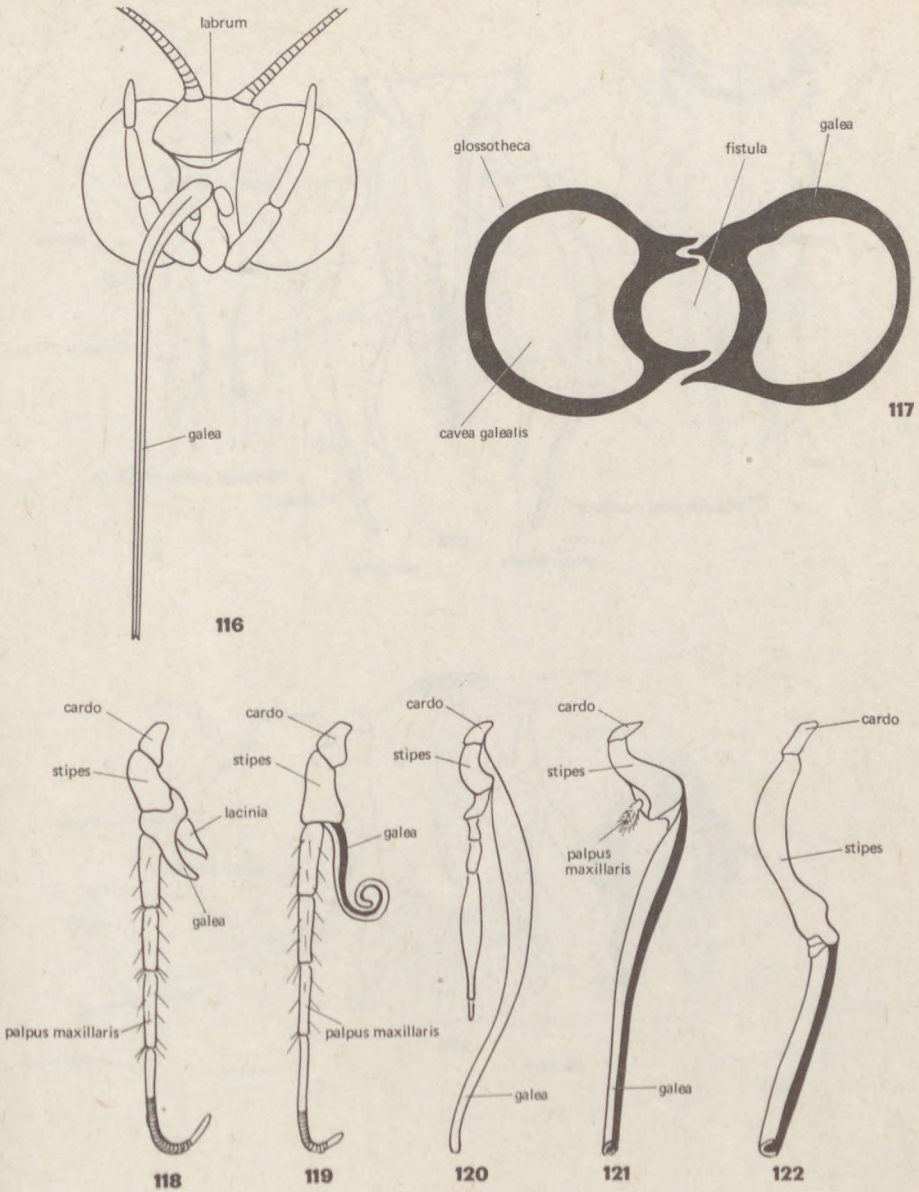


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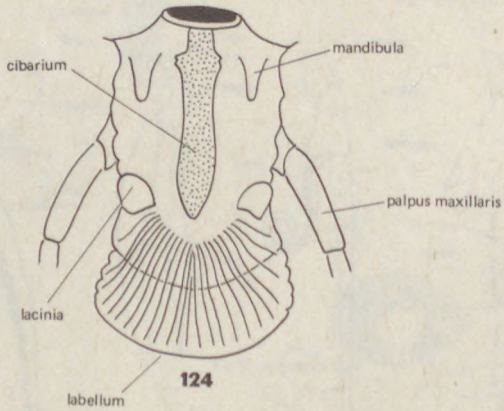
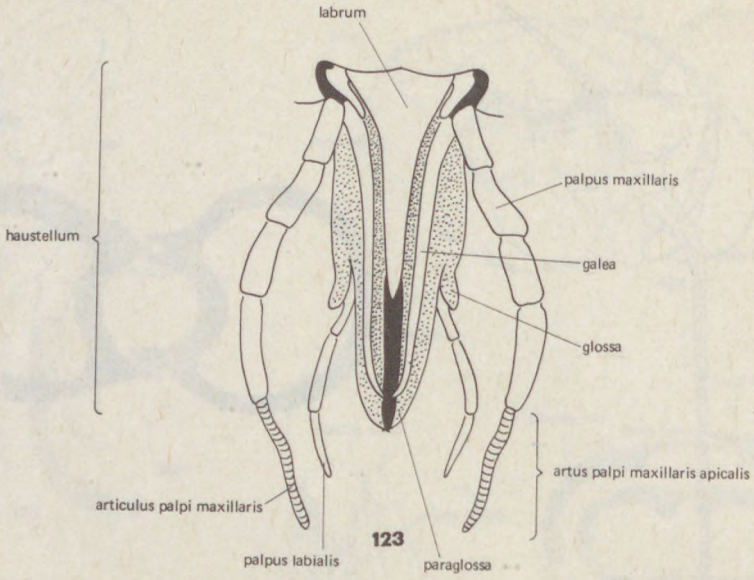
Figs. 107–109. Three types of mouthparts of Hymenoptera. — 107: Biting mouthparts of the Sphecid-type, 108: transitional form between the biting and licking mouthparts of the *Andrena*-type, and 109: normal licking mouthparts of the *Apis*-type (after Snodgrass)



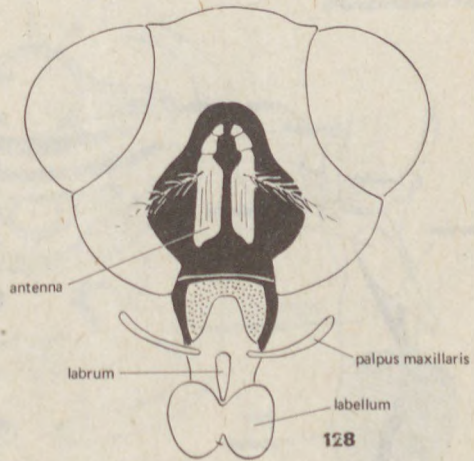
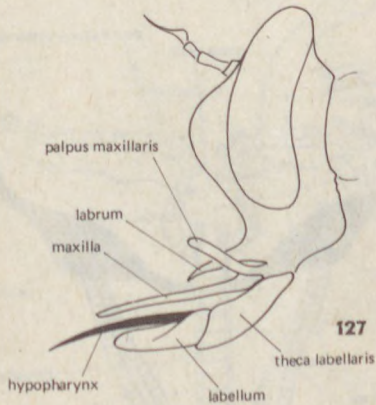
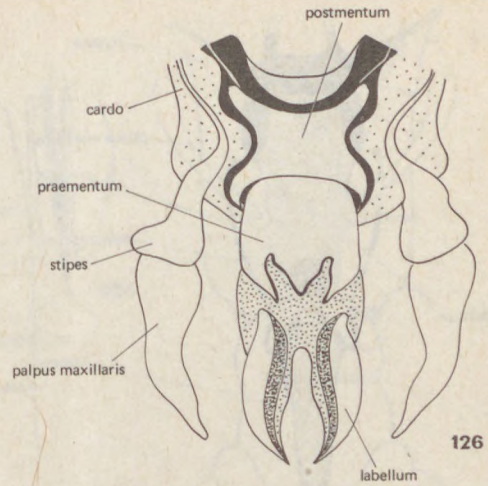
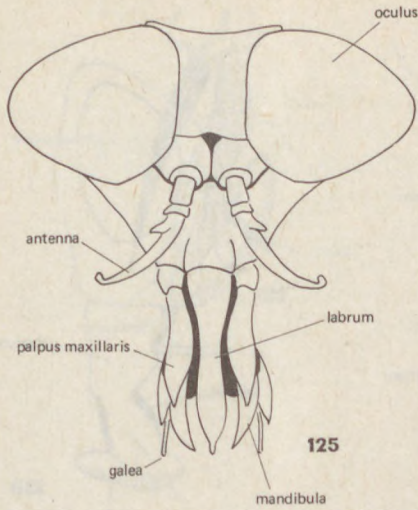
Figs. 110–115. Mouthparts of the licking type. — 110: Head of *Apis* (Hymenopt.) in lateral view, 111: proboscis with galea, 112: modified glossa in lateral view. 113: Proboscis in basal cross-section, 114: schematic proboscis in cross-section, and 115: proboscis in apical cross-section (after Shvanvich 111–115)



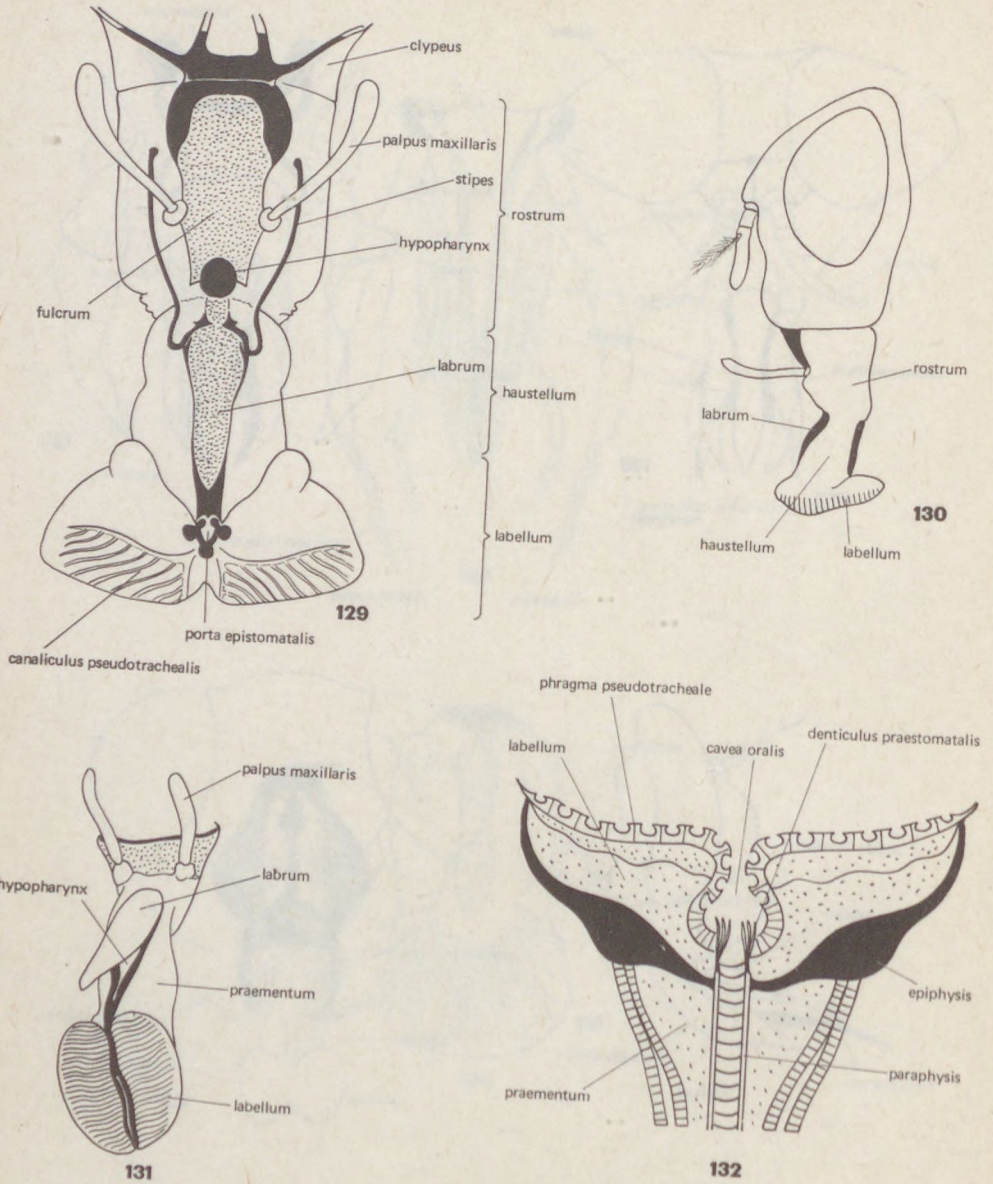
Figs. 116–122. Mouthparts of the sucking type of Lepidoptera. 116: Head with coiled proboscis (lingua spiralis), 117: schematic proboscis in cross-section (instrumenta suctoria). 118–122: Modified galea, 118: Micropteryx-type, 119: Mnemonica-type, 120: Pronuba-type, 121: Synanthedon-type, and 122: Sphinx-type (after Weber 117, and Shvanvich 118–122)



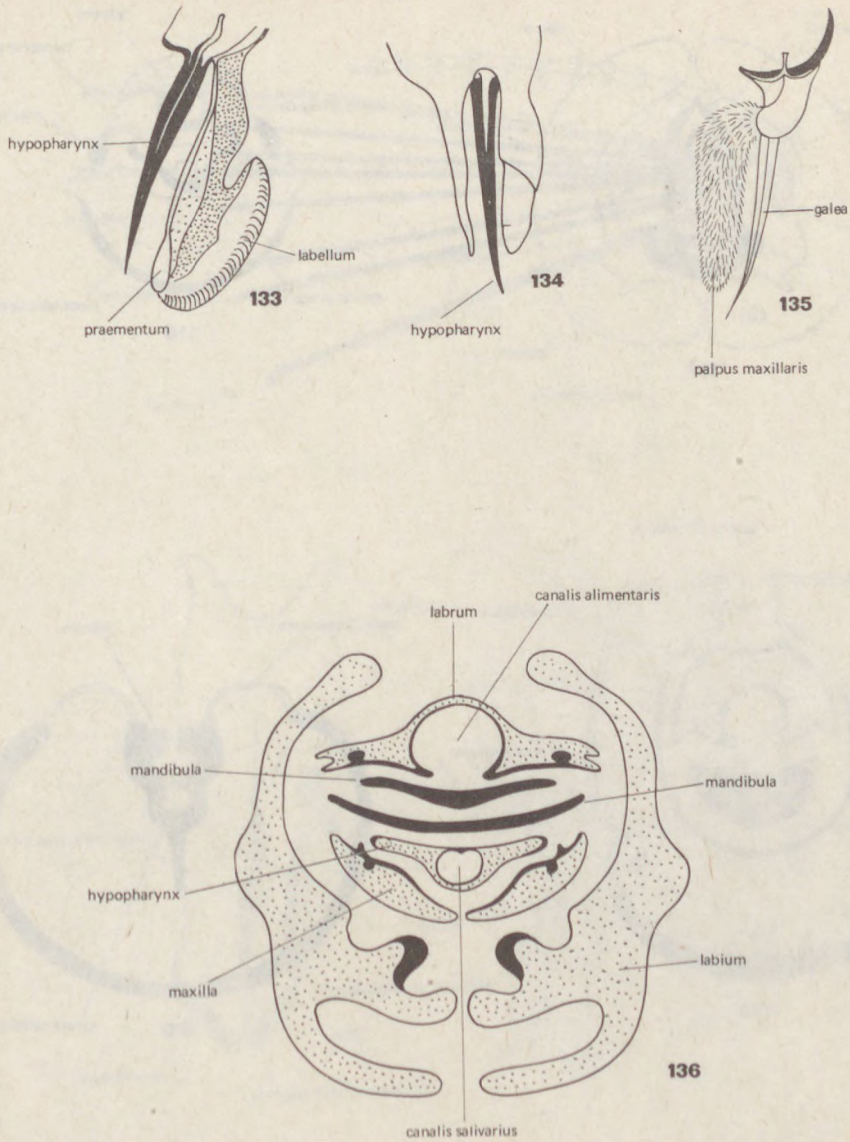
Figs. 123–124. Mouthparts of the sucking type of Trichoptera. — 123: Ventral aspect of proboscis of *Dipseudopsis*-type, and 124: dorsal aspect of the same of the *Phryganea*-type (after Crichton 123, and Matsuda 124)



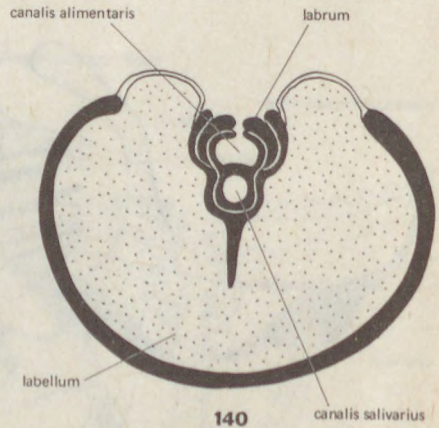
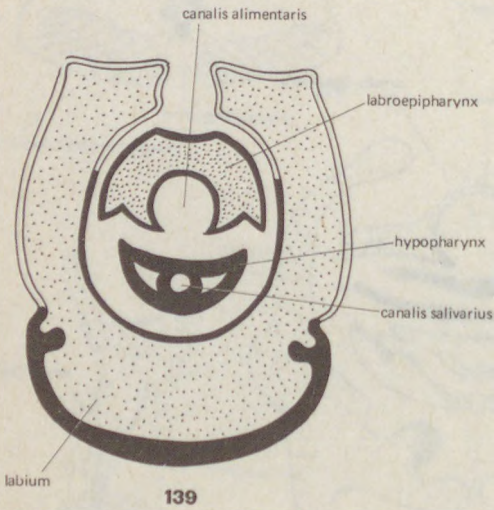
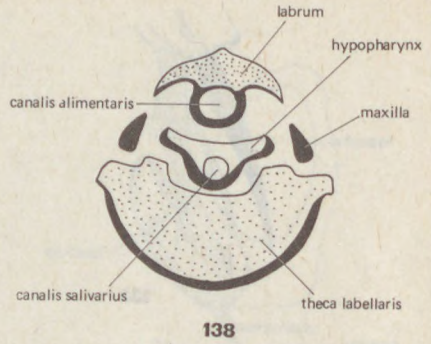
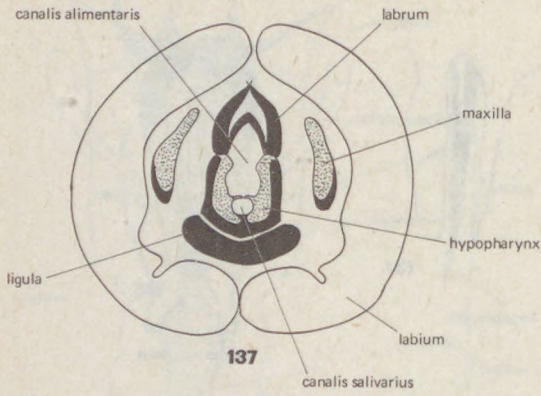
Figs. 125–128. Mouthparts of the piercing-sucking type with labellum. — 125: *Tabanus* head (Dipt.) in frontal view. 126: Mouthparts of the *Tabanus*-type in ventral view, 127: *Asilus* (Dipt.) head in lateral view, and 128: *Schizophora* (Dipt.) head in frontal view (after Snodgrass 125–126, Matsuda 127, and Shvanvich 128)



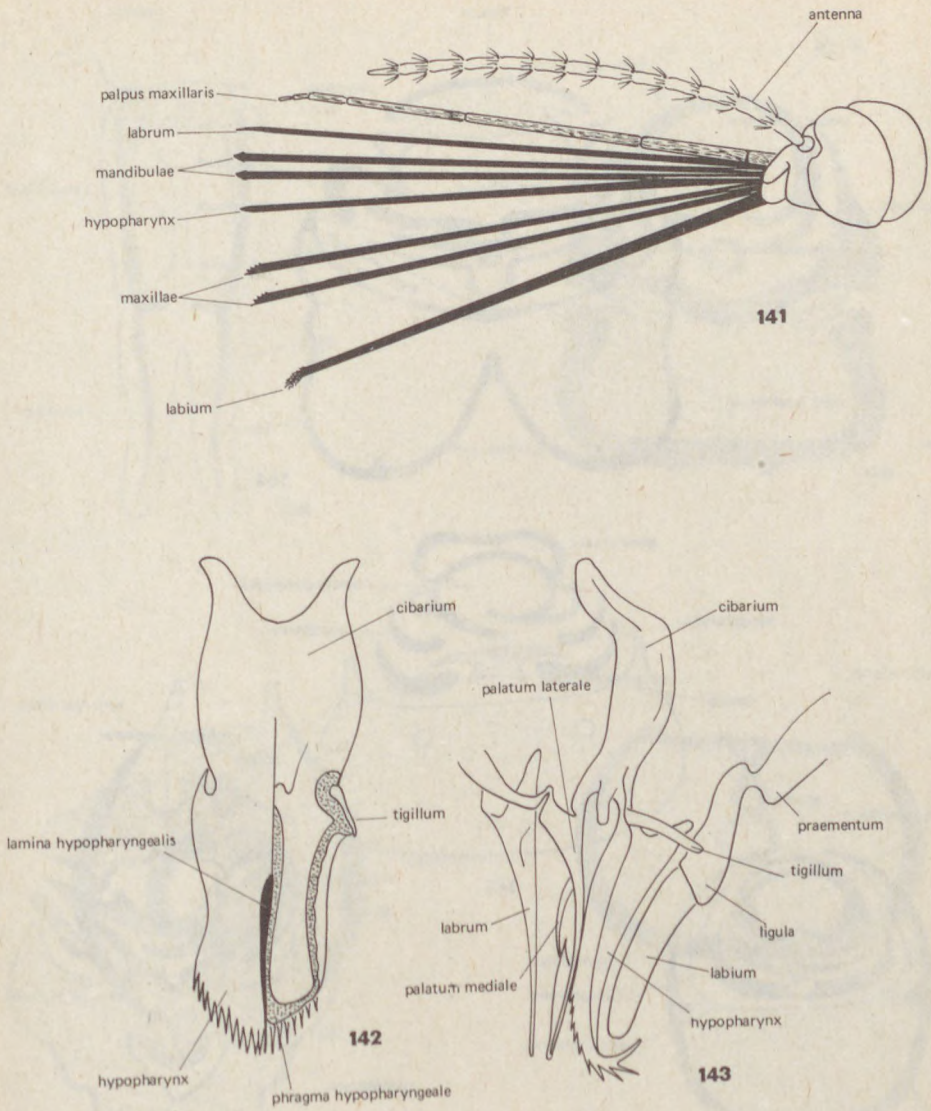
Figs. 129–132. Mouthparts of the piercing-sucking type with labellum. — 129: Proboscis of the Musca-type (Dipt.) in posterior view, 130: same in lateral view, 131: proboscis of the Musca-type in ventrolateral view, and 132: the labellum in longitudinal section (after Snodgrass 129–131, and Matsuda 132)



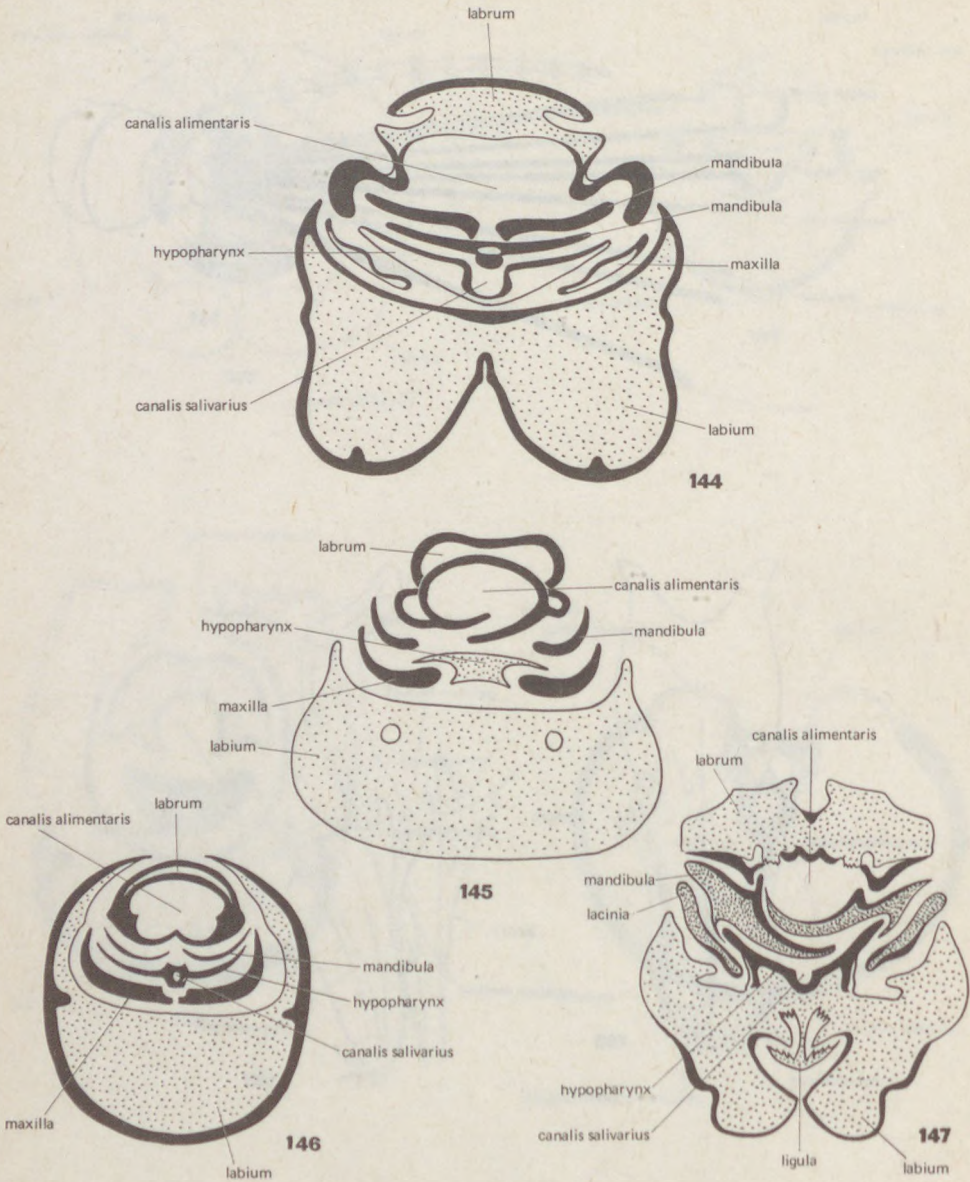
Figs. 133–136. Mouthparts of the piercing-sucking type with labellum. 133: Hypopharynx of the Tabanus-type (Dipt.), 134: same of the Asilus-type (Dipt.), 135: galea of the Tabanus-type, and 136: cross-section of proboscis of the Tabanus-type (after Snodgrass 133, 135, Shvanvich 134, and Séguy 136)



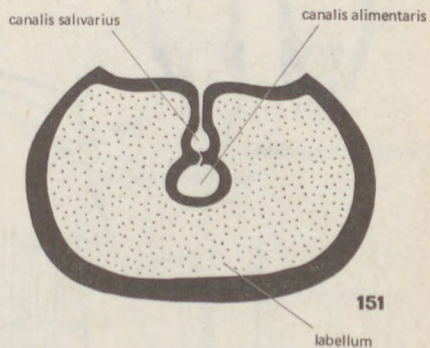
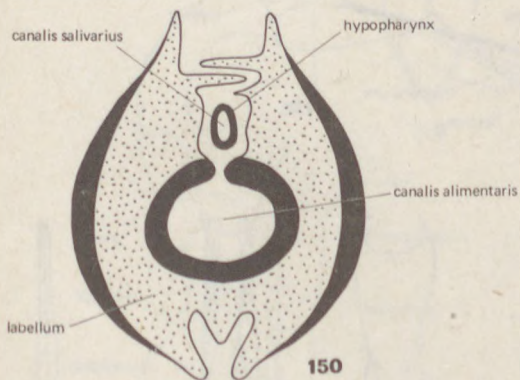
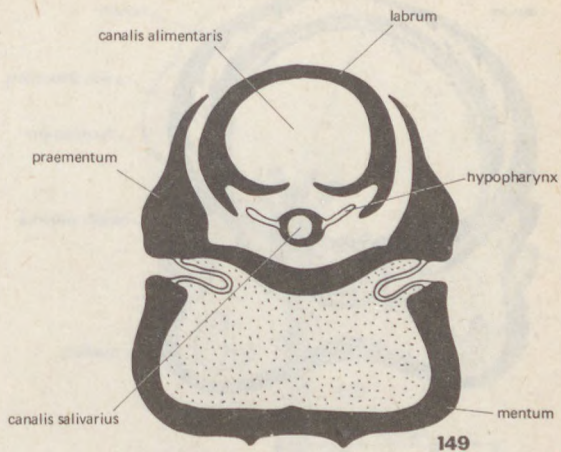
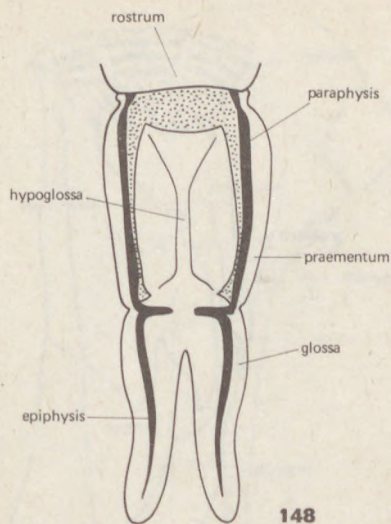
Figs. 137–140. Mouthparts of the piercing-sucking type with labellum in cross-section. — 137: Proboscis of the *Machimus*-type (Dipt.), 138: same of the *Pangonia*-type (Dipt.), 139: same of the *Musca*-type (Dipt.), and 140: typical labellum of a Diptera (after Matsuda 137, Kéler 138, and Weber 139)



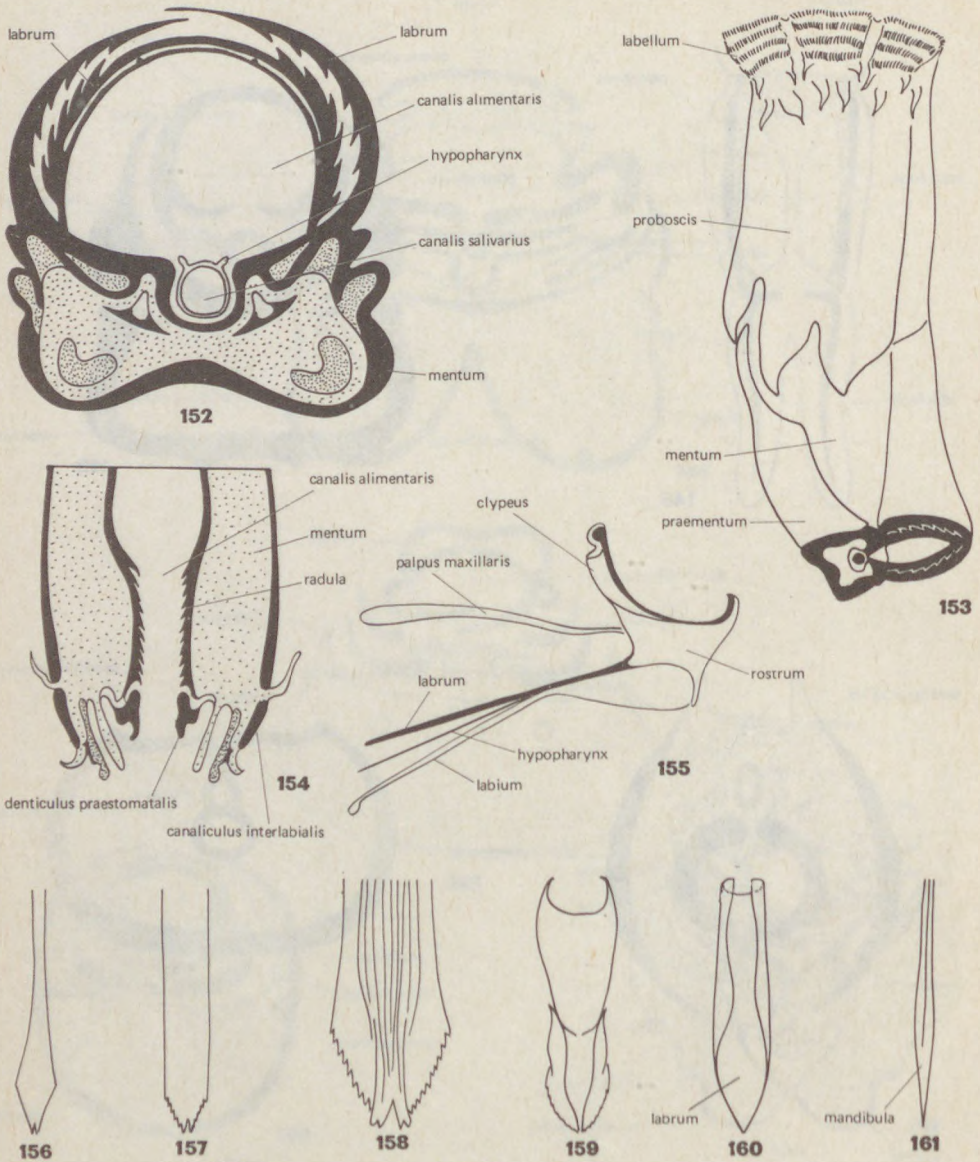
Figs. 141–143. Mouthparts of the piercing-sucking type with five stylets. — 141: Head of a Nematocera (Dipt.) with separated mouthparts. 142–143: Hypopharynx of the Simulium-type (Dipt.), 142: in ventral view, and 143: in lateral view (after Shvanvich)



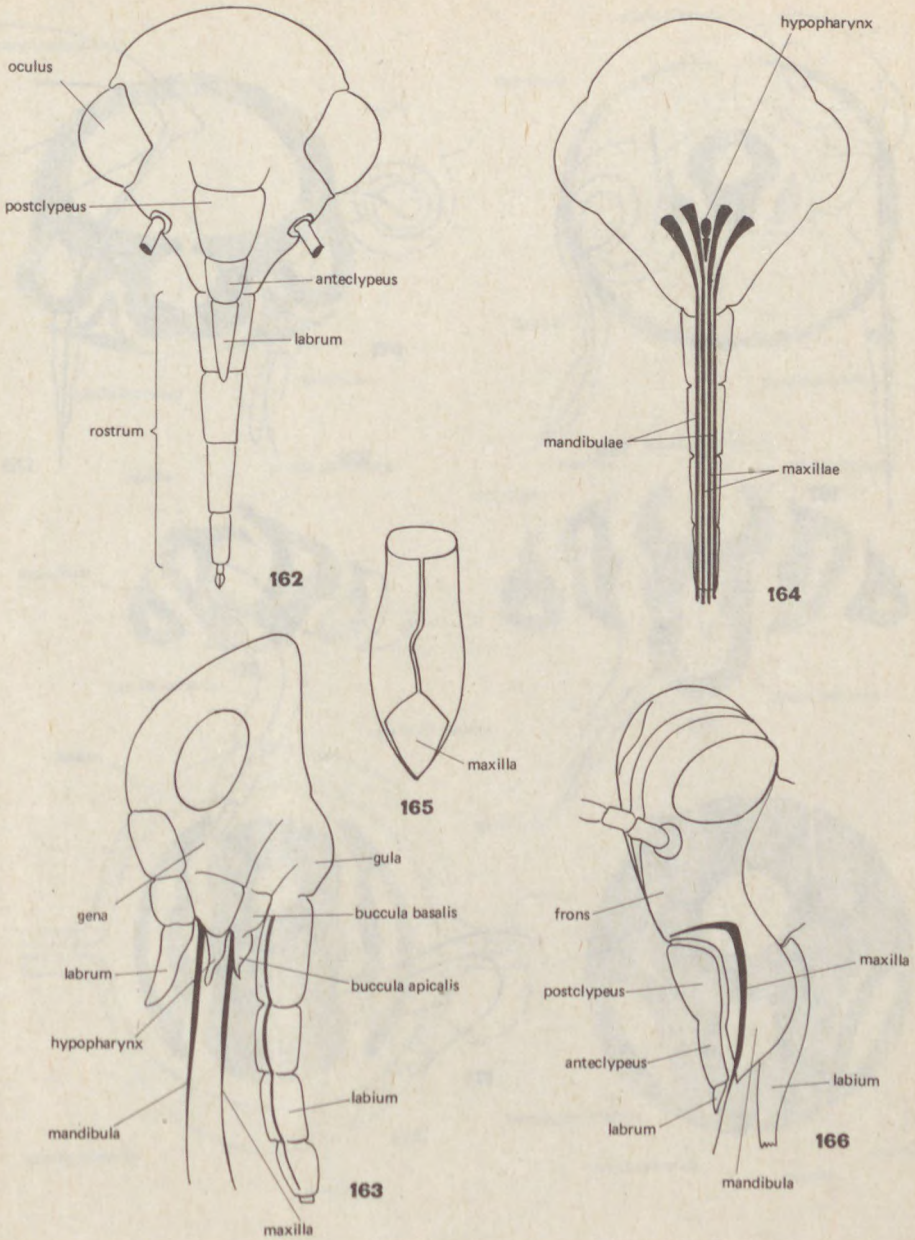
Figs. 144–147. Mouthparts of the piercing-sucking type with five stylets. — 144–145: Cross-section of proboscis of the *Culicoides*-type (Dipt.), 144: in basal portion, and 145: in apical portion. 146: Cross-section of proboscis of the *Anopheles*-type (Dipt.), and 147: *Wilhelimia*-type (Dipt.) (after Shvanvich 144, Kéler 145, Séguy 146, and Wenk 147)



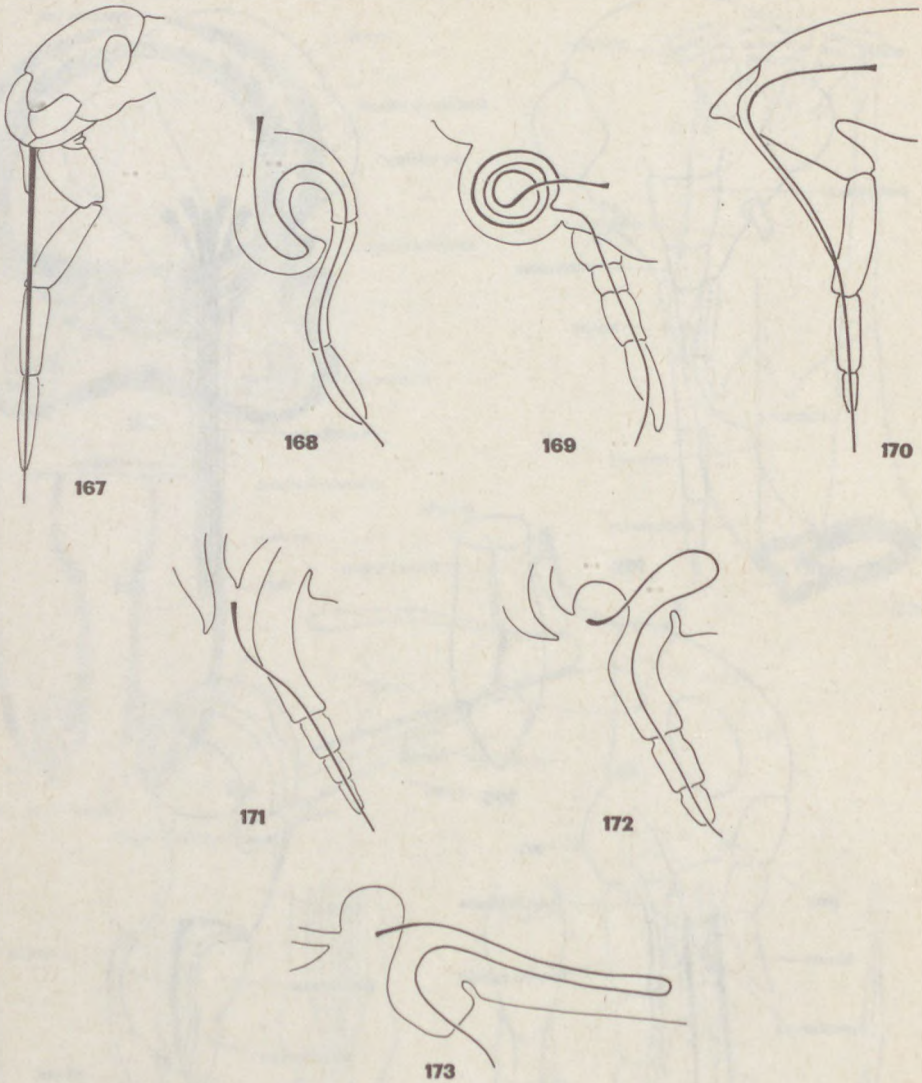
Figs. 148–151. Mouthparts of the piercing-sucking type with five stylets. — 148: Modified labium of a Calytrata (Dipt.). 149: Cross-section of proboscis of the Lynchia-type (Dipt.). 150–151: Cross-section of labellum of the 150: Cyclopodia-type (Dipt.), and 151: Nycteribosca-type (Dipt.) (after Matsuda 148, and Shvanvich 149–151)



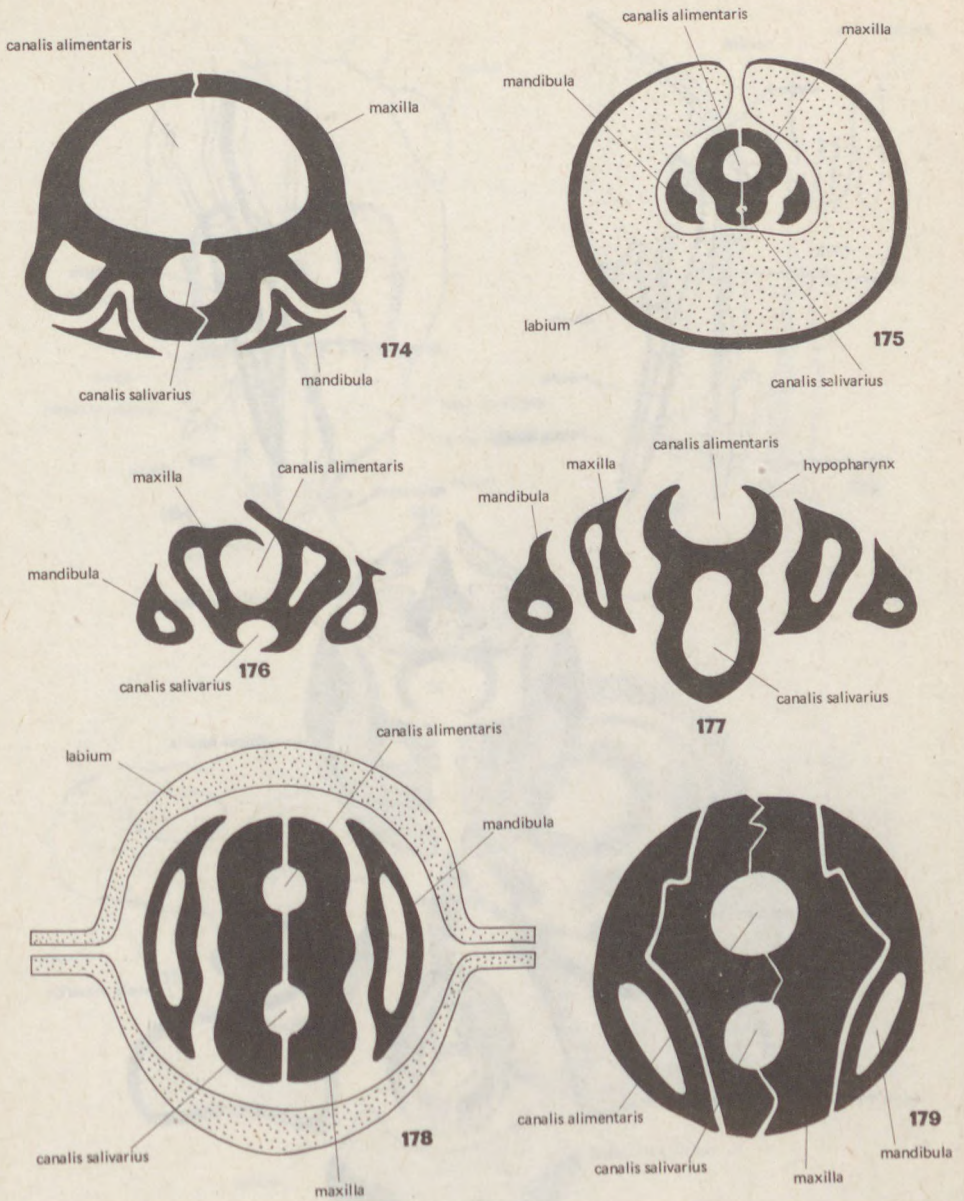
Figs. 152–161. Mouthparts of the piercing-sucking type with five stylets. — 152–155: Same of the *Glossina*-type (Dipt.), 152: cross-section of the proboscis, 153: apical portion of the proboscis, 154: apical portion of the proboscis in longitudinal section, and 155: piercing apparatus. 156–161: Apical portion of some stylets, 156: *Glossina*-type (Dipt.), 157–158: *Culicoides*-type (Dipt.), 159: *Simulium*-type (Dipt.), 160: *Anopheles*-type (Dipt.), and 161: *Psychoda*-type (Dipt.) (after Shvanvich 152–154, Snodgrass 155, and Matsuda 156–161)



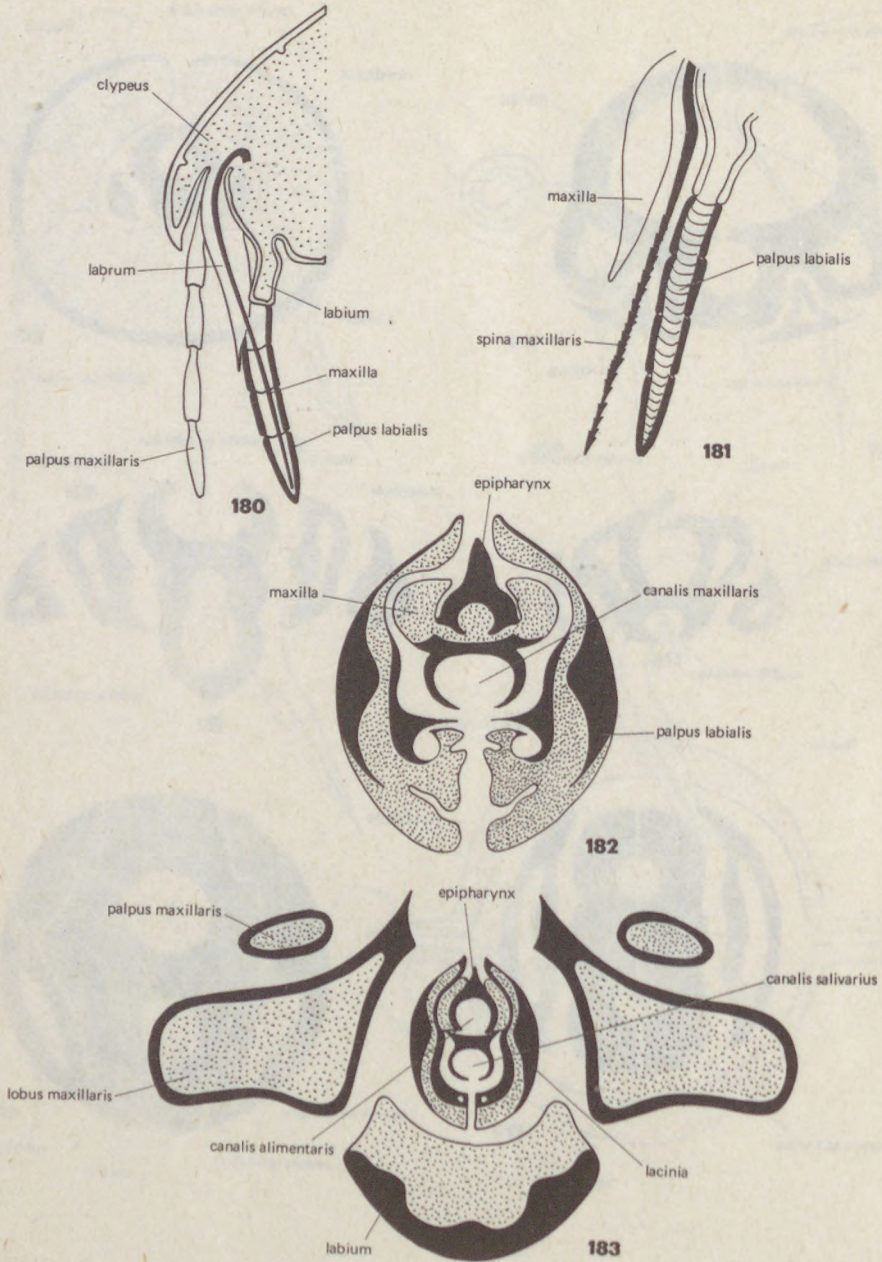
Figs. 162–166. Mouthparts of the piercing-sucking type with four stylets. — 162–164: Typical Hemiptera head, 162: in frontal view, 163: in lateral view, and 164: in ventral view. 165: Apical portion of a stylet of a typical Hemiptera, and 166: head in lateral view of a *Fulgora*-type (Homopt.) (after Weber 162–164, and Shvanvich 165)



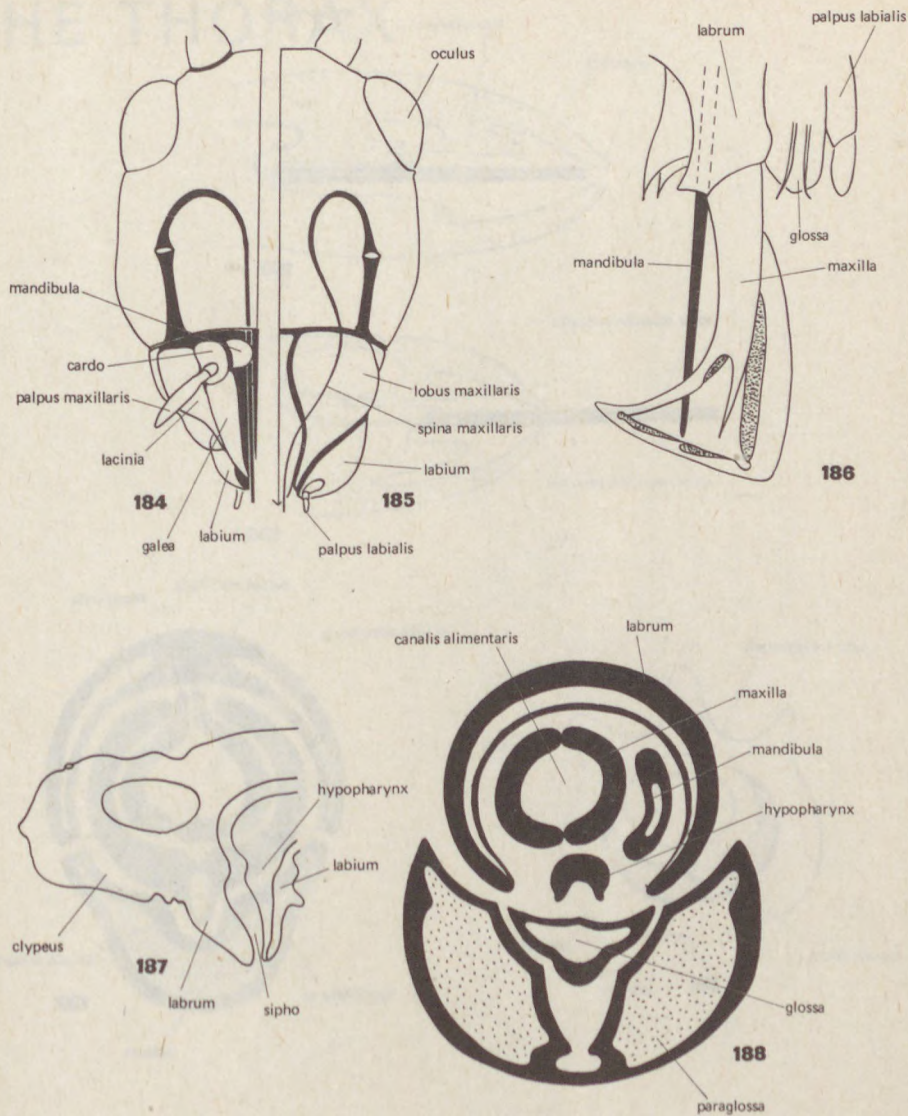
Figs. 167–173. The piercing-sucking apparatus with four stylets in various positions. — 167–170: In Heteroptera, 167: Capsus-type, 168: Coptosoma-type, 169: Aradus-type, and 170: Graphosoma-type. 171–173: In Homoptera, 171: Aphis-type, 172: Psylla-type, and 173: Coccida-type (after Shvanvich)



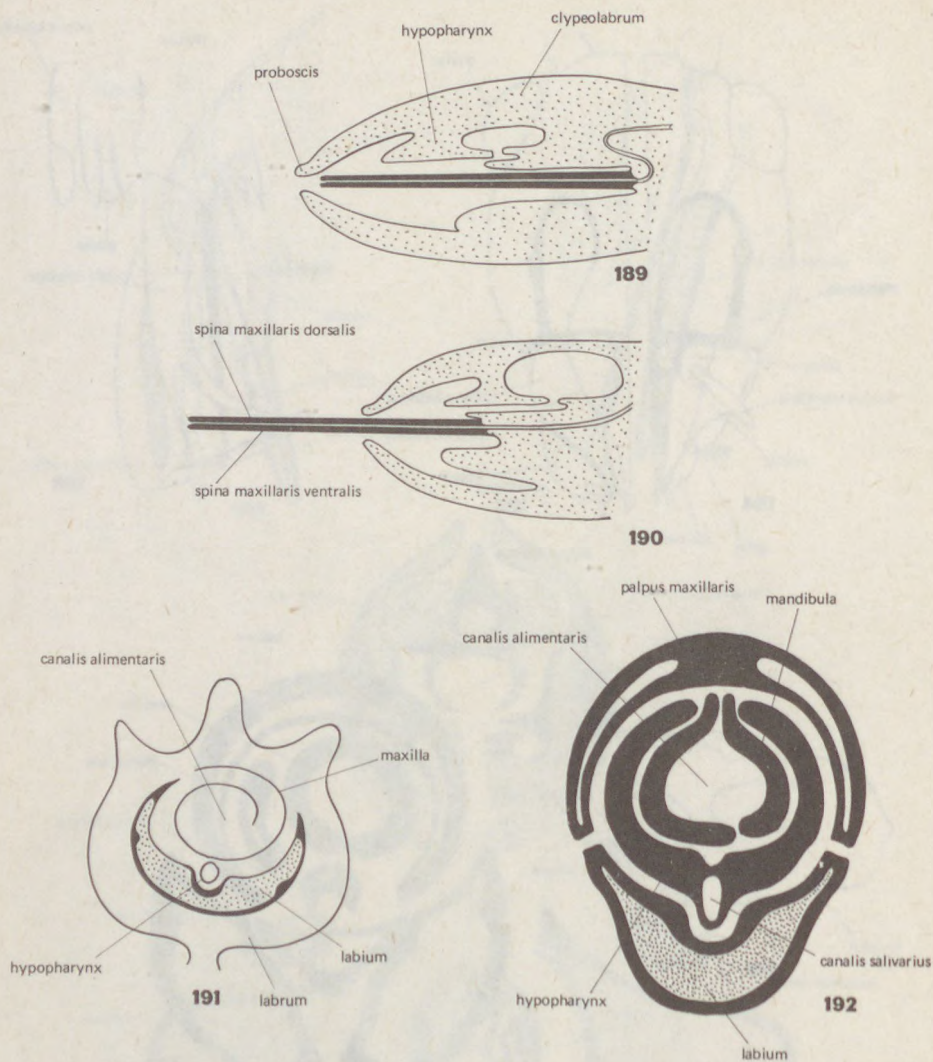
Figs. 174–179. Mouthparts of the piercing-sucking type with four stylets in cross-section. — 174–175: Cimex-type (Heteropt.), 174: basal, and 175: apical. 176–177: Naucoris-type (Heteropt.), 176: apical, and 177: basal. 178: Anasa-type (Heteropt.), and 179: Aphis-type (Homopt.) (after Snodgrass 174, 178, 179, Kemper 175, and Shvanvich 176, 177)



Figs. 180–183. Mouthparts of the Siphonaptera-type with three stylets. — 180: Siphonaptera head in longitudinal section, 181: the stylet of the flea (spina maxillaris), 182–183: cross-section of proboscis at 182: apical, and 183: basal portion (after Wenk)



Figs. 184–188. Mouthparts of the Thysanoptera-type with three stylets. — 184–185: Head of a thrips in 184: frontal view, and 185: posterior view. 186: Mouthparts of *Dinotrrips*. 187: Head of a thrips in lateral view, and 188: cross-section of the proboscis (after Mickoleit)



Figs. 189–192. Mouthparts of the Anoplura-type with three fused stylets. — 189–190: Schematic drawing of an Anoplura head with proboscis, 189: in resting position, and 190: at time of sucking. 191–192: Cross-section of a proboscis with 191: fused maxillae, and 192: free maxillae (after Ramcke 189, 190, Snodgrass 191, and Shvanvich 192)

THE THORAX



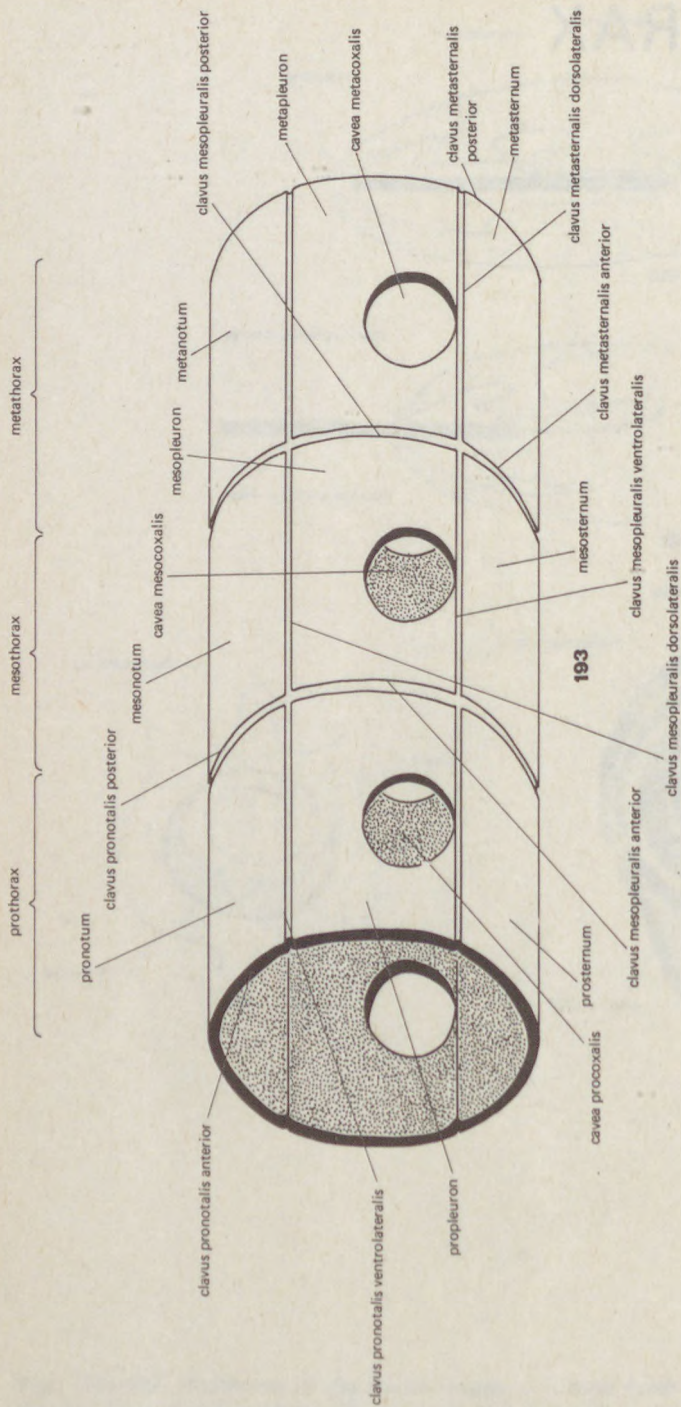


Fig. 193. Diagrammatic representation of the wingless thorax

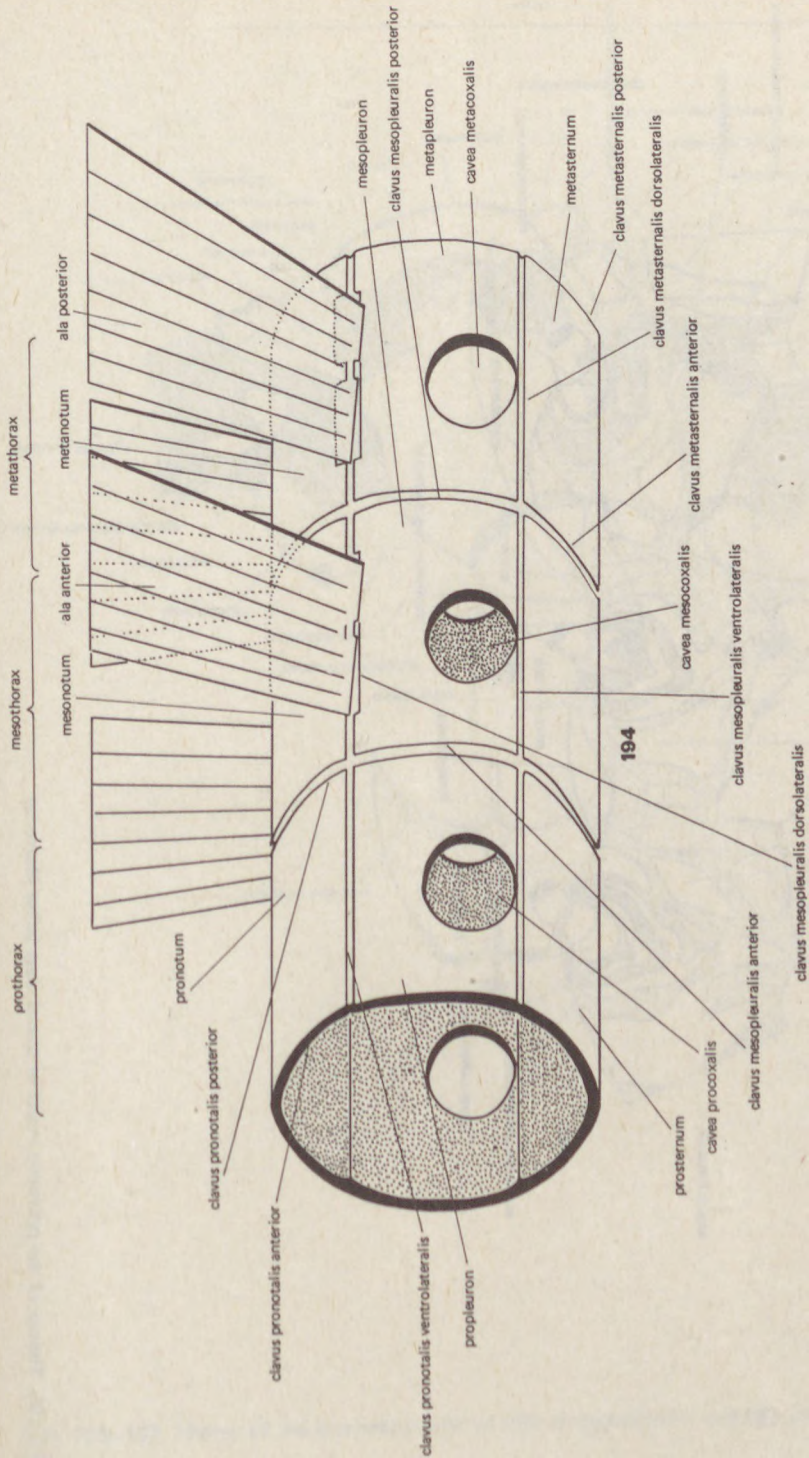


Fig. 194. Diagrammatic representation of the winged thorax

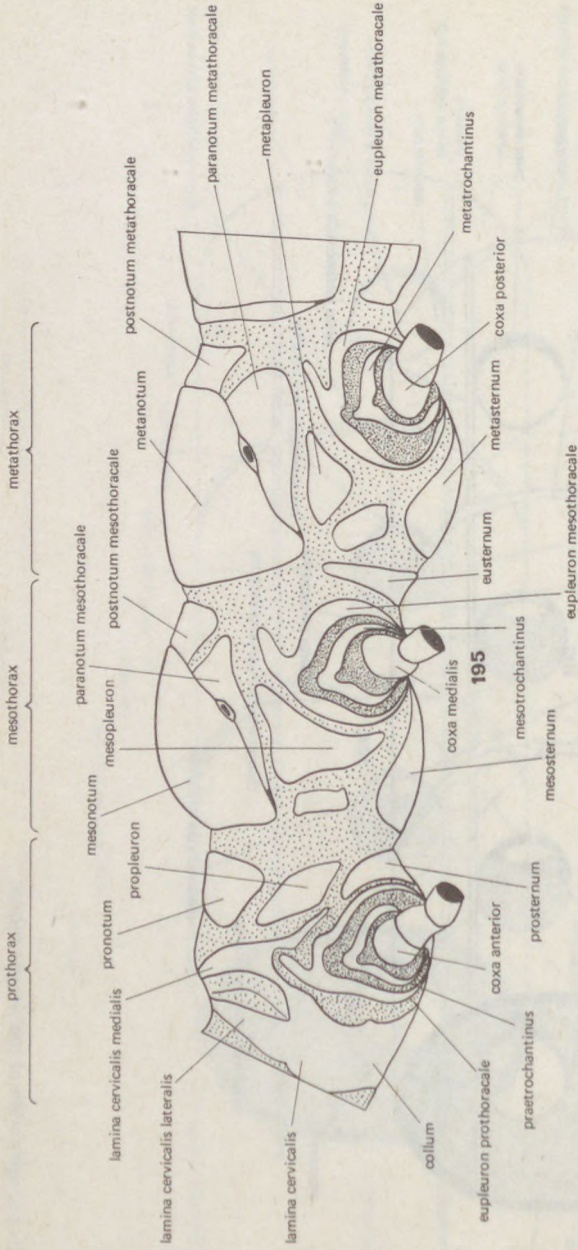
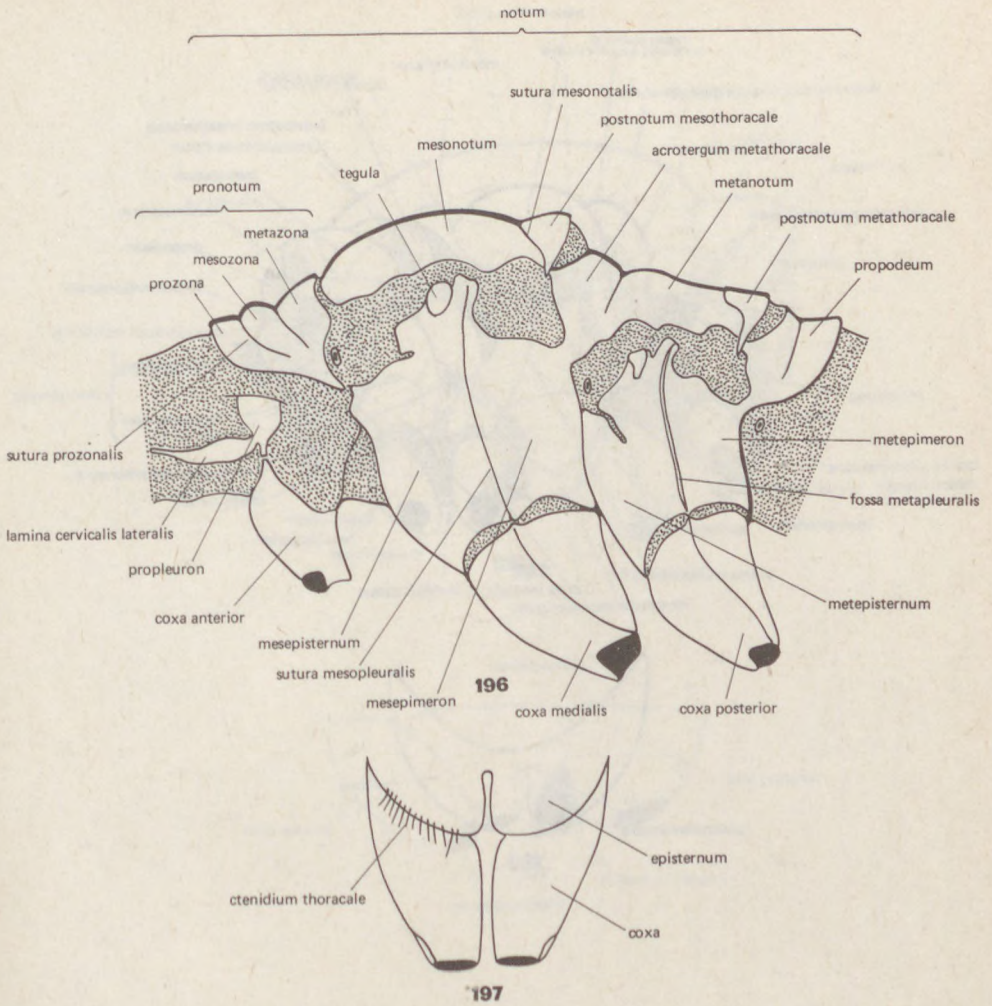
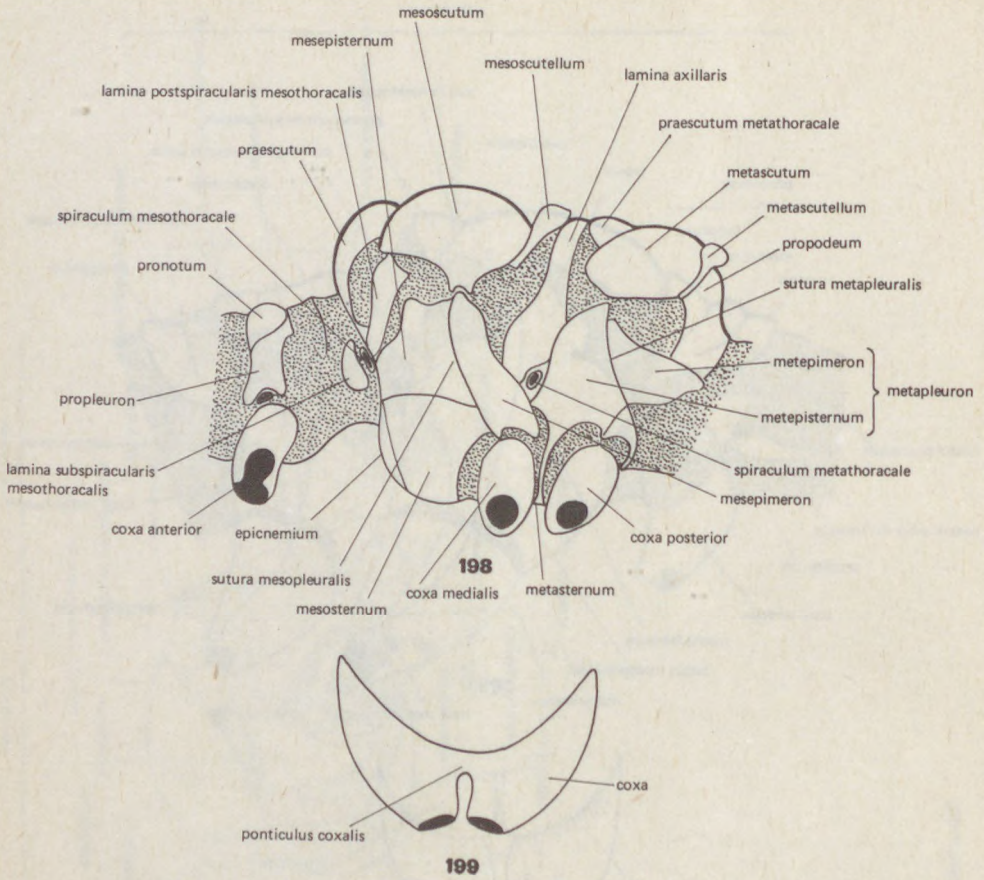


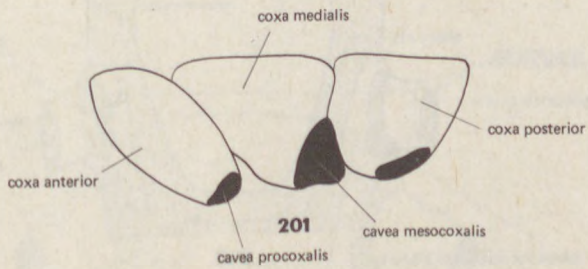
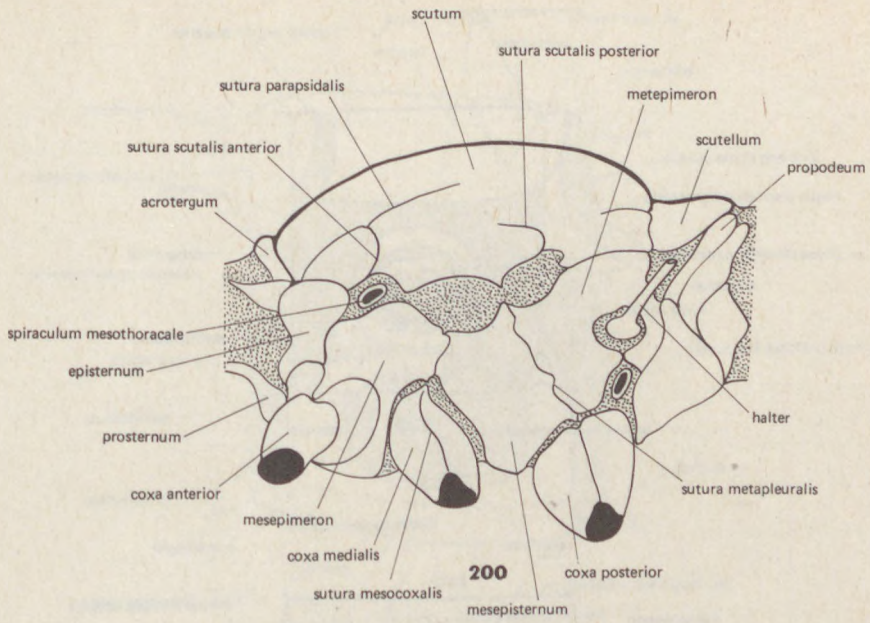
Fig. 195. Thorax of the primitive insect in lateral view (after Matsuda)



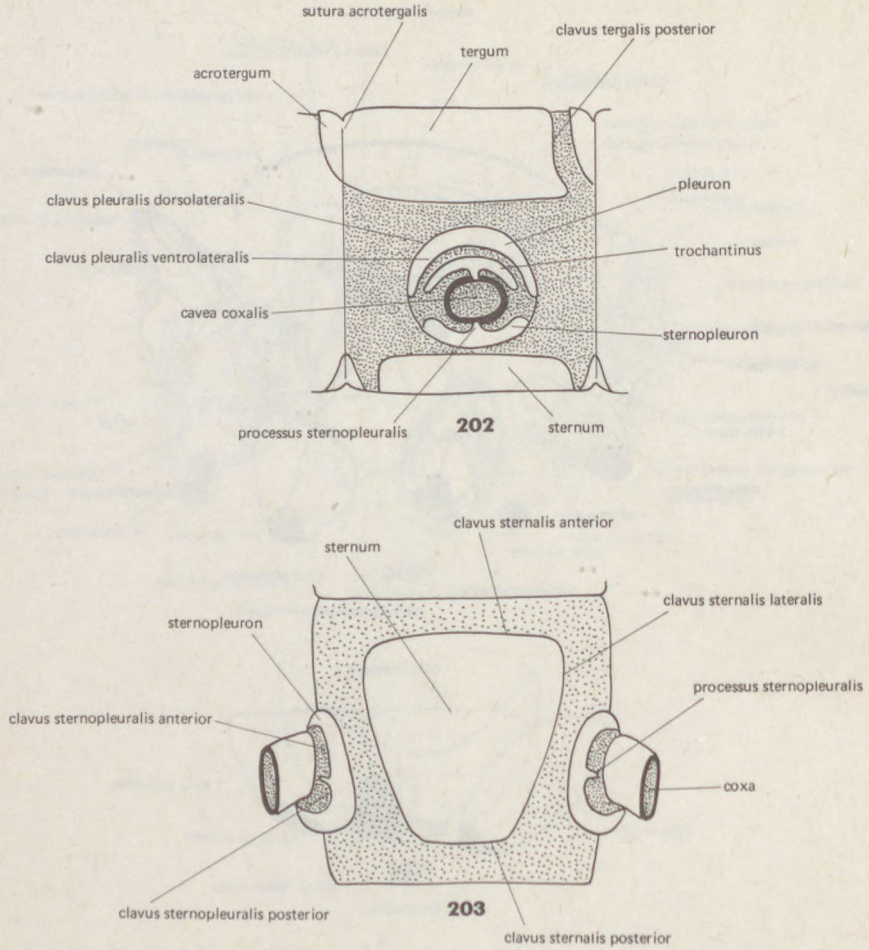
Figs. 196–197. Thorax of the Mecoptera-type. — 196: In lateral view, and 197: in frontal view (after Matsuda)



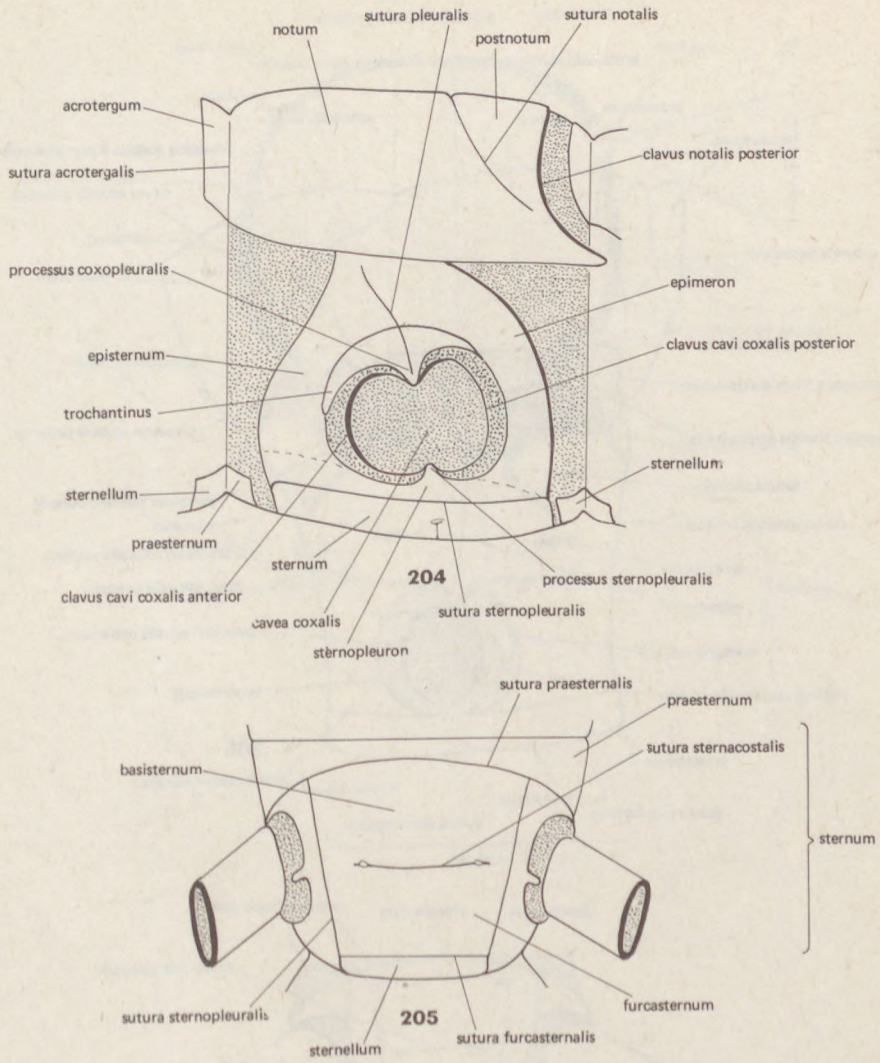
Figs. 198—199. Thorax of the Psocoptera-type. — 198: In lateral view, and 199: in frontal view (after Matsuda)



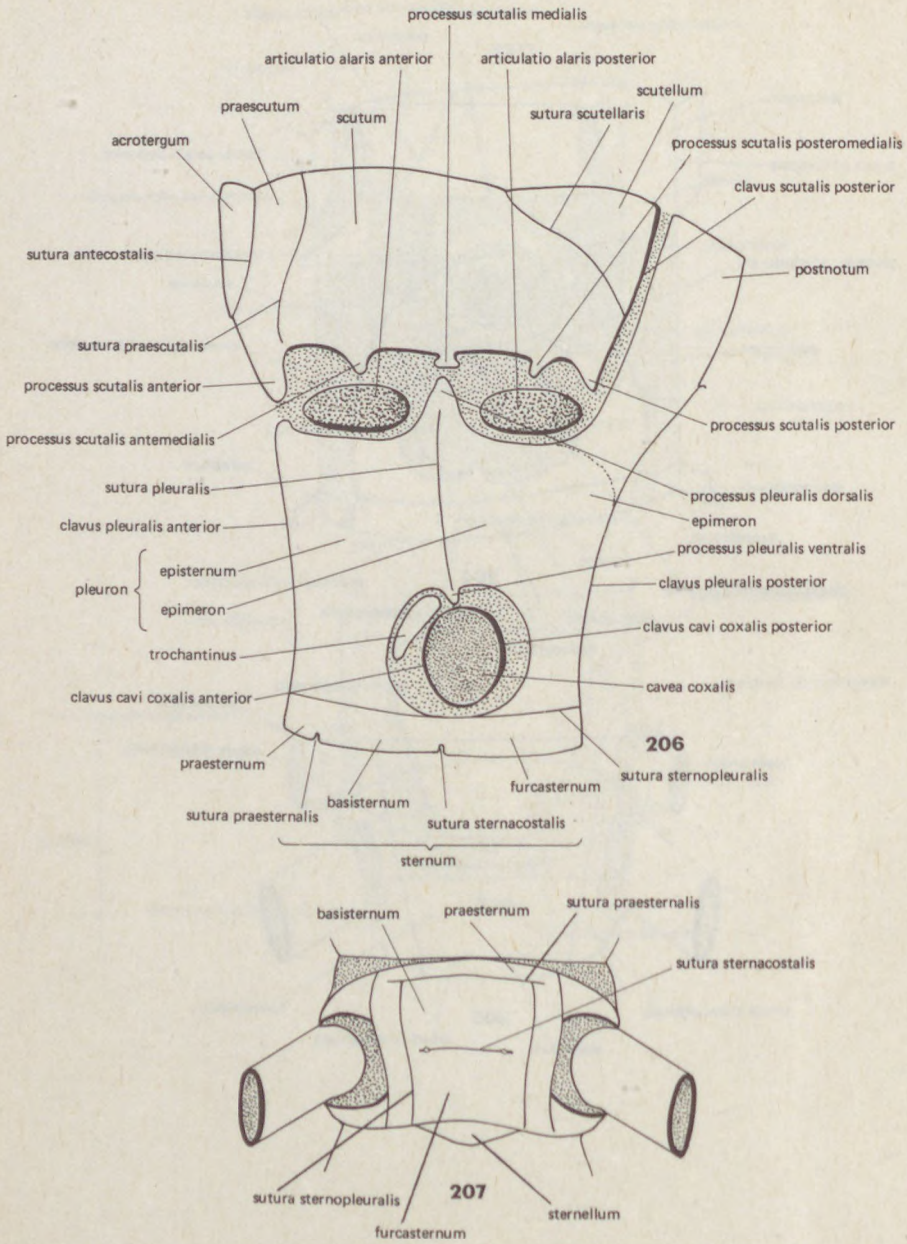
Figs. 200–201. Thorax of the Diptera-type. — 200: In lateral view, and 201: set of close coxae (after Hendel)



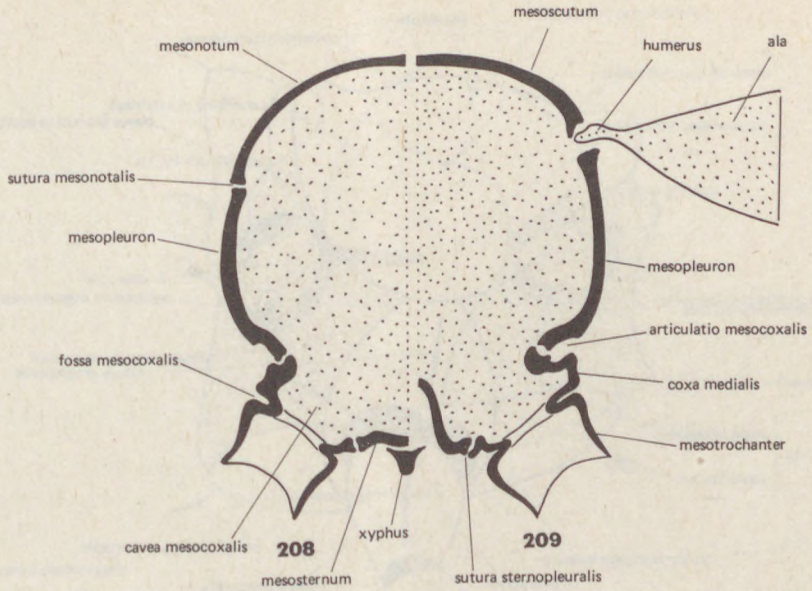
Figs. 202–203. Schematic drawing of a thoracic segment. — 202: In lateral view, and 203: in ventral view (after Snodgrass)



Figs. 204–205. Schematic drawing of a wingless thoracic segment. — 204: In lateral view, and 205: in ventral view (after Snodgrass)



Figs. 206–207. Schematic drawing of a winged thoracic segment. — 206: In lateral view, and 207: in ventral view (after Snodgrass)



Figs. 208–209. Schematic drawing of the mesothoracic segment in cross-section. — 208: Wingless, and 209: winged halves

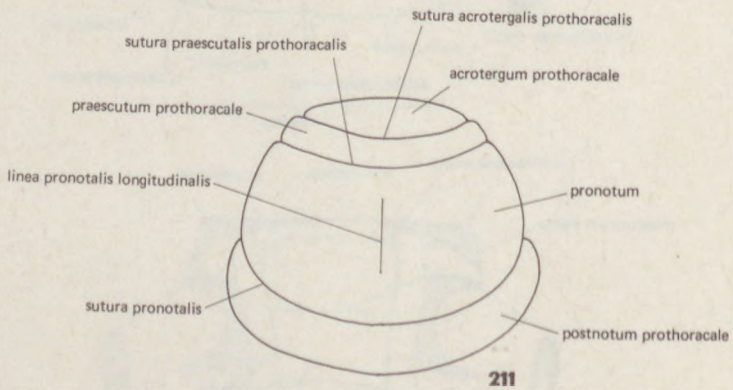
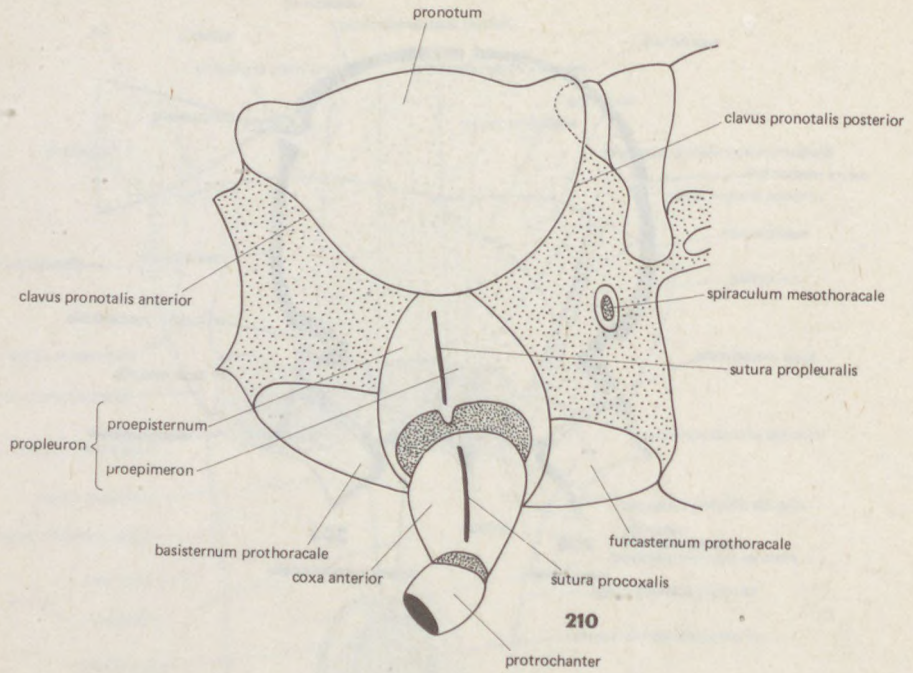
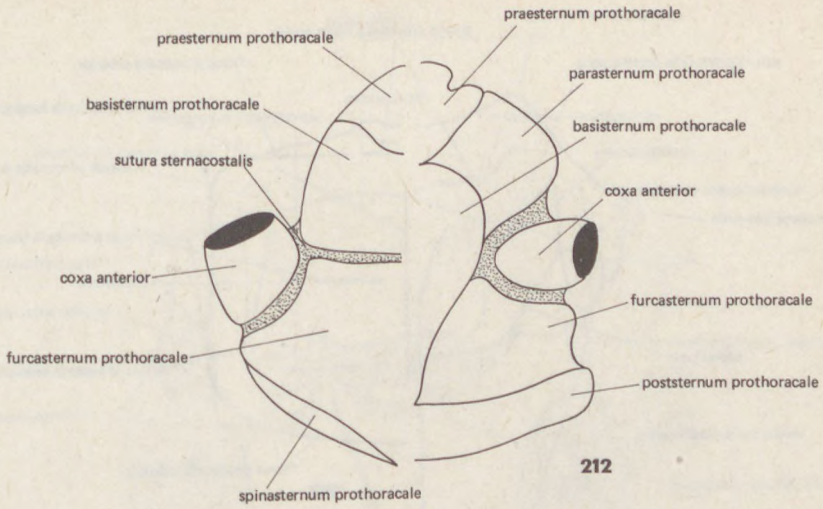
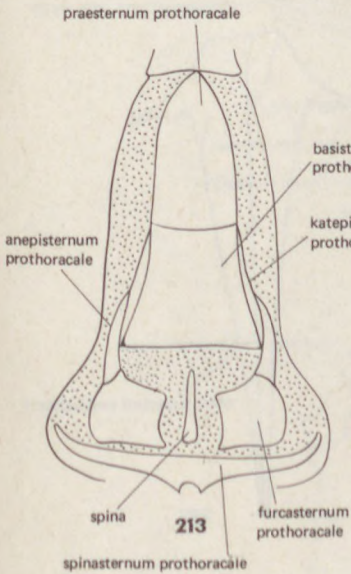


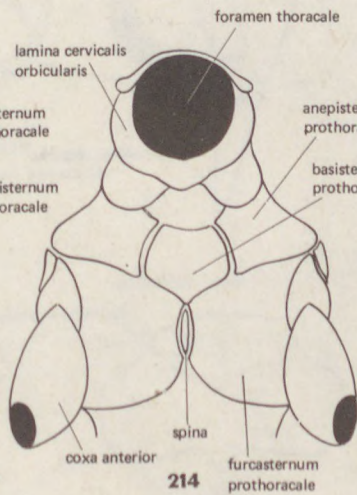
Fig. 210. Schematic drawing of the prothorax in lateral view. — 211. The pronotum



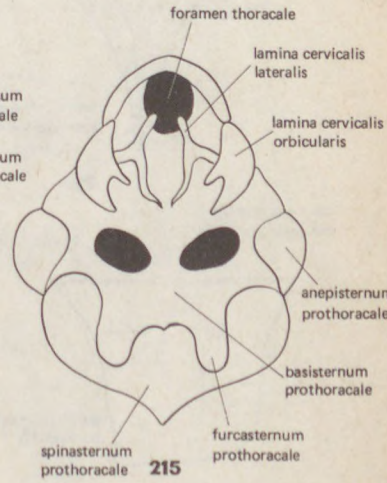
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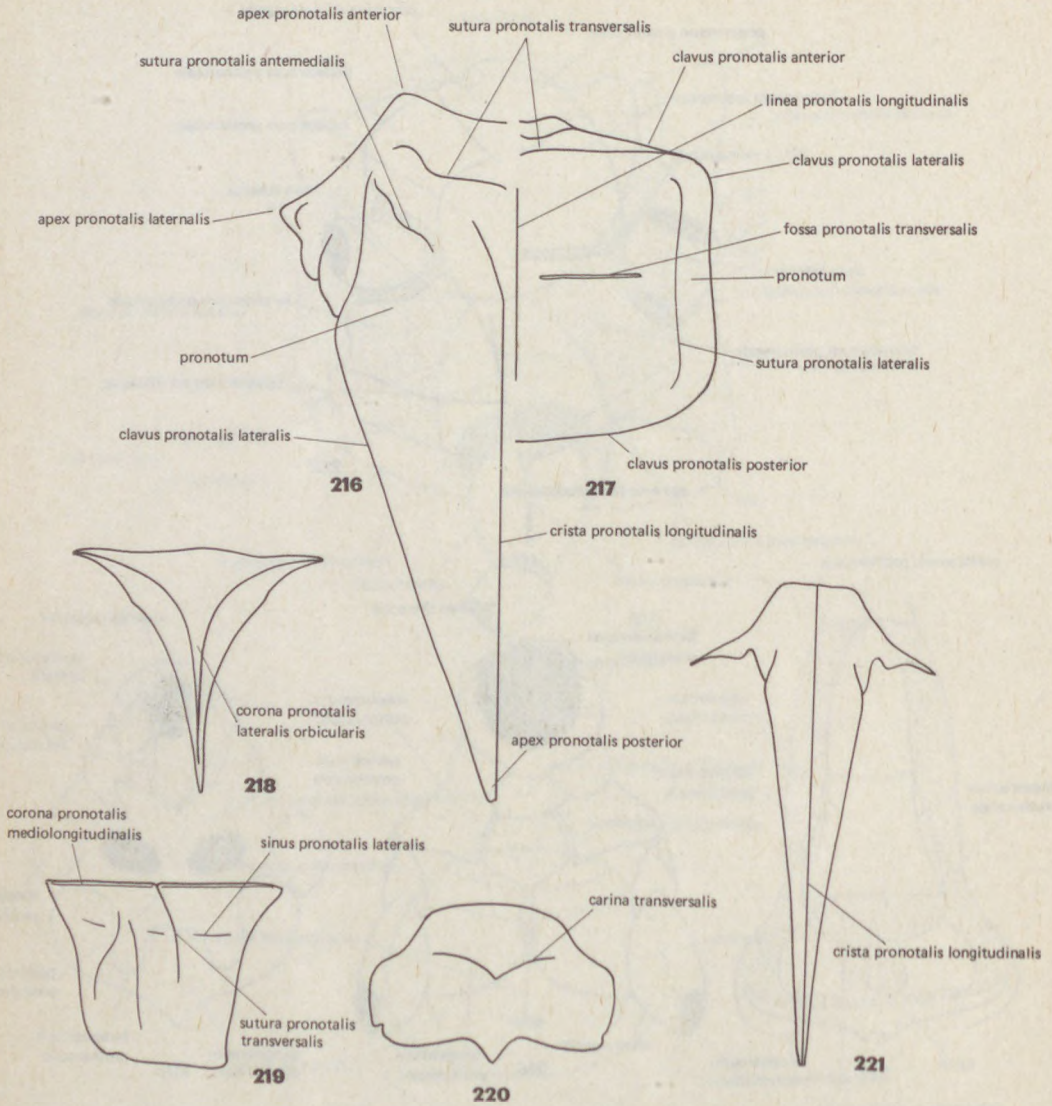


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Figs. 212–215. The prothorax in ventral view. — 212: The Apterygota-types, left *Eosentomon* (Protura), and right *Japyx* (Diplura). 213–215. The Pterygota-types, 213: *Agulla* (Raphidiopt.), 214: *Zorotypus* (Zorapt.), and 215: *Hepialus* (Lepidopt.) (after Matsuda)



Figs. 216–221. The prothorax in dorsal view. — 216: *Mazarredia* (Orthopt.), 217: *Carcinophora* (Dermapt.), 218: *Ceresa* (Homopt.), 219: *Arcyptera* (Orthopt.) (in lateral view), 220: *Agrion* (Odon.), and 221: *Crietettix* (Orthopt.)

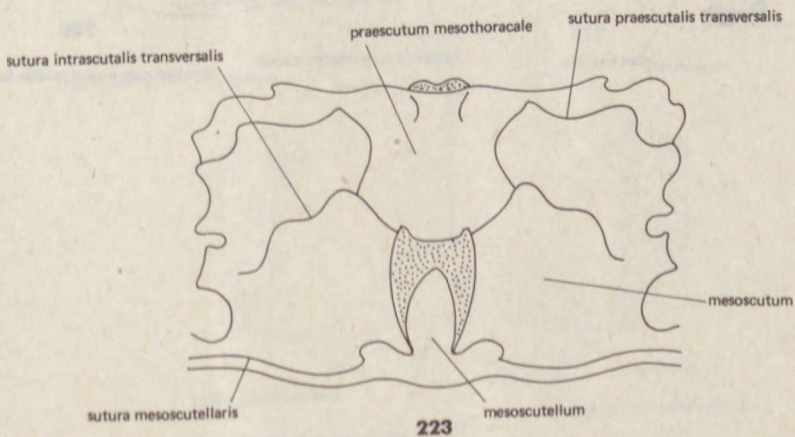
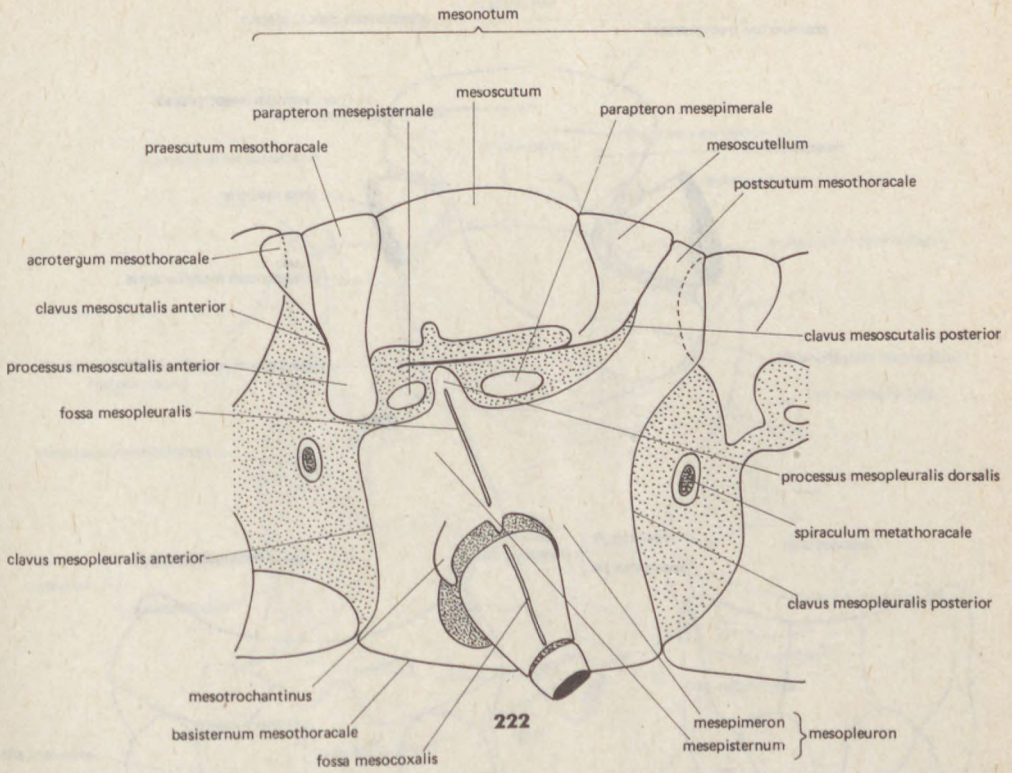
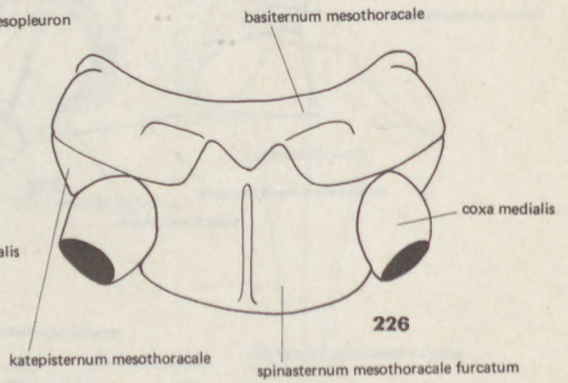
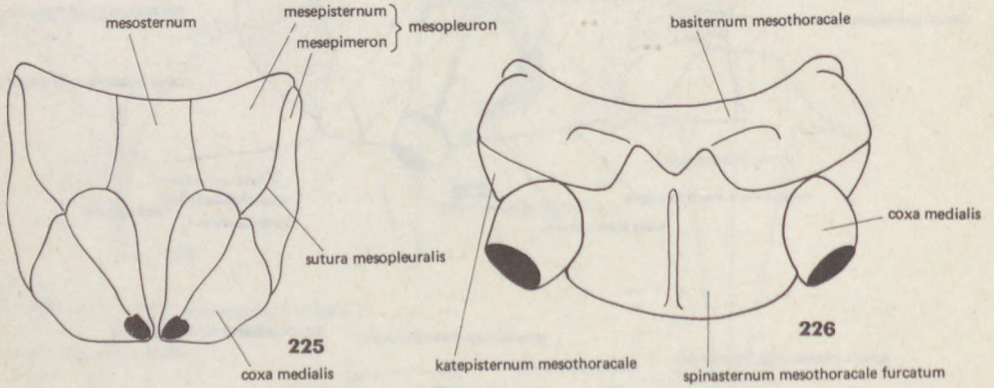
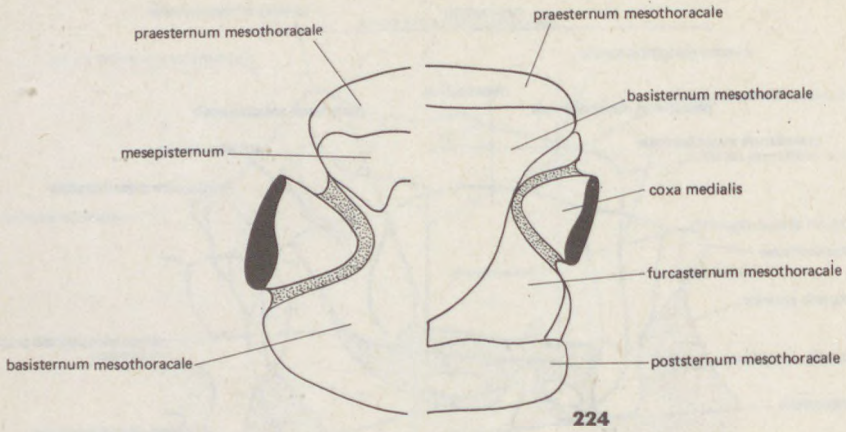


Fig. 222. Schematic drawing of the mesothorax in lateral view. — 223. The mesonotum (after Snodgrass 223)



Figs. 224—226. The mesothorax in ventral view. — 224: The Apterygota-types, left *Eosentomon* (Protura), and right *Japyx* (Diplura). 225—226. The Pterygota-types, 225: *Papilio* (Lepidopt.), and 226: *Perla* (Plecopt.) (after Matsuda)

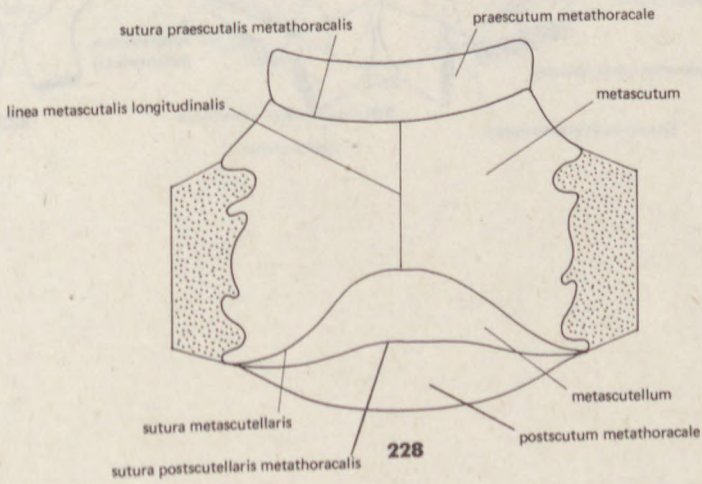
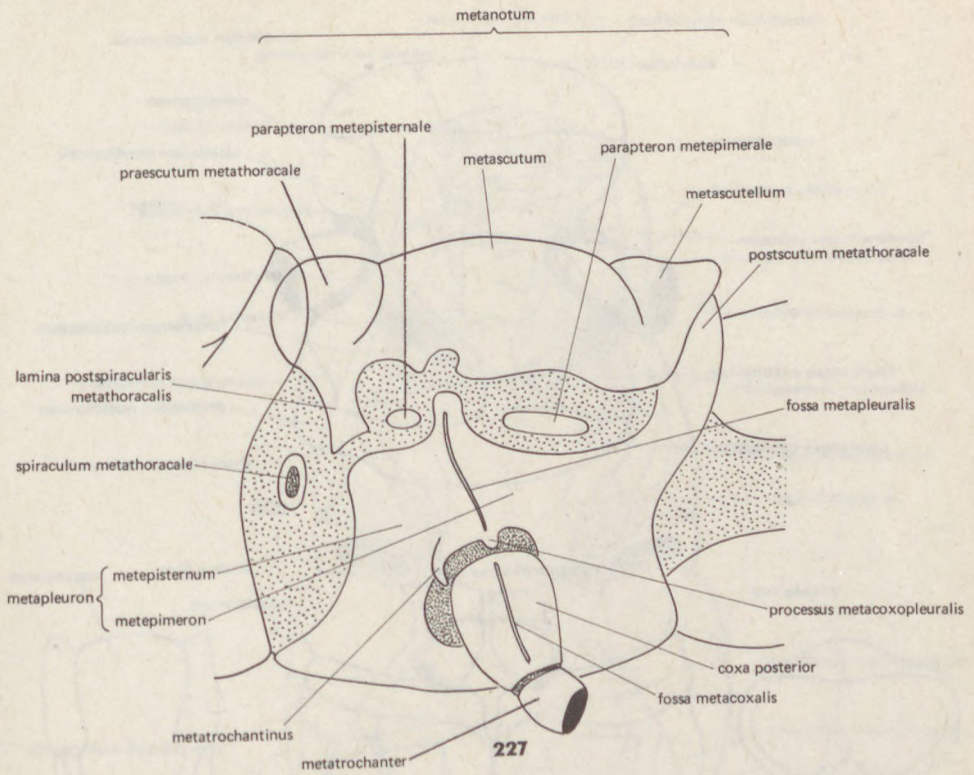
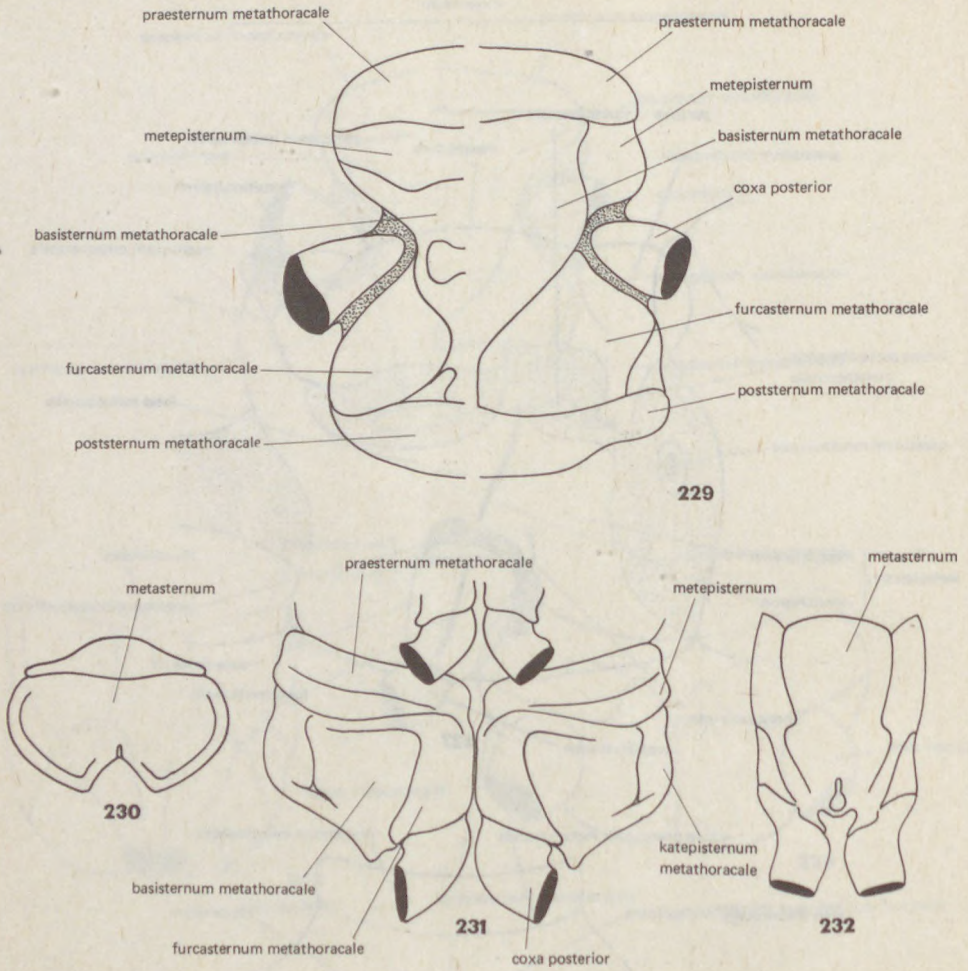


Fig. 227. Schematic drawing of the metathorax in lateral view. — 228. The metanotum



Figs. 229–232. The metathorax in ventral view. — 229: The Apterygota-types, left *Eosentomon* (Protura), and right *Japyx* (Diplura). 230–232: The Pterygota-types, 230: *Belocephalus* (Orthopt.), 231: *Blabera* (Blatt.), and 232: *Hierodula* (Orthopt.) (after Matsuda)

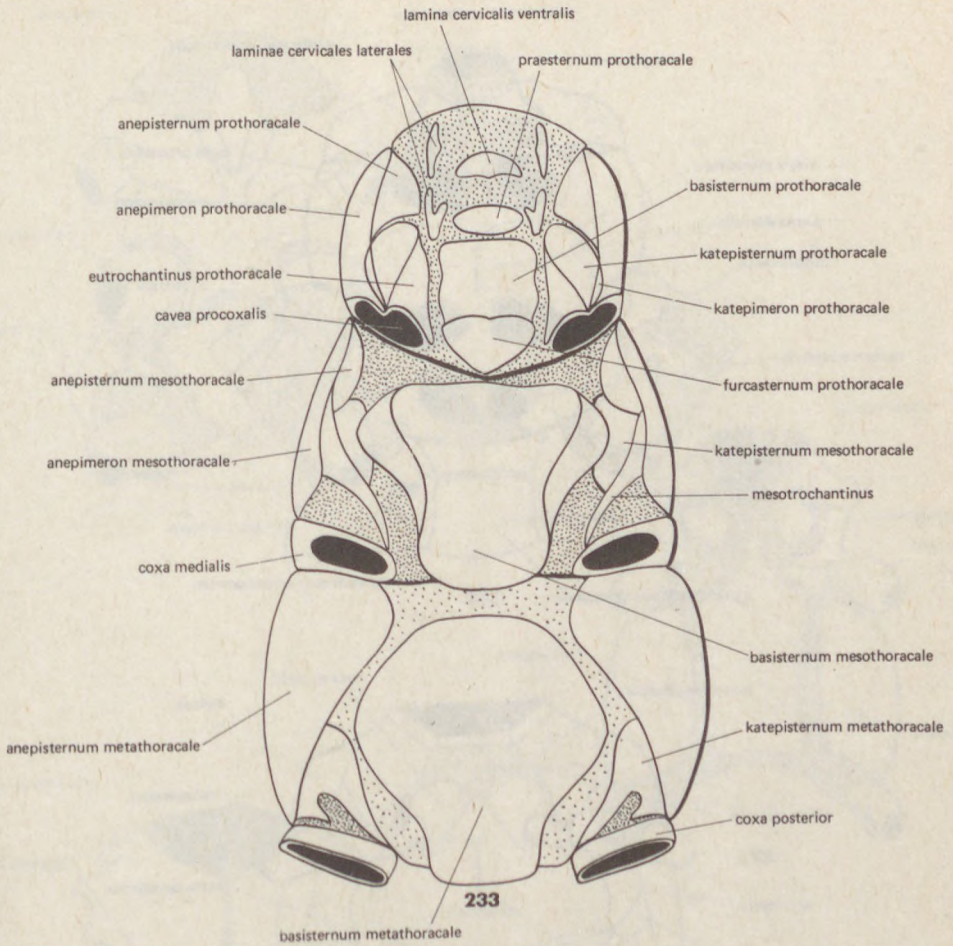
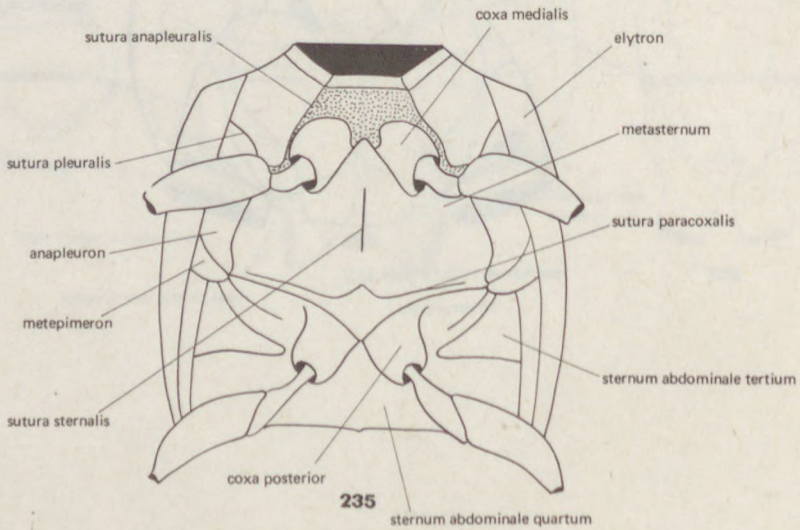
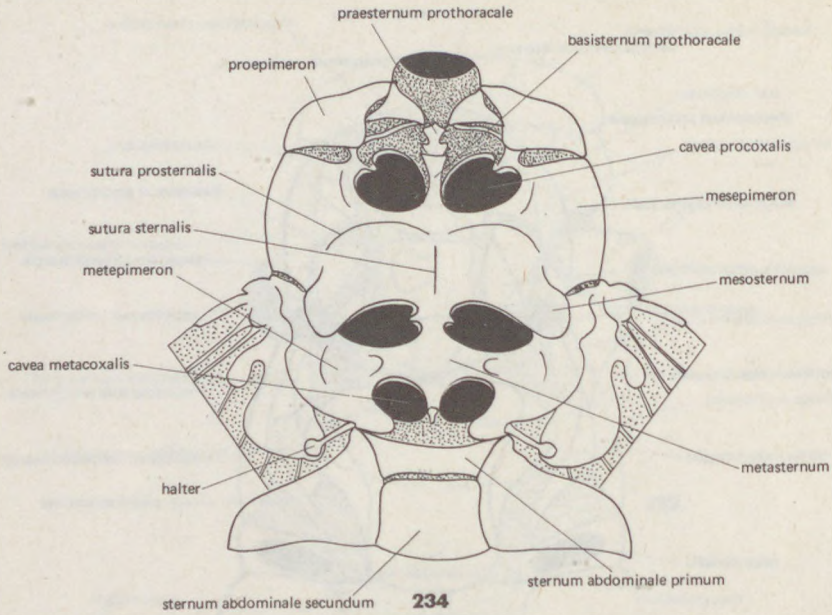
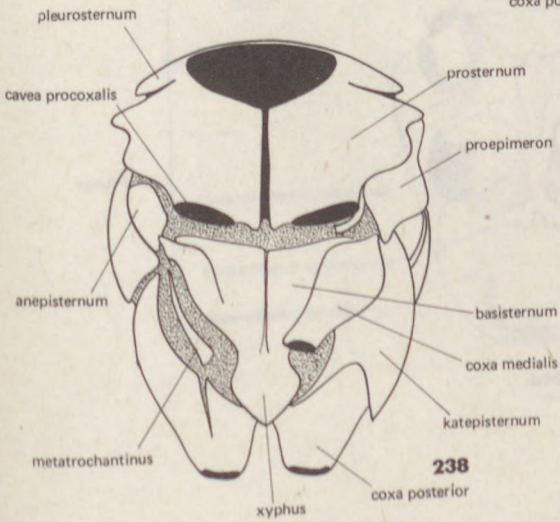
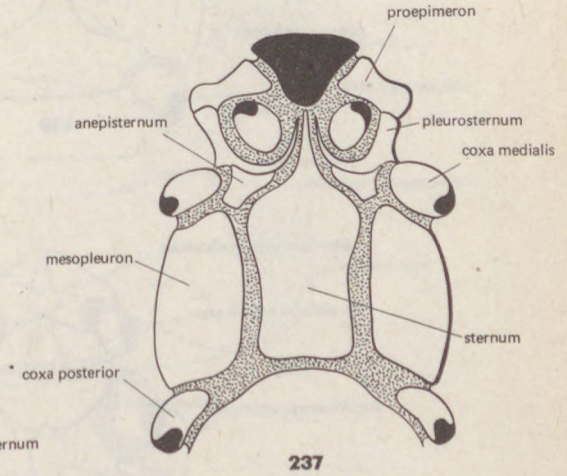
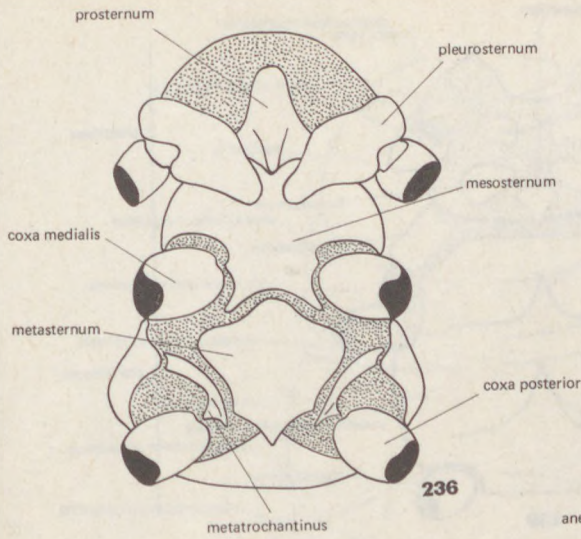


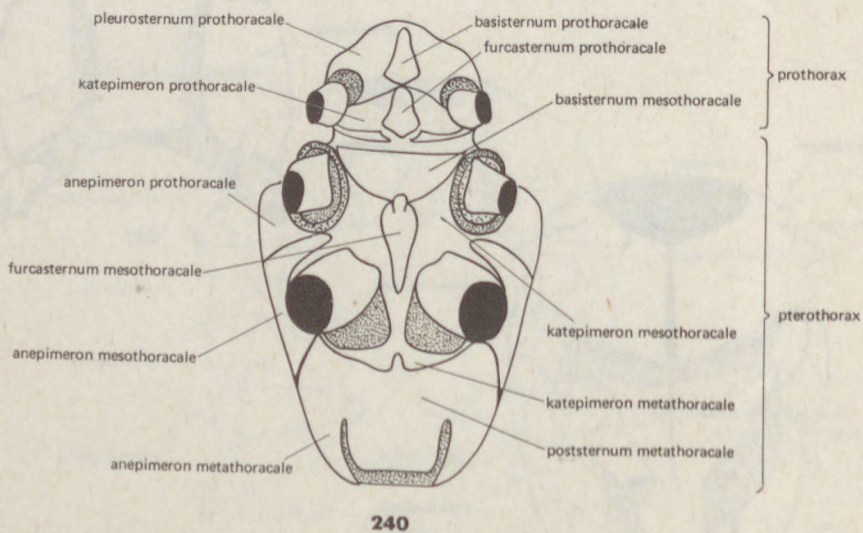
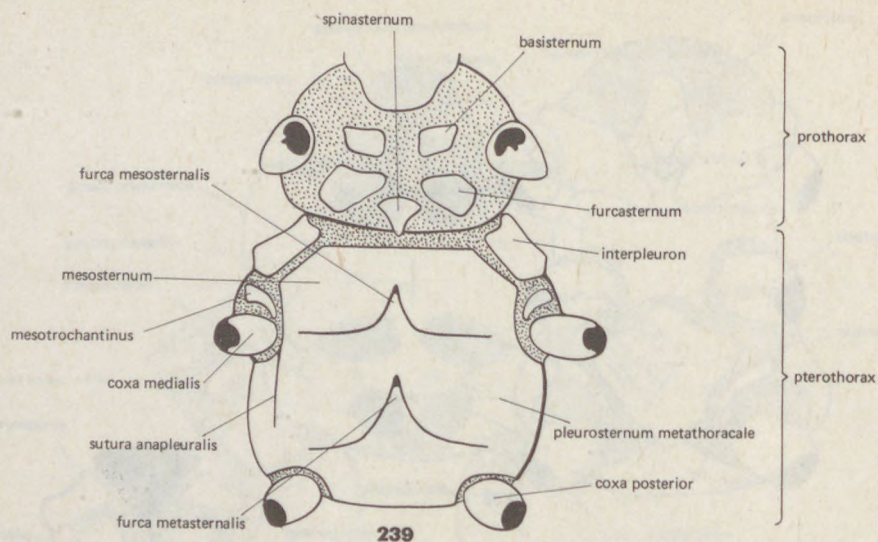
Fig. 233. The thorax of the Dermaptera-type in ventral view



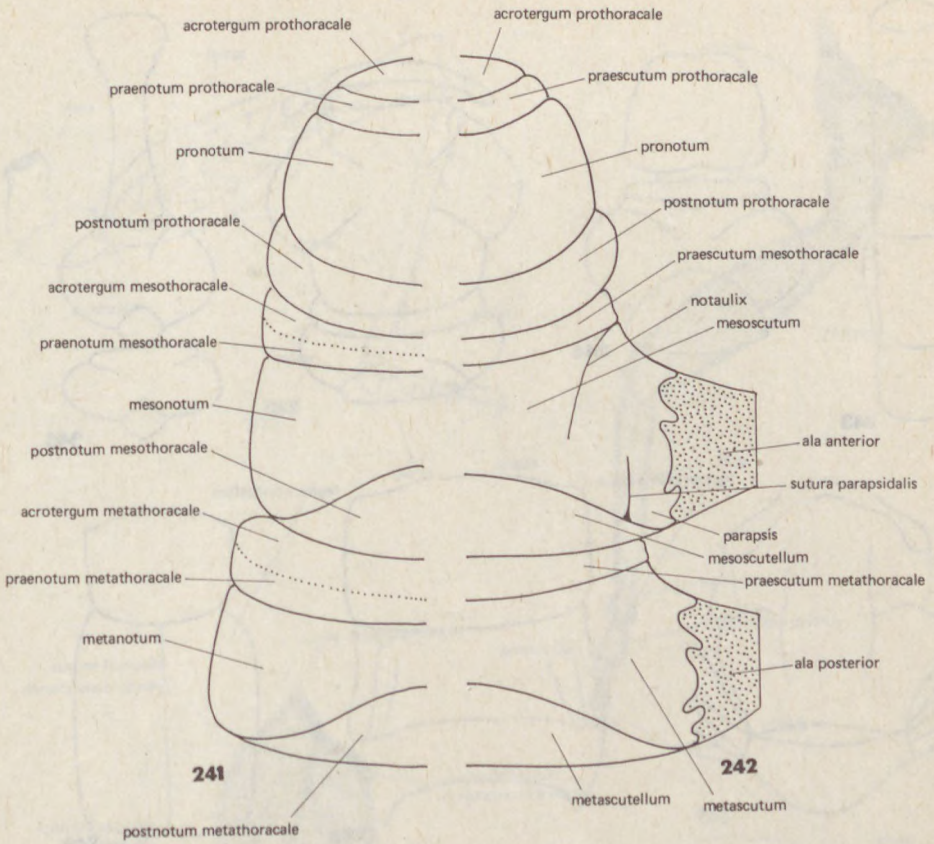
Figs. 234–235. The thorax in ventral view. — 234: Thorax and base of abdomen of a Diptera, and 235: the meso- and metasternum and base of abdomen of a Coleoptera (after Snodgrass 234, and Matsuda 235)



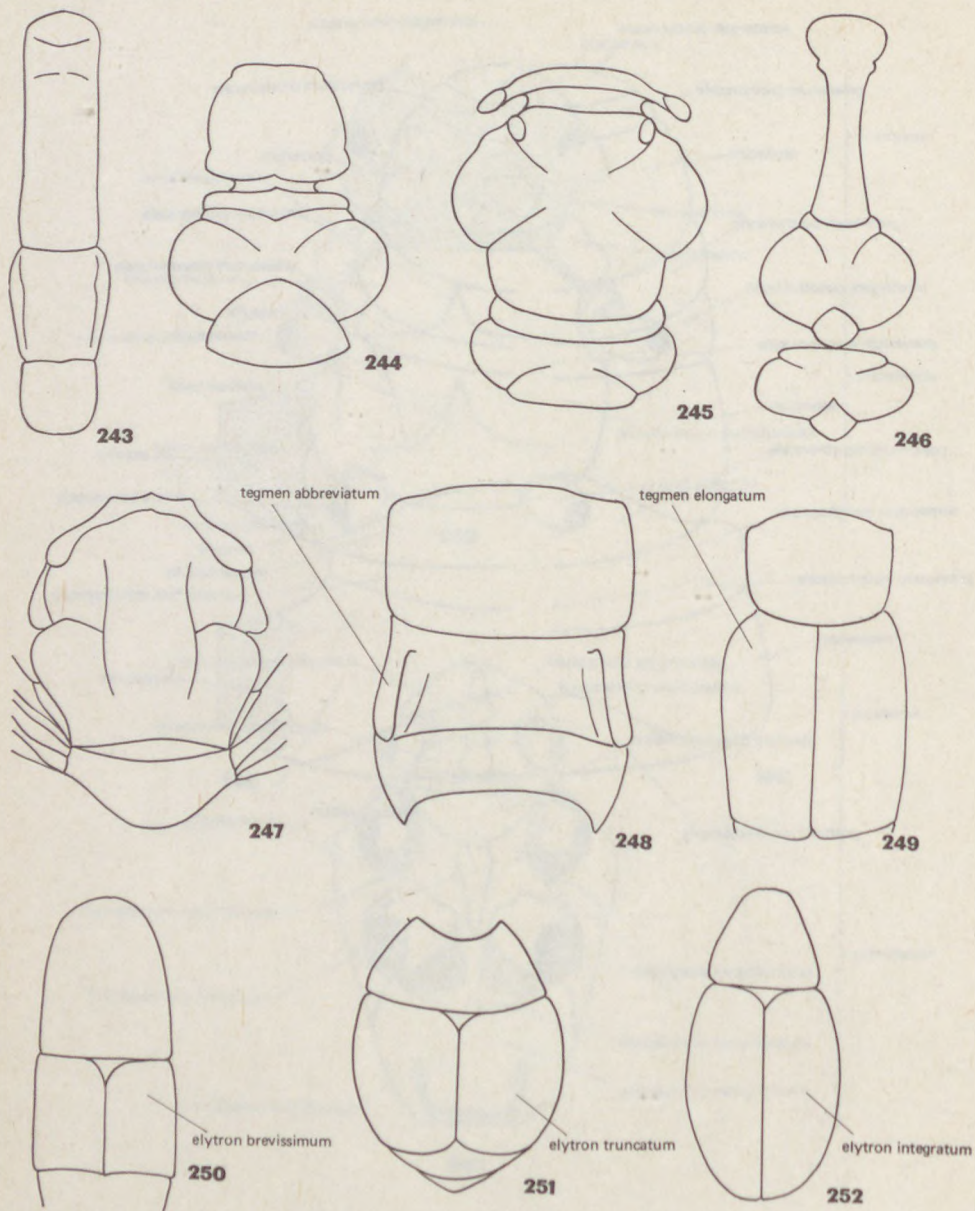
Figs. 236–238. The thorax in ventral view. — 236: Myrsidea-type (Mall.), 237: Esthiopterum-type (Mall.), and 238: Notonecta-type (Heteropt.) (after Matsuda)



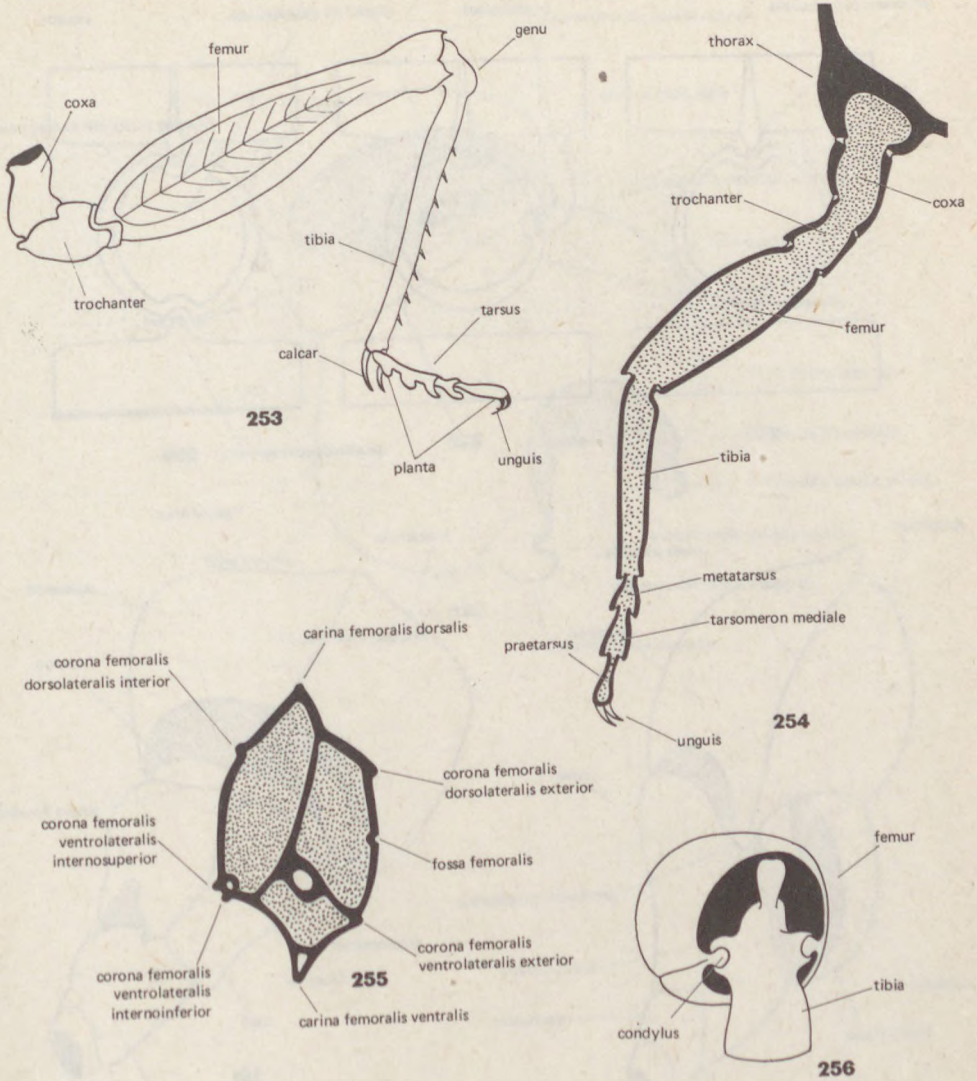
Figs. 239–240. The thorax in ventral view. — 239: Thrips-type (Thysanopt.), and 240: Mnais-type (Odon.) (after Mickoleit 239, and St. Quentin and Beier 240)



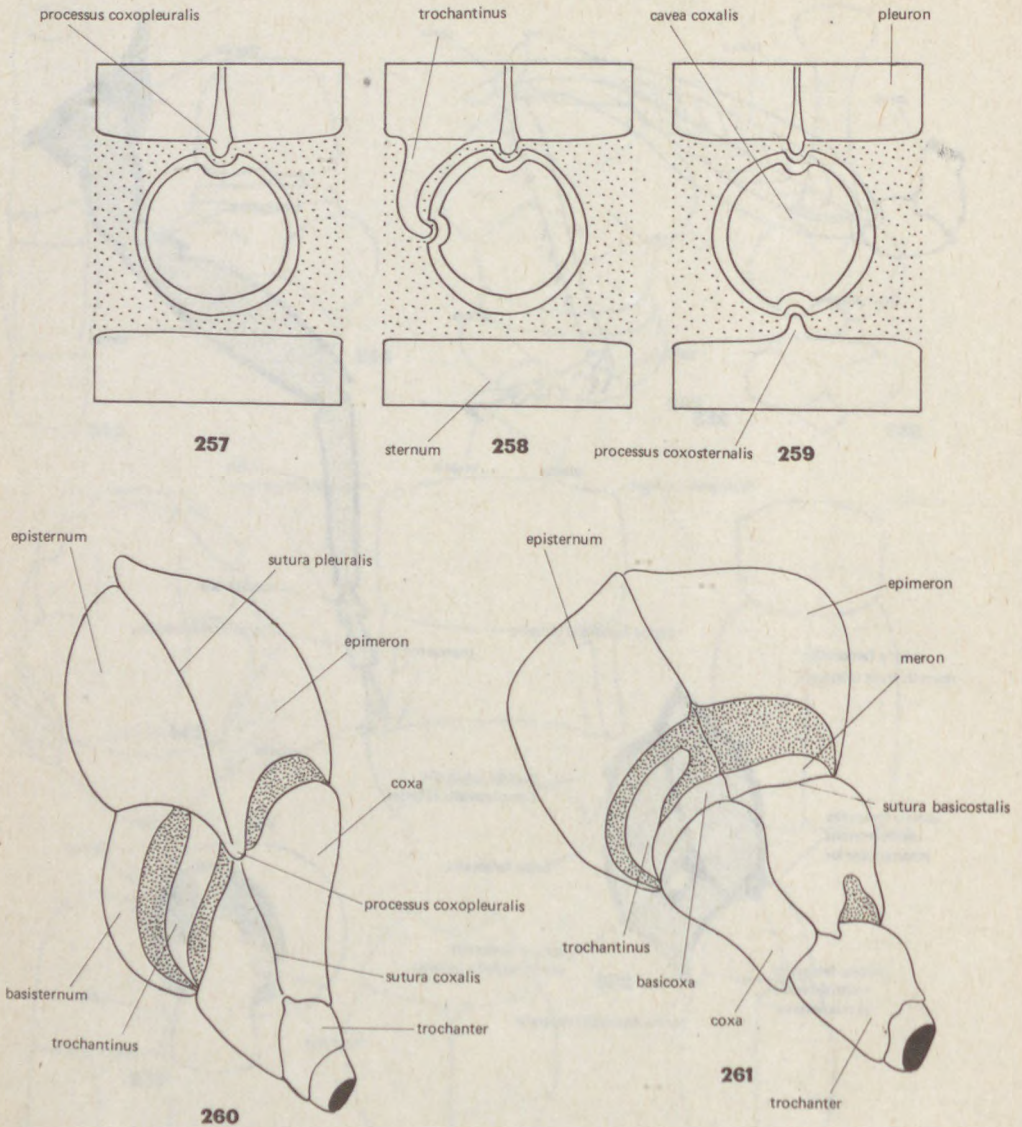
Figs. 241–242. Schematic drawing of the thorax in dorsal view. — 241: Wingless, and 242: winged



Figs. 243–252. Some typical thoraces in dorsal view. — 243: *Carausius* (Phasm.), 244: *Myrmeleon* (Neuropt.), 245: *Ascalaphus* (Neuropt.), 246: *Mantispa* (Neuropt.), 247: *Tabanus* (Dipt.), 248: *Anisolabis* (Dermapt.), 249: *Labidura* (Dermapt.), 250: *Staphilinus* (Coleopt.), 251: *Hister* (Coleopt.), and 252: *Brachonyx* (Coleopt.)



Figs. 253–256. The leg (pes). — 253: In lateral view, and 254: in longitudinal section. 255: Cross section of femur. 256: The knee (articulatio femorotibialis) (after Snodgrass 256)



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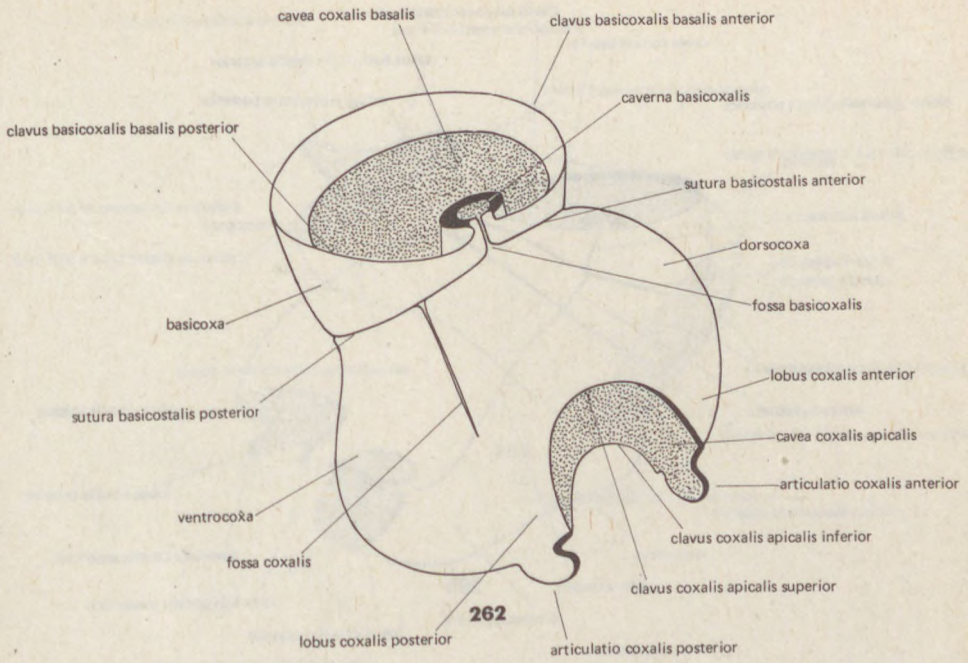


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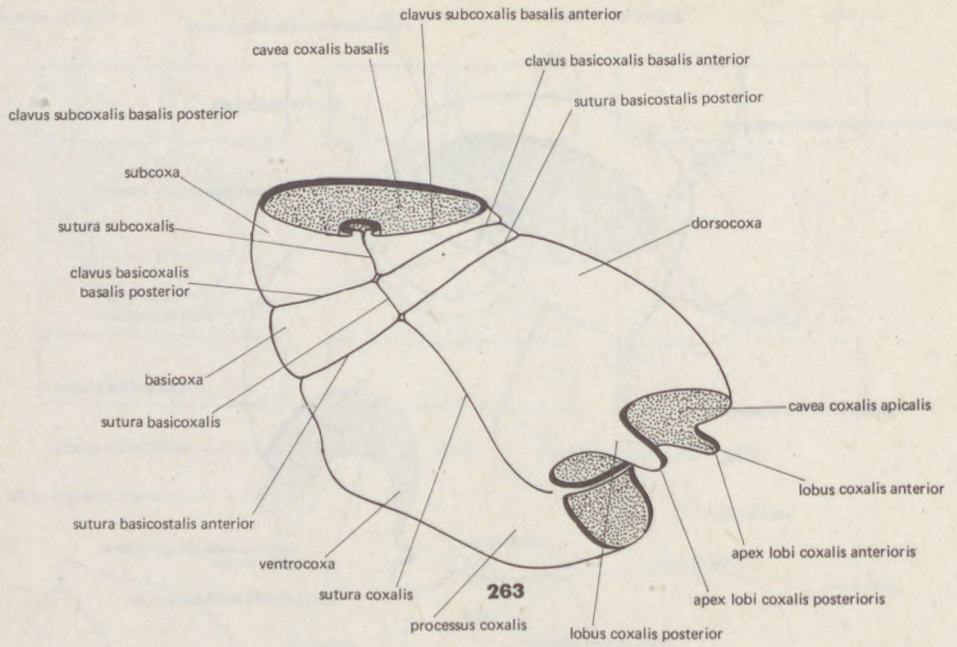
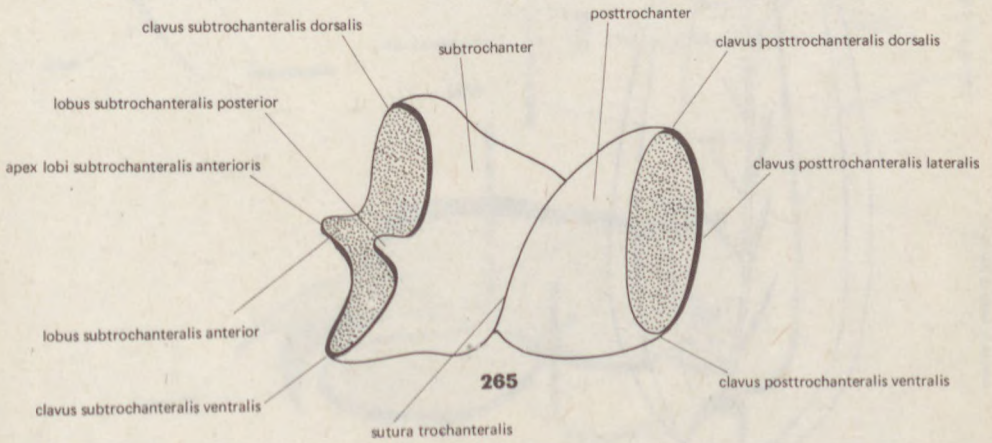
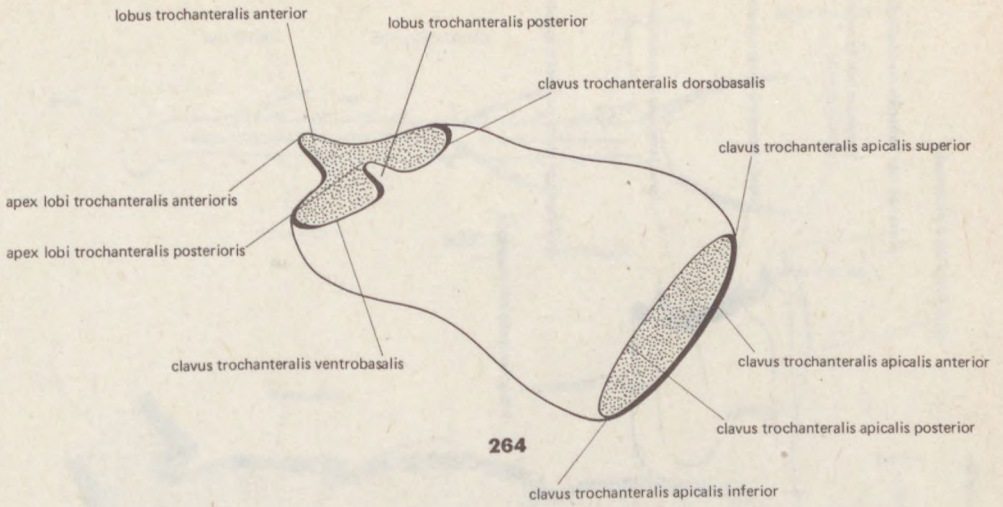


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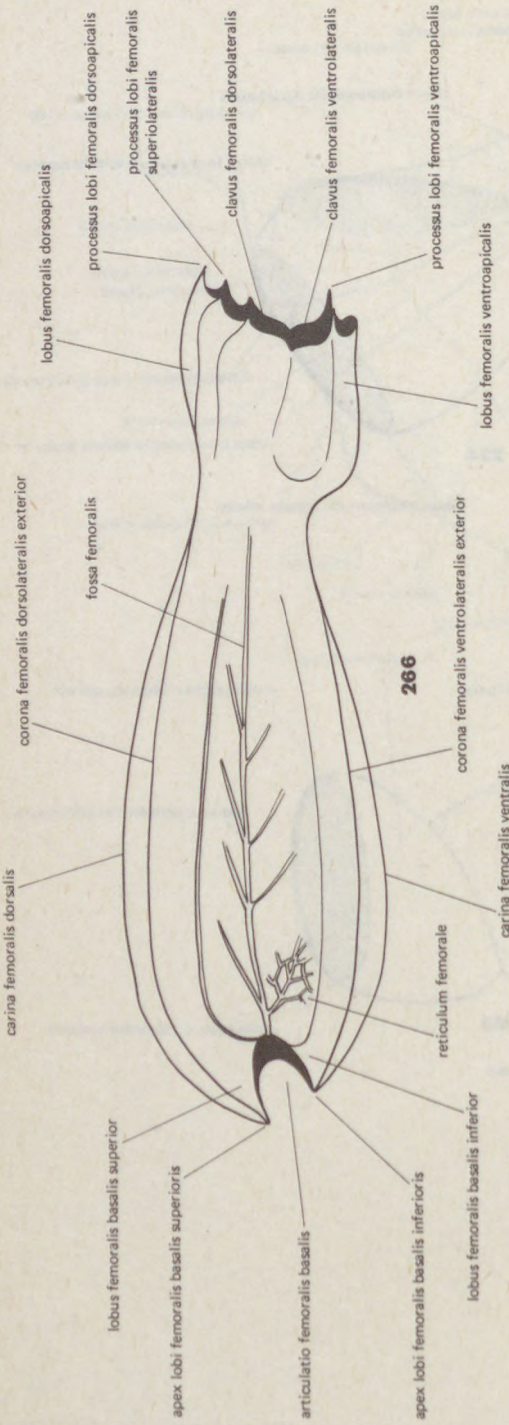


Fig. 266. The femur

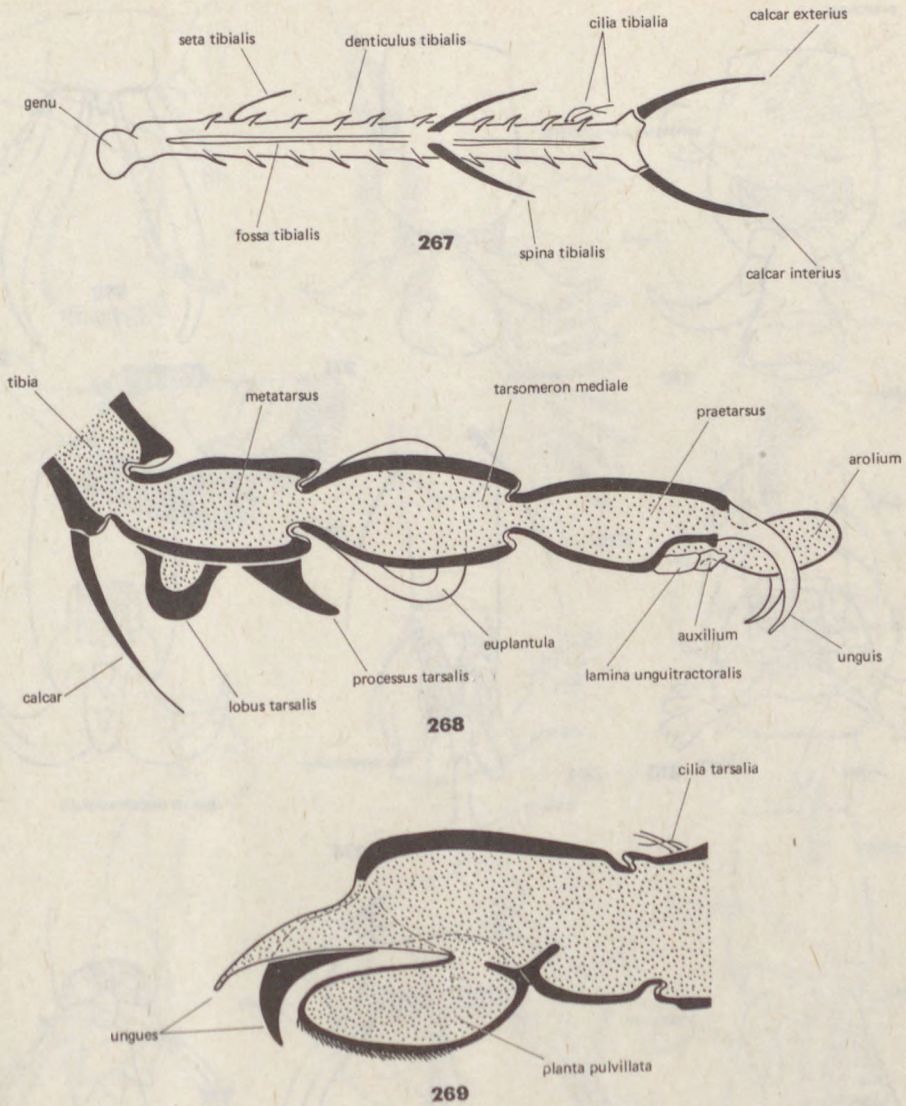
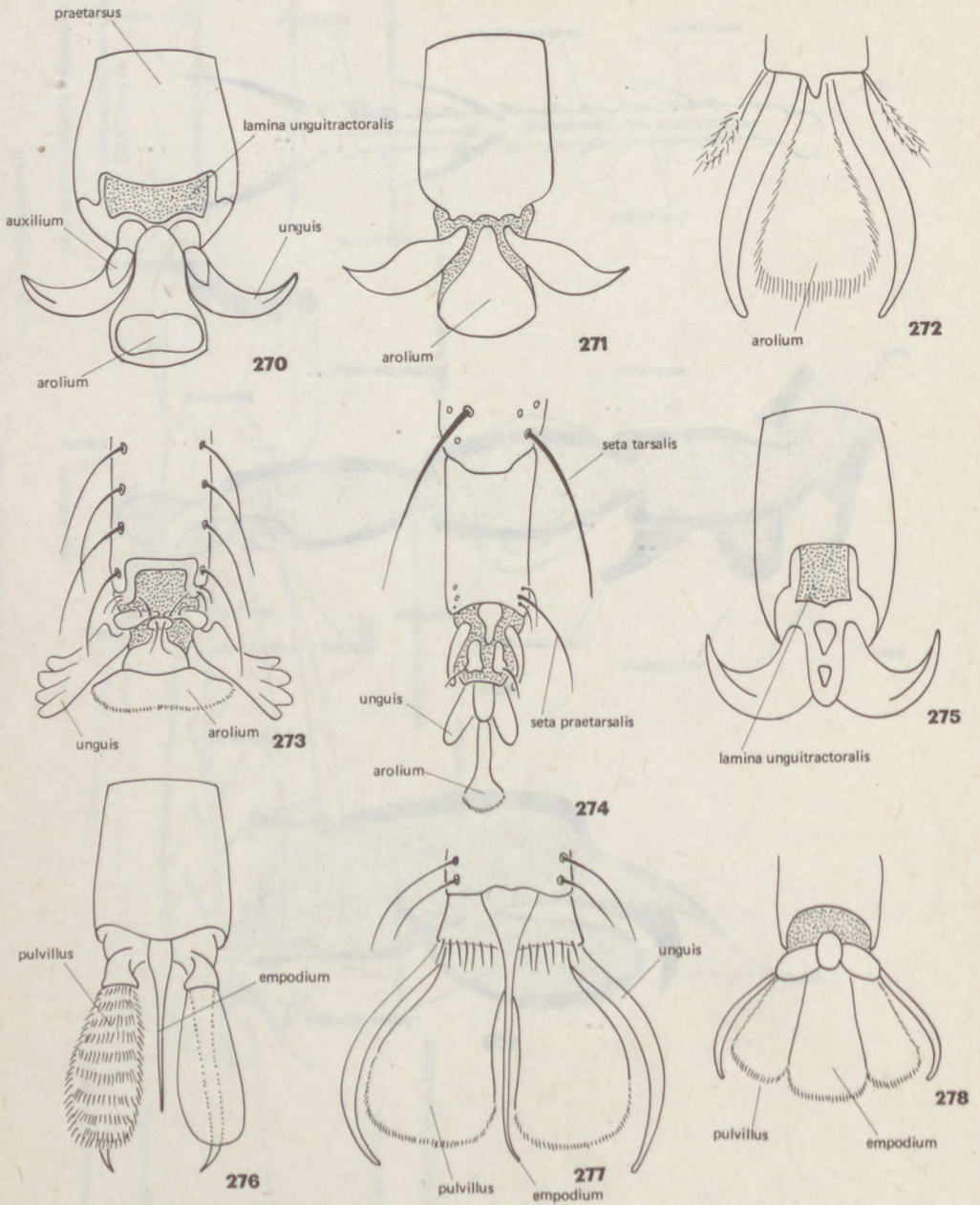
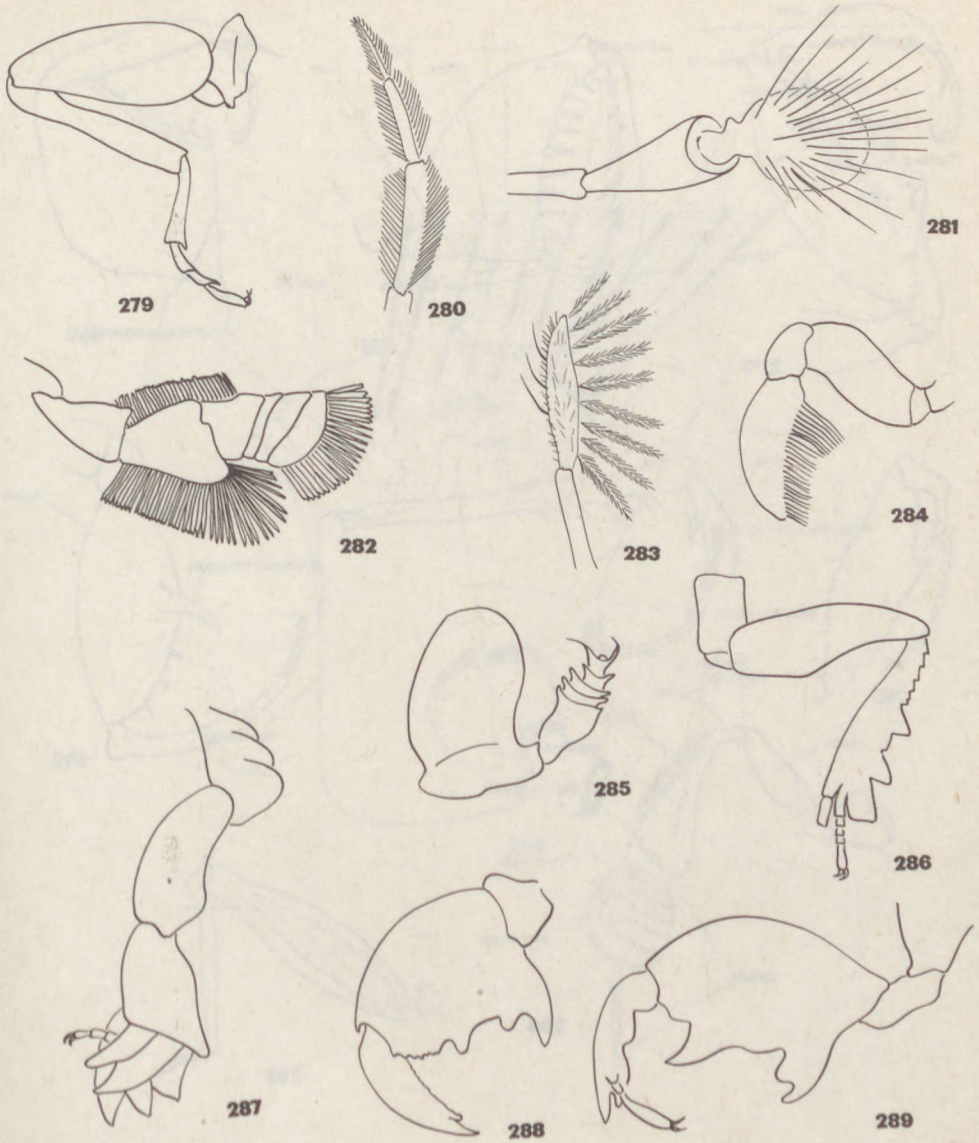


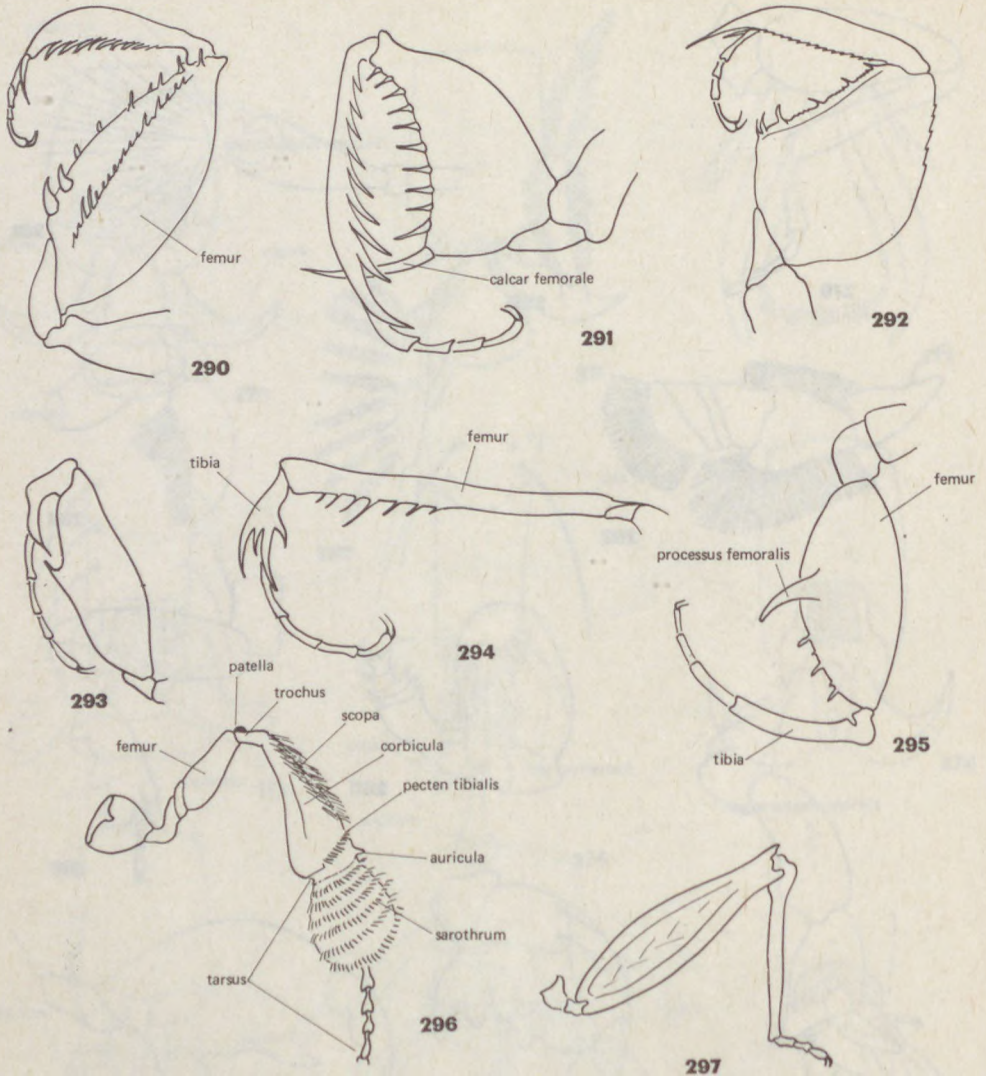
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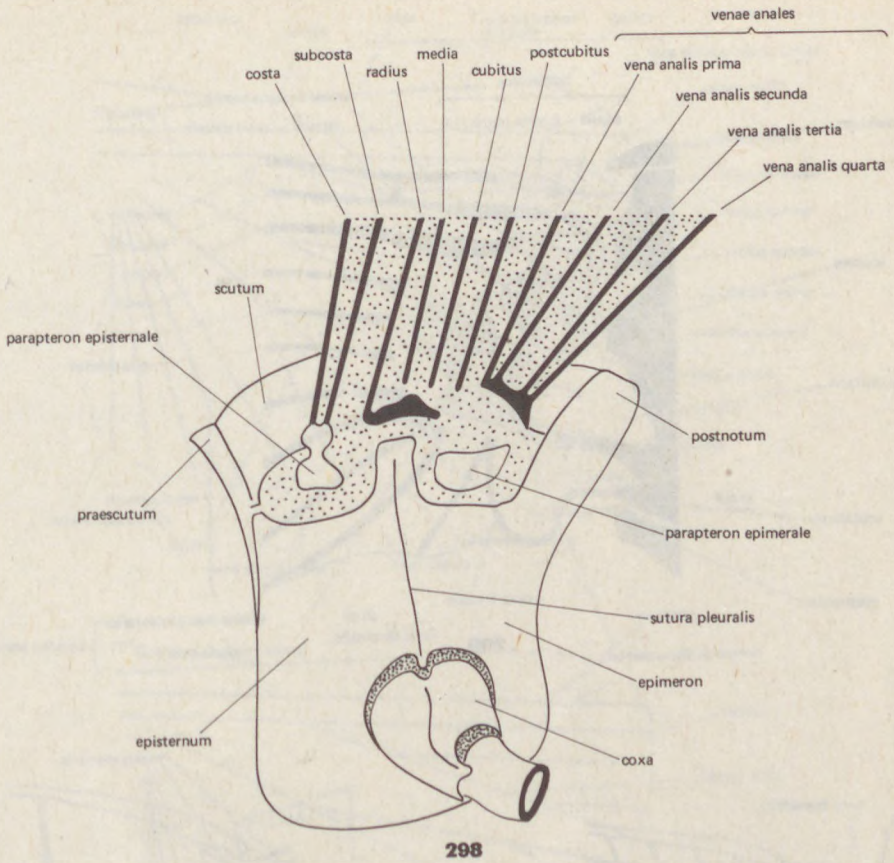
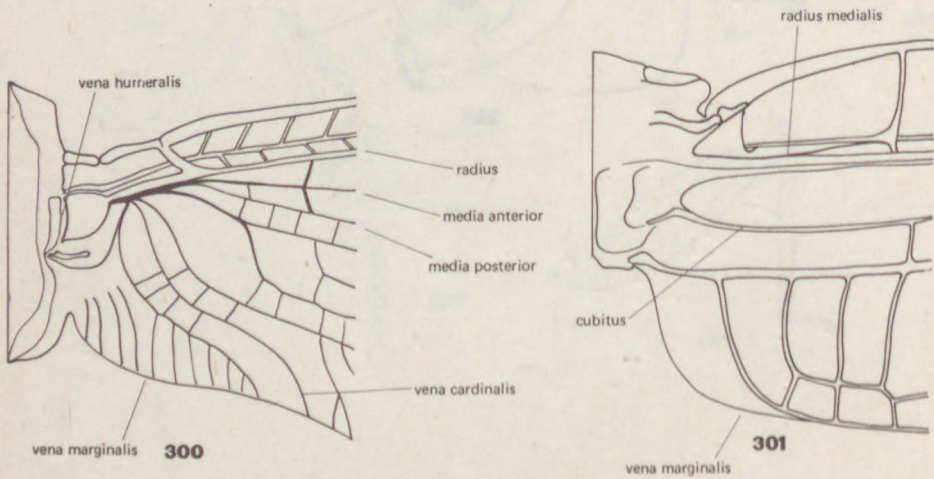
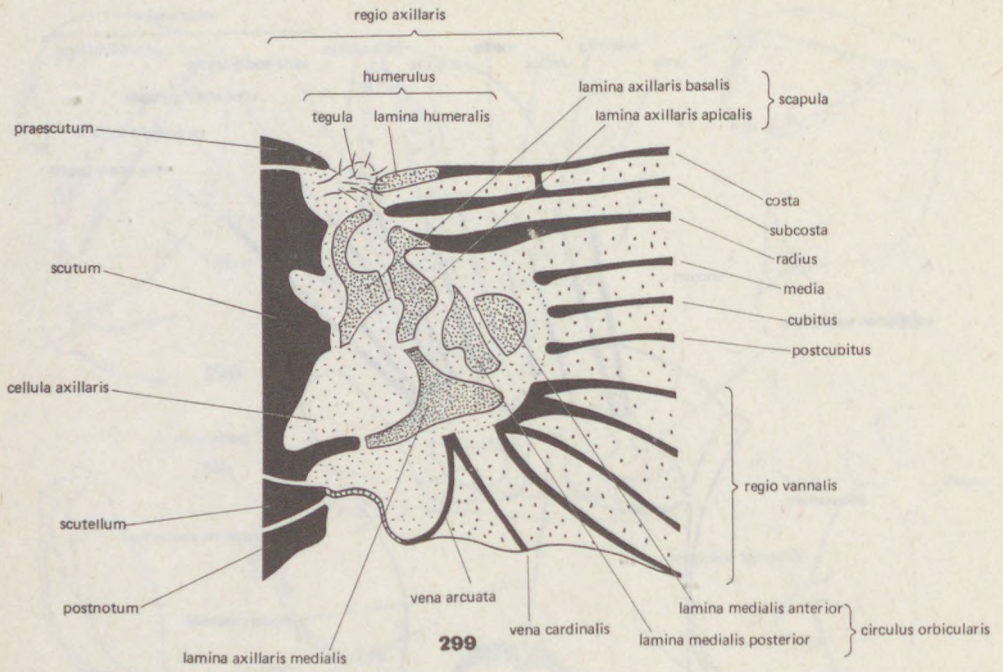
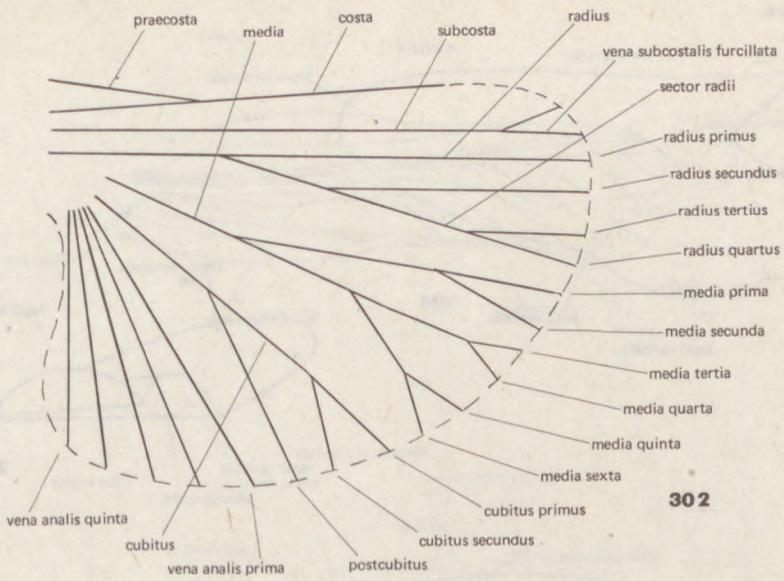


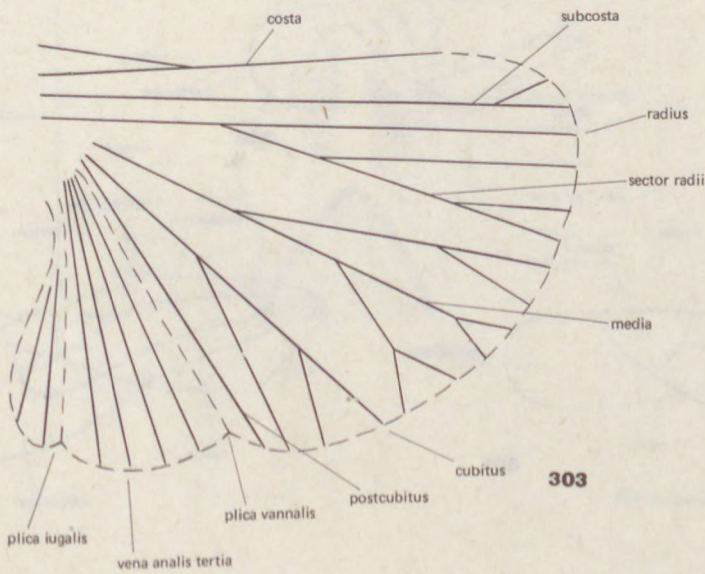
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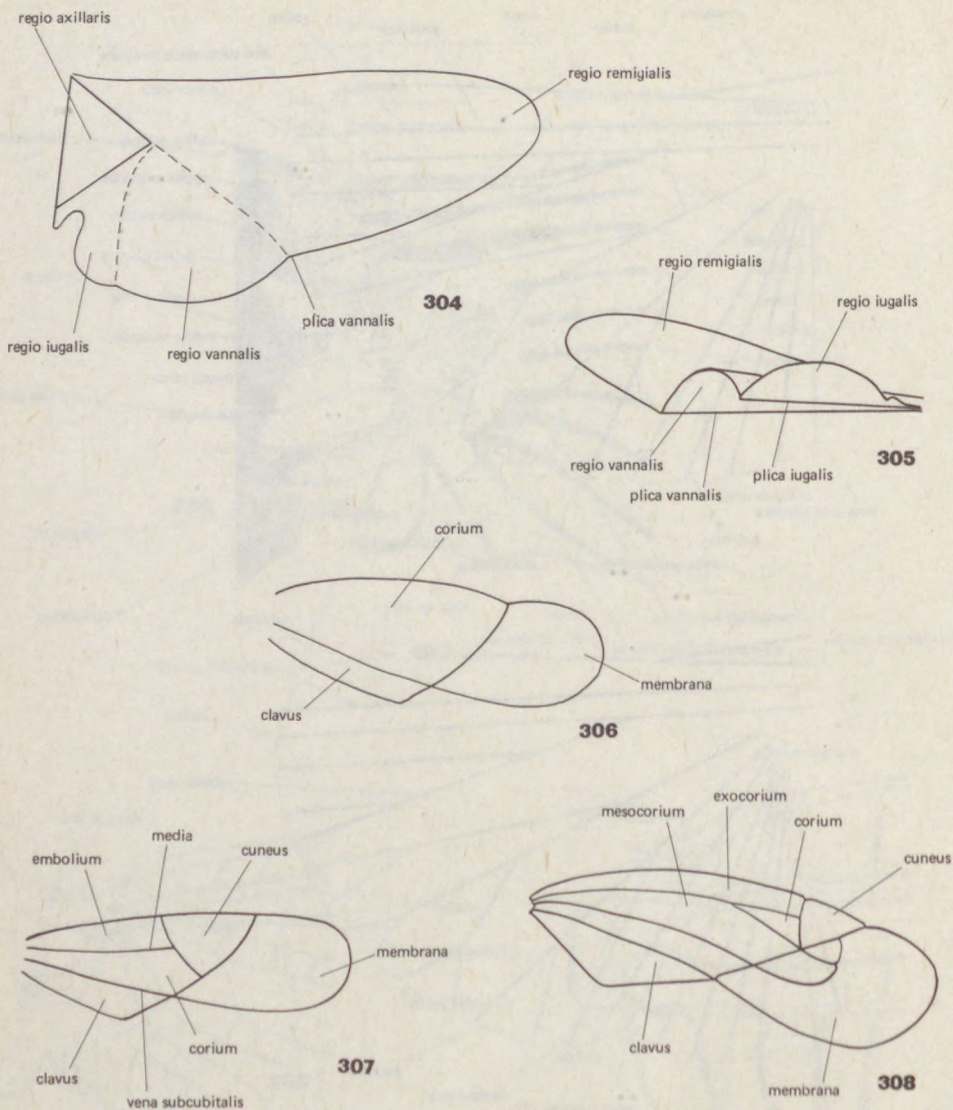


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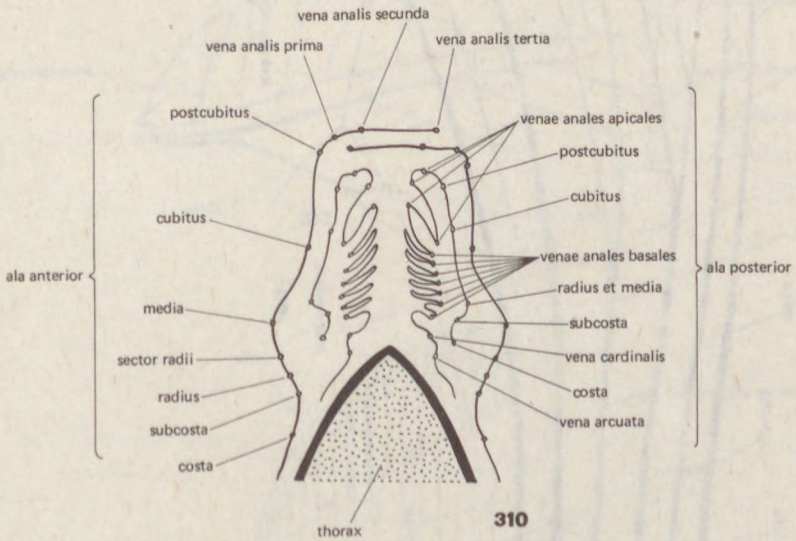
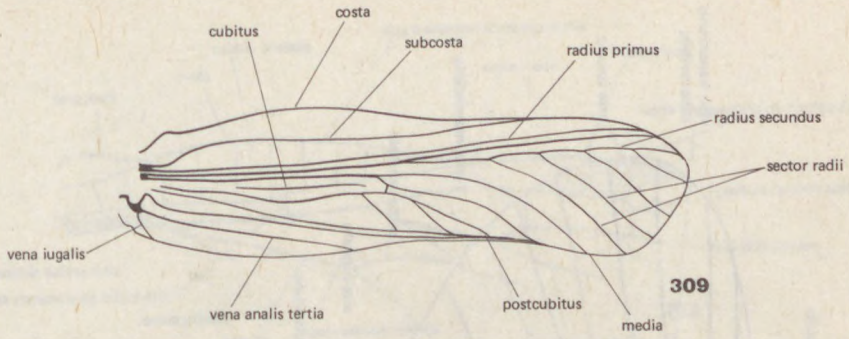


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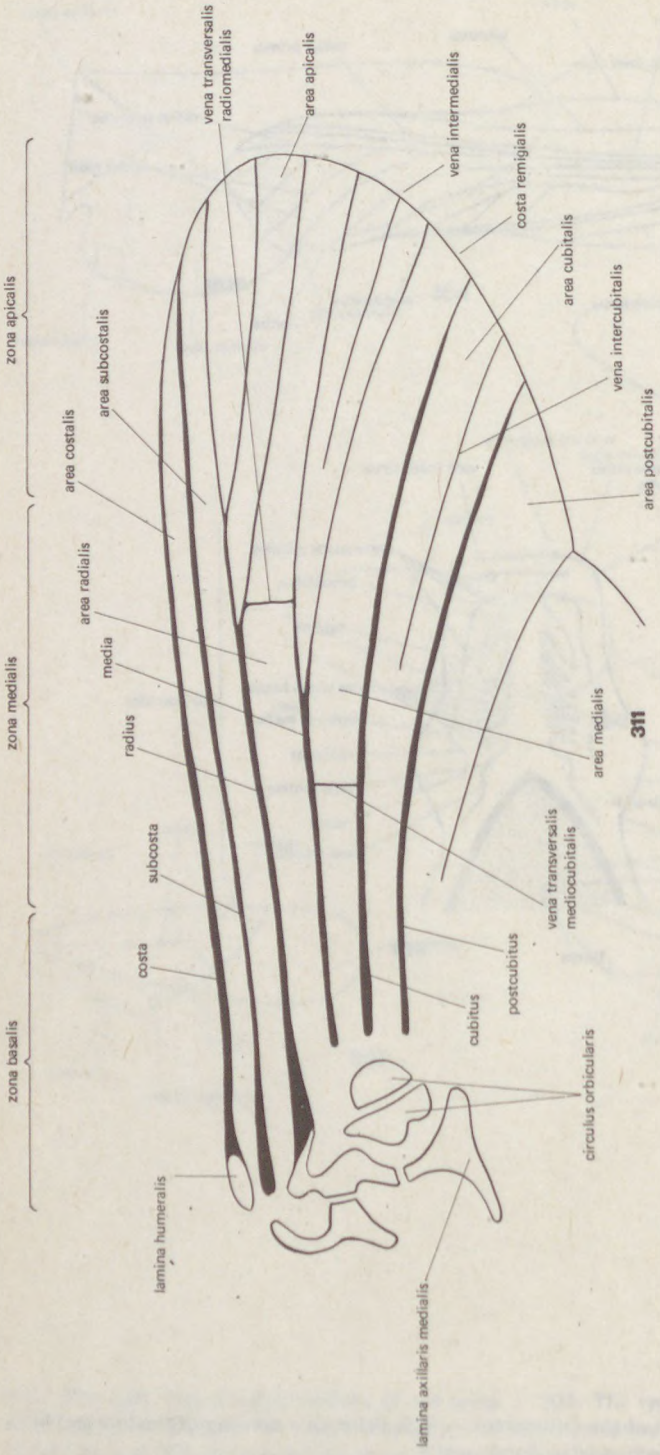


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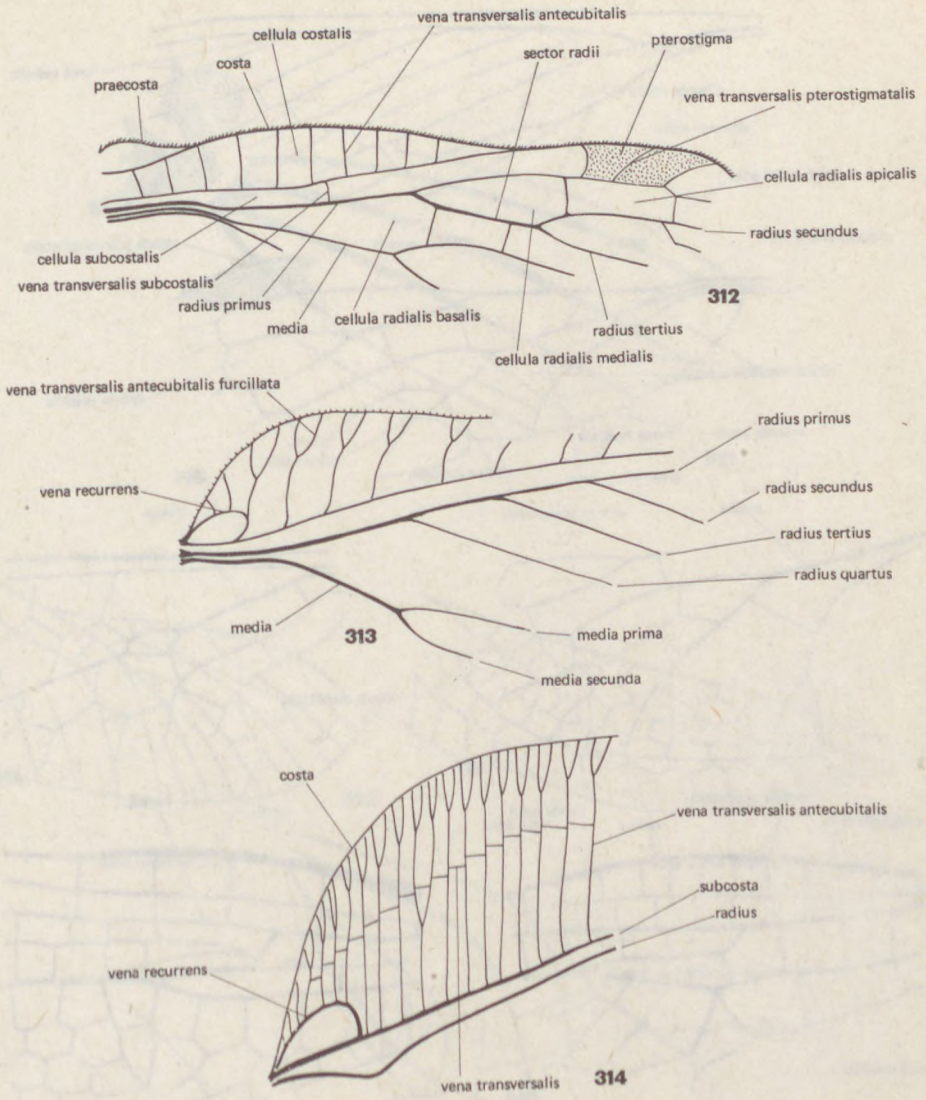


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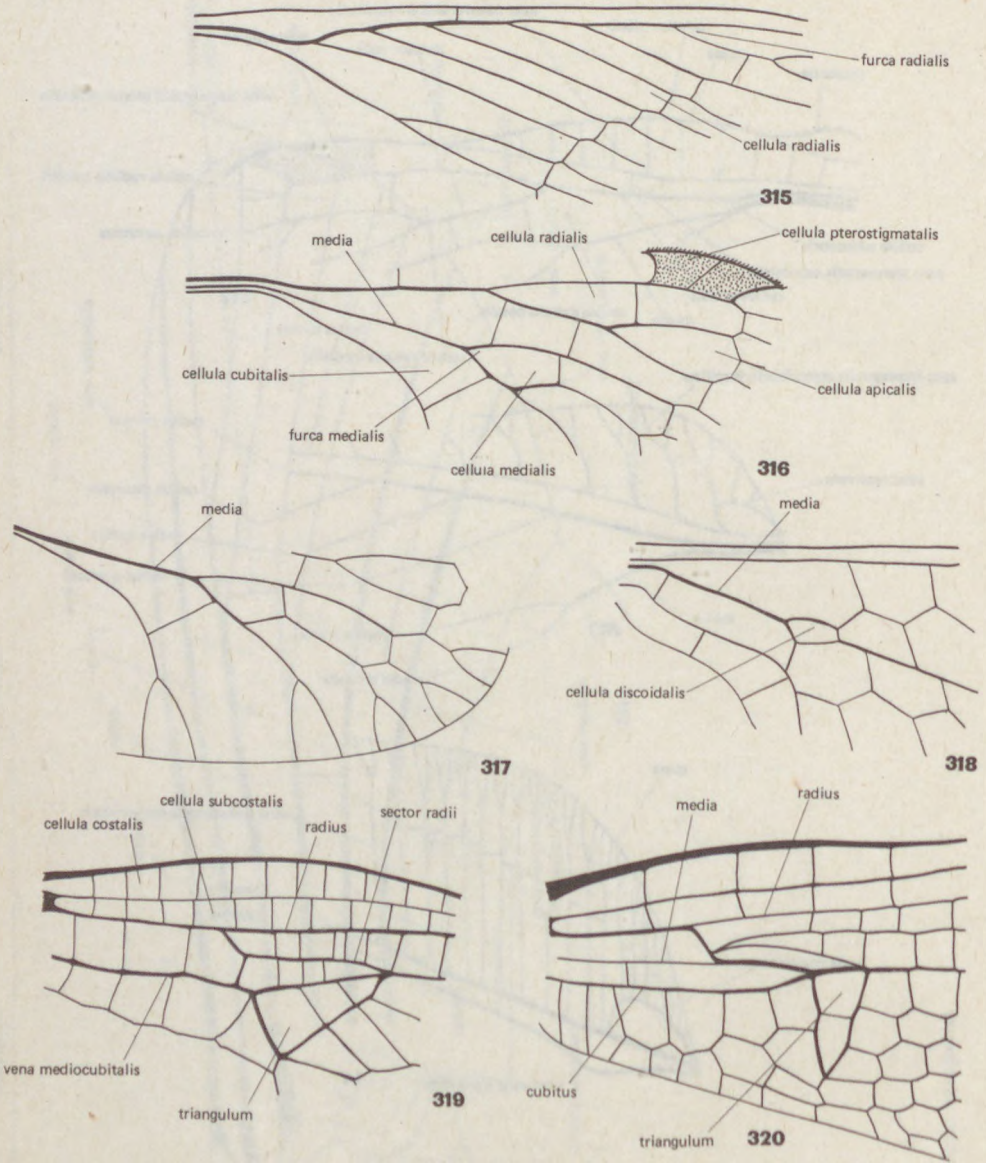
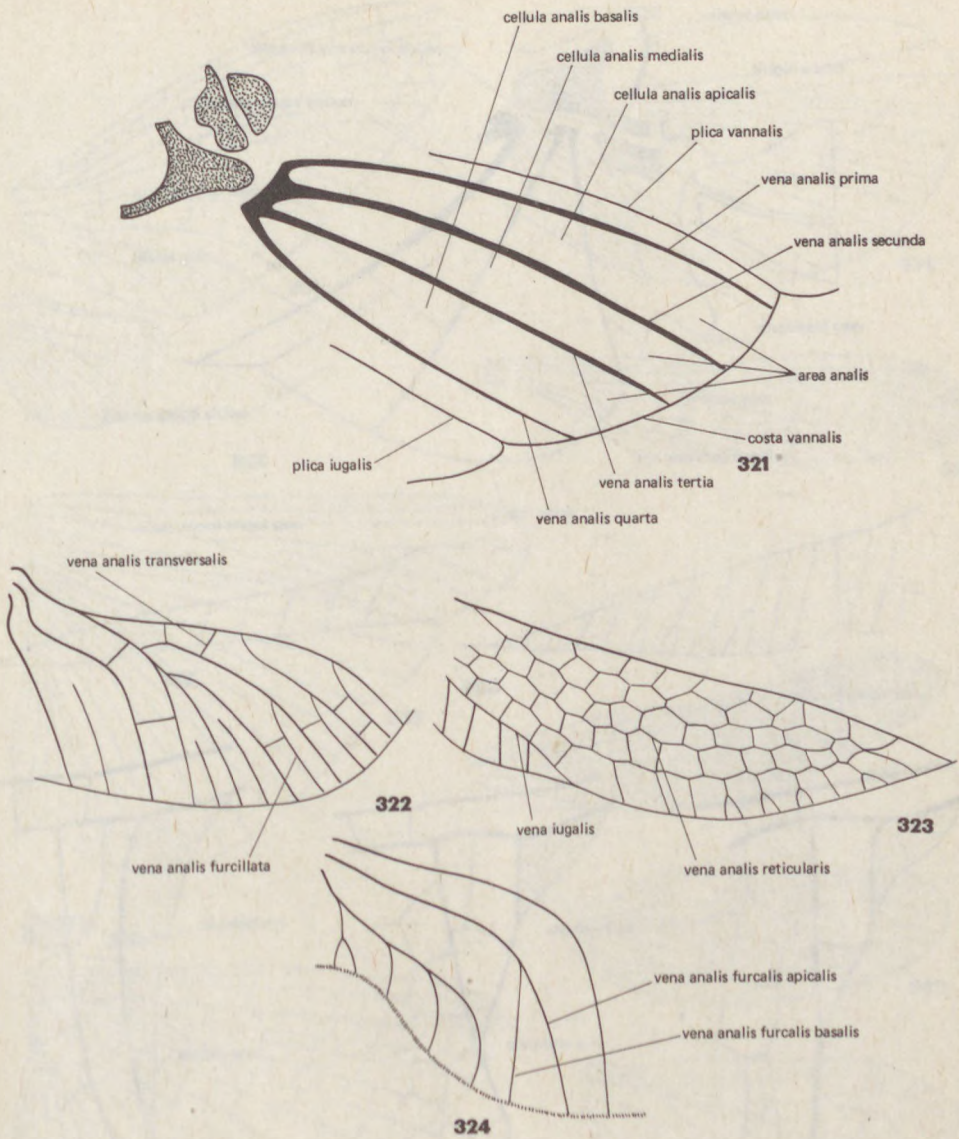
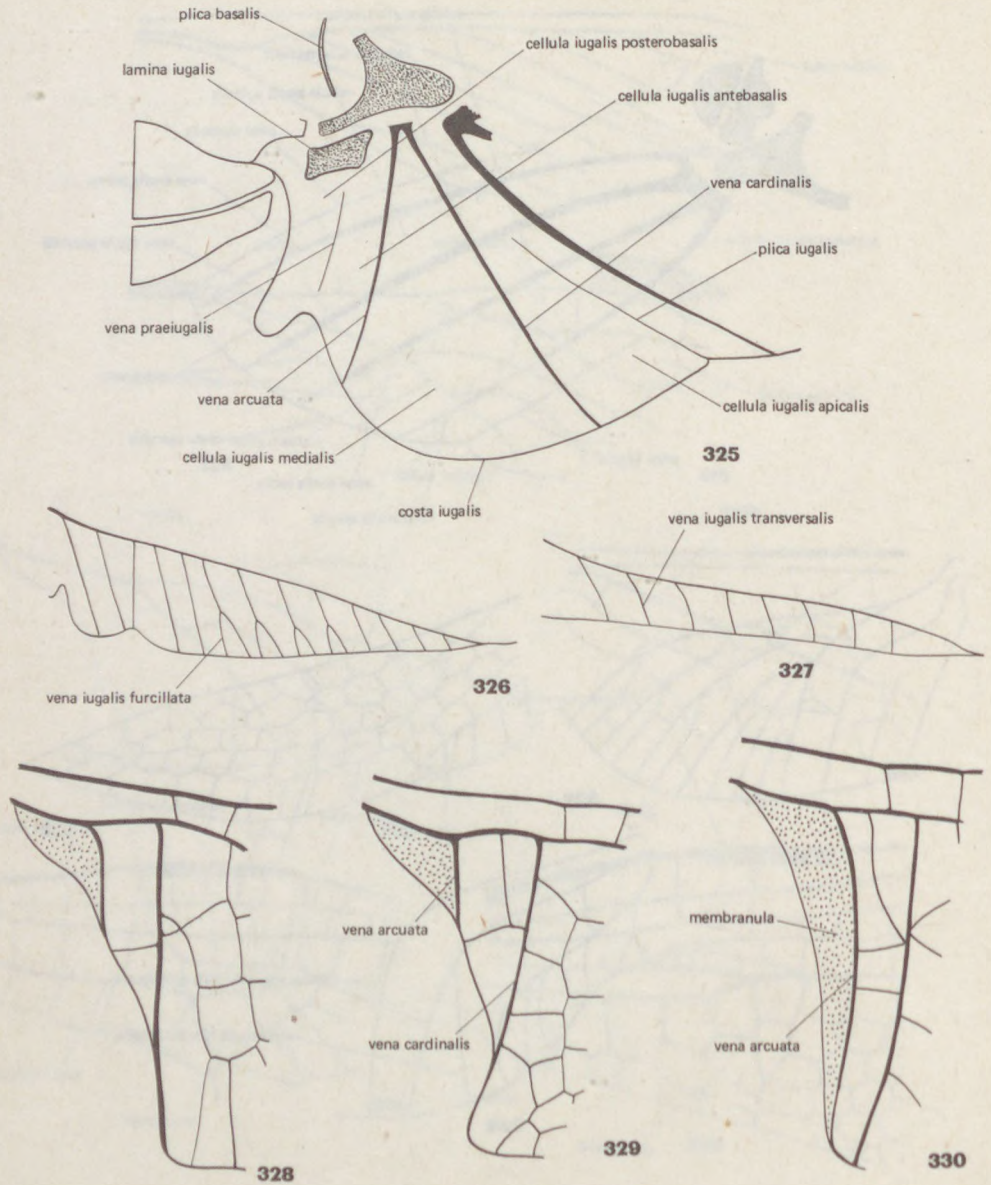


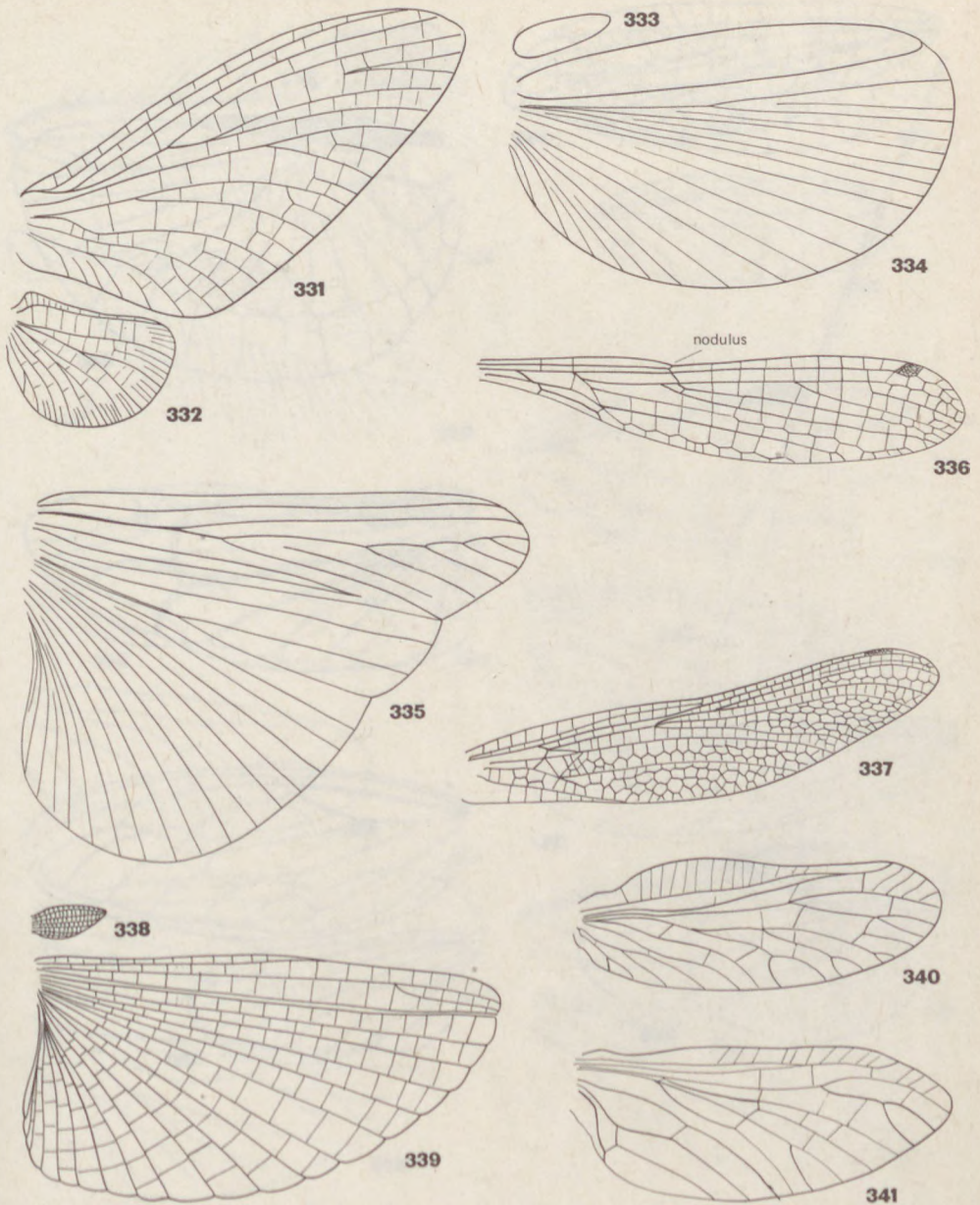
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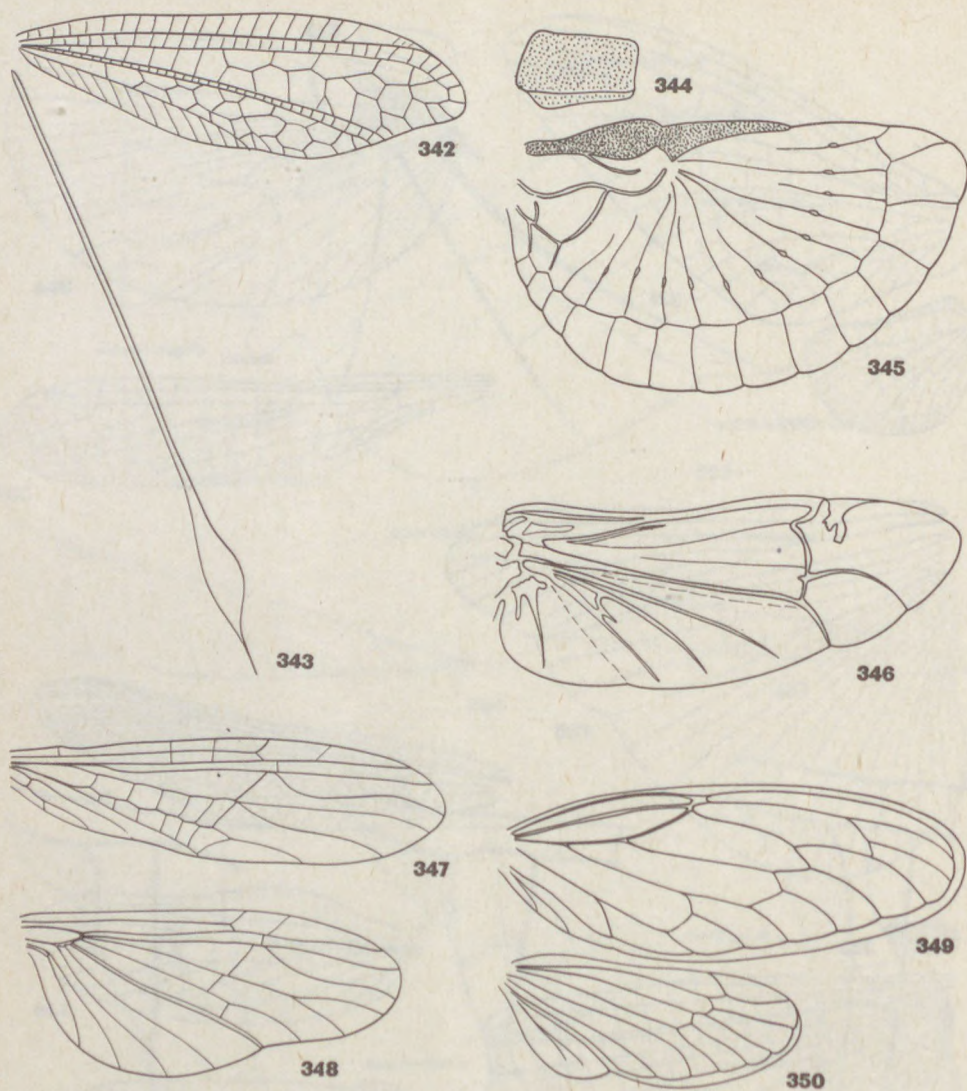
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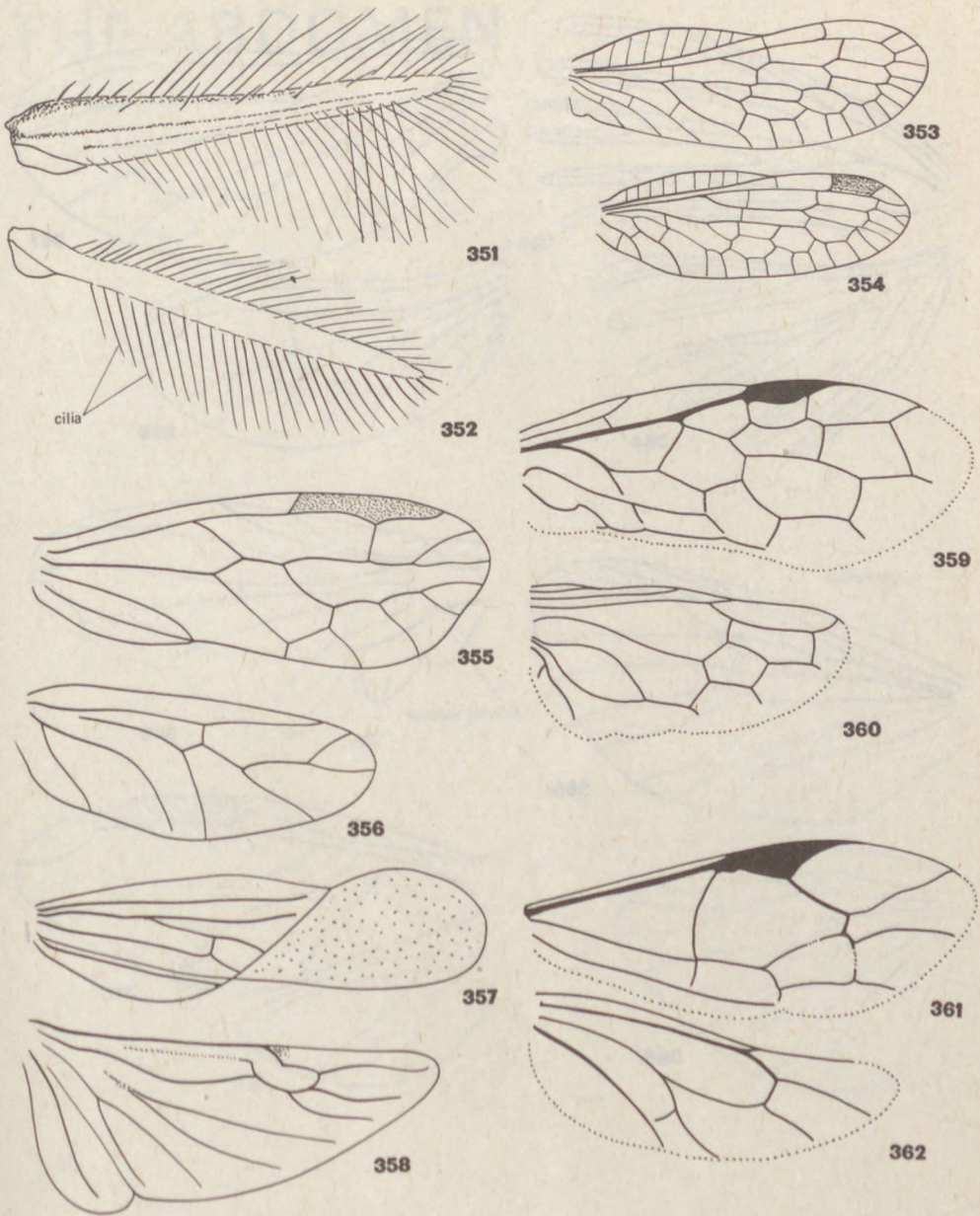
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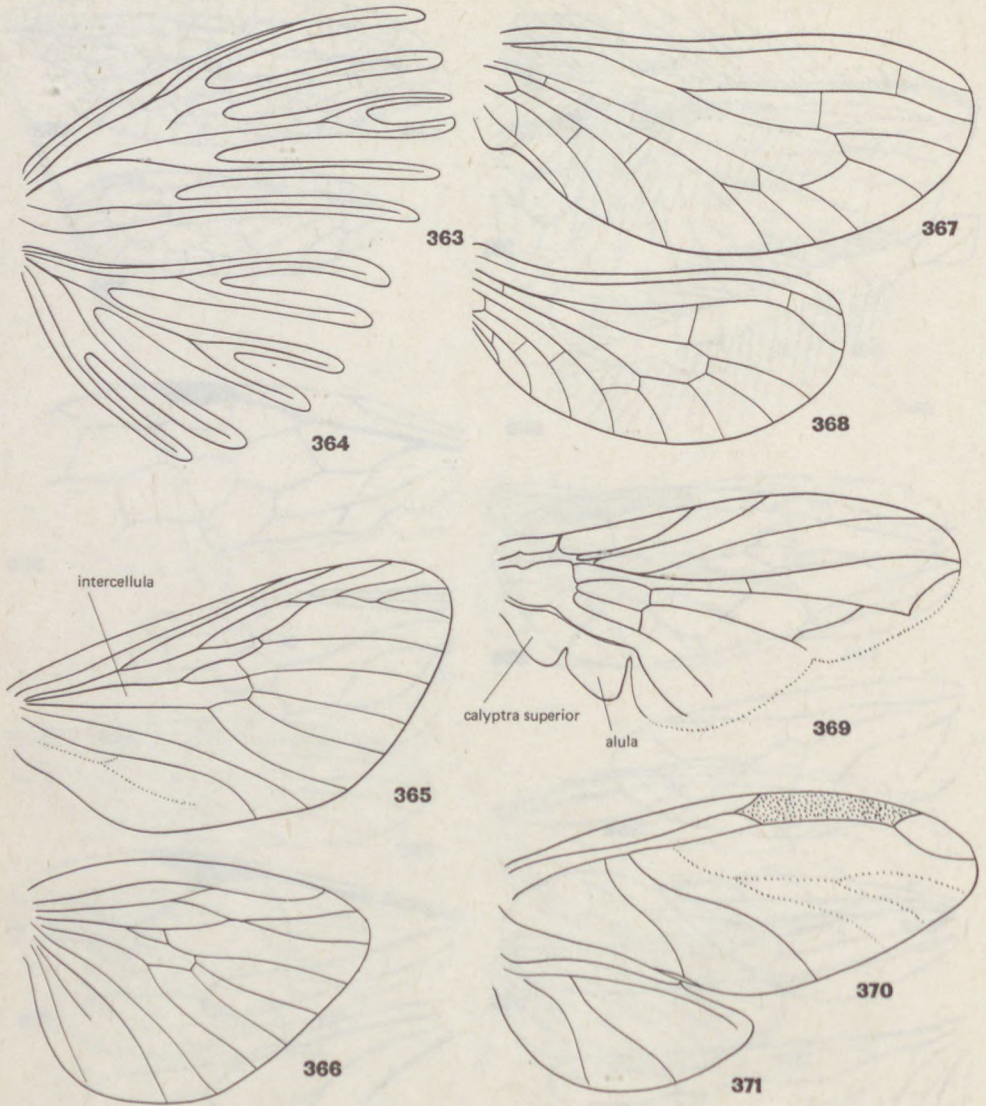
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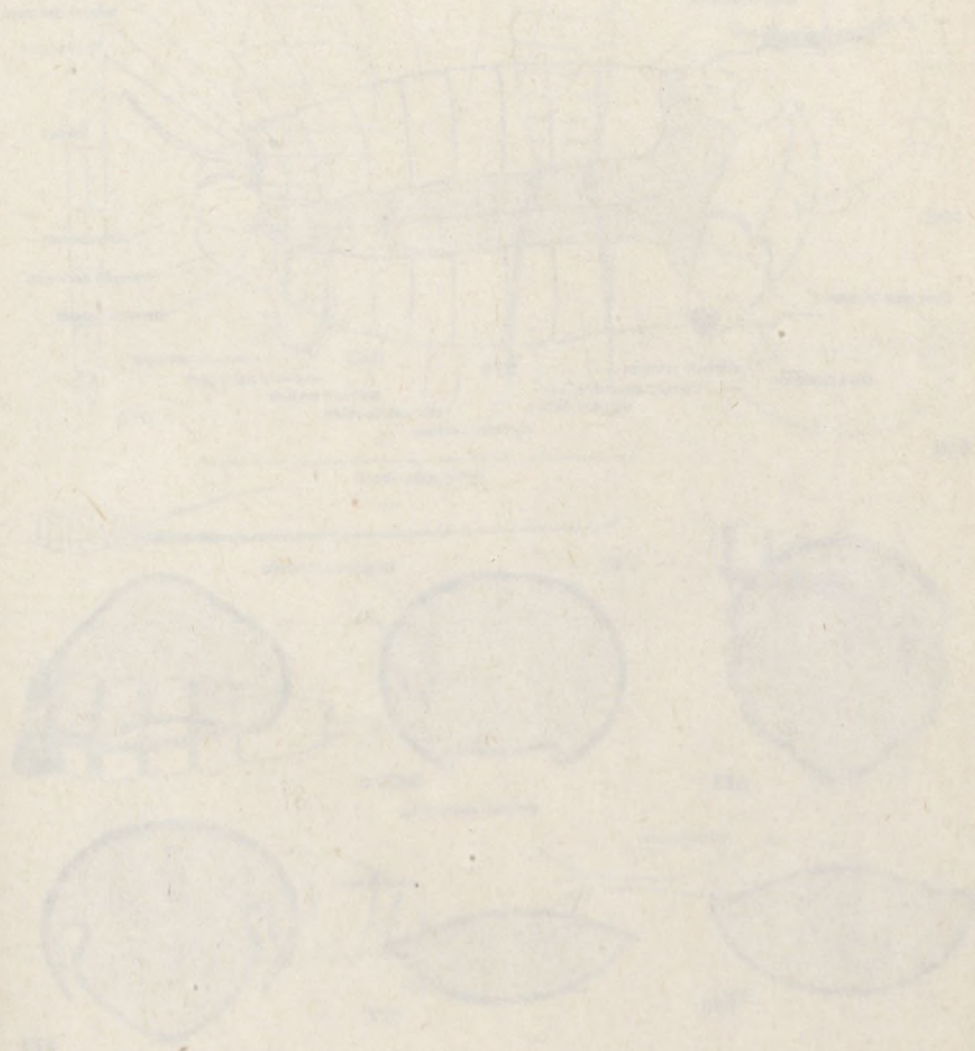


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THE ABDOMEN



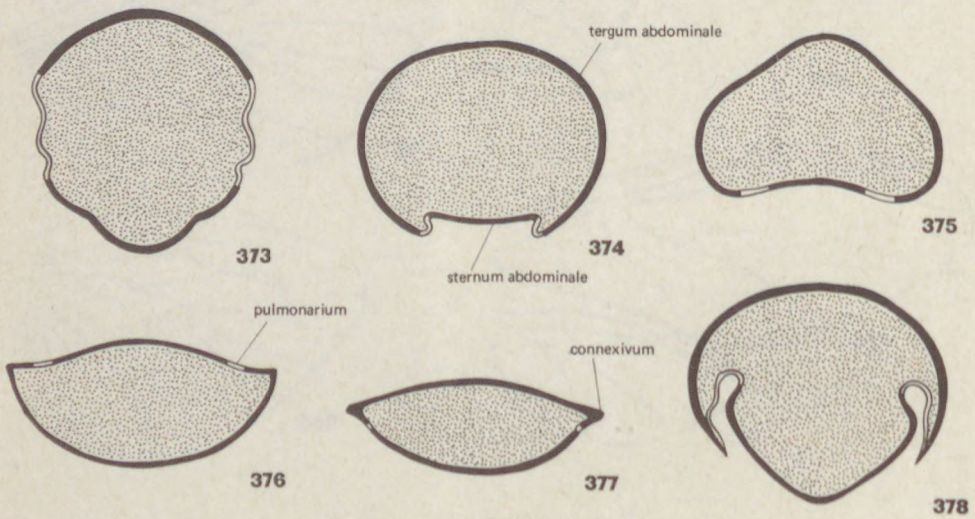
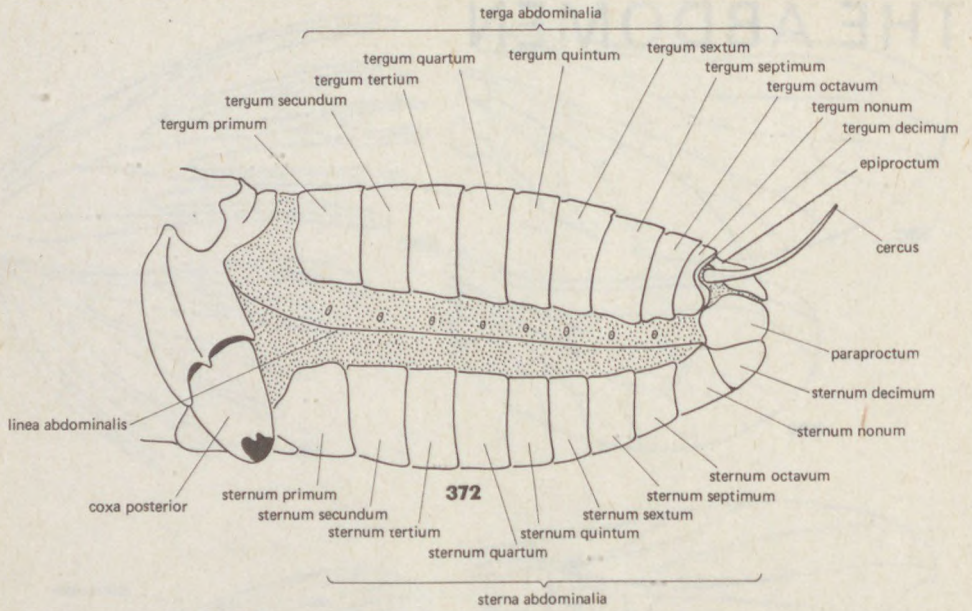
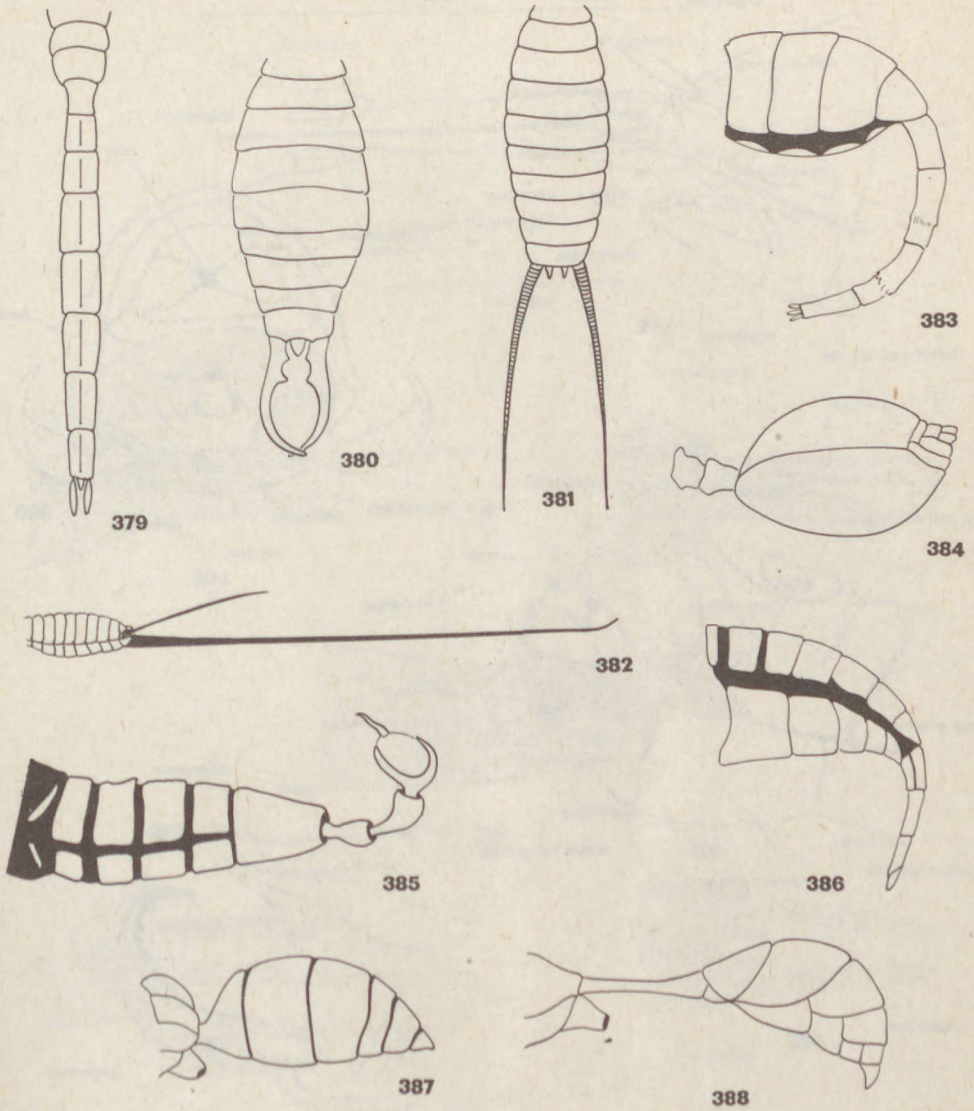
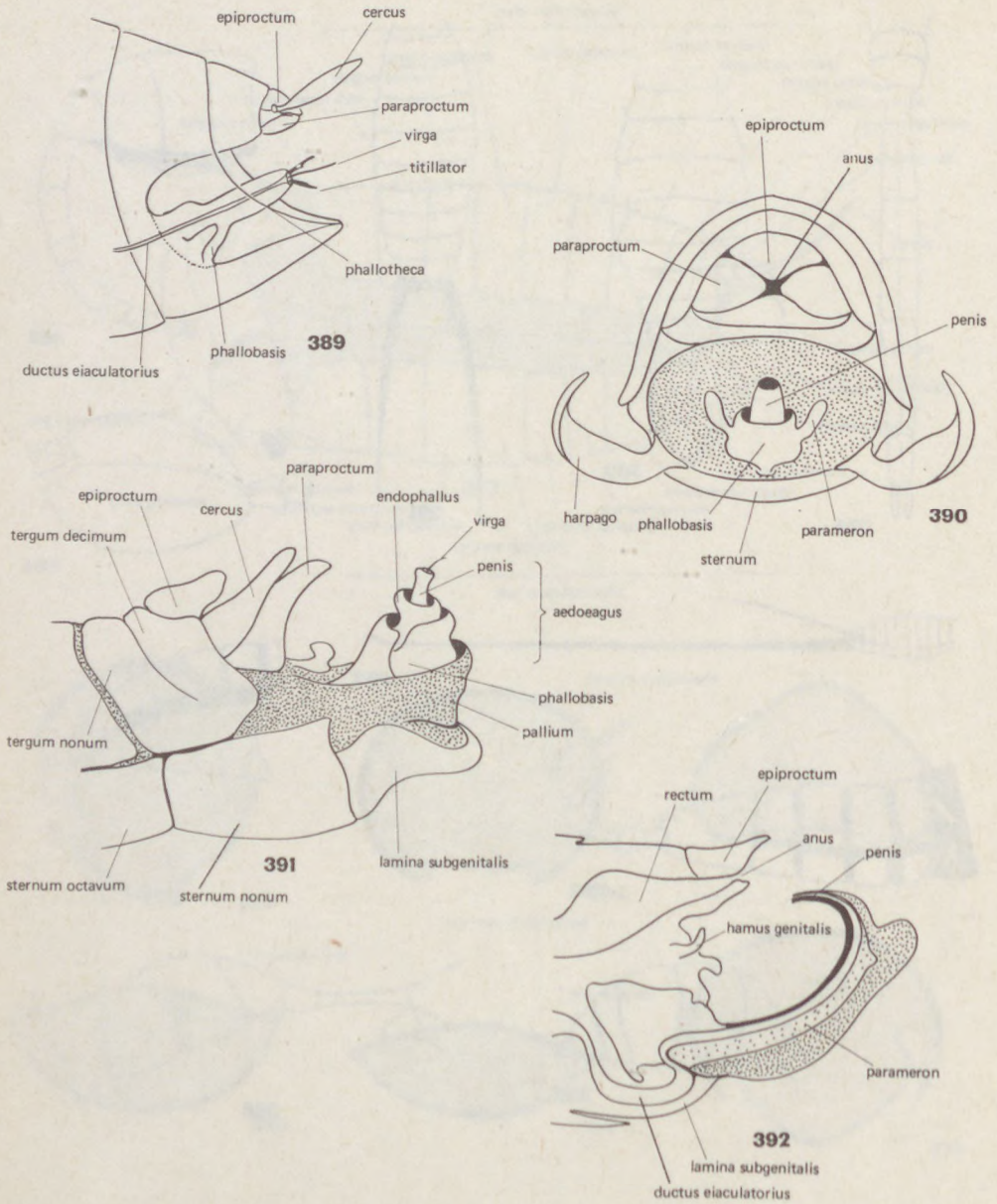


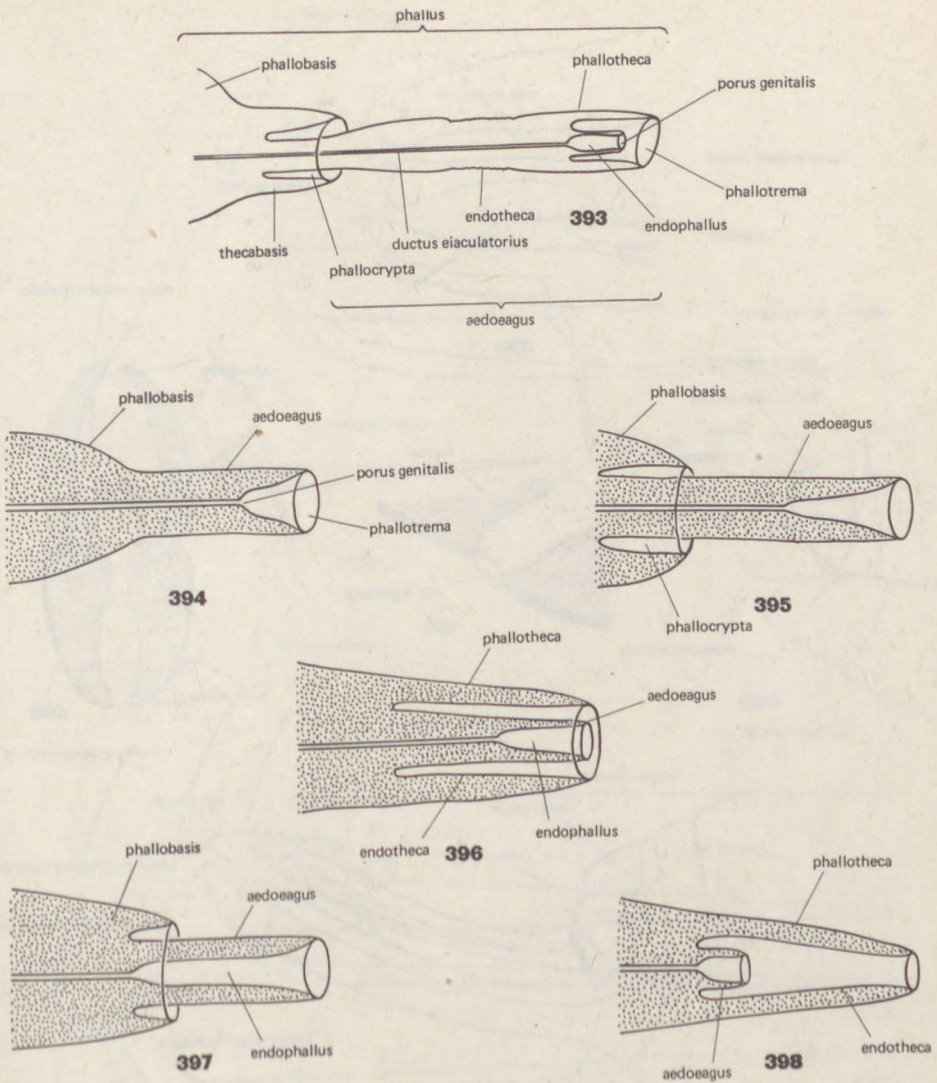
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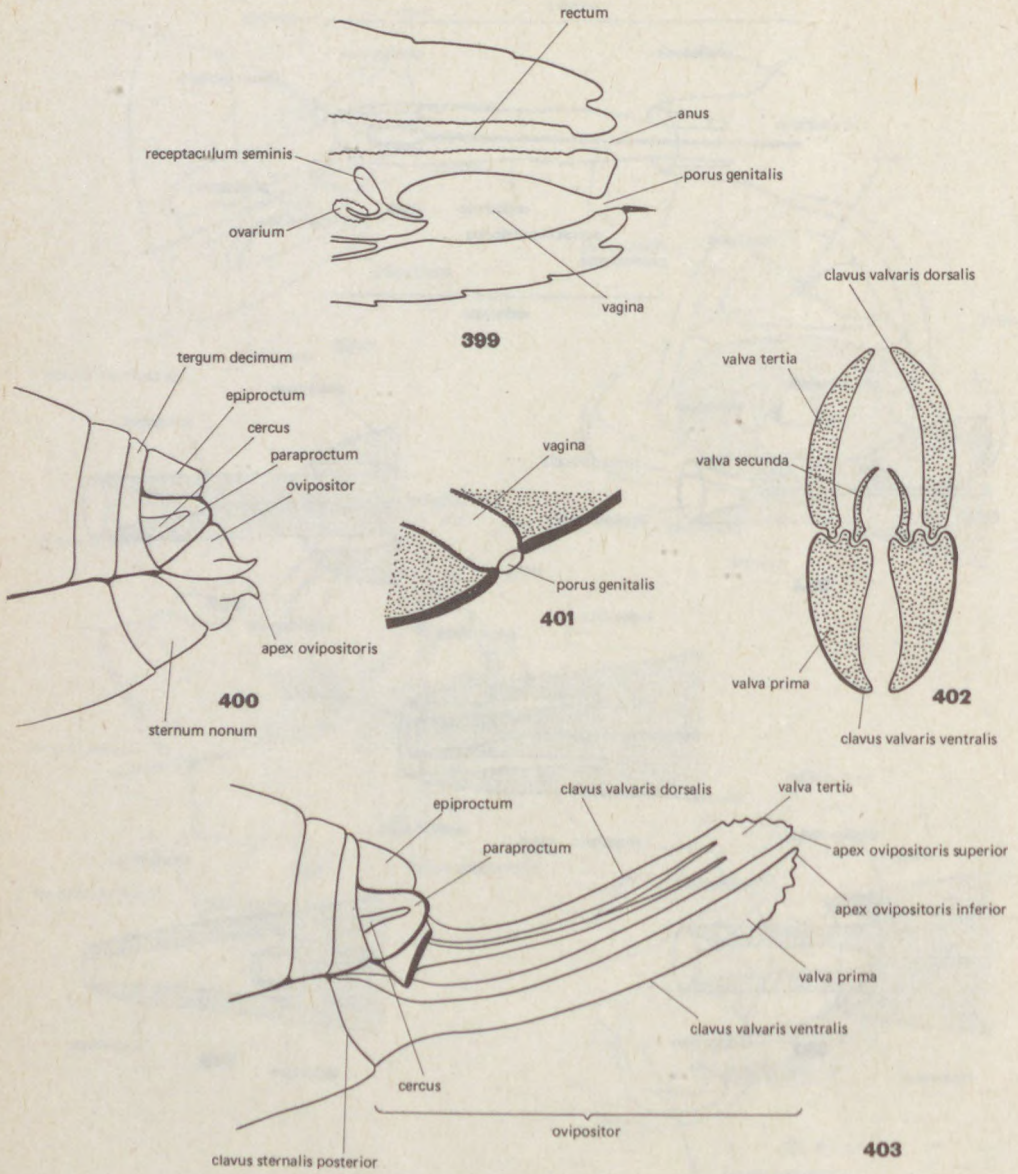
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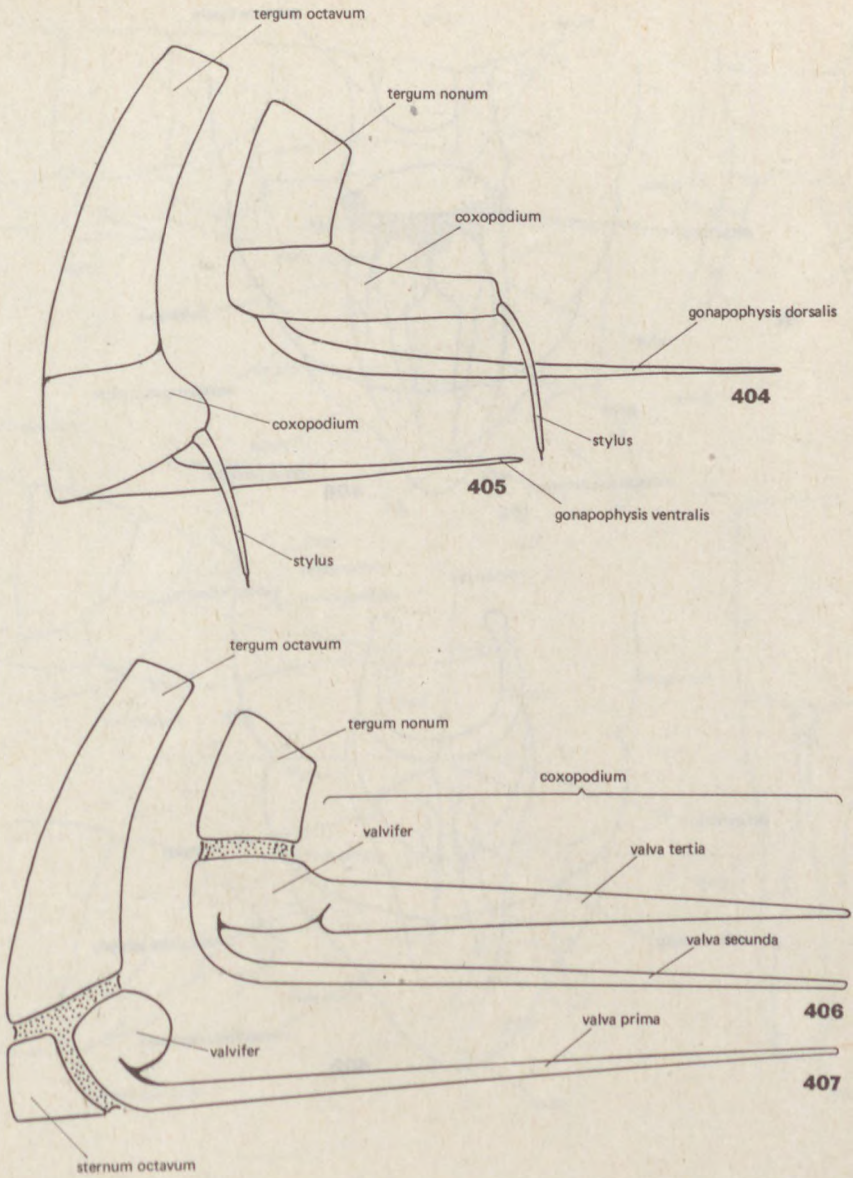
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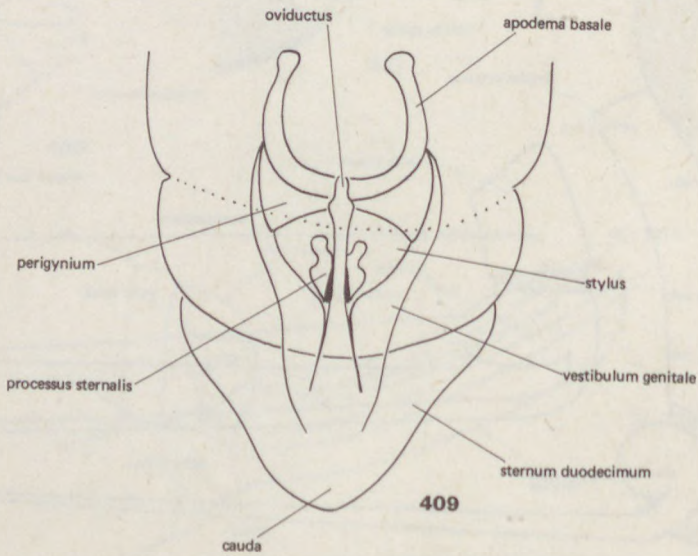
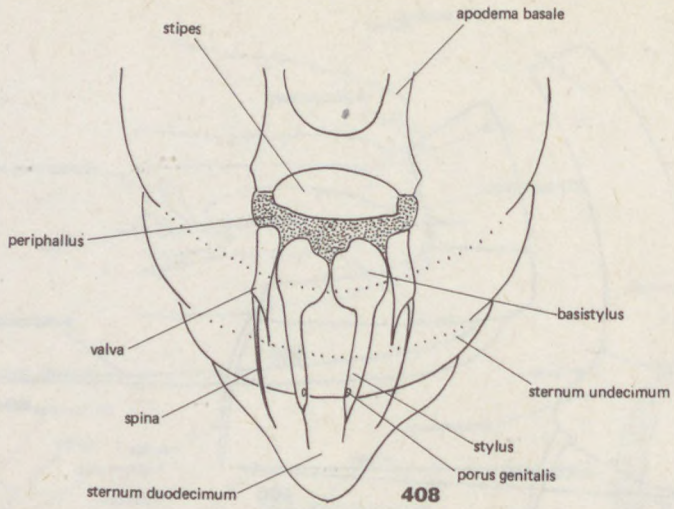
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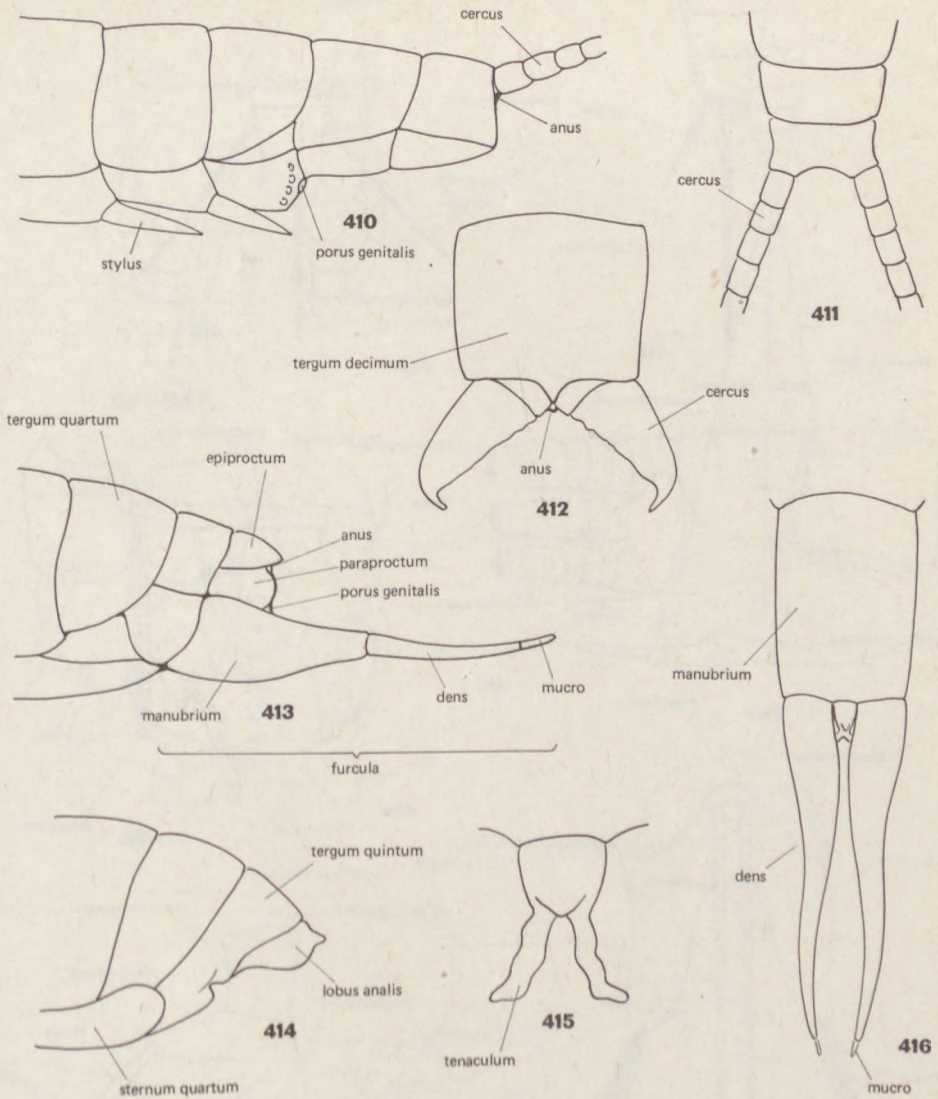
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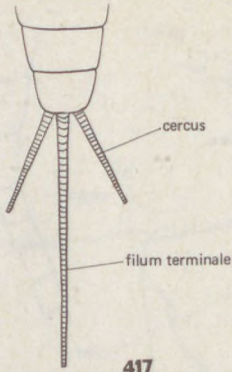
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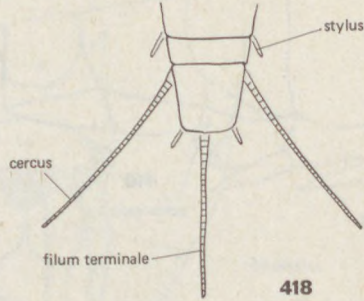
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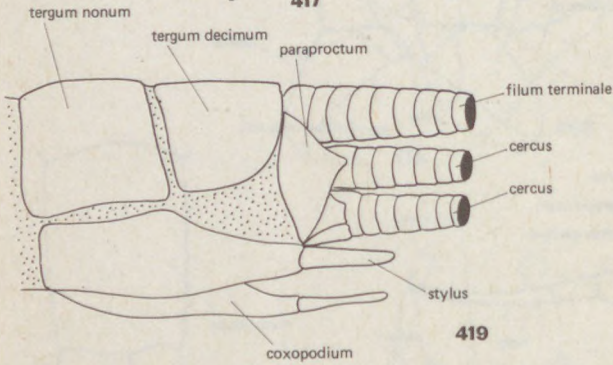
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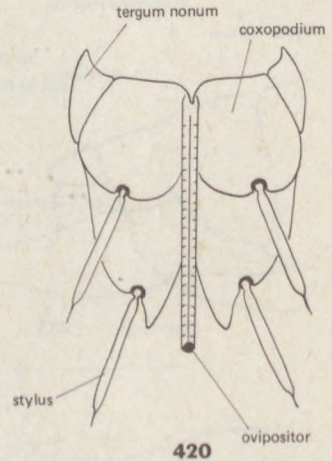
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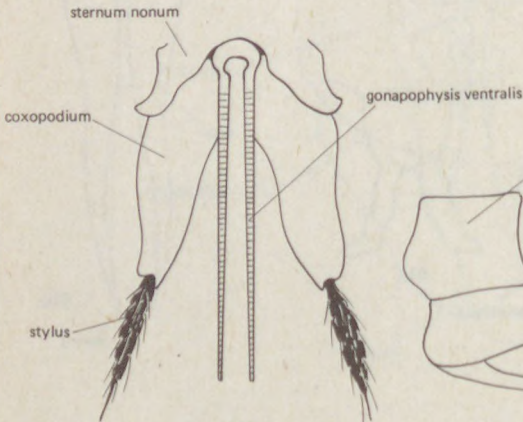
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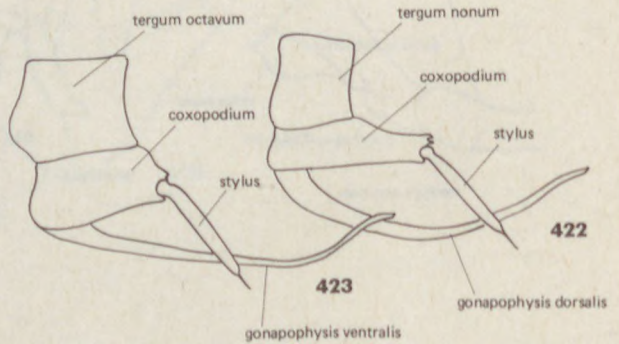
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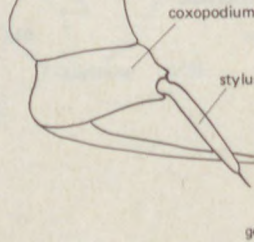
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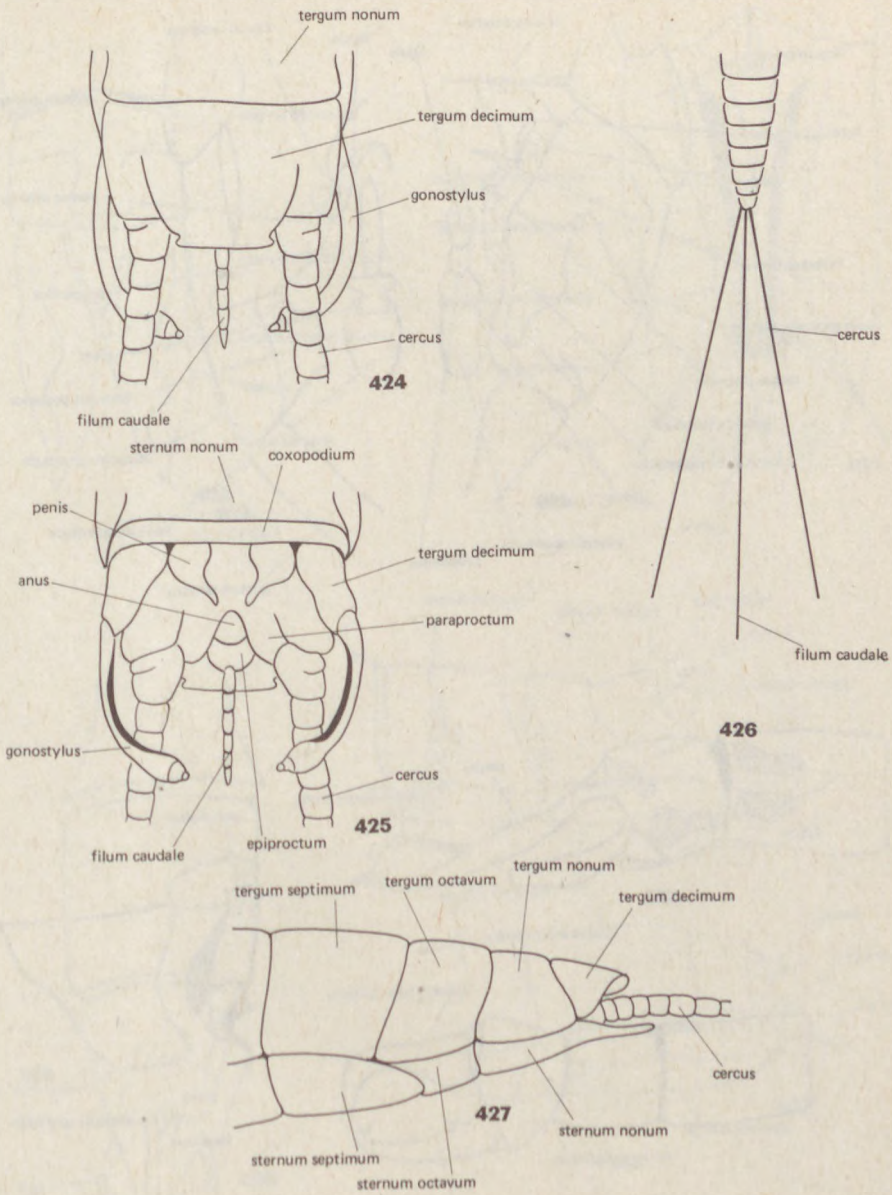


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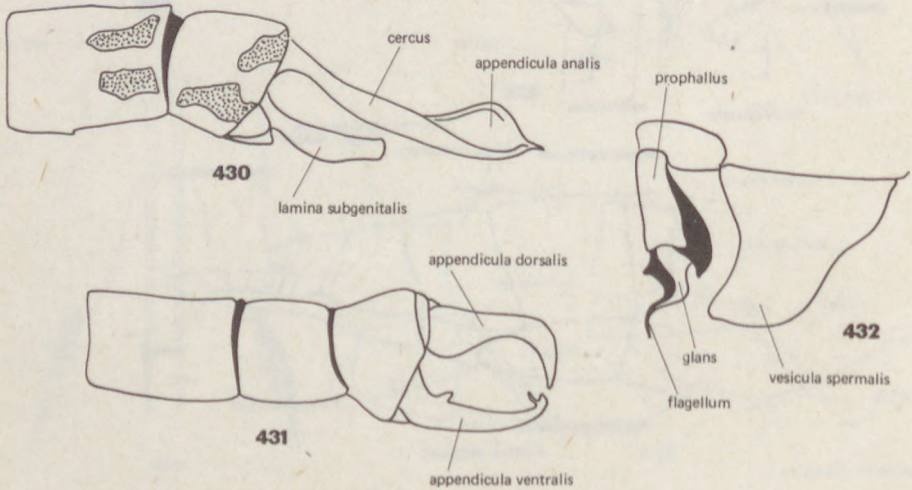
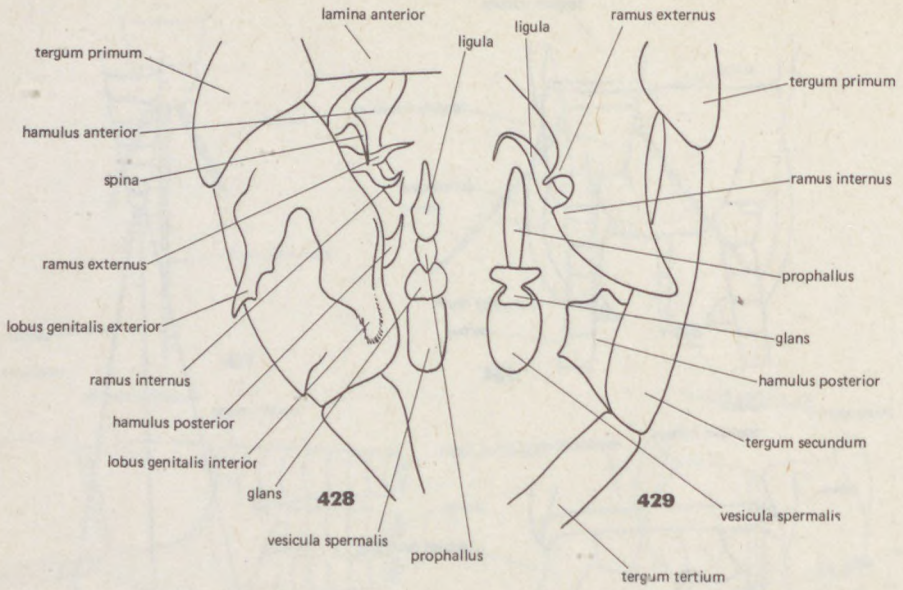


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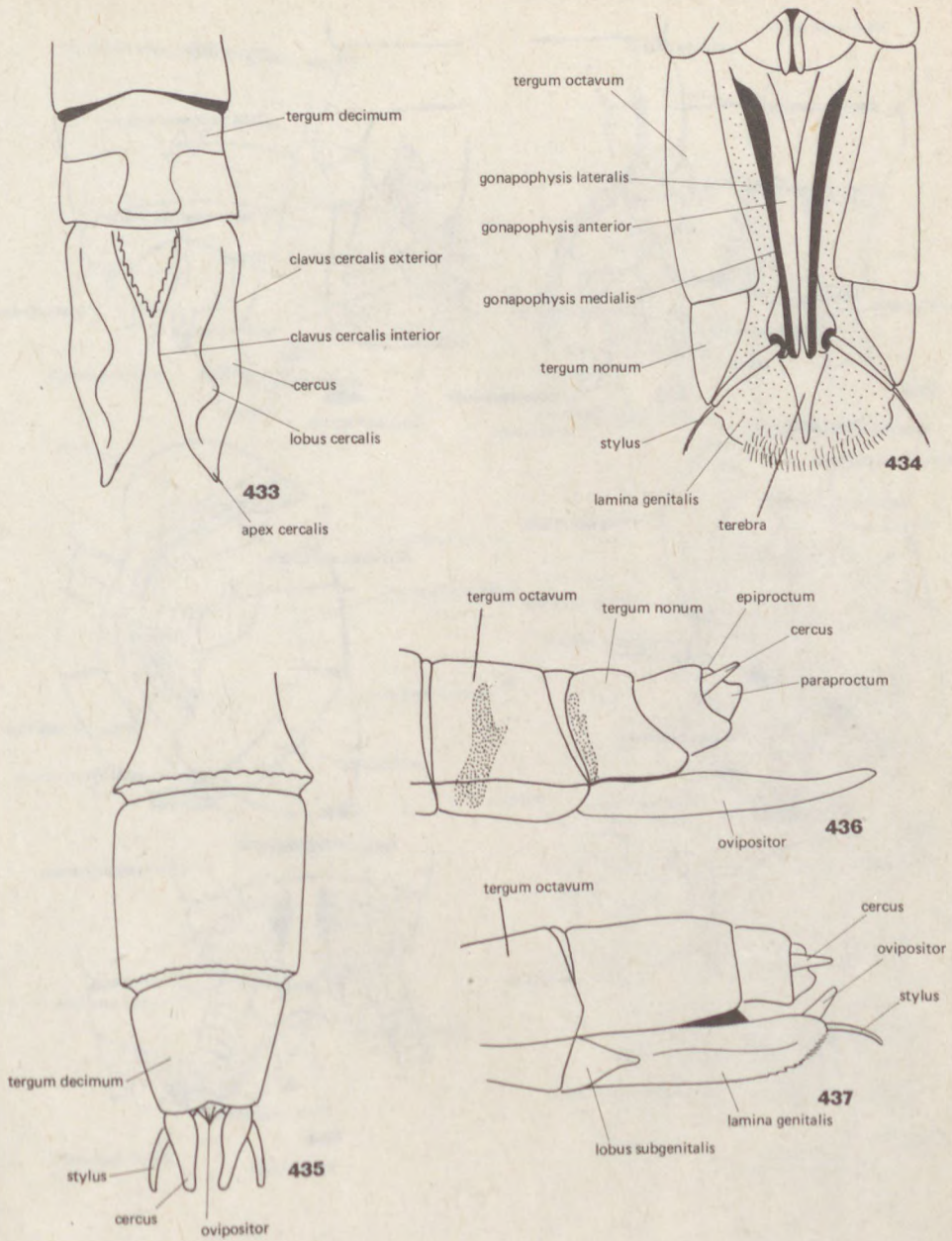
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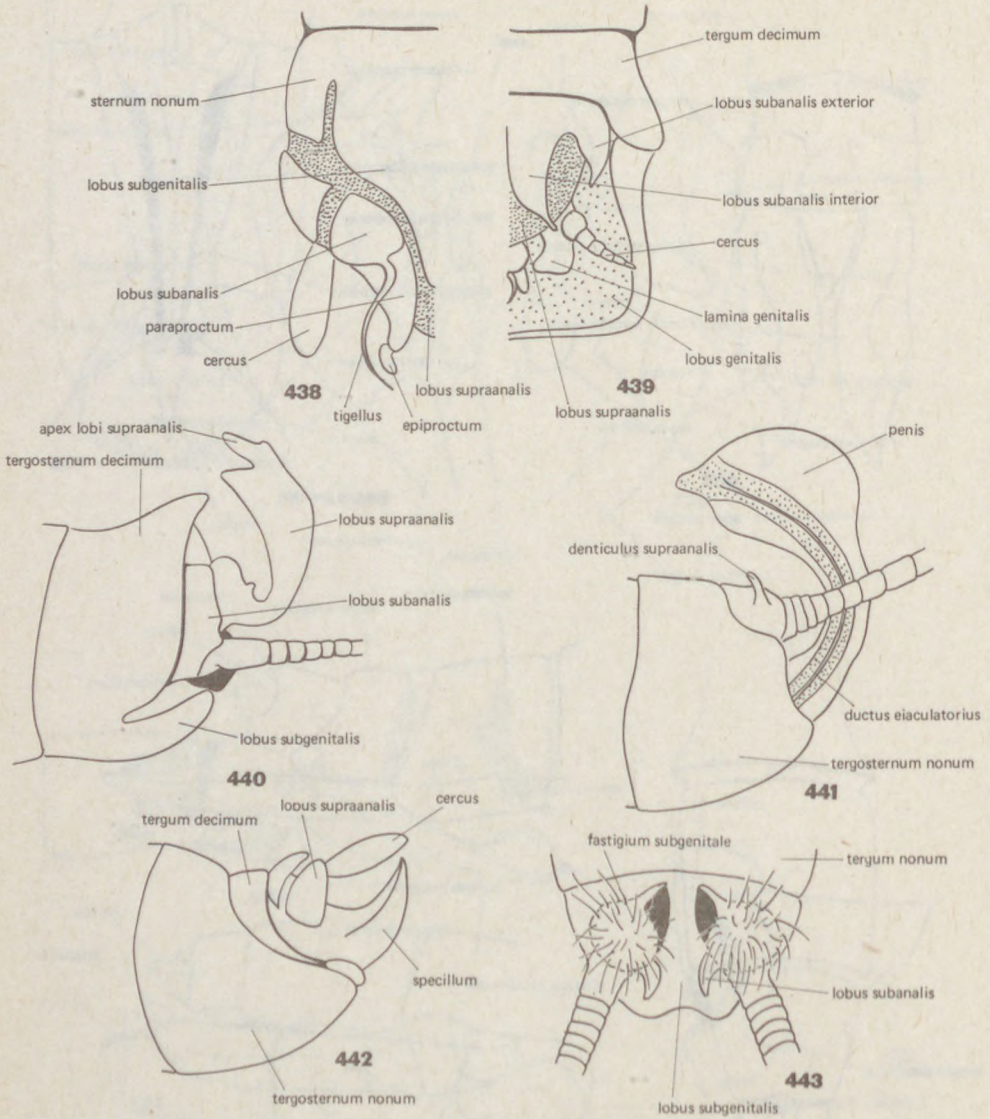
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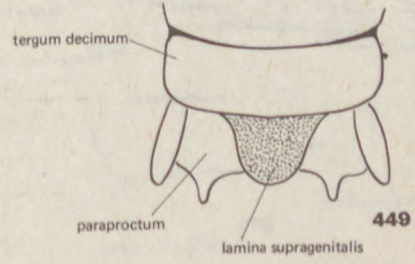
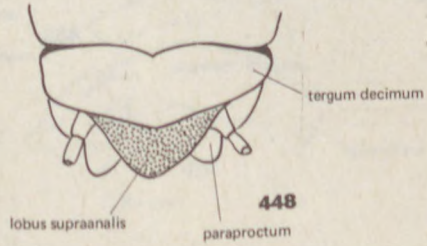
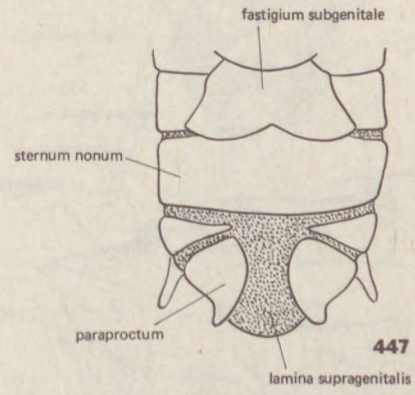
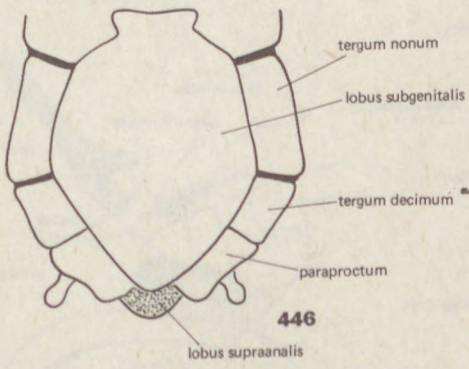
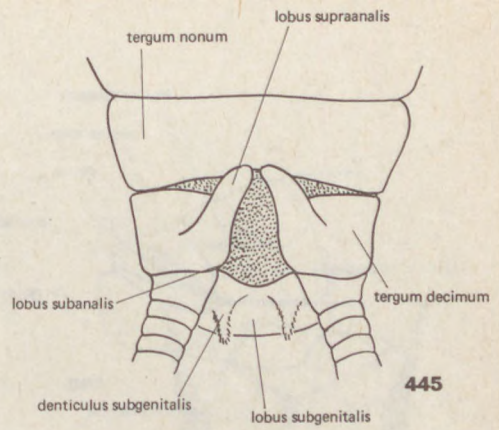
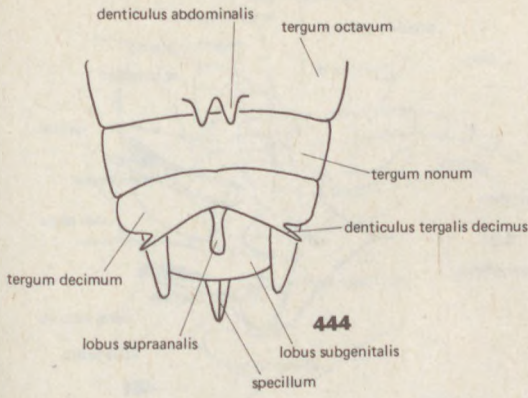
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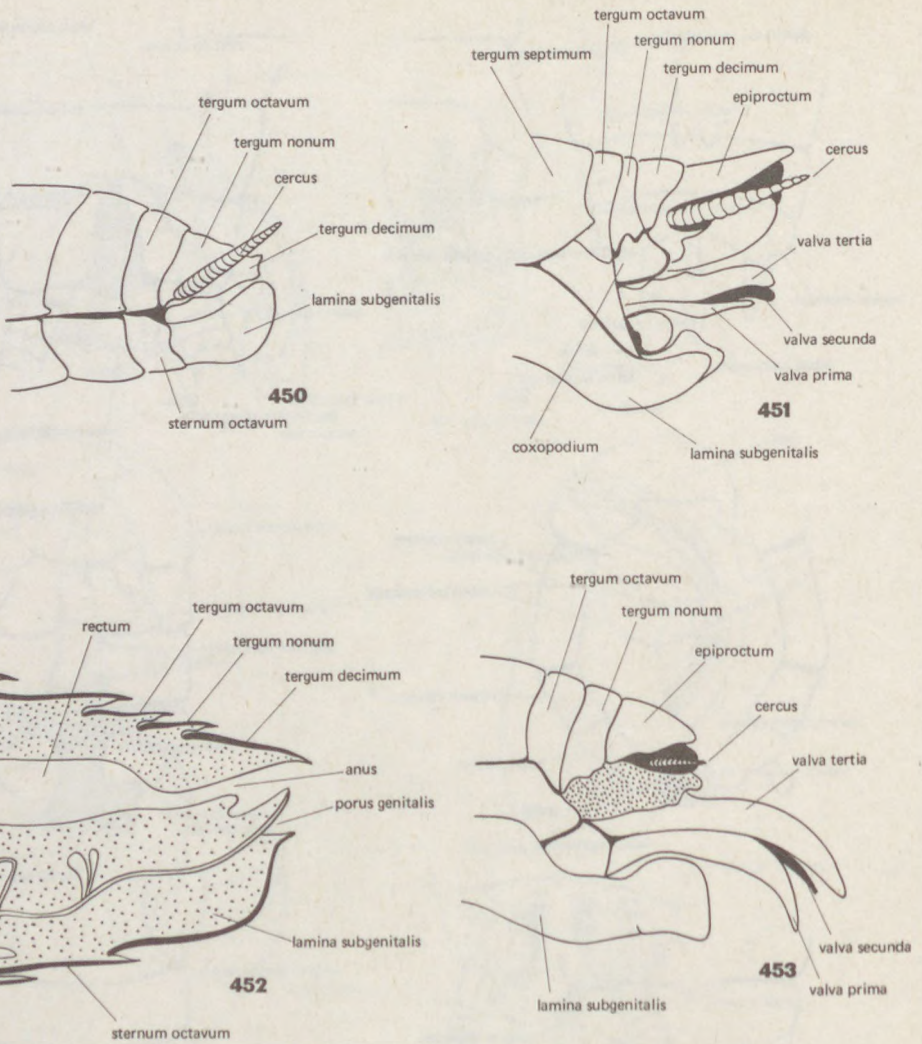
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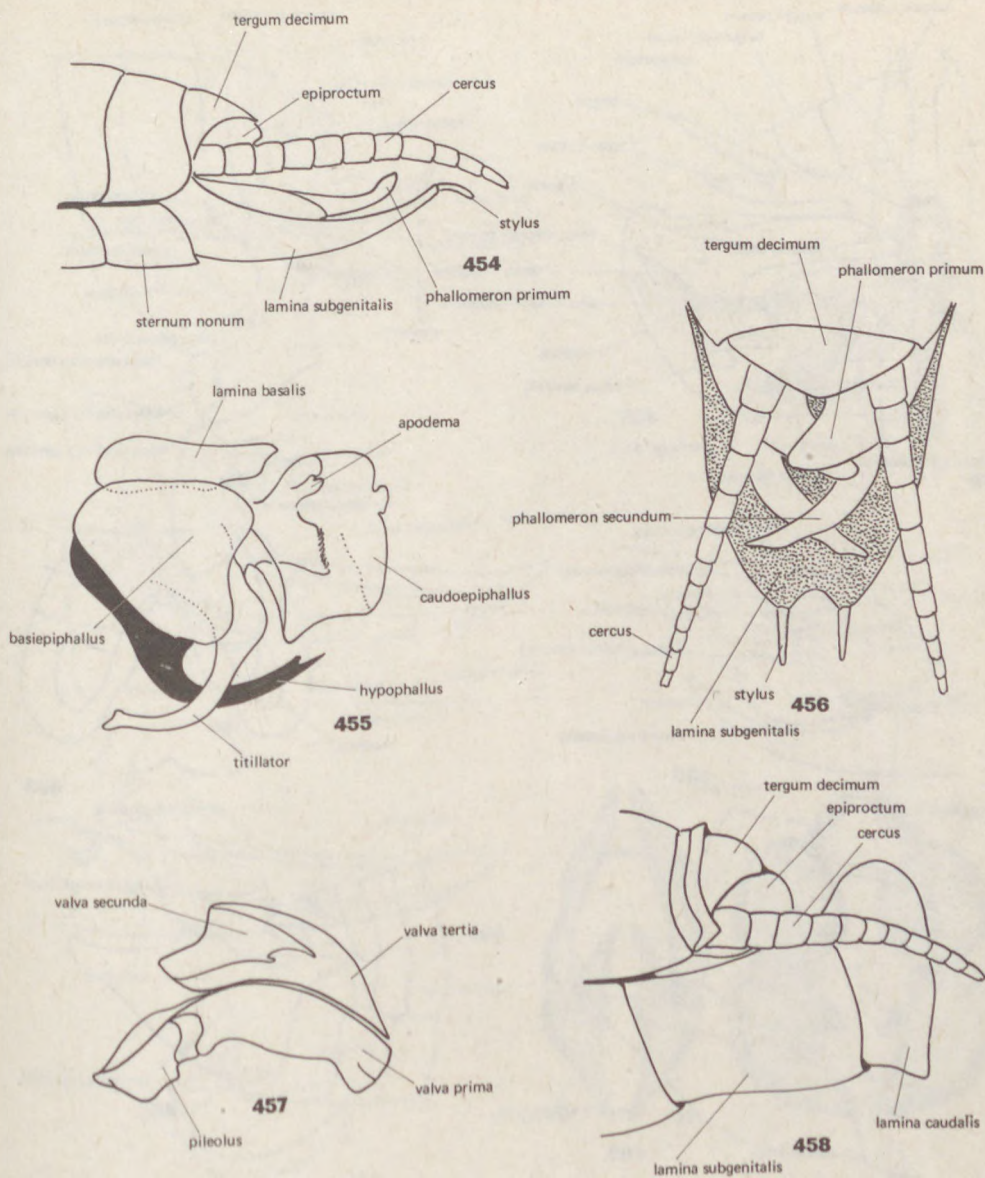
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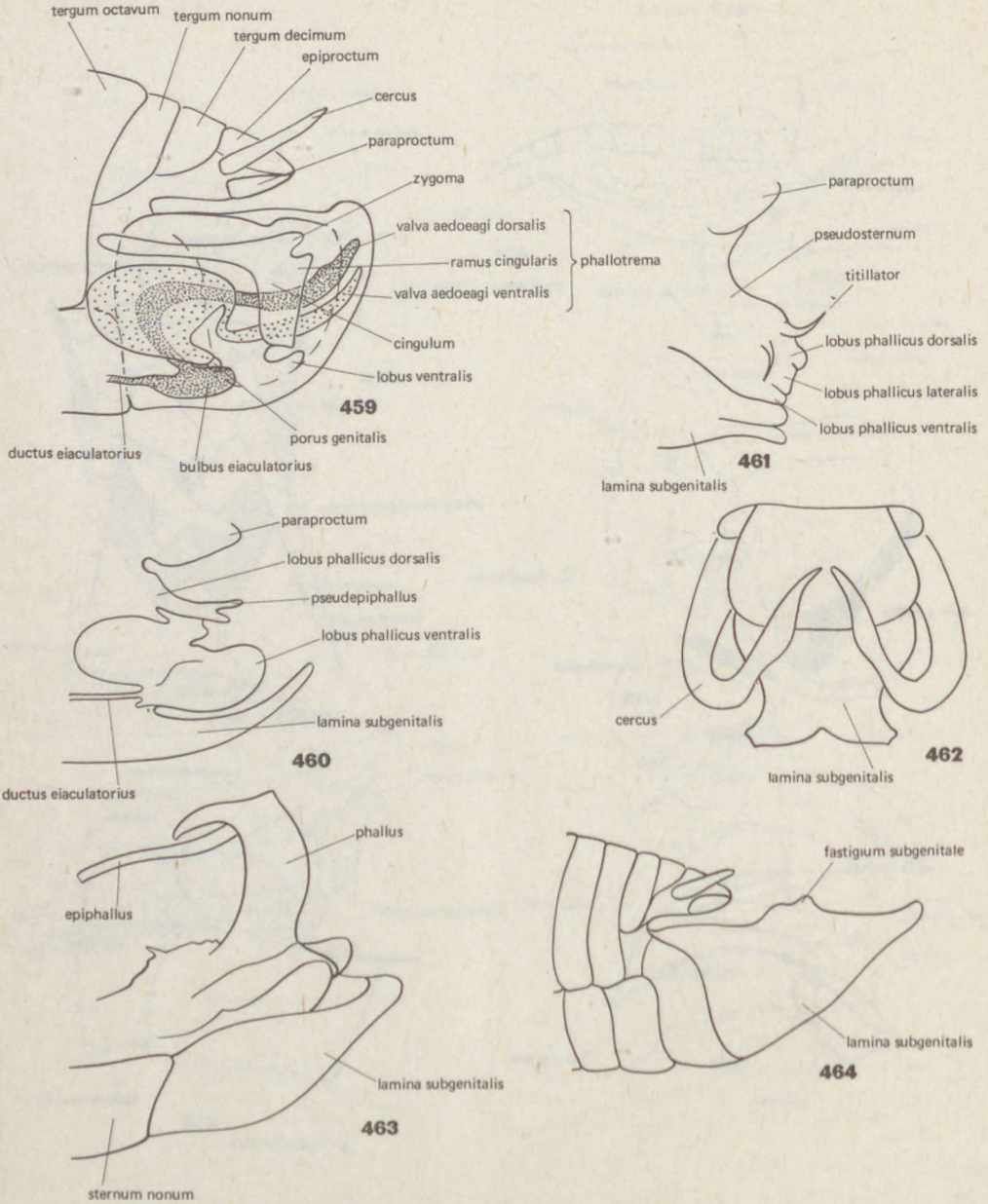
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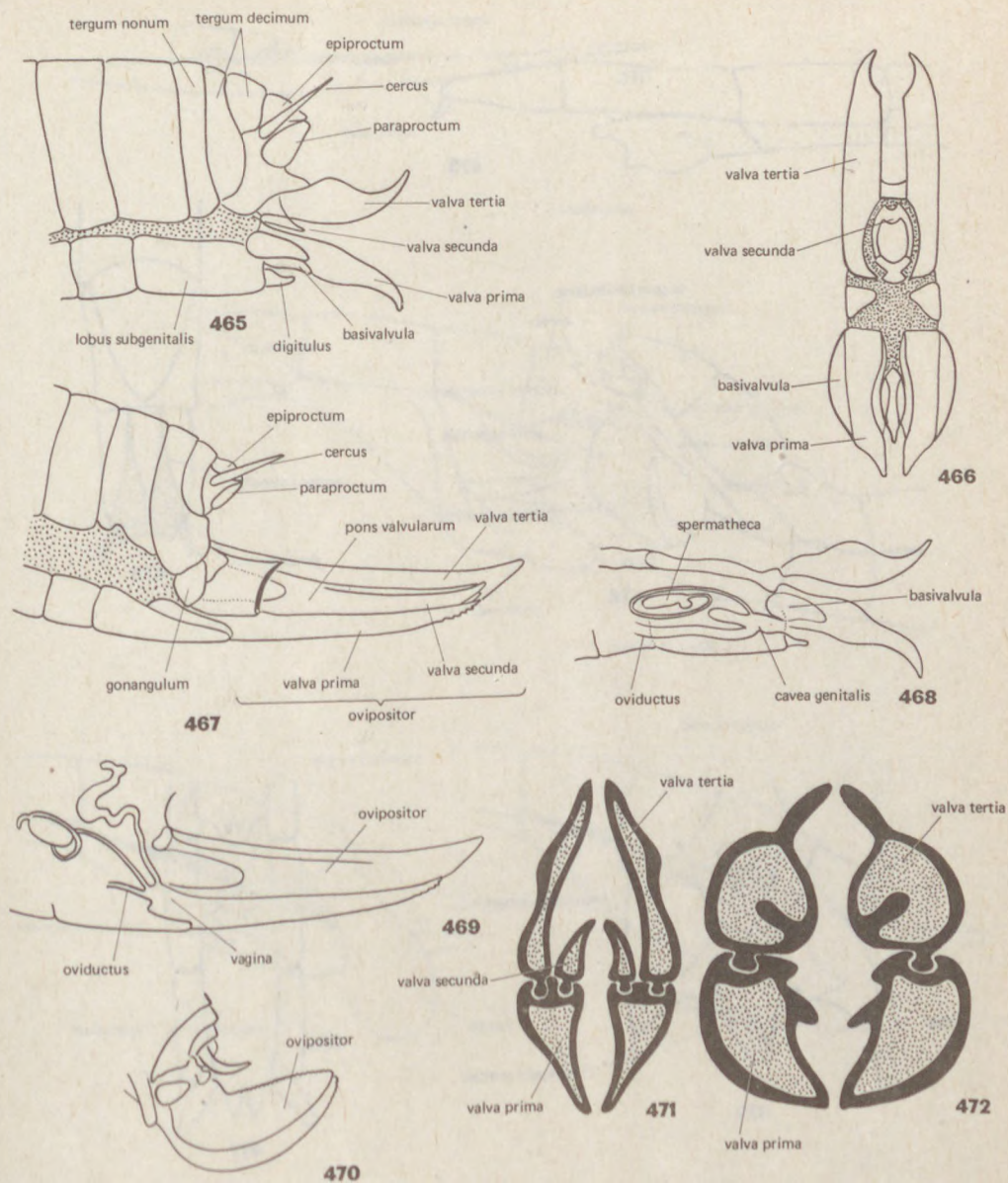
Figs. 450–453. Male and female genitalia of Blattaria. — 450: Abdominal end of male *Periplaneta* in lateral view, 451–453: same of female in lateral view, 451: *Turanoblatta*, 452: *Blatta*, and 453: *Periplaneta* (after Shvanvich)



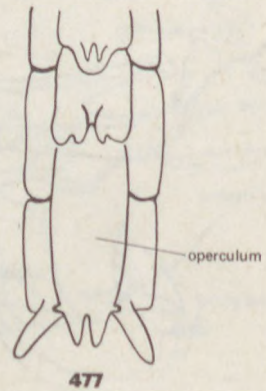
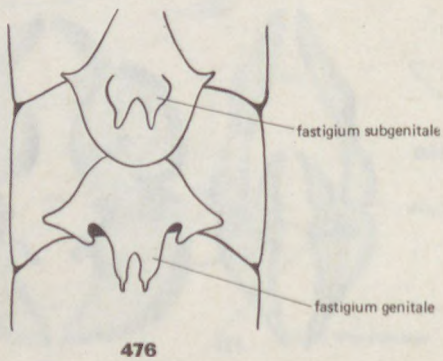
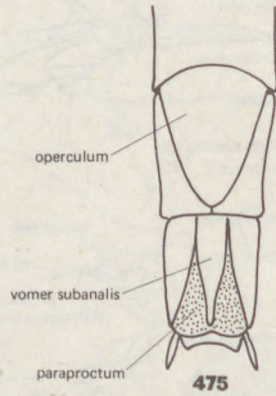
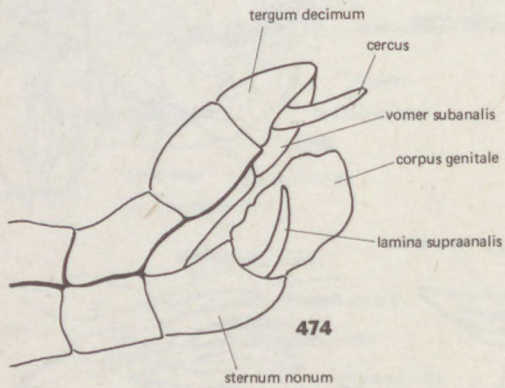
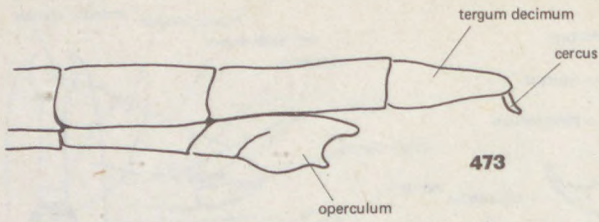
Figs. 454—458. Male and female genitalia of Mantoidea. — 454: Abdominal end of male Mantis in lateral view, 455: male genitalia of *Polyspilota* in dorsal view, 456: abdominal end of male Mantis in dorsal view, 457: ovipositor of *Polyspilota* in lateral view, and 458: abdominal end of female Mantis in lateral view (after Beier)



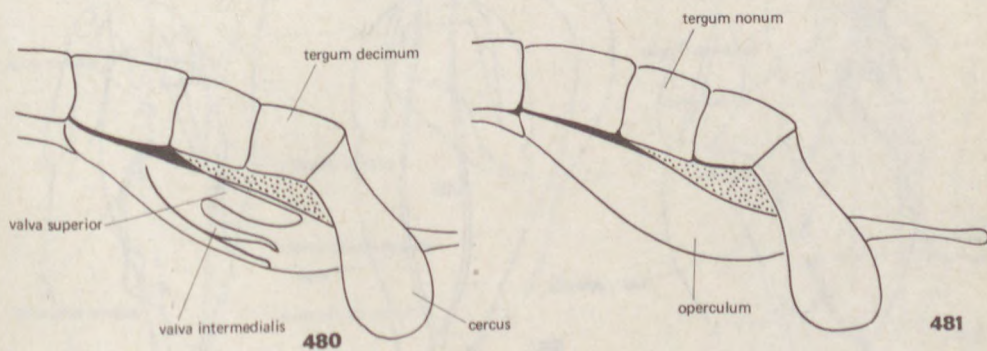
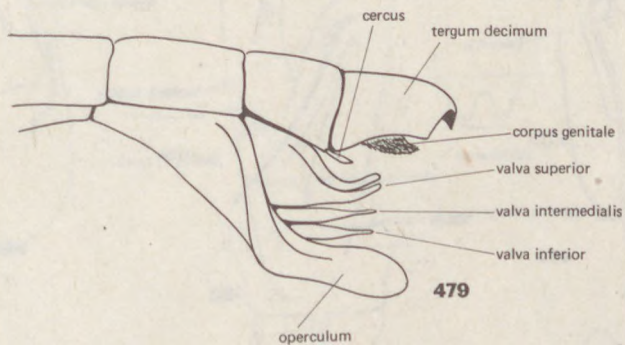
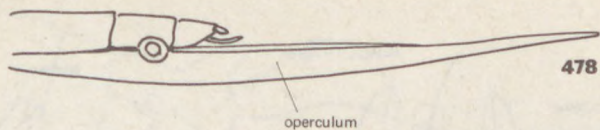
Figs. 459–464. Male genitalia of Orthoptera. — 459: Abdominal end of an Acridid in longitudinal section in lateral view, 460: genital organ of an Acridid in lateral view, 461: genital organ of a Gryllid in lateral view, 462: abdominal end of a Tettigoniid in dorsal view, 463: copulatory organ of *Locusta* in lateral view, and 464: abdominal end of *Acrida* in lateral view (after Ander 459–461, 464, and Shvanvich 462, 463)



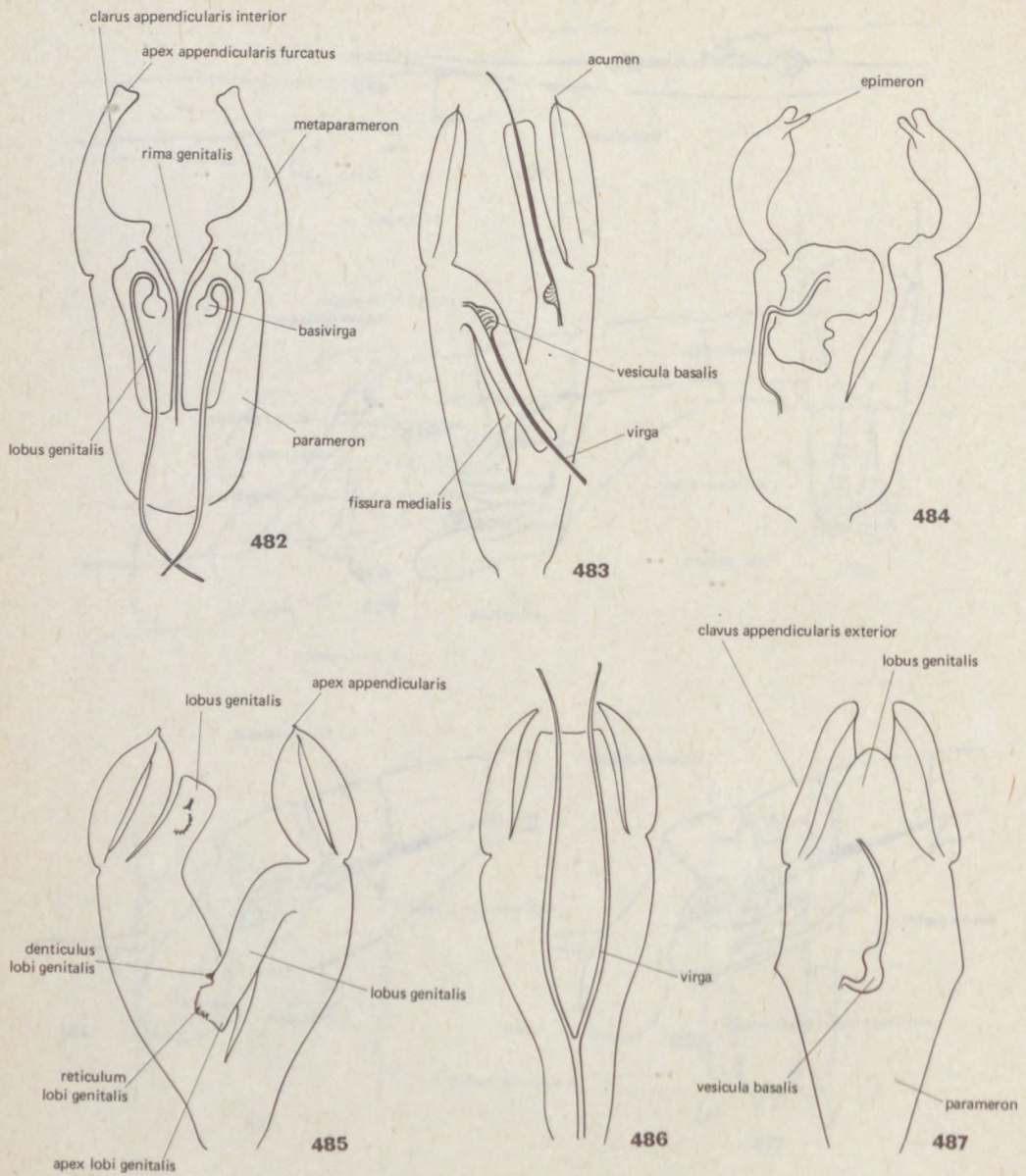
Figs. 465–472. Female genitalia of Orthoptera. — 465: Abdominal end of an Acridid in lateral view, 466: ovipositor of same in cross-section, 467: abdominal end of a Tettigoniid in lateral view, 468: ovipositor of an Acridid with inner organs in longitudinal section in lateral view, 469: same of a Tettigoniid, 470: ovipositor of Phaneroptera, 471–472: ovipositor in cross-section, 471: Tettigonia, and 472: Gryllus (after Shvanvich)



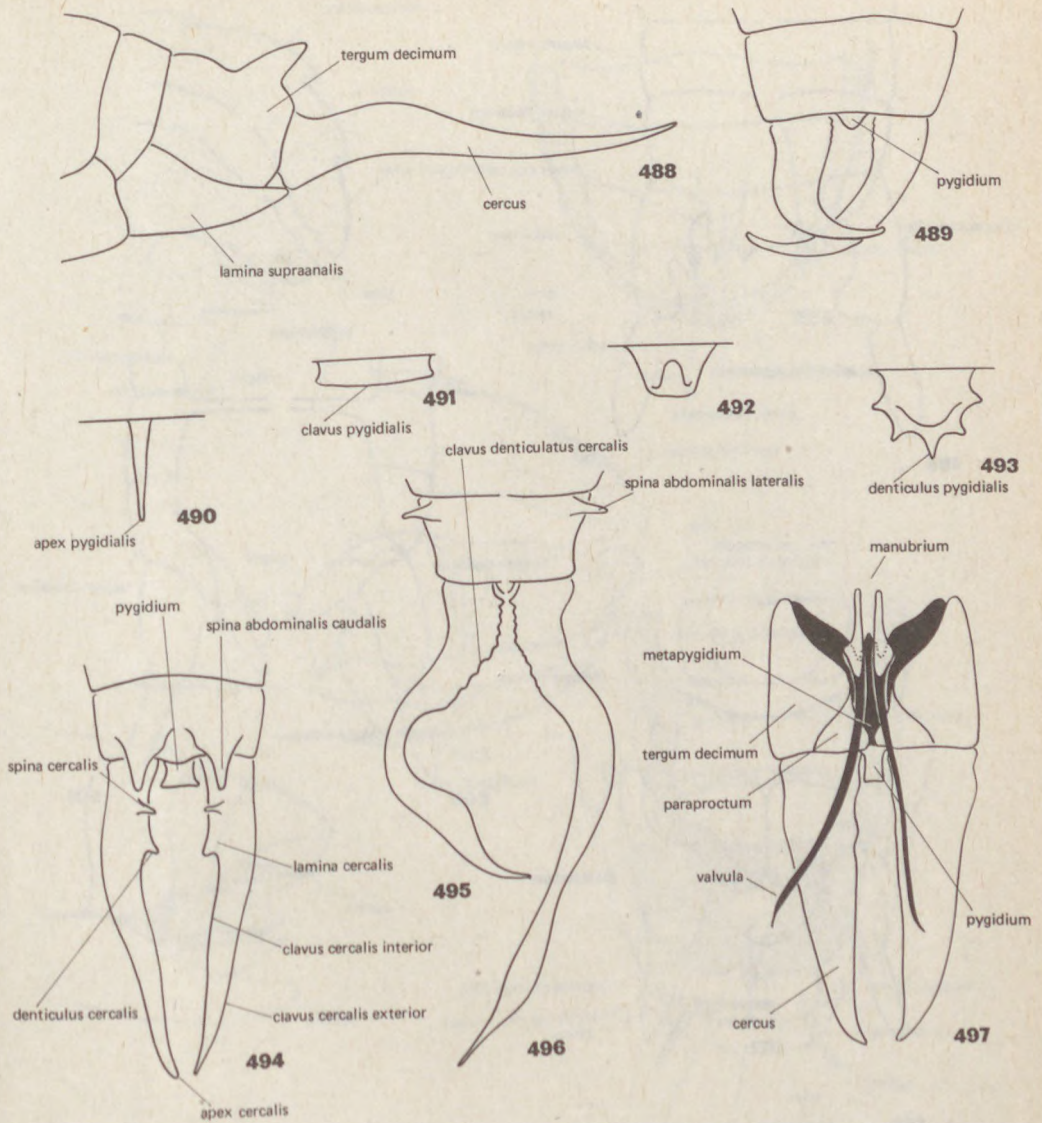
Figs. 473–477. Male genitalia of Phasmoidea. — 473: Abdominal end of *Calynda*, and 474: same of *Gigantophasma* in lateral view, 475: abdominal end of *Calynda* in ventral view, 476: part of abdomen in ventral view of *Phasma*, and 477: abdominal end of *Carausius* in ventral view (after Günther)



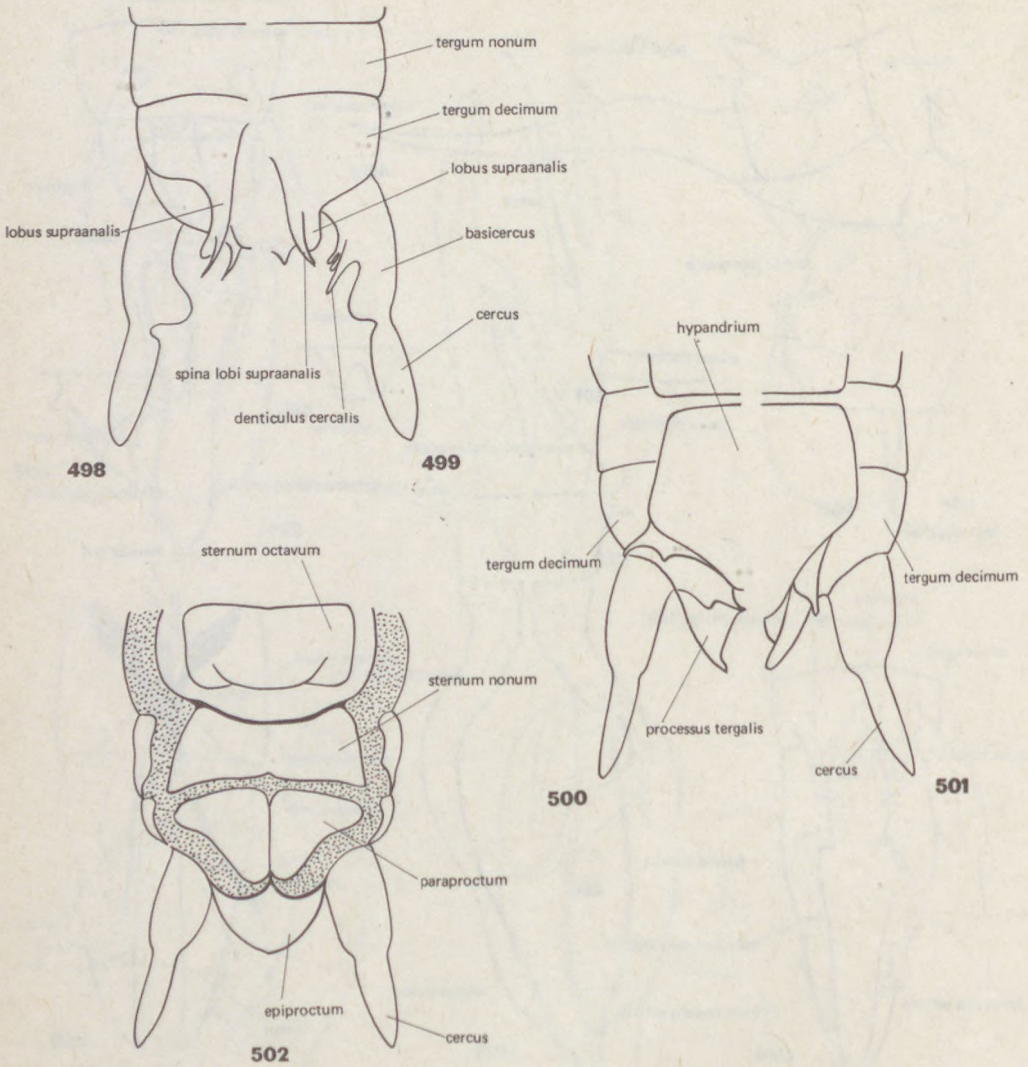
Figs. 478–481. Female genitalia of Phasmoidea. — 478: Abdominal end of *Calynda* in lateral view, 479: same of *Carausius*, and 480–481: same of *Gigantophasma* (after Günther 478, Shvanvich 479, and Grasse 480–481)



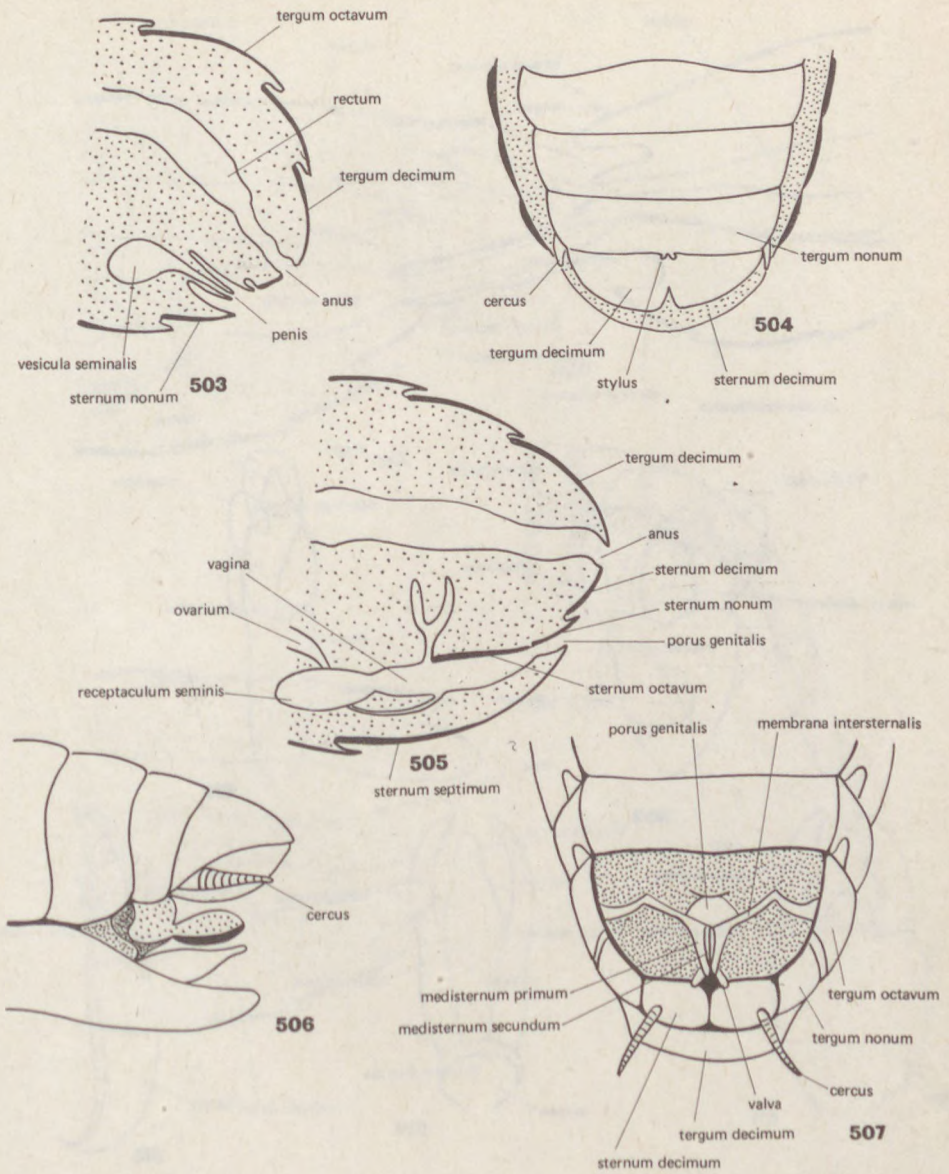
Figs. 482–487. Male genitalia of Dermaptera. — 482: *Diplatys*, 483: *Labidura*, 484: *Karschiella*, 485: *Euborellia*, 486: *Hemimerus*, and 487: *Forficula* (after Steinmann)



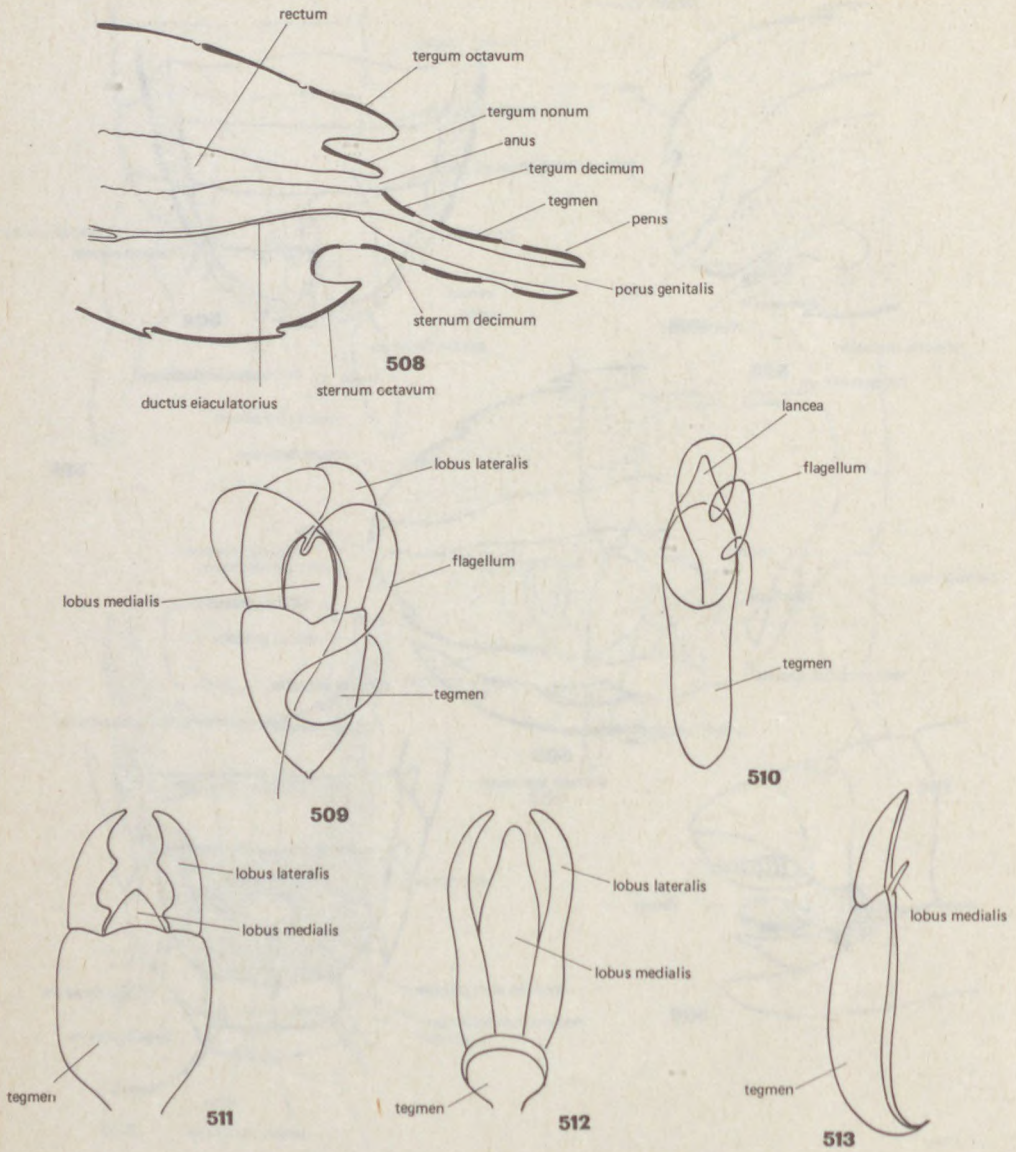
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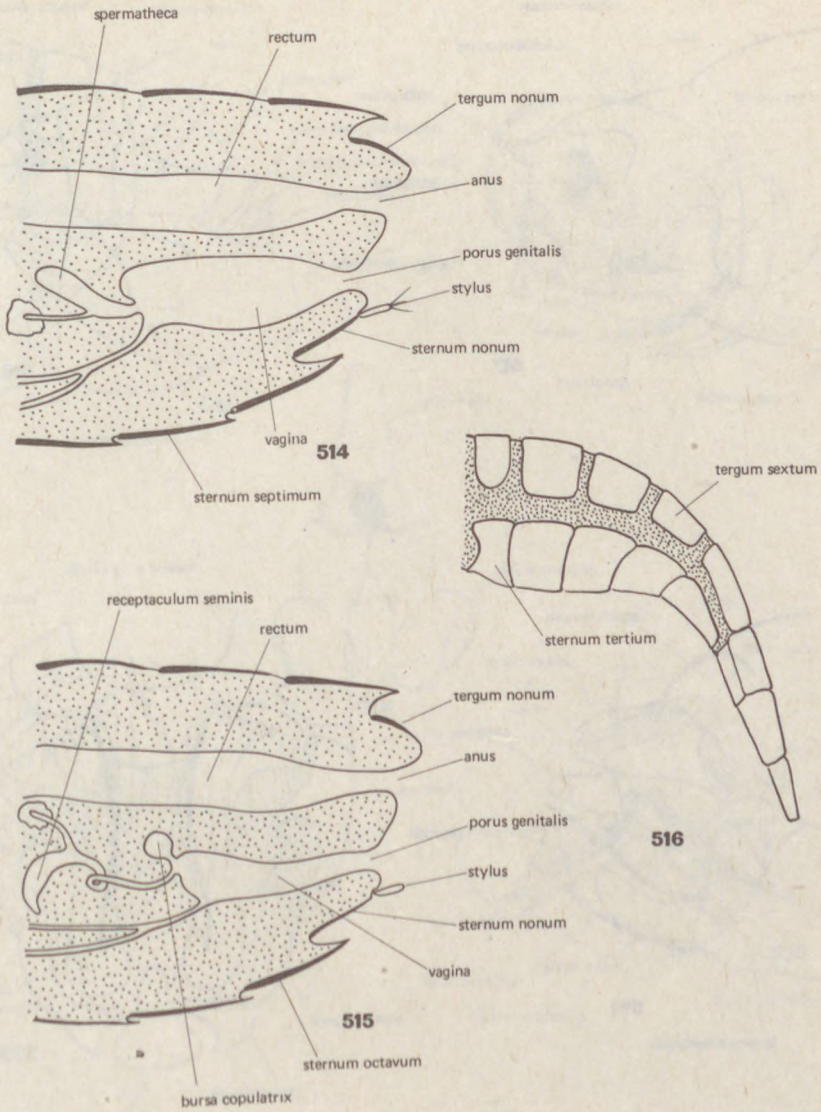
Figs. 498–502. Male and female genitalia of Embioptera. — 498–499: Abdominal end of male *Embia* and *Teratembia* in dorsal view, 500–501: same in ventral view, and 502: same of female *Embia* in ventral view (after Ross)



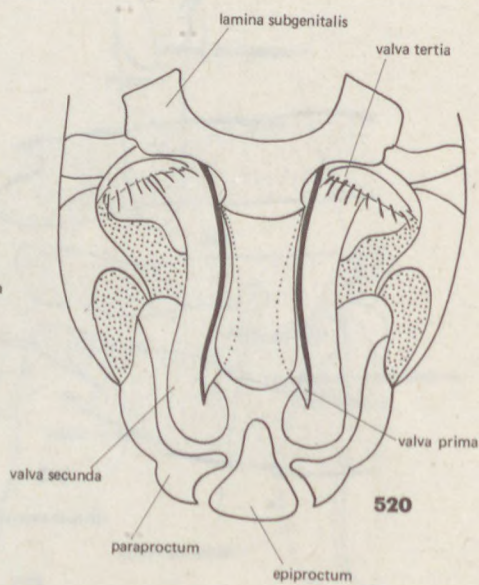
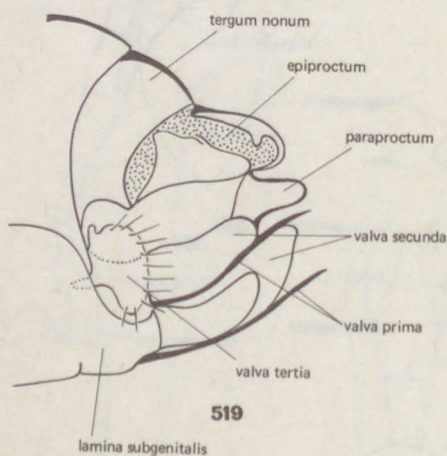
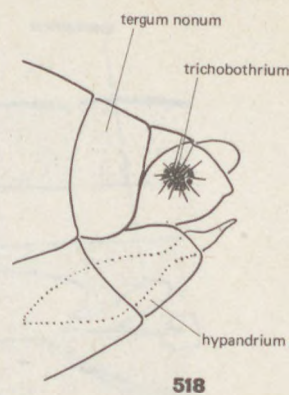
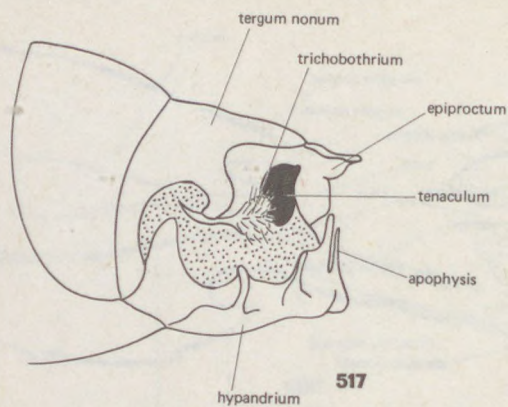
Figs. 503–507. Male and female genitalia of Isoptera. — 503–504: Abdominal end of male, 503: longitudinal section in lateral view, and 504: in ventral view, 505–507: abdominal end of female, 505: longitudinal section in lateral view, 506: in lateral view, and 507: in ventral view (after Roonwall)



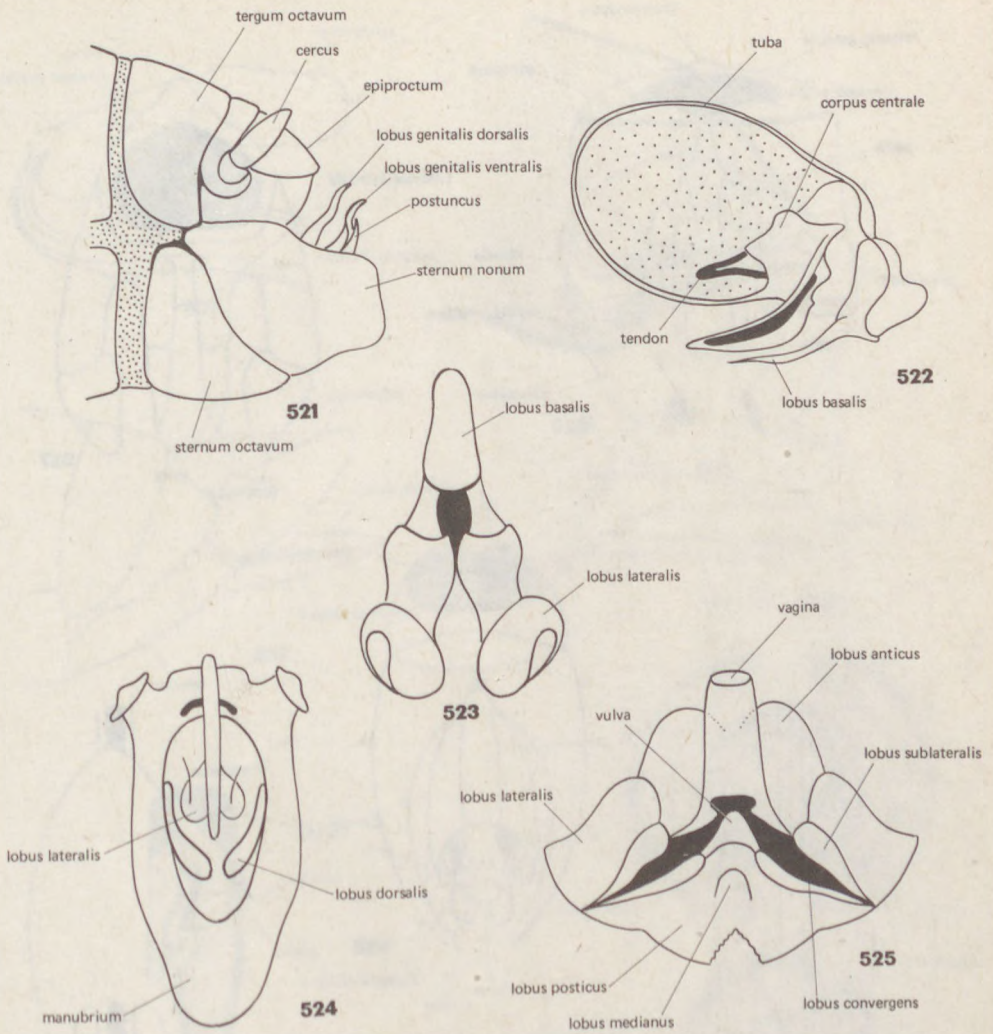
Figs. 508–513. Male genitalia of Coleoptera. — 508: Schematic drawing of abdominal end in lateral view, 509–513: principal types of aedeagus of 509: *Lucanus*, 510: *Platyarsus*, 511: *Liodes*, 512: *Silpha*, and 513: *Nilio* (after Lindroth and Palmén)



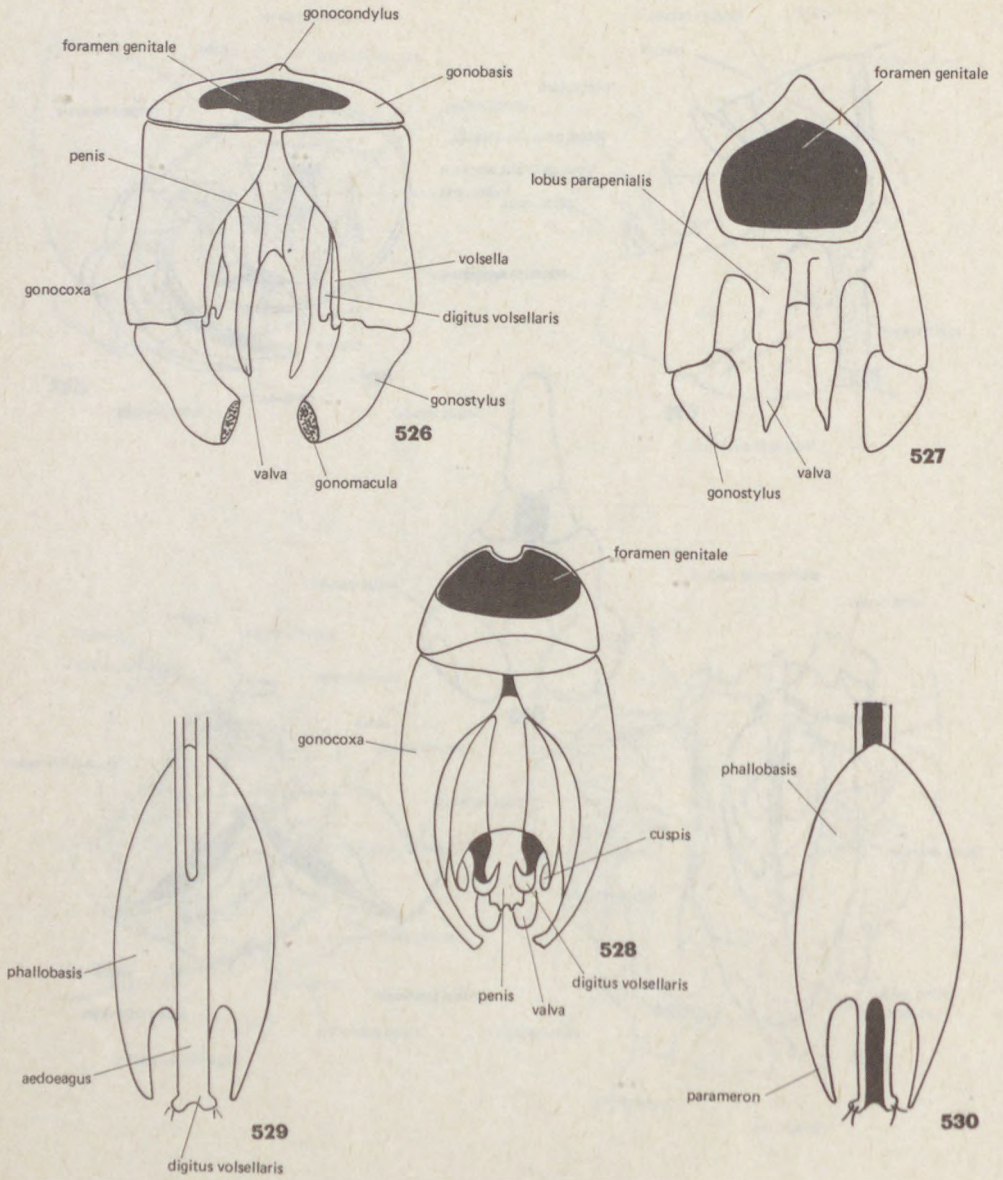
Figs. 514—516. Female genitalia of Coleoptera. — 514: Abdominal end in longitudinal section in lateral view: the saccular type, and 515: same, the tubular type, and 516: a typical abdomen in lateral view (after Lindroth and Palmén 514, 515)



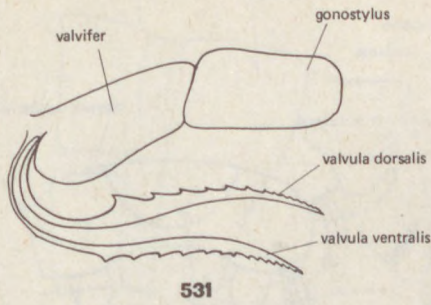
Figs. 517–520. Male and female genitalia of Psocoptera. — 517: Abdominal end of male *Psocus*, and 518: same of male *Mesopsocus* in lateral view, 519: same of female *Metylphorus* in lateral, and 520: in ventral view (after Badonnel)



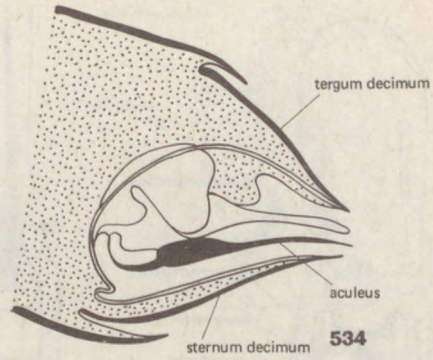
Figs. 521–525. Male and female genitalia of Zoraptera. — 521: Abdominal end of male *Zorotypus* in lateral view, and 522: copulatory organ of same, 523: same in ventral view, 524: genitalia in dorsal view, and 525: female genitalia in dorsal view (after Gurney 521, Delamare Deboutteville 522–525)



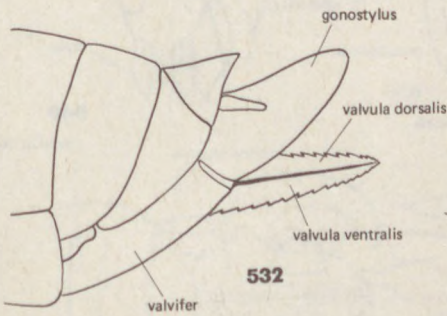
Figs. 526–530. Male genitalia of Hymenoptera. — 526: Copulatory organ of male *Xiphydria* in dorsal view, 527: same of male *Gilpinia*, 528: same of male *Ammophila* in ventral view, 529–530: aedeagus of *Poropoea* in dorsal and ventral view (after Michener)



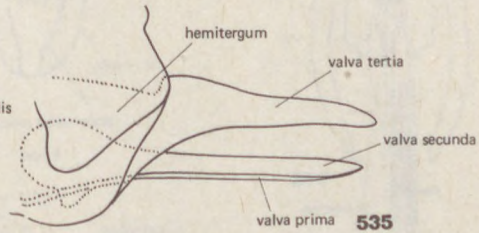
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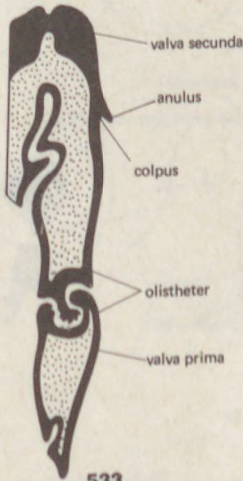
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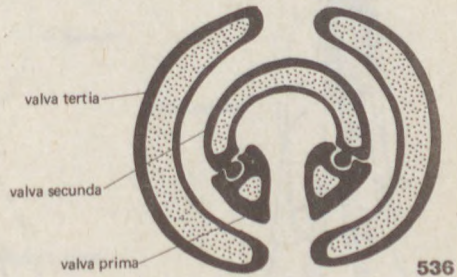
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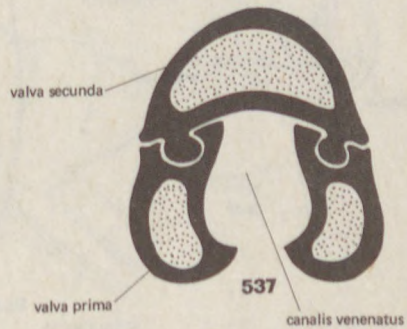
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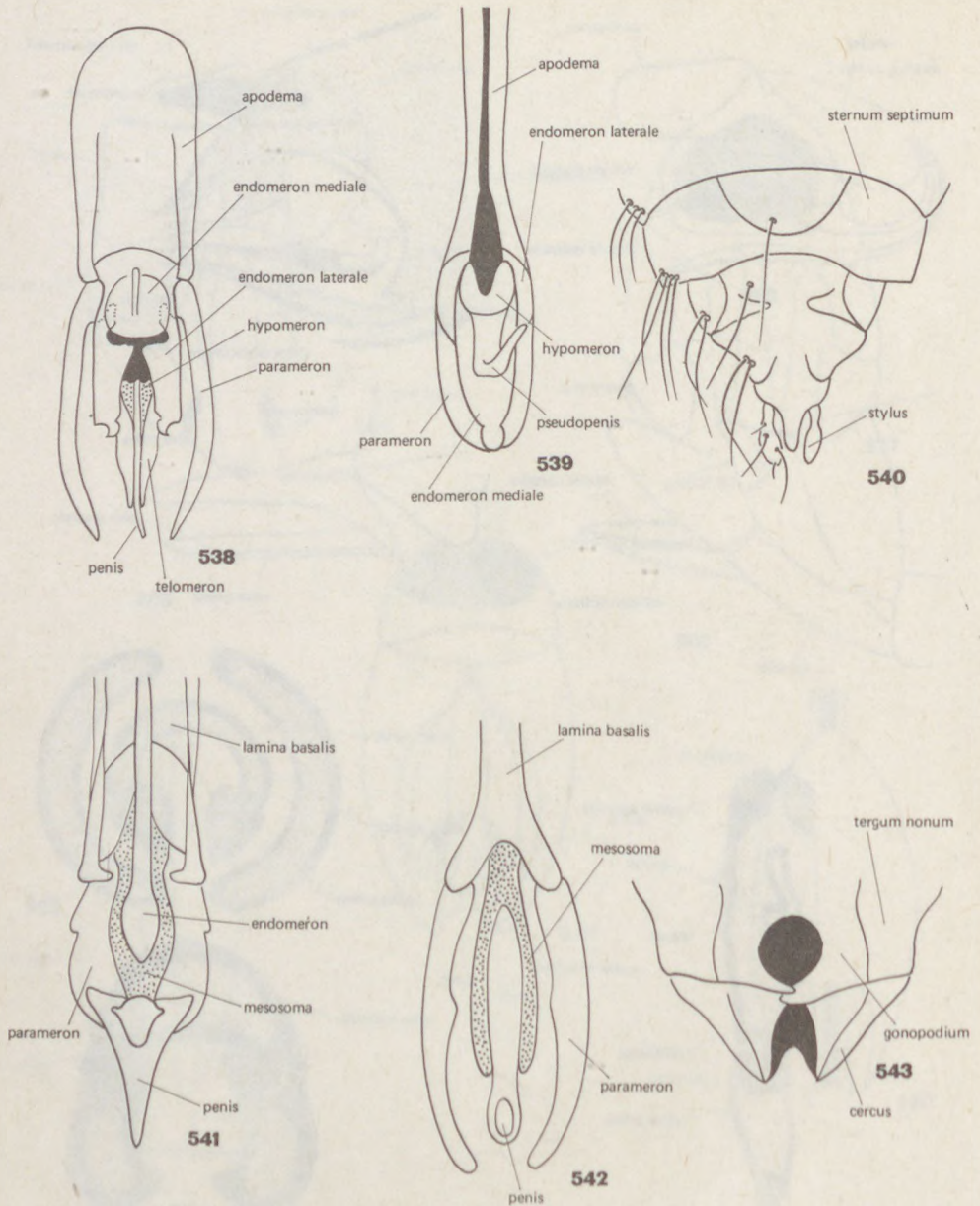


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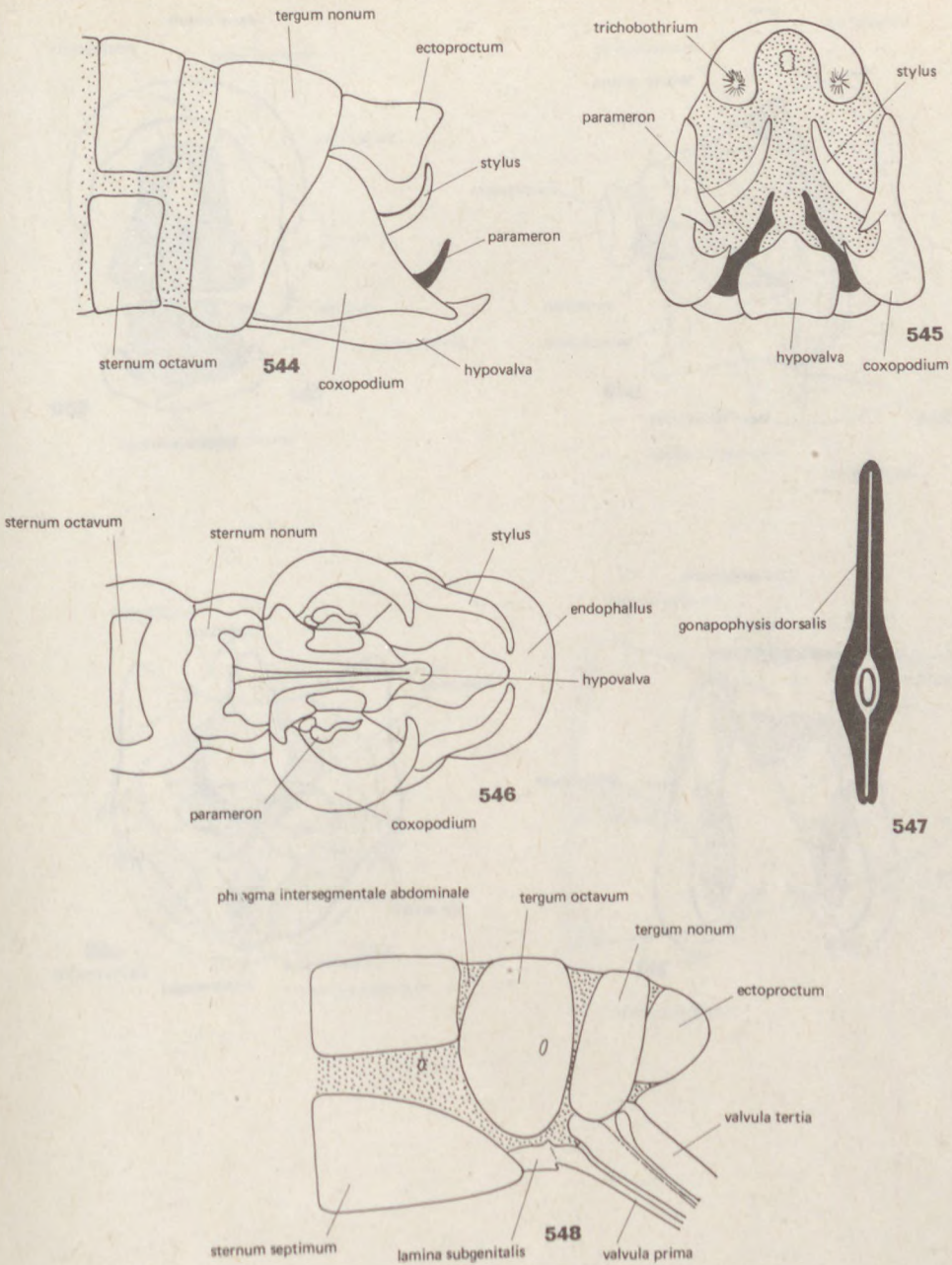


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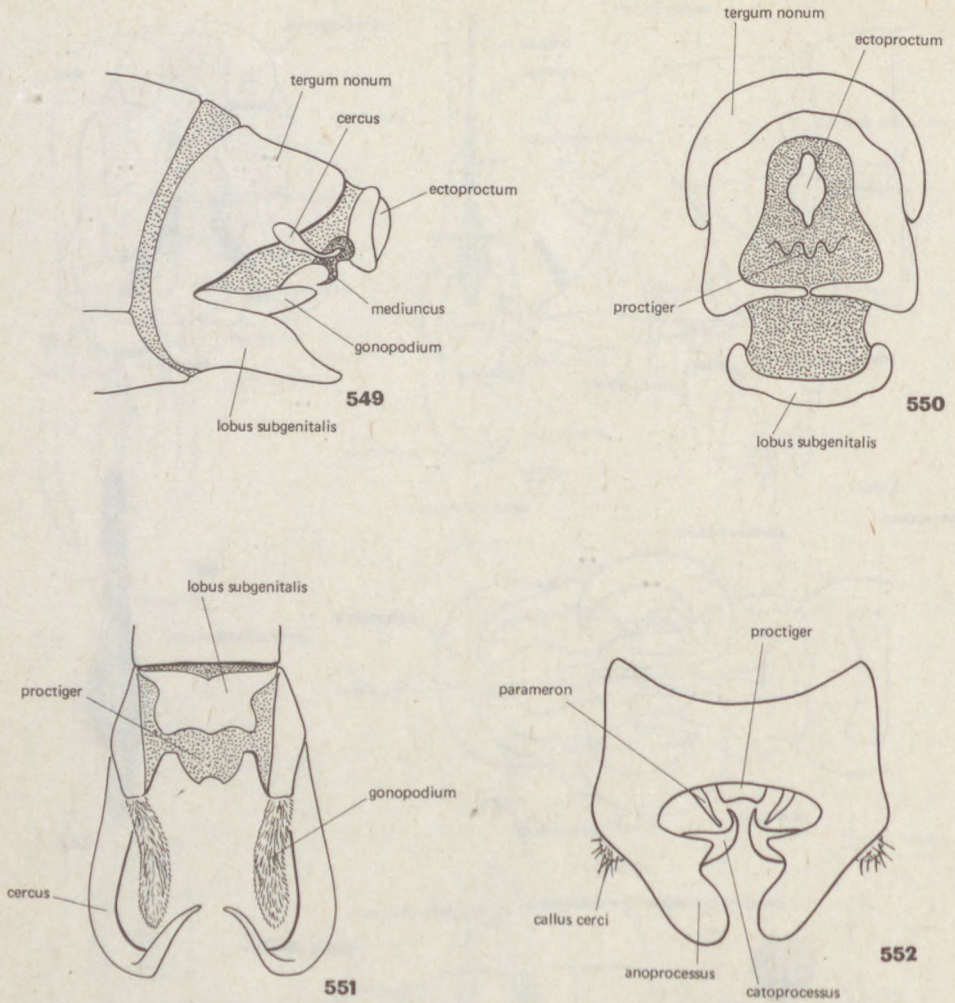
Figs. 531–537. Female genitalia of Hymenoptera. 531: The two valves of ovipositor of *Cephus* in lateral view, and 532: abdominal end of *Cephus* in lateral view, 533: cross-section of female gonapophyses of *Euura*, 534: schematic drawing of abdominal end of *Apis* in longitudinal section in lateral view, 535: ovipositor of same removed, 536: same of *Apis* (after Michener 531, 532, Smith 533, and Shvanvich 534–537)



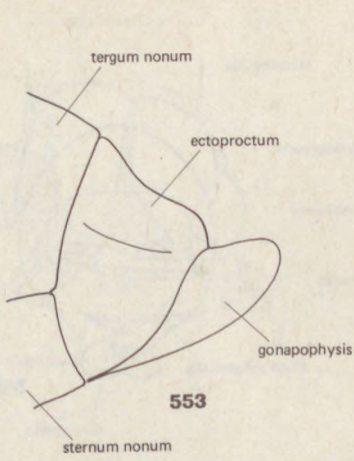
Figs. 538–543. Male and female genitalia of Mallophaga and Anoplura. — 538–539: Copulatory organ of male *Saemundssonina* (Mall.), and *Goniodes* (Mall.), 540: abdominal end of male *Goniodes* in ventral view. — 541–542: Copulatory organ of male *Polyplax* (Anopl.), and *Linognathus* (Anopl.), and 543: abdominal end of female *Pediculus* (Anopl.) in dorsal view (after Clay 538, and Séguy 541–543)



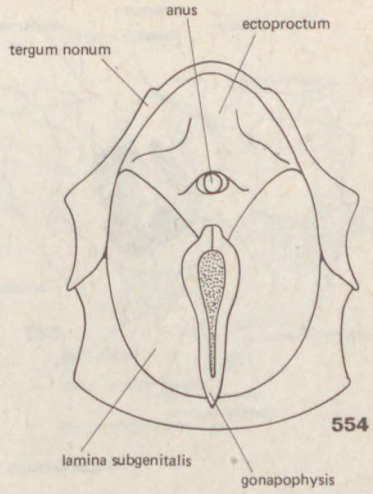
Figs. 544–548. Male and female genitalia of Raphidioptera. — 544: Abdominal end of male *Raphidia* in lateral view, 545: in posterior view, and 546: in ventral view, 547: ovipositor of *Raphidia* in cross-section, and 548: abdominal end of female *Inocellia* with part of ovipositor in lateral view (after Steinmann 544, 545, 547, and Aspöck et al. 546, 548)



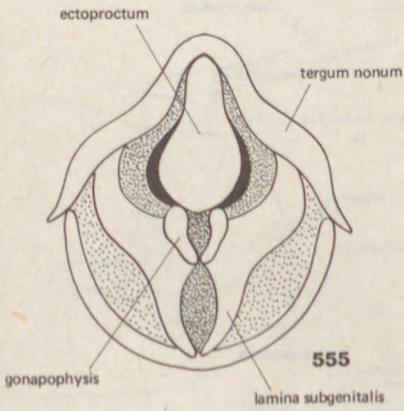
Figs. 549–552. Male genitalia of Megaloptera. — 549–550: Abdominal end of *Sialis* in lateral view, and posterior view, 551: same of *Corydalus* in ventral, and 552: same of *Protohermes* in dorsal view (after Tjeder 549–551)



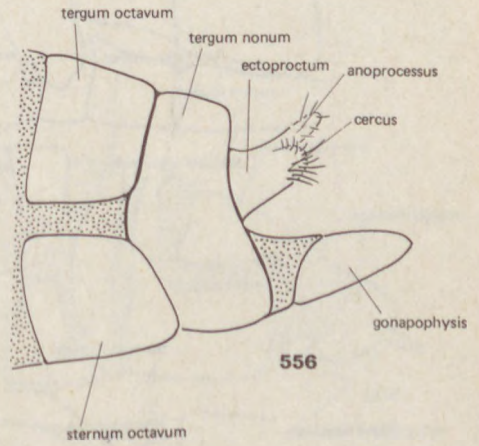
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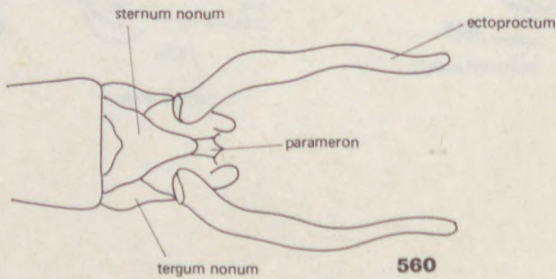
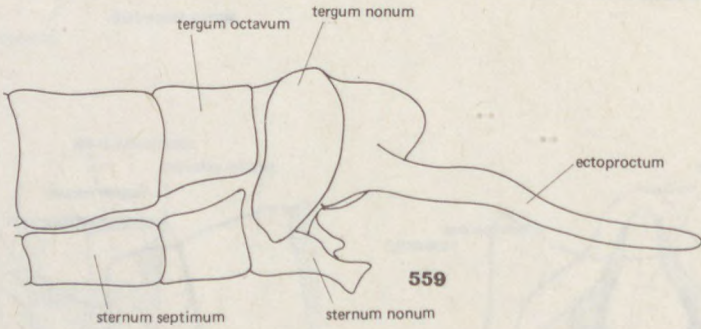
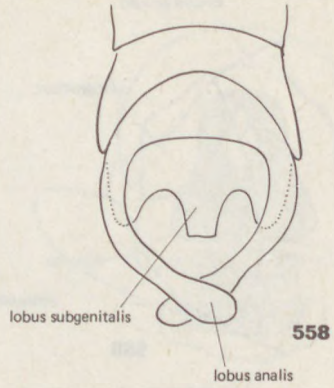
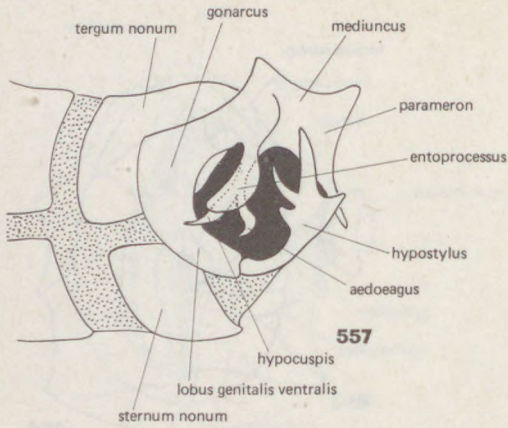


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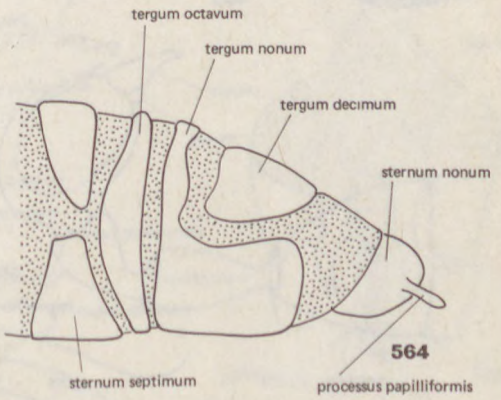
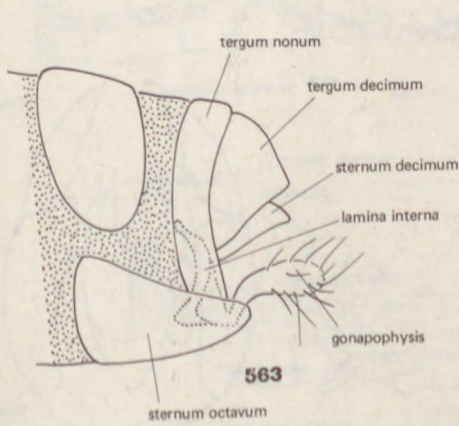
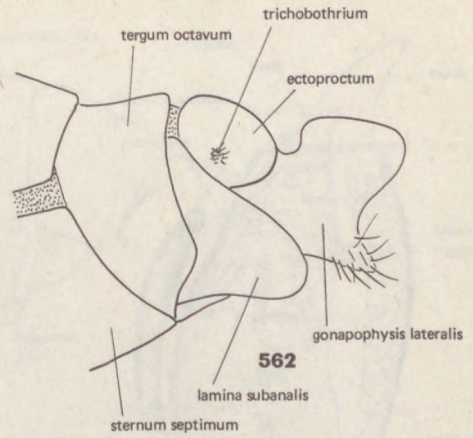
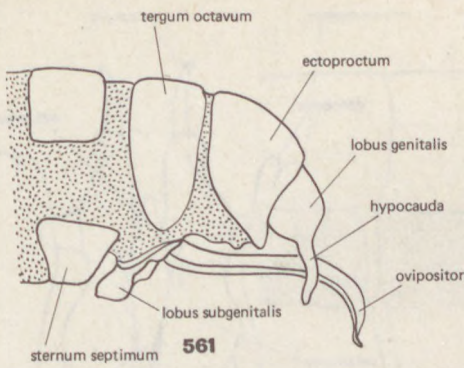


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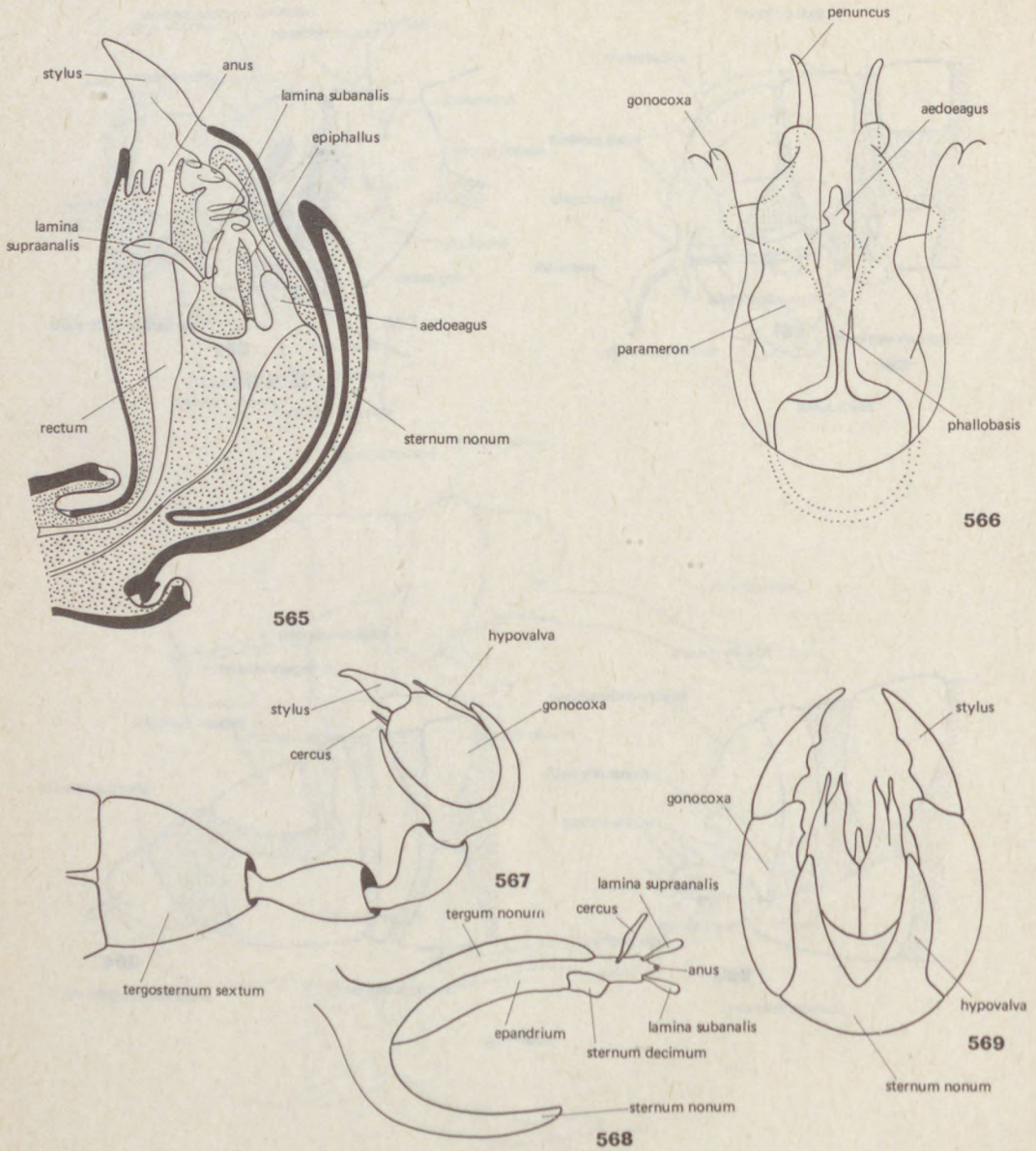
Figs. 553–556. Female genitalia of Megaloptera. — 553: Abdominal end of *Sialis* in lateral, and 554: in posterior view, 555: same of *Corydalus* in posterior, and 556: in lateral view (after Steinmann 553–555, and Tjeder 556)



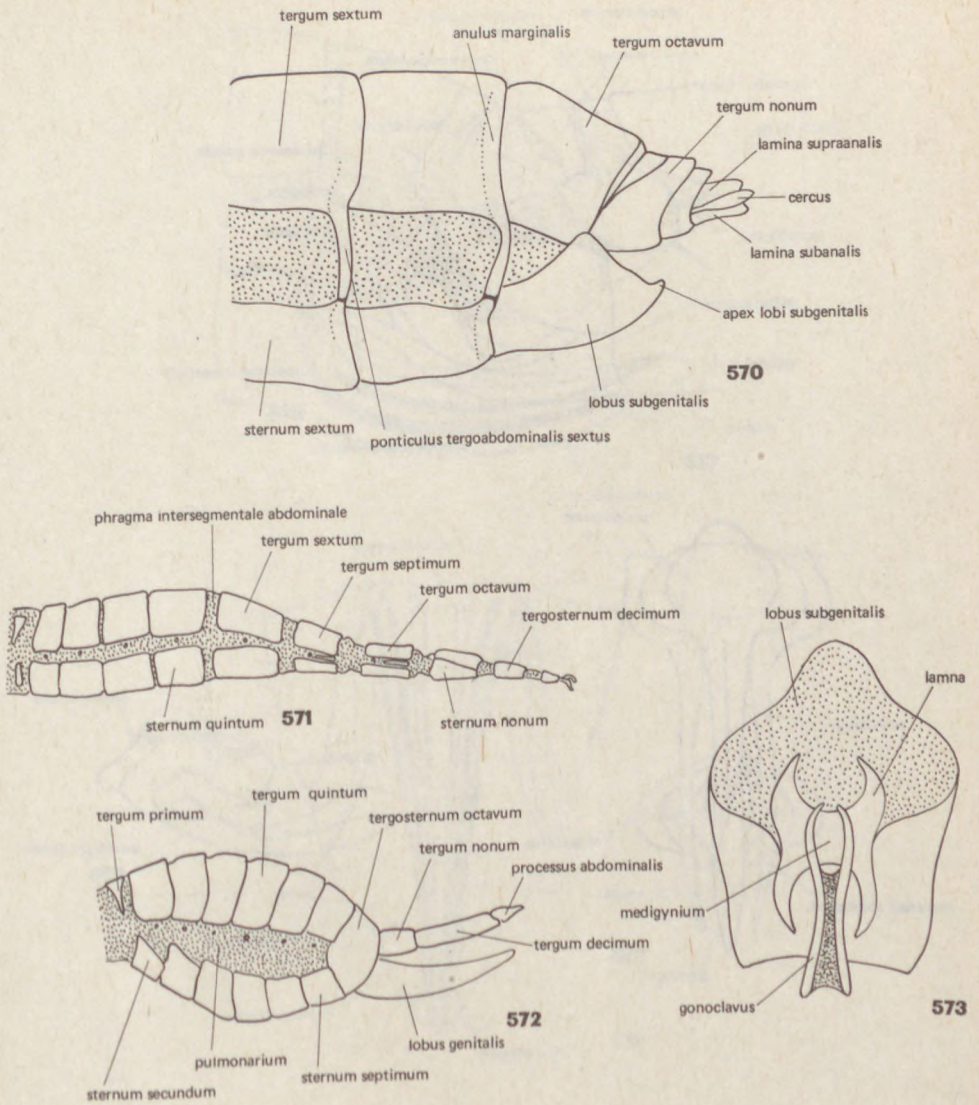
Figs. 557–560. Male genitalia of Neuroptera. — 557: Abdominal end of Nymphes in lateral view, 558: same of Nemoptera in dorsal view, 559–560: same of Palpares in lateral, and in ventral view (after Tjeder 557, 558, and Aspöck et al. 559, 560)



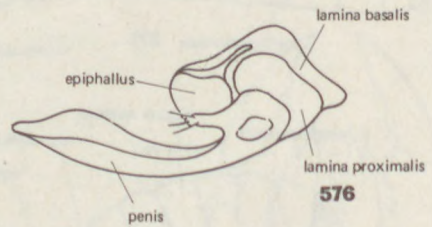
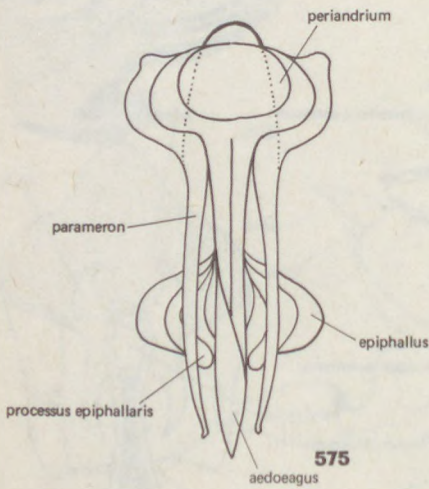
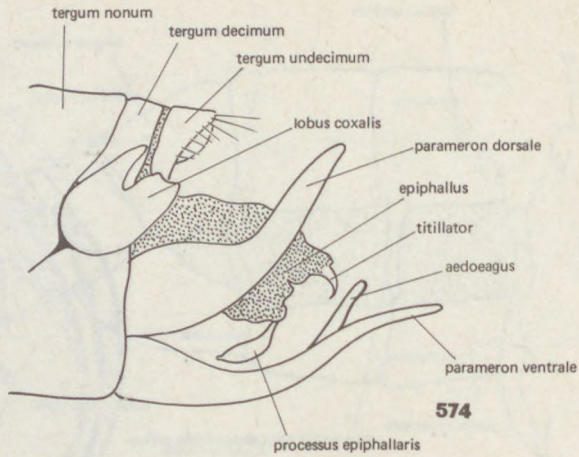
Figs. 561–564. Female genitalia of Neuroptera. — 561: Abdominal end of *Acroberotha*, 562: same of *Ithone*, 563: same of *Coniopteryx*, and 564: same of *Wesmaelius* in lateral view (after Tjeder)



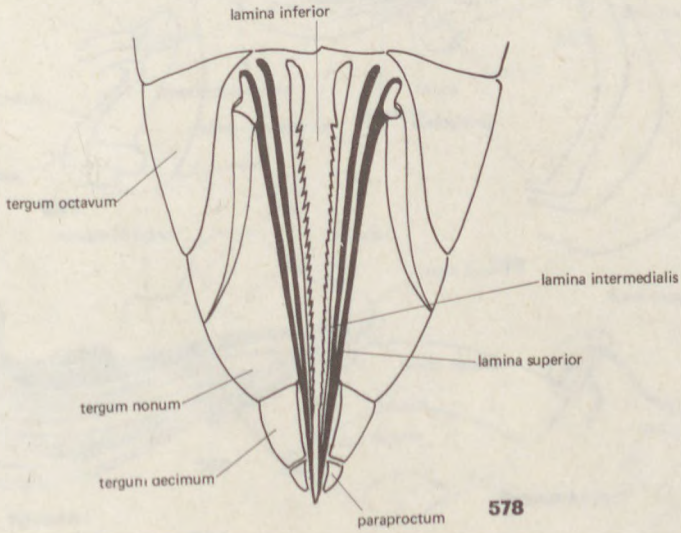
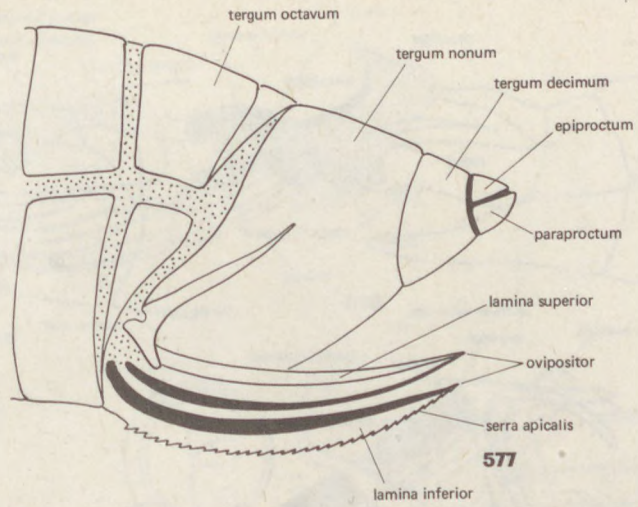
Figs. 565–569. Male genitalia of Mecoptera. — 565: Copulatory organ of *Panorpa* in longitudinal section in lateral view, 566: aedoeagus of same in ventral view, 567: abdominal end of *Panorpa* in lateral view, 568: ninth and tenth abdominal segments of same, and 569: apex of abdomen on *Panorpa* in ventral view (after Tjeder)



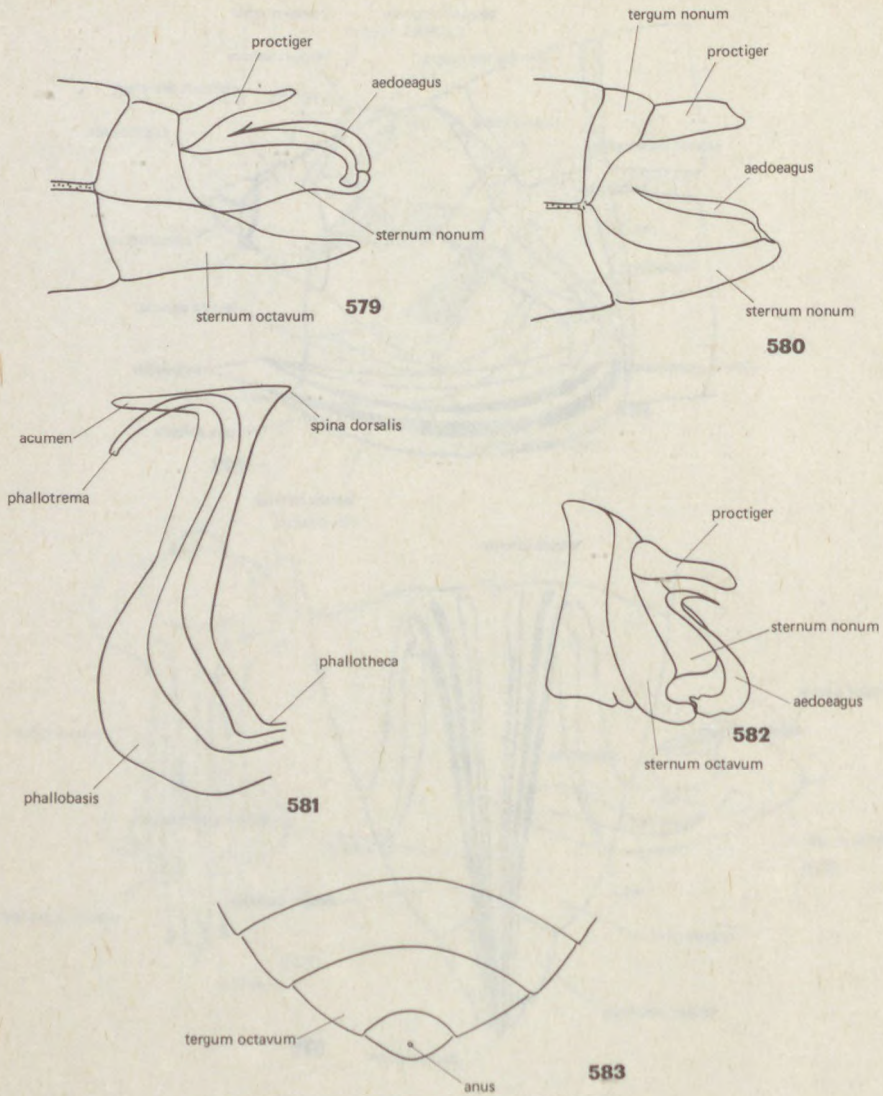
Figs. 570—573. Female genitalia of Mecoptera. — 570: Abdominal end of *Harpobittacus*, 571: abdomen of *Panorpa*, and 572: abdomen of *Boreus* in lateral view, 573: subgenitalia and medigynium of *Panorpa* in dorsal view (after Tjeder)



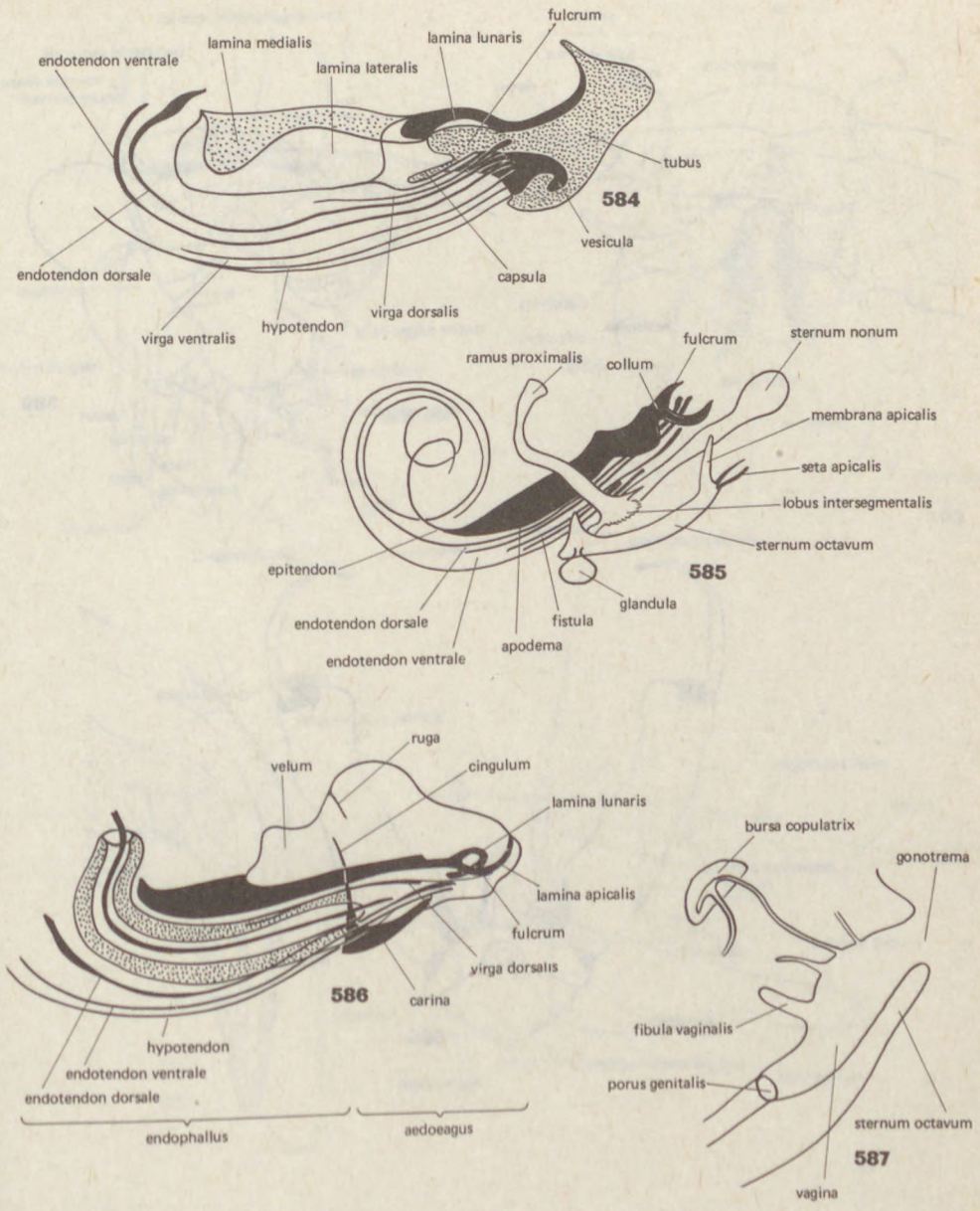
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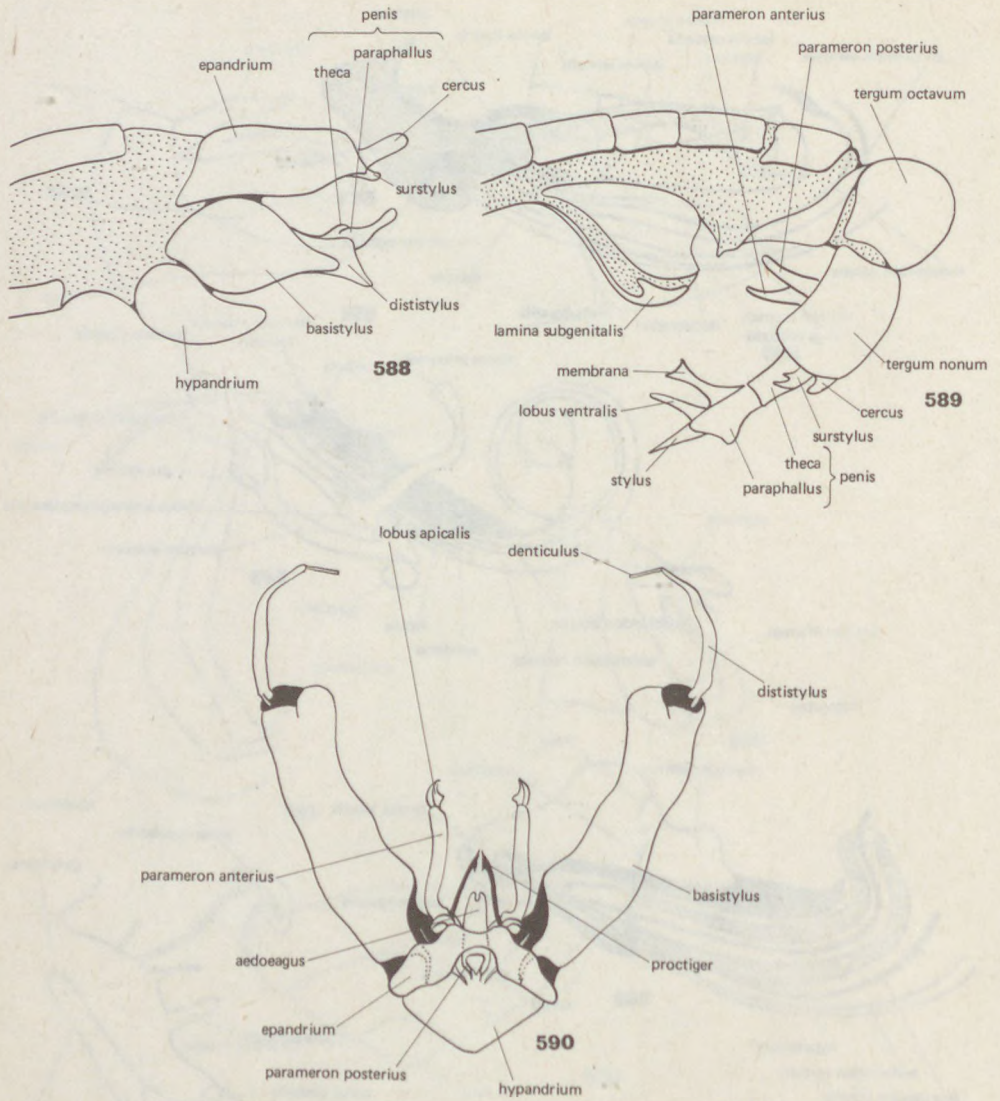
Figs. 577–578. Female genitalia of Thysanoptera. — 577: Abdominal end of Anaphothrips in lateral view, and 578: same in ventral view (after Priesner)



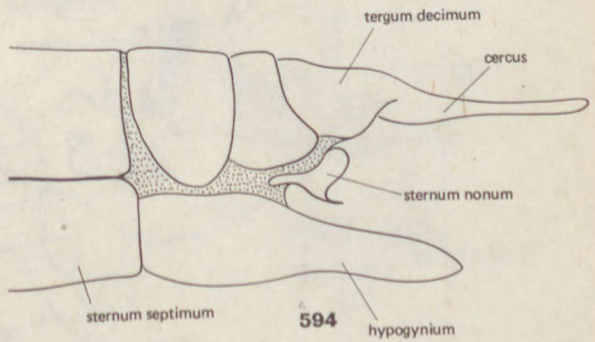
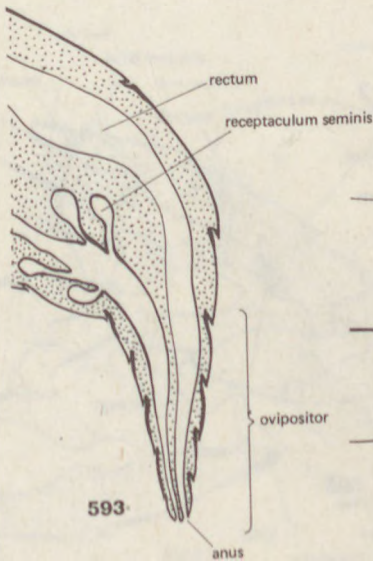
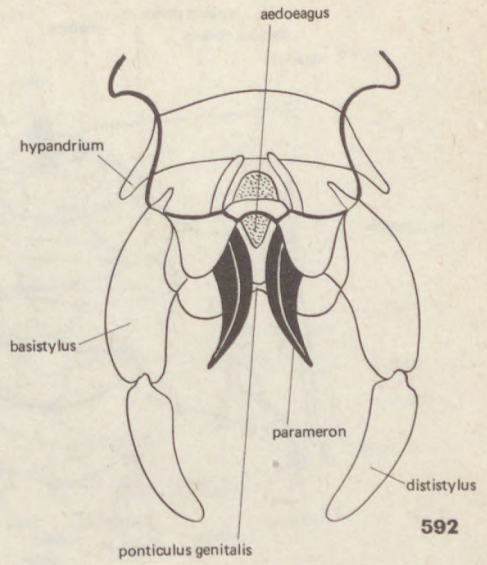
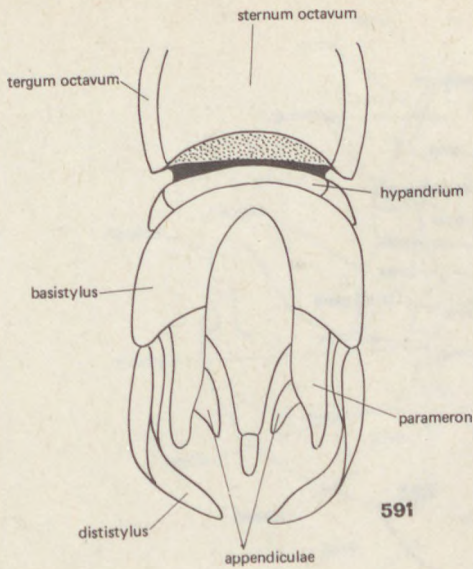
Figs. 579–583. Male and female genitalia of Strepsiptera. — 579: Abdominal end of male *Halictophagus* in lateral view, and 580: same of *Stenocranophilus* in lateral view, 581: aedeagus of *Xenos*, 582: abdominal end of male *Myrmecolax* in lateral view, and 583: same of female *Eoxenos* in ventral view (after Kinzelbach and Kaszab 581, and Pasteels 579, 580, 582, 583)



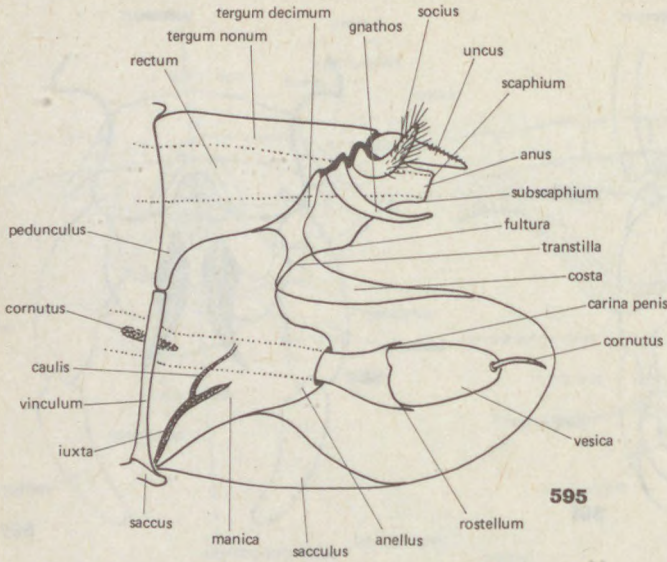
Figs. 584–587. Male and female genitalia of Siphonaptera. — 584: Phallosoma of *Ctenocephalus*, 585: same of *Ceratophyllus*, and 586: same of *Euctenophthalmus*, and 587: schematic view of female's genitalia (after Wenk 584, 585, 587, and Peus 586)



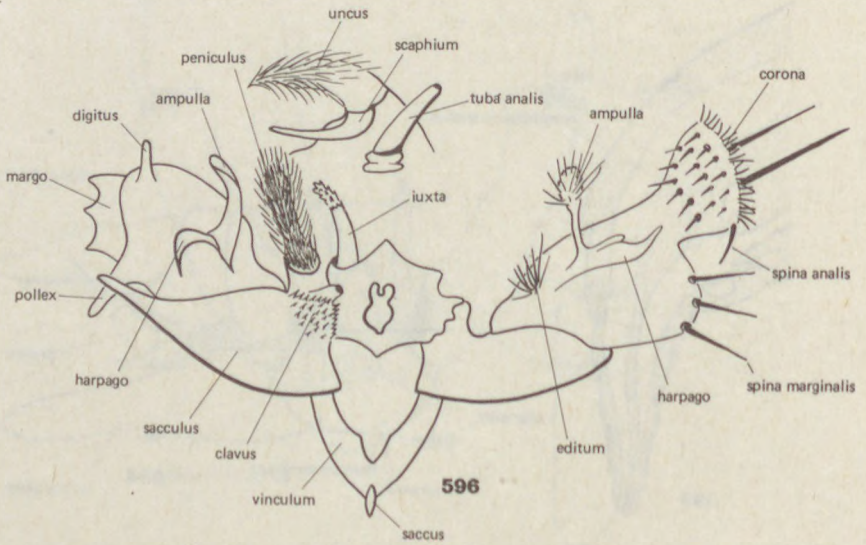
Figs. 588–590. Male genitalia of Diptera. — 588: Abdominal end of *Dioctria*, and 589: same of *Sarcophaga* in lateral view, 590: copulatory organ of *Aedes* in dorsal view (after Emden and Hennig)



Figs. 591—594. Male and female genitalia of Diptera. — 591: Hypopygium of male *Tendipes* in ventral view, and 592: same of male *Trichocera* in dorsal view, 593: abdominal end of *Musca* in longitudinal section in lateral view, and 594: same of *Tipula* in lateral view (after Emden and Hennig)

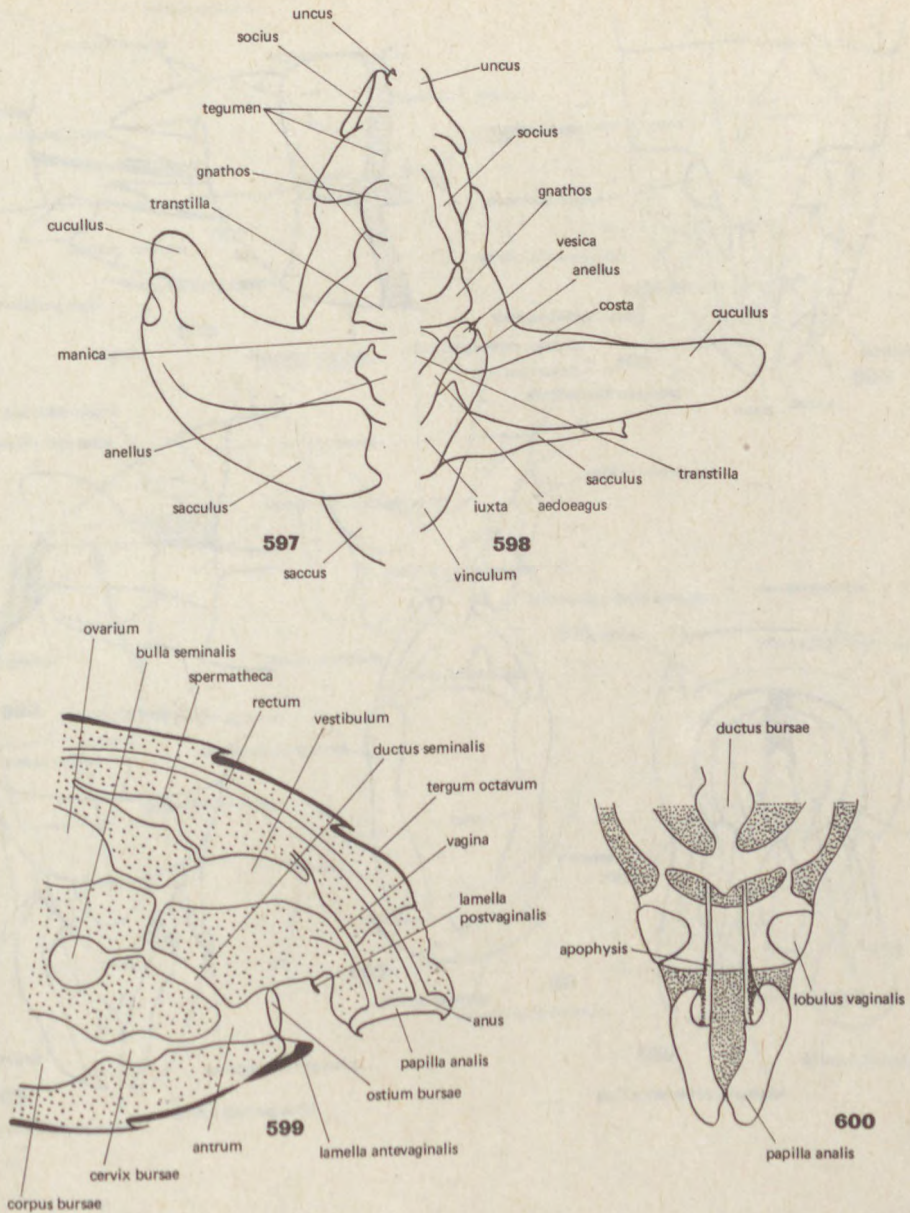


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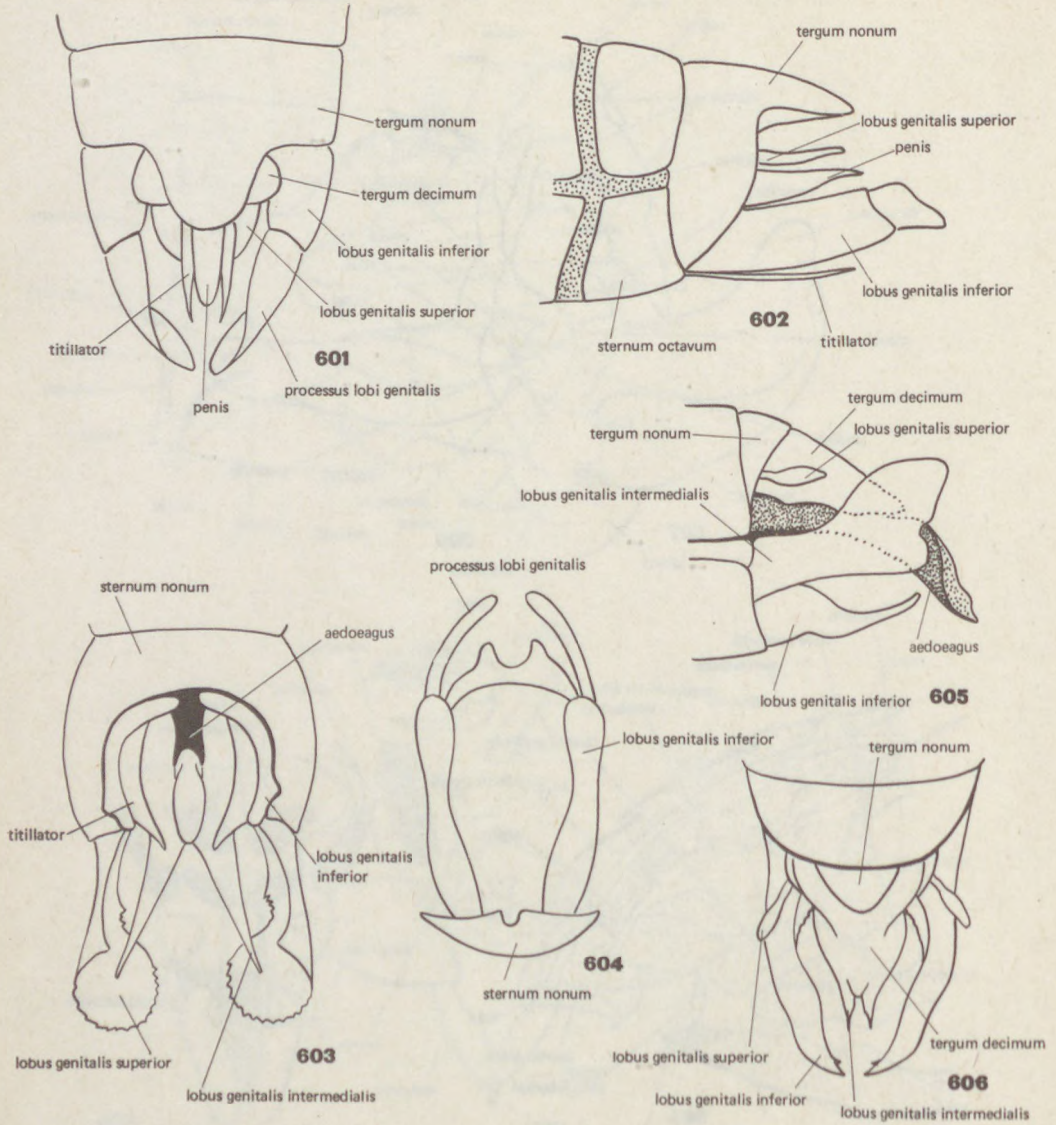


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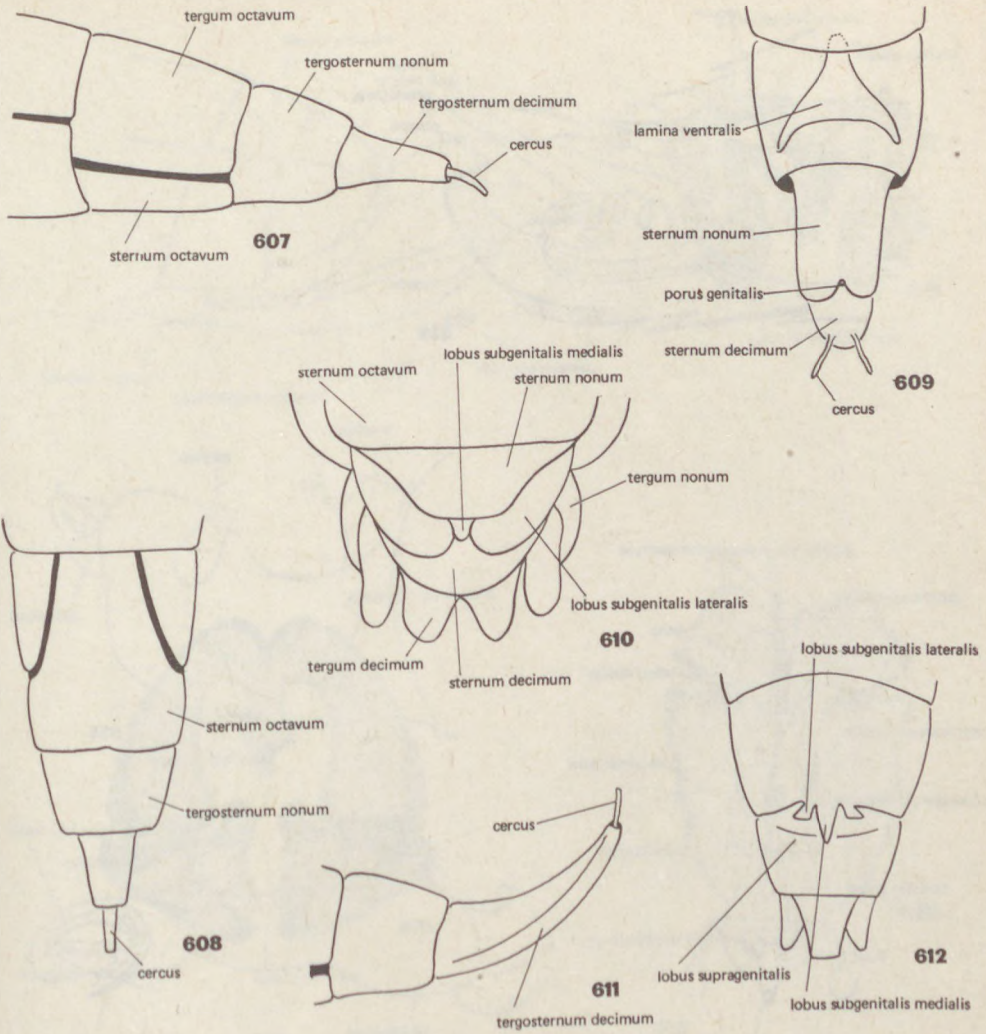
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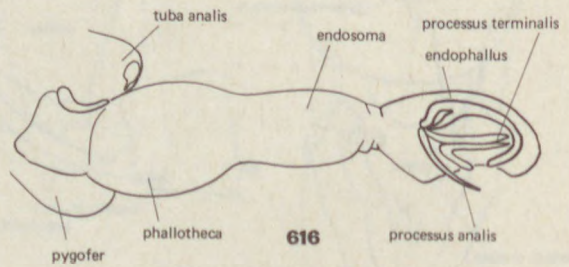
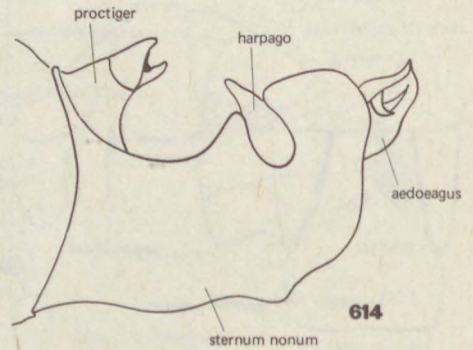
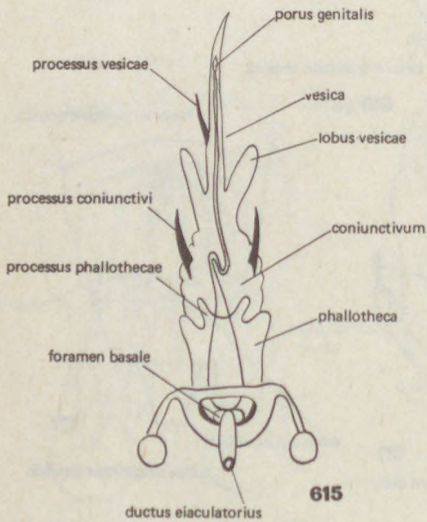
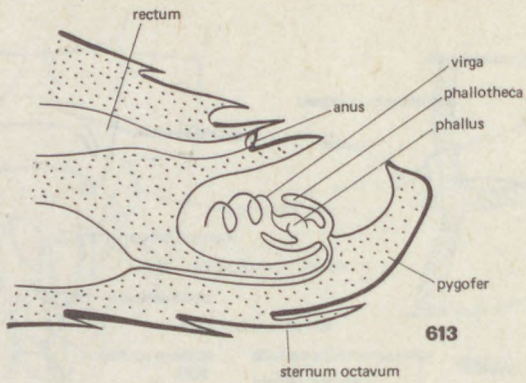
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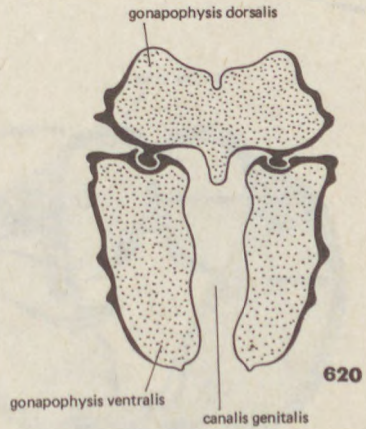
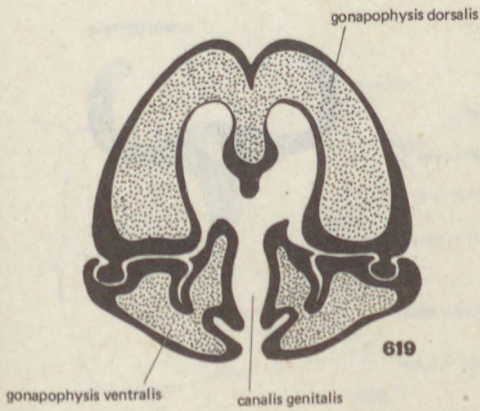
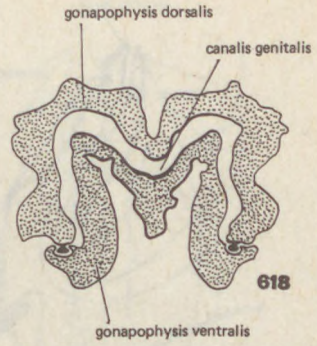
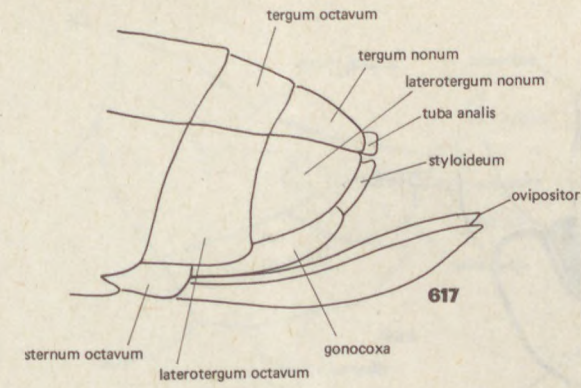
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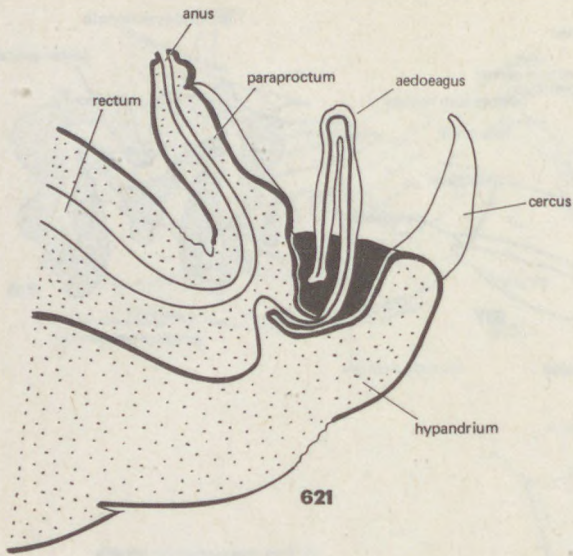
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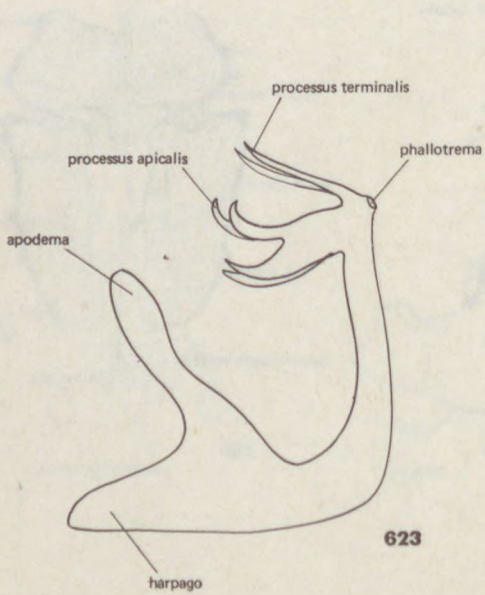
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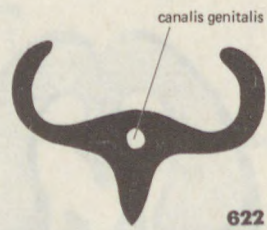
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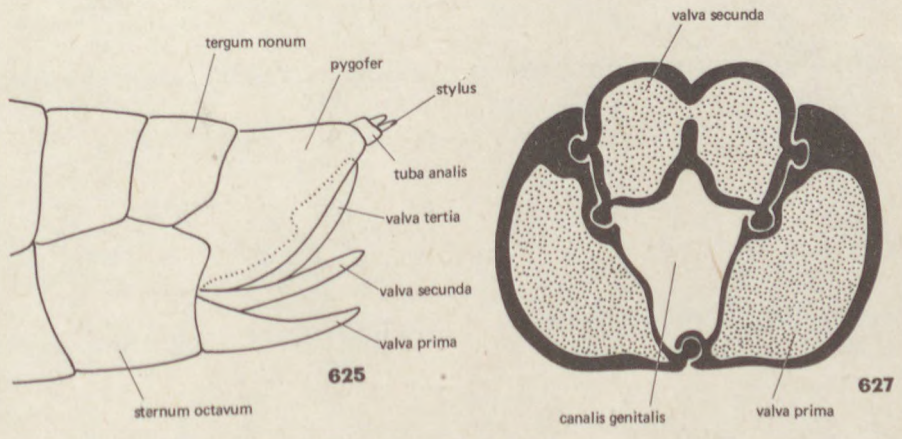
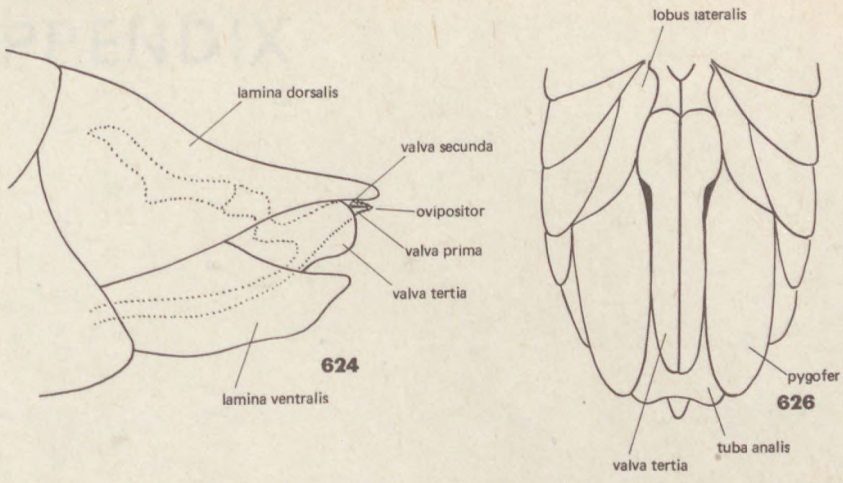
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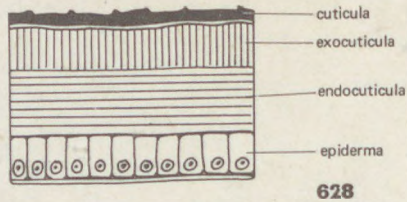
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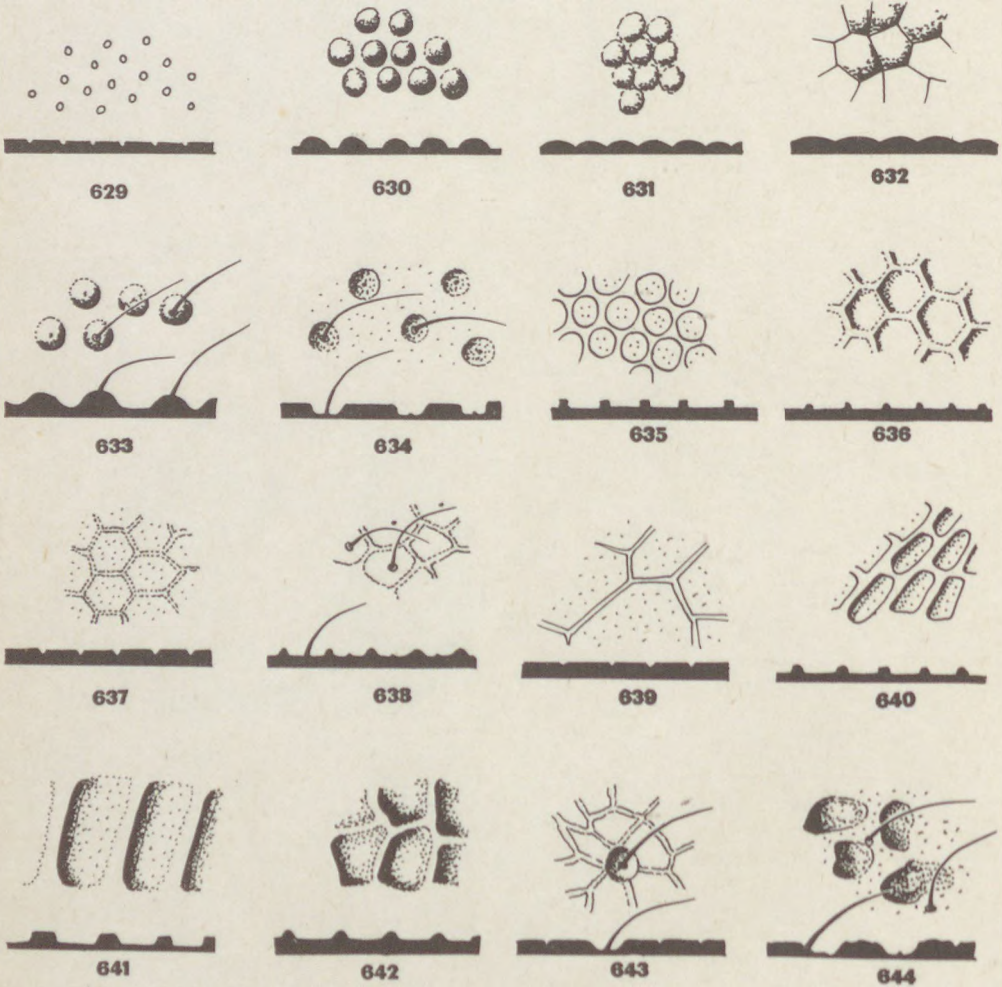


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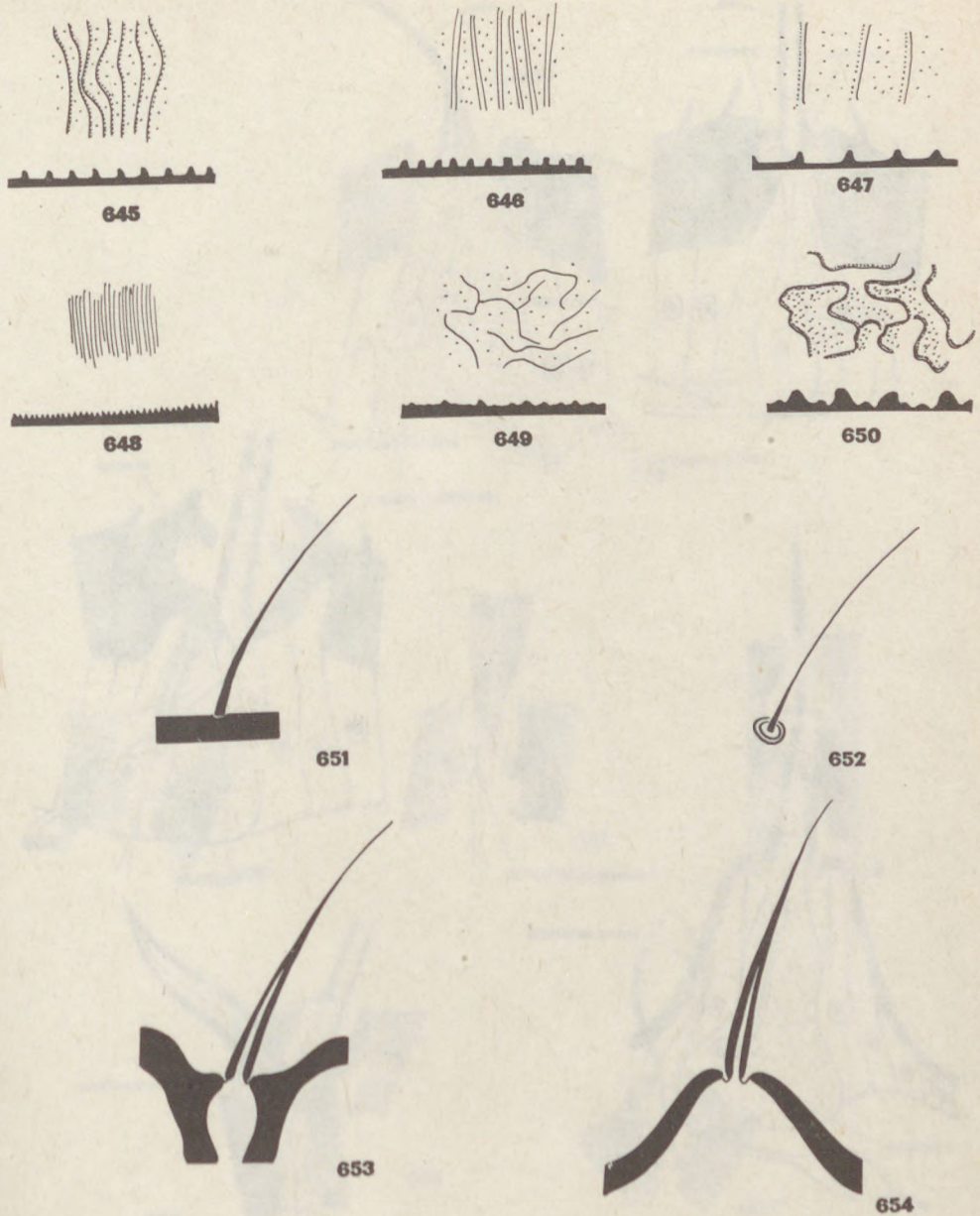
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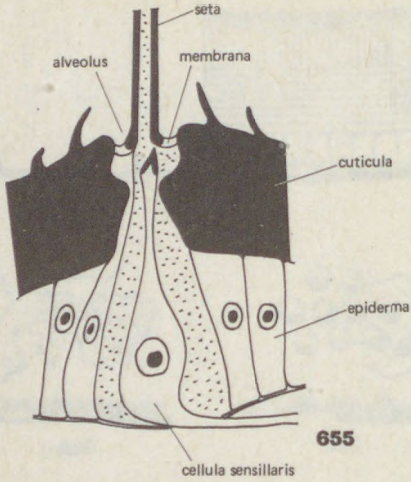
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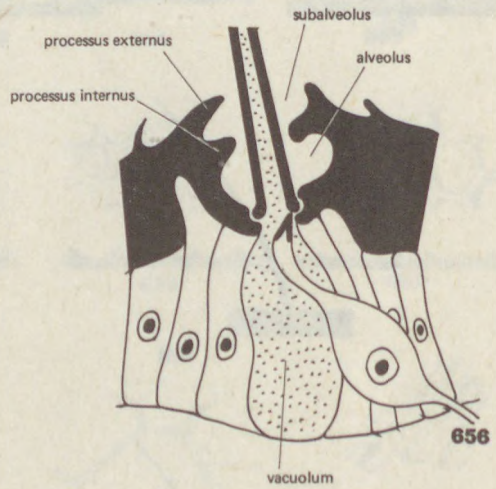
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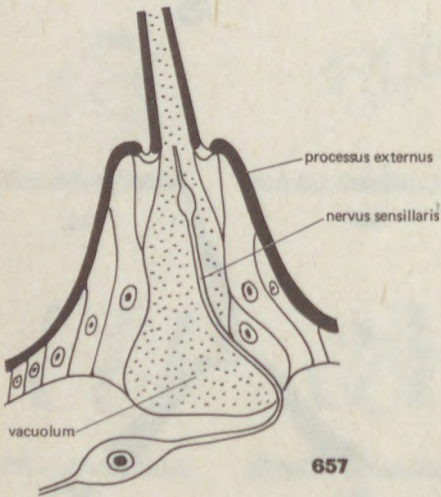
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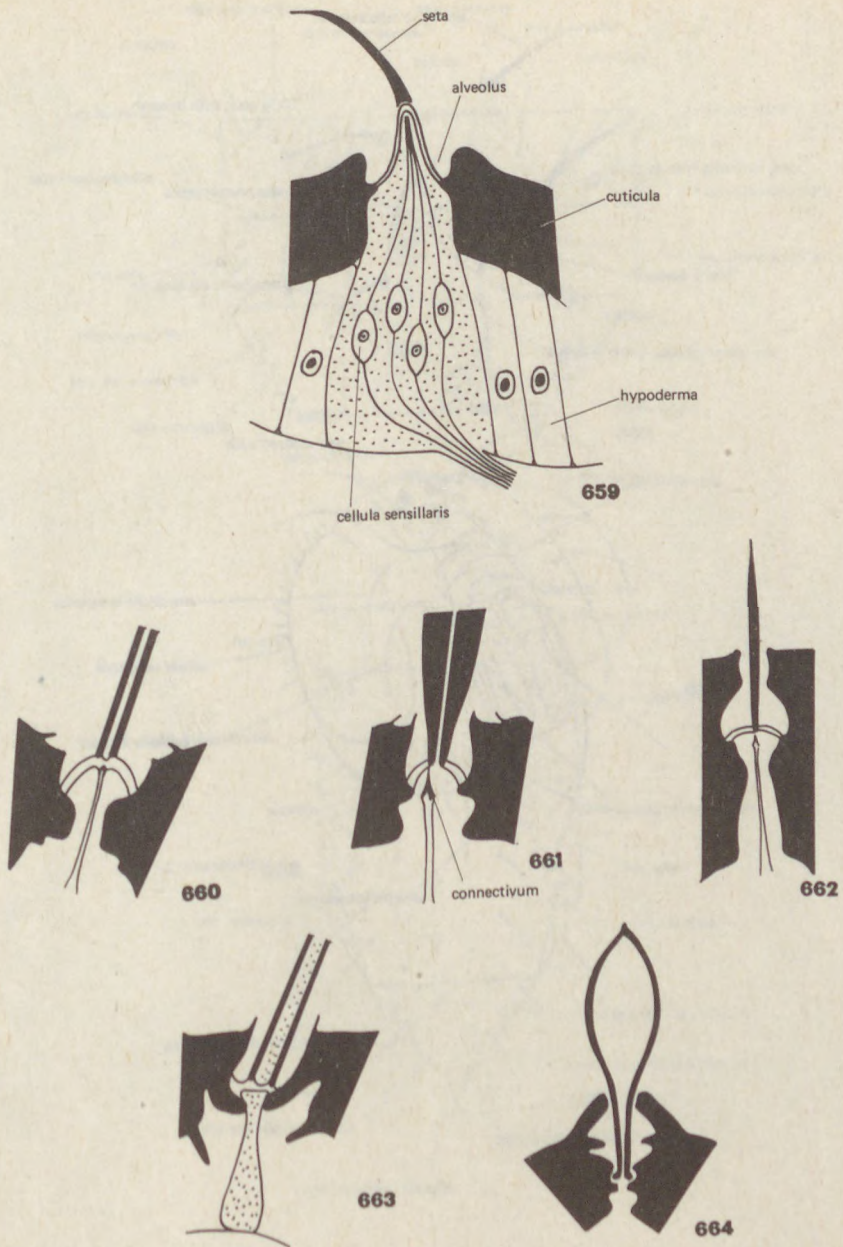


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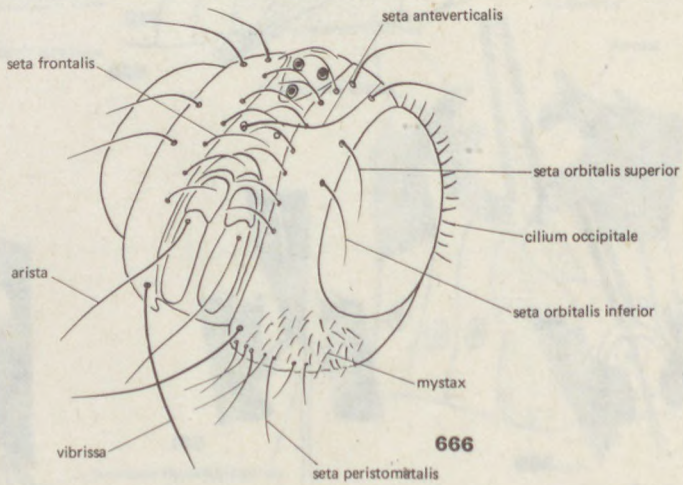
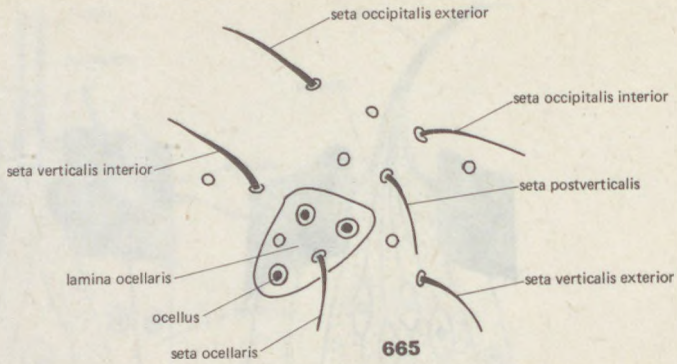


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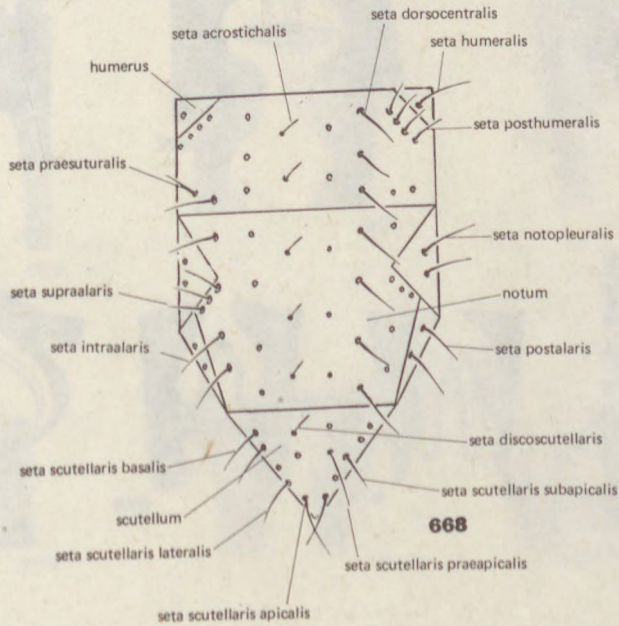
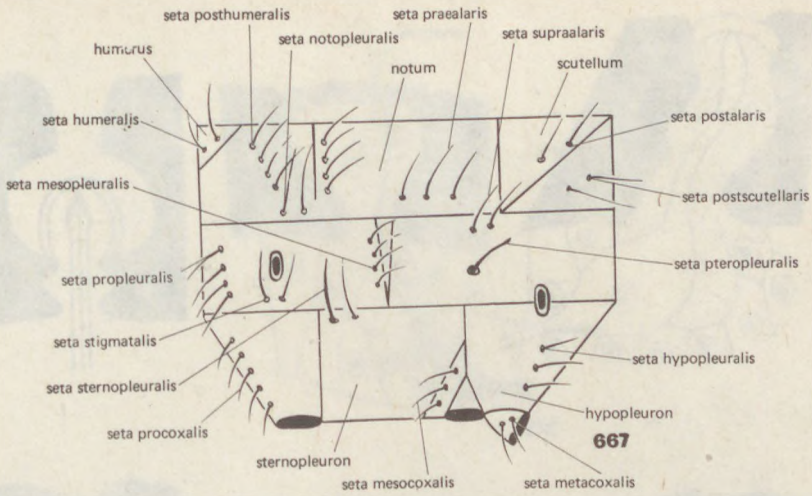
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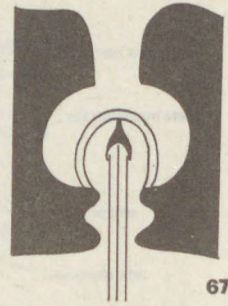
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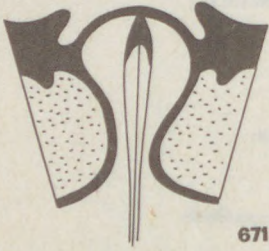
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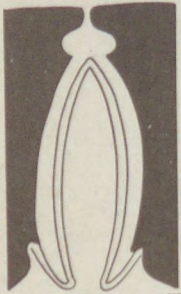
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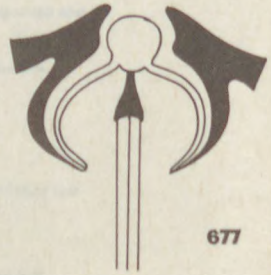
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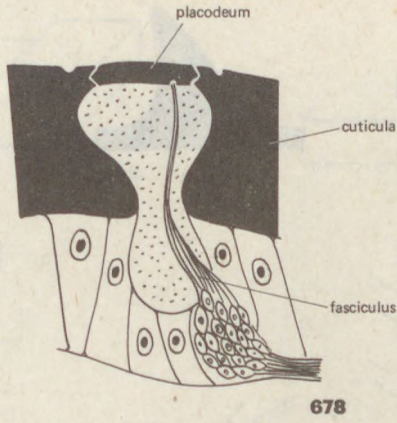


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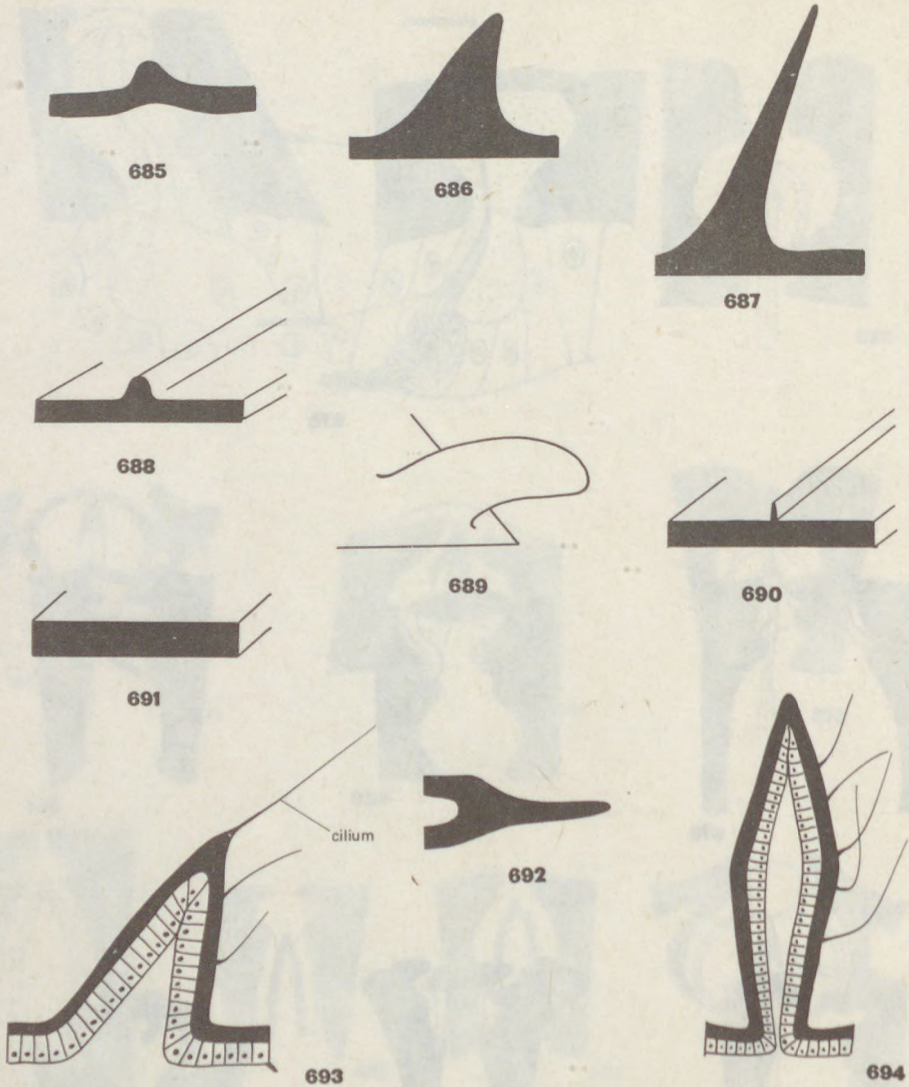


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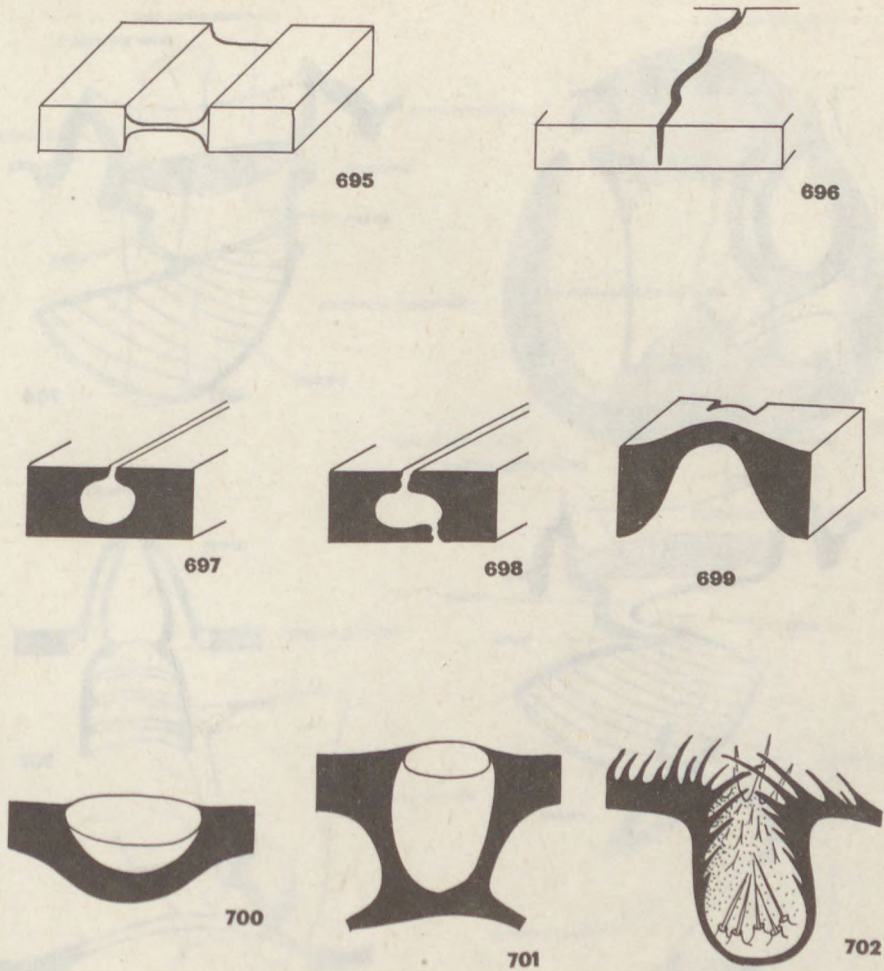
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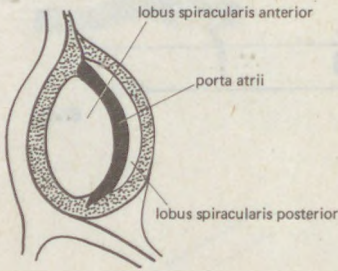
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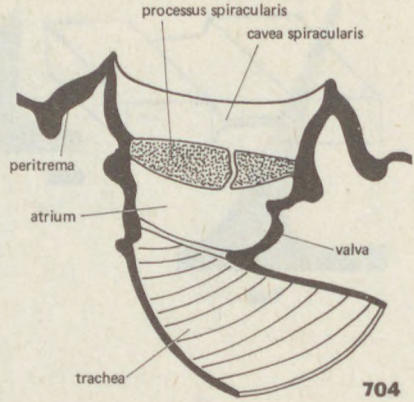
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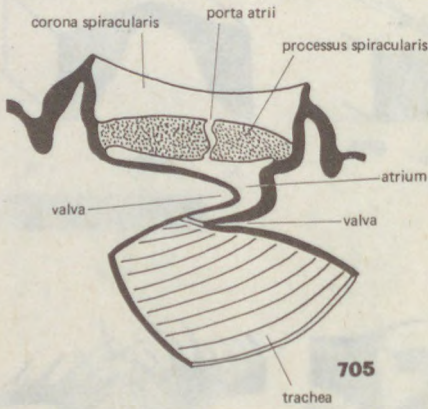
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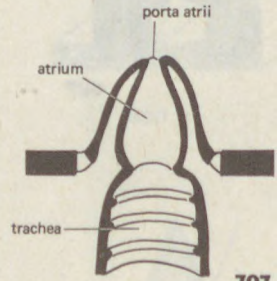
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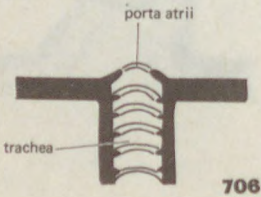
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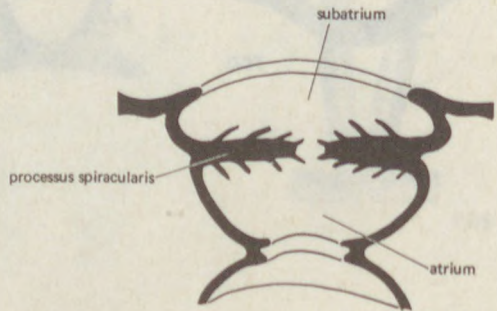
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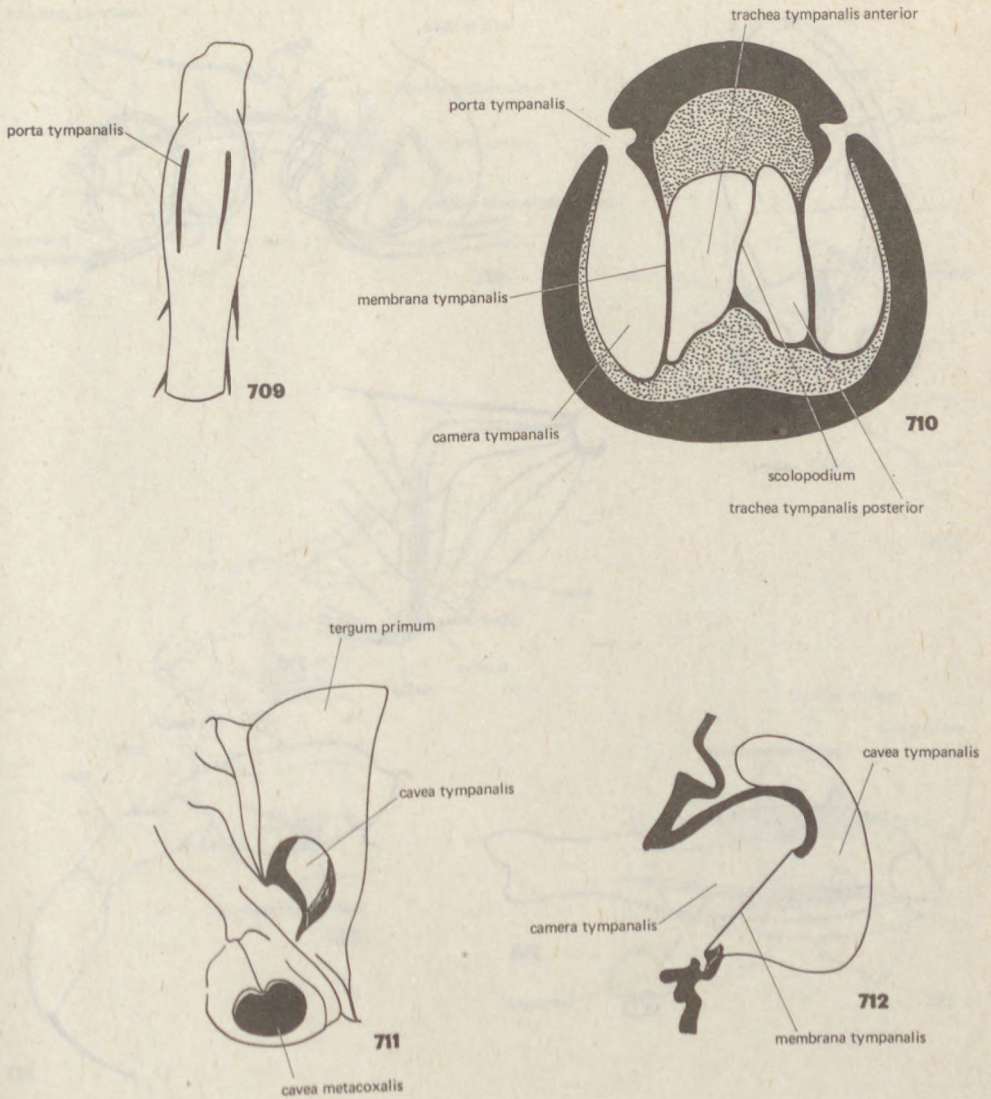


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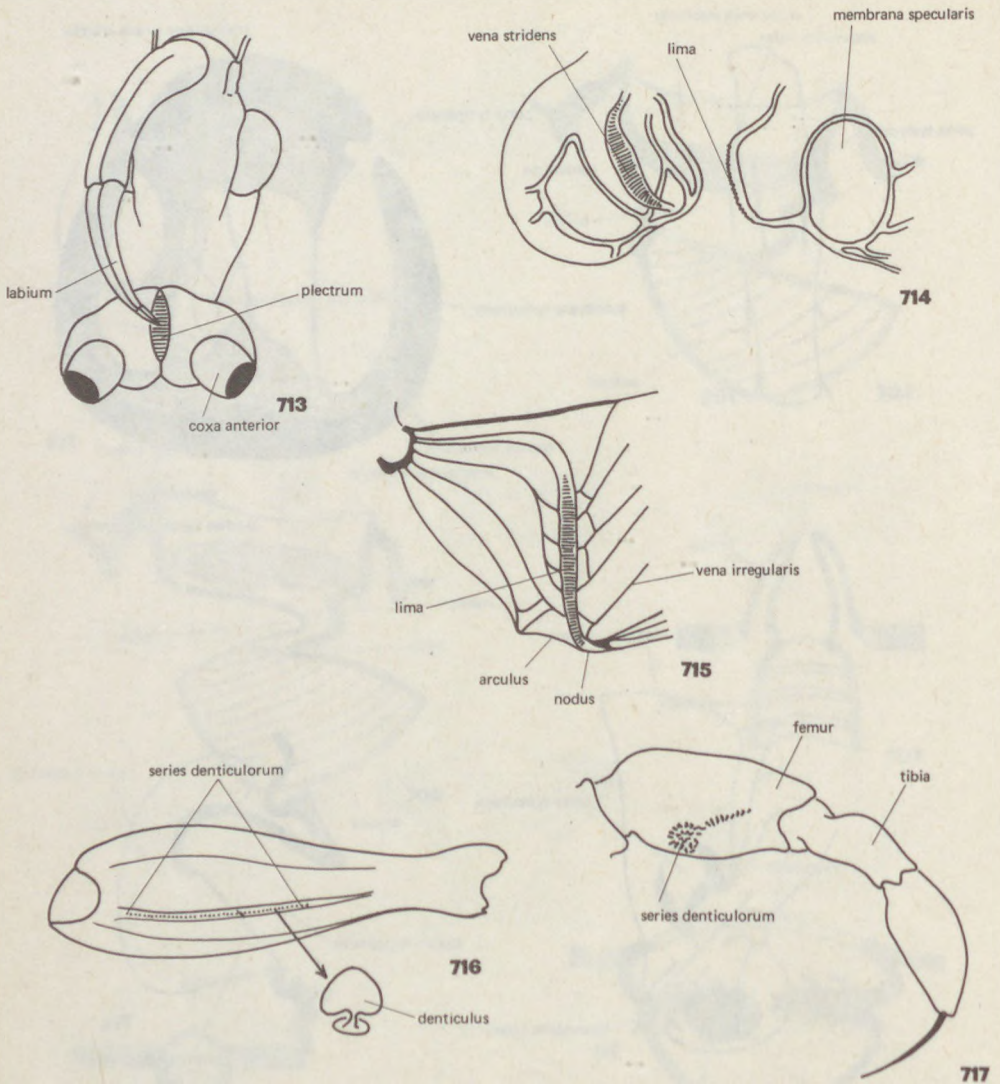


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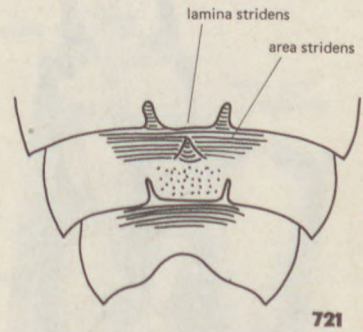
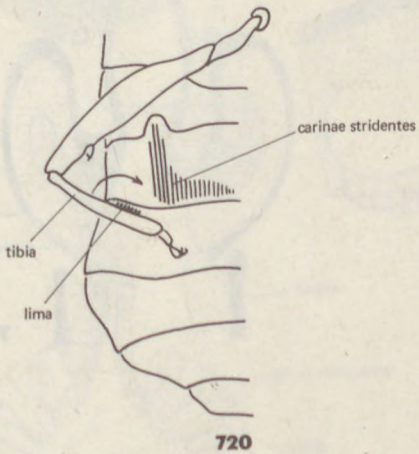
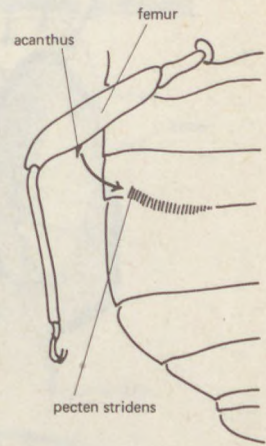
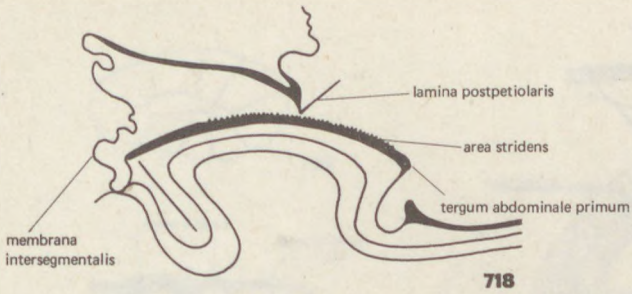
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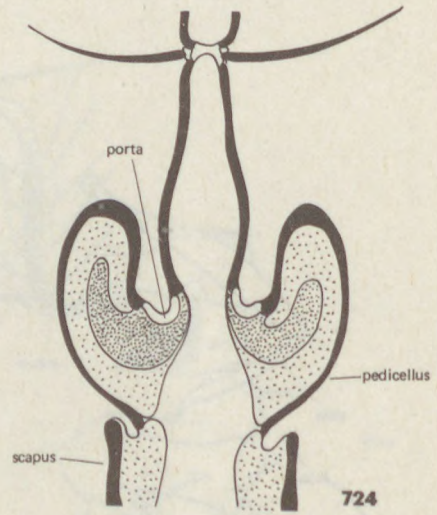
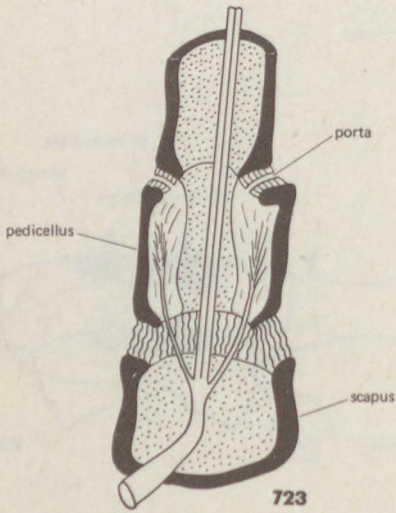
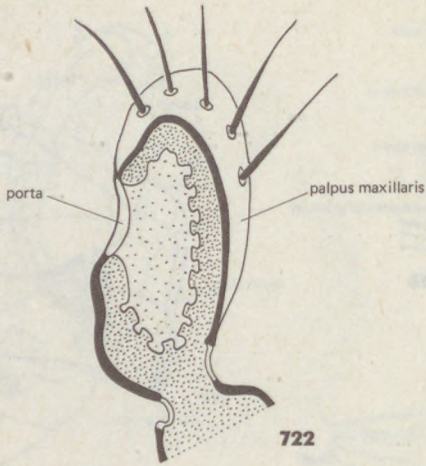
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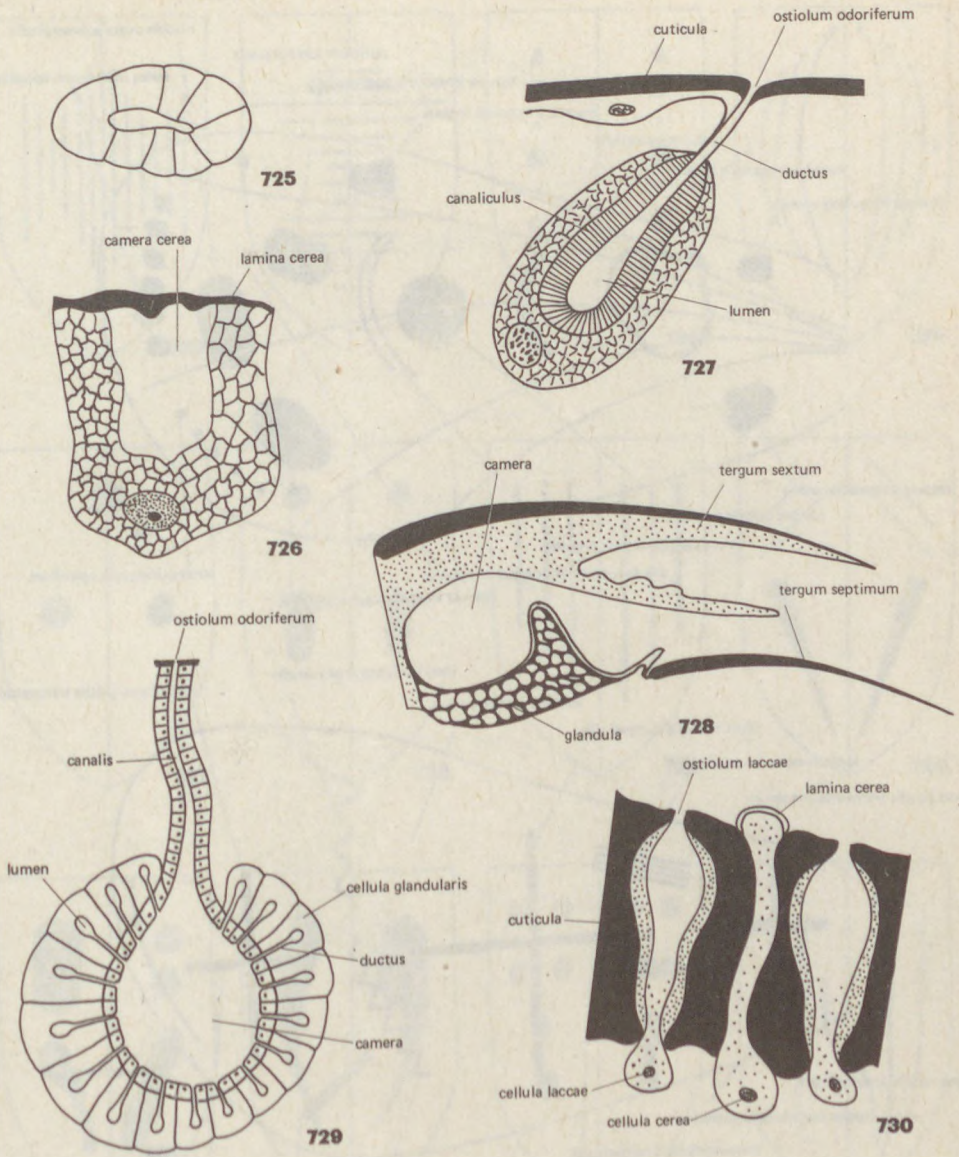
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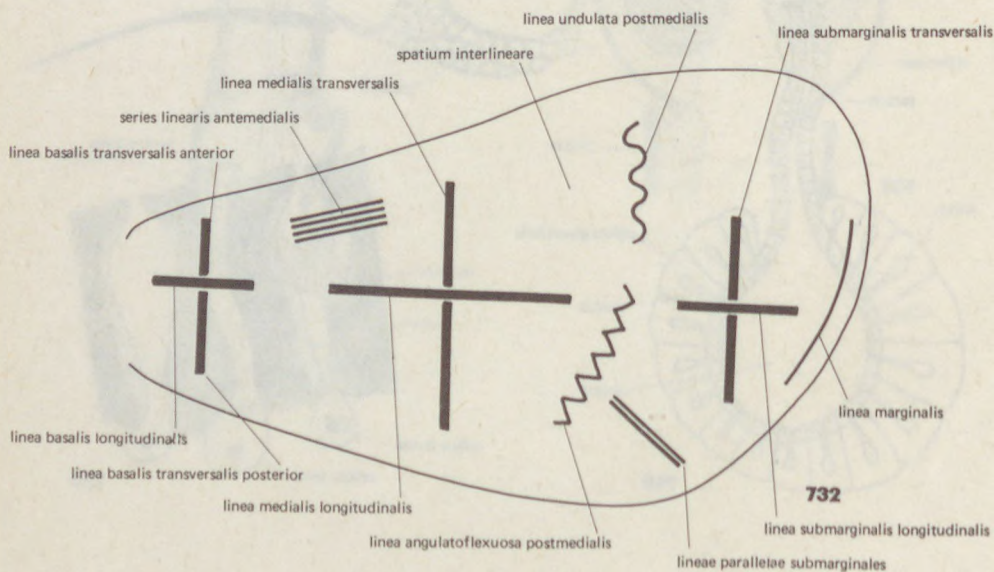
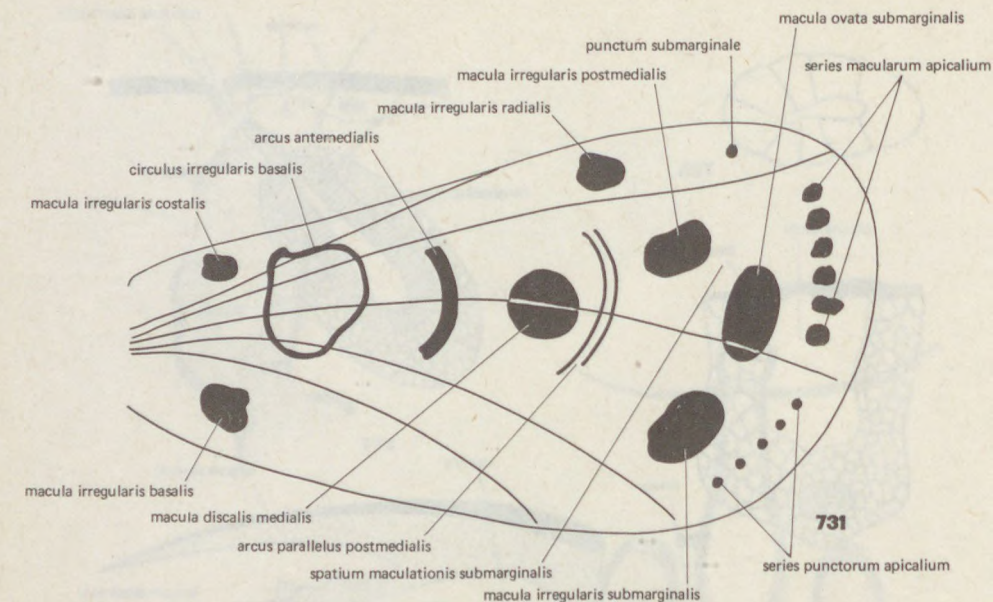
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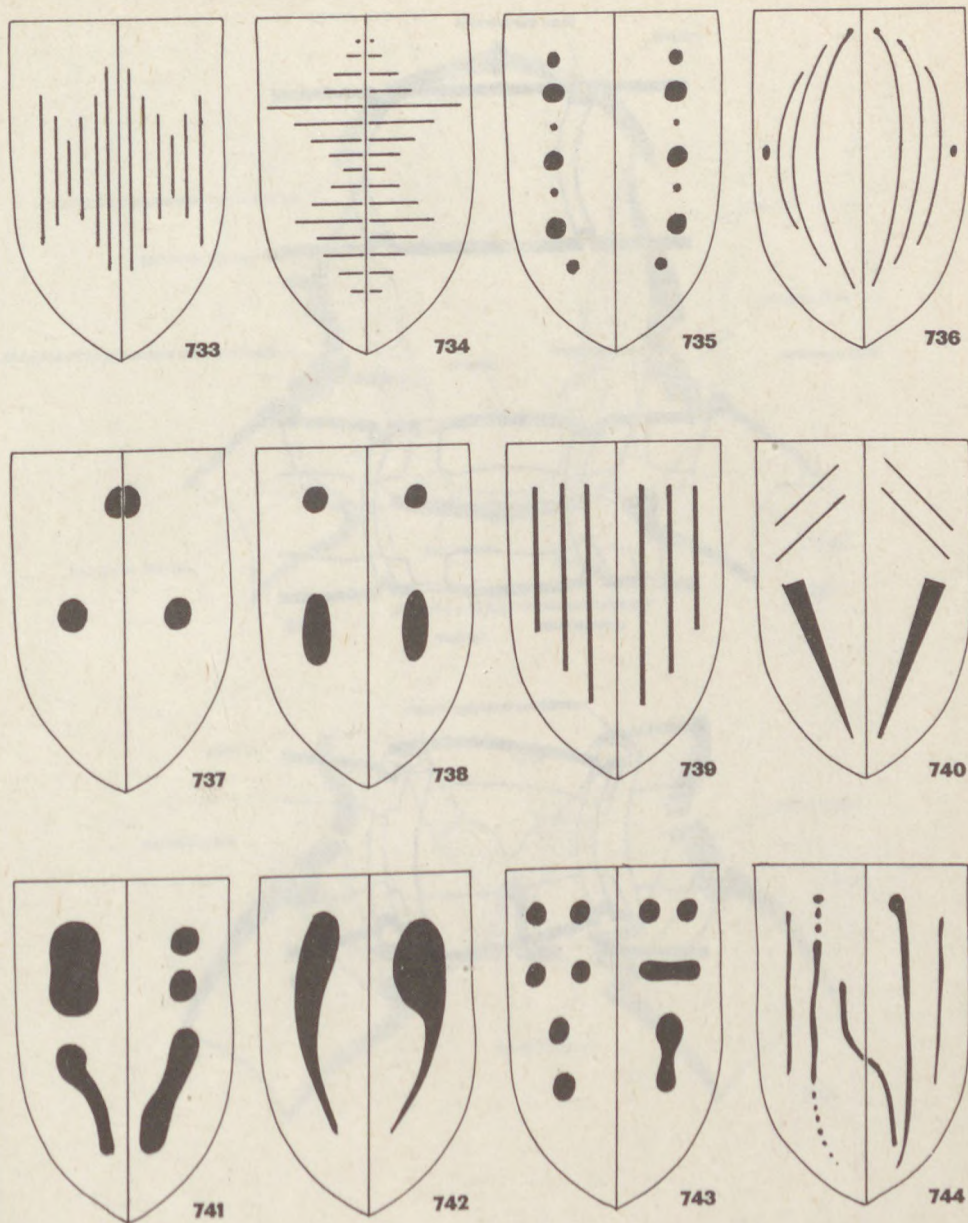
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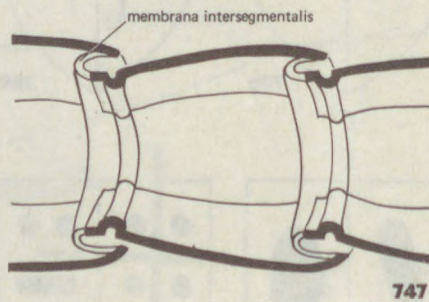
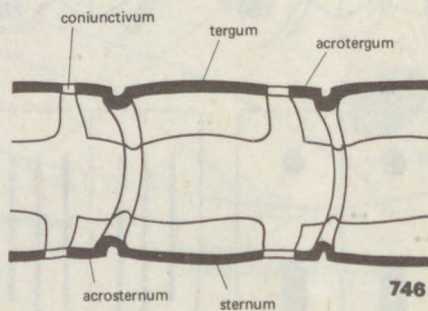
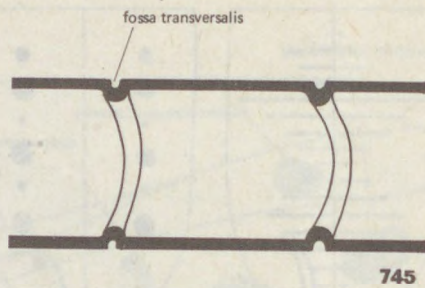
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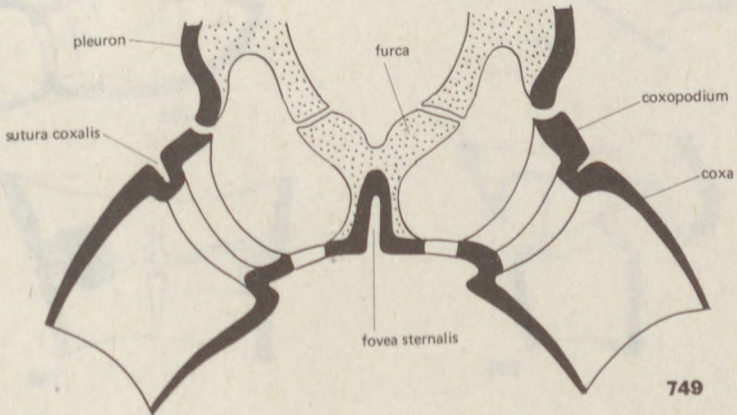
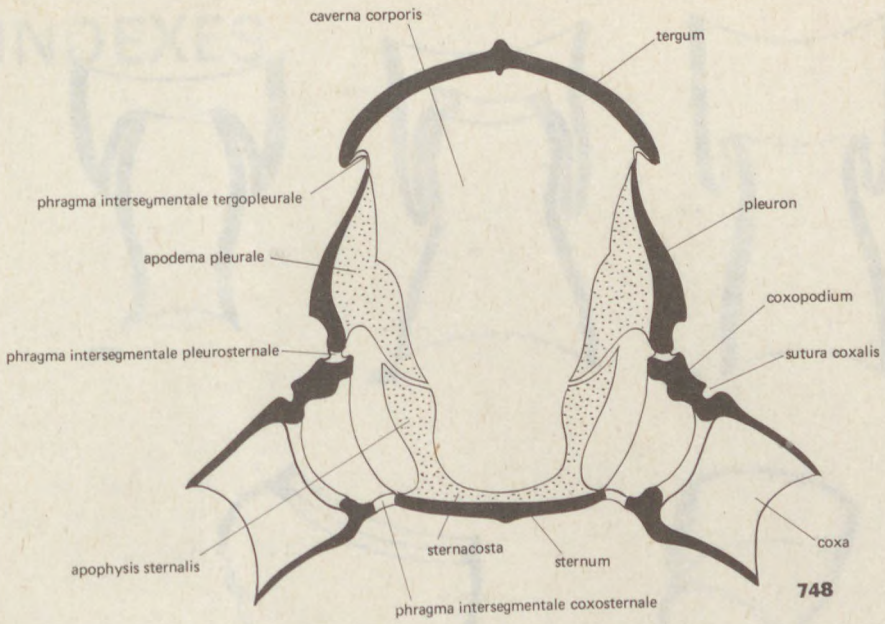
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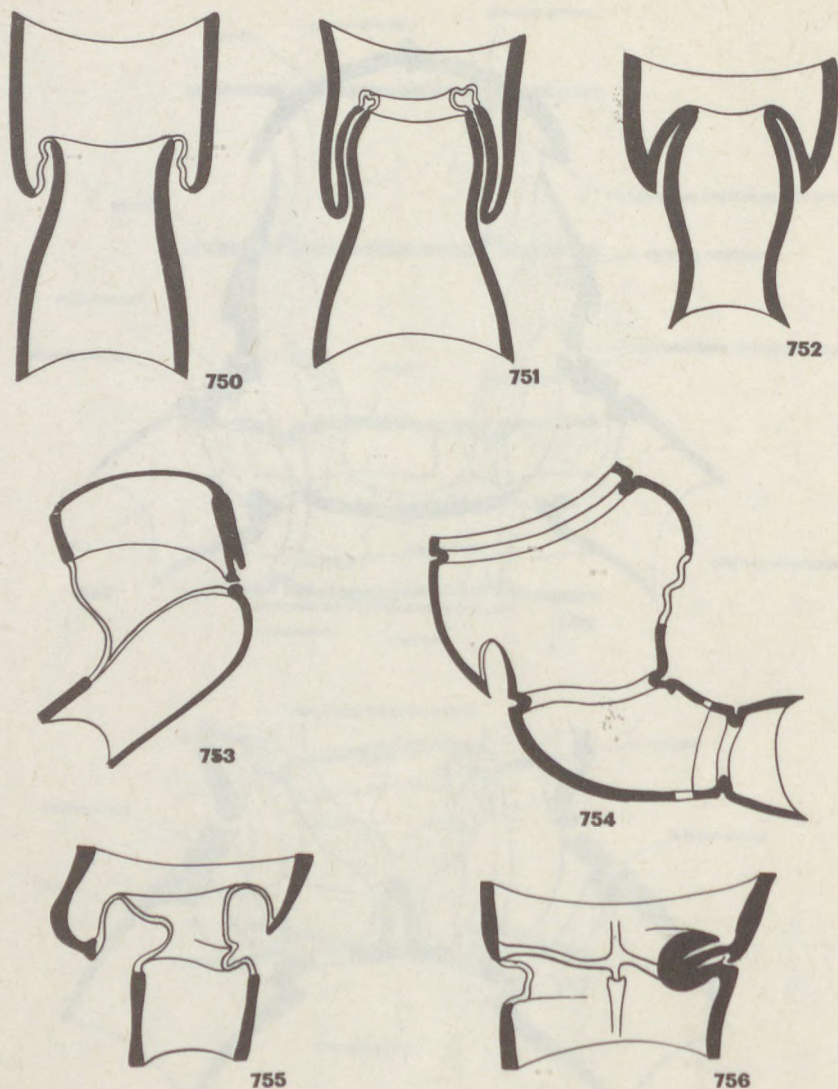
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ENGLISH—LATIN

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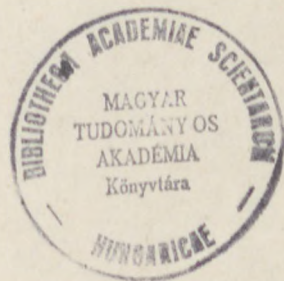
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