

PLATES

PLATE I

Epitedia wenmanni (Rothschild), female, and *Ceratophyllus idius* Jordan and Rothschild, male genitalia, illustrating structural terms.

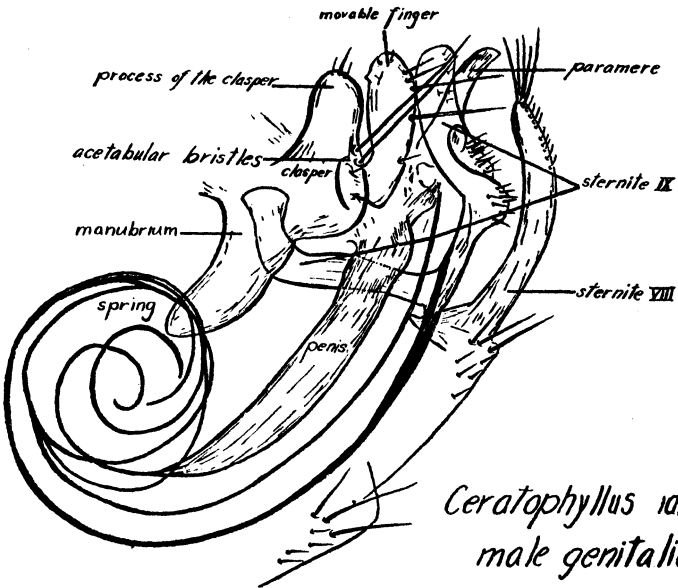
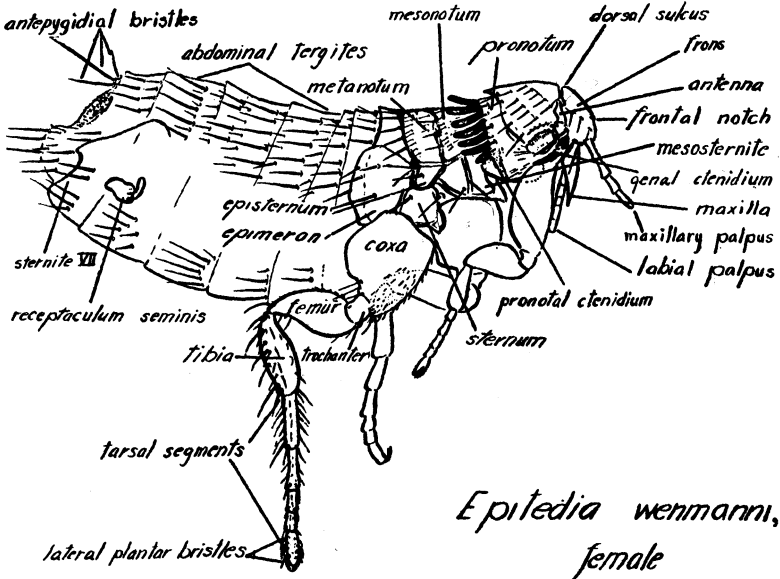


PLATE II

Echidnophaga gallinacea (Westwood)

FIGURE

1. Receptaculum seminis.
2. Posterior end of the female abdomen.
3. Male genitalia.
4. Head, thorax, and first abdominal tergite of male.
5. Hind coxa of male showing patch of spinelets on inner side.

Plates

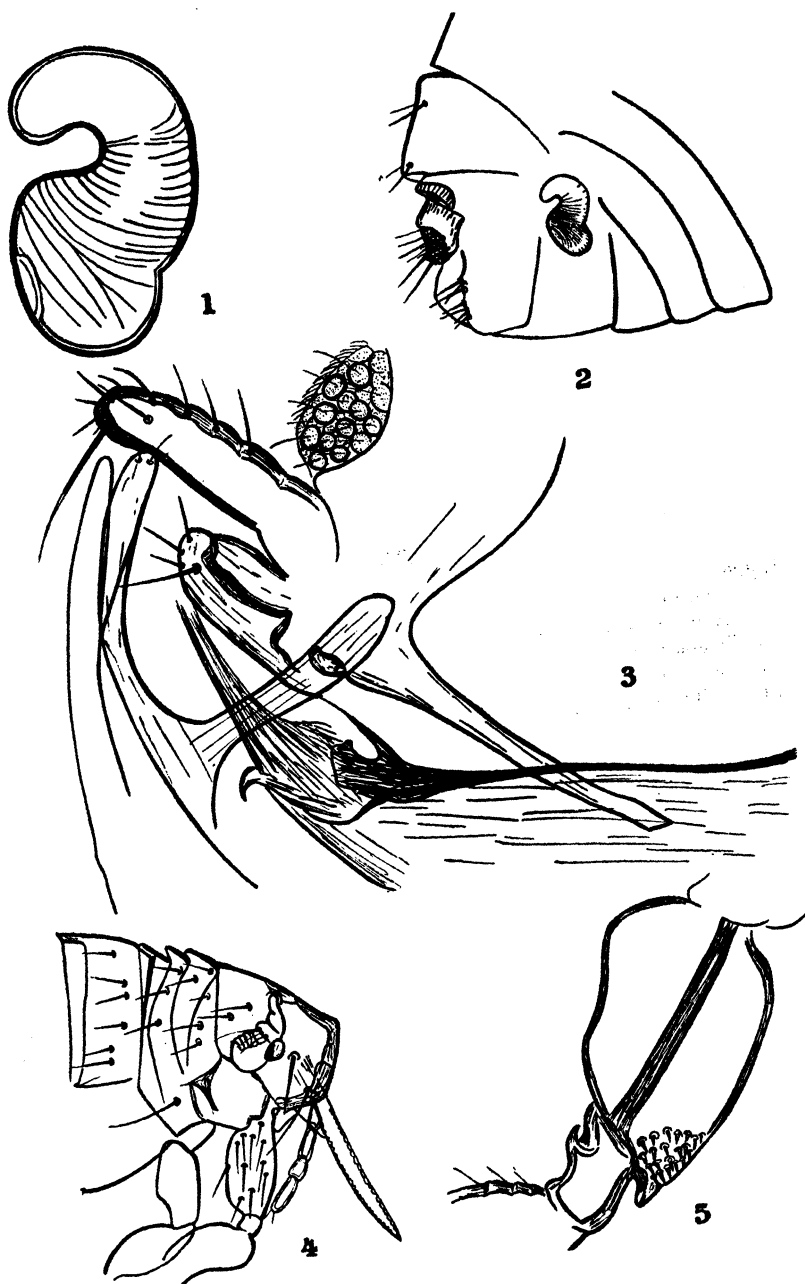


PLATE III

FIGURE

6. *Cediopsylla simplex* (Baker), receptaculum seminis.
7. Idem, male genitalia.
8. *Tunga penetrans* (Linnaeus), male genitalia.
9. Idem, head of male.
10. *Cediopsylla simplex* (Baker), head of female.

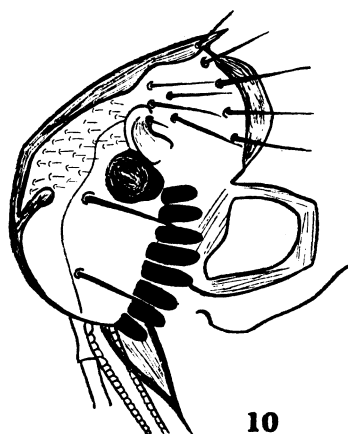
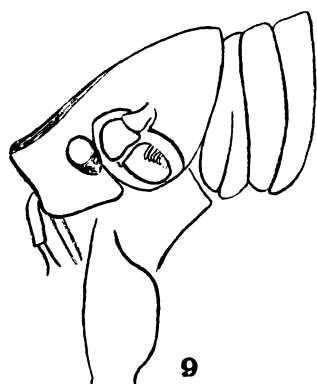
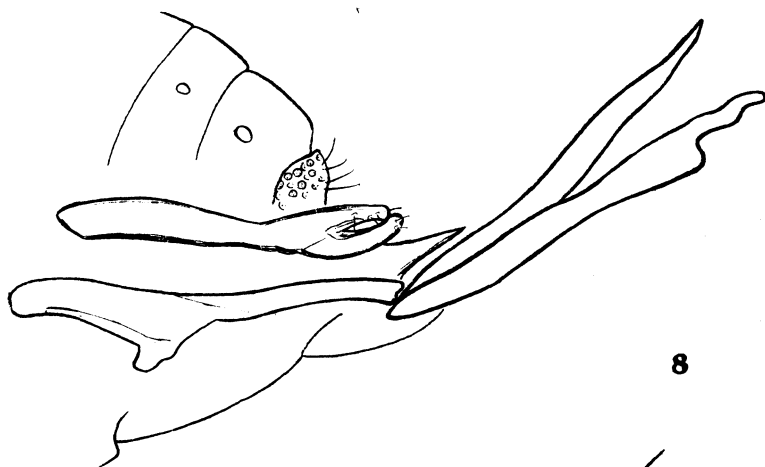
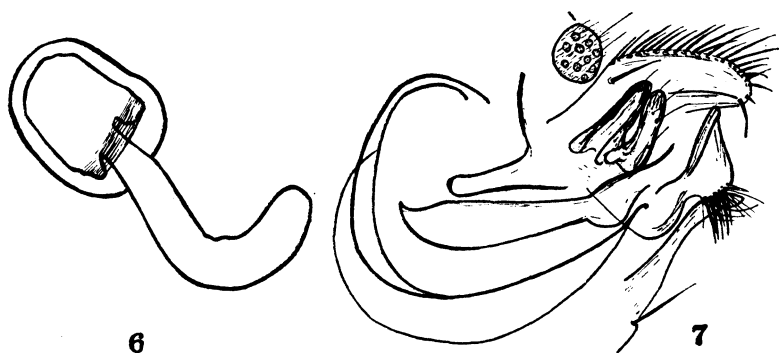
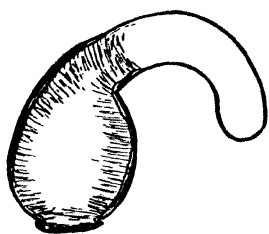


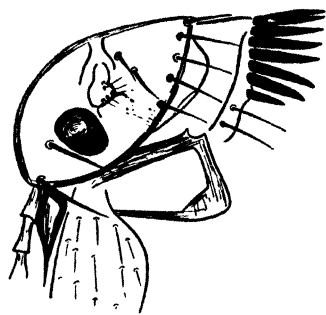
PLATE IV

FIGURE

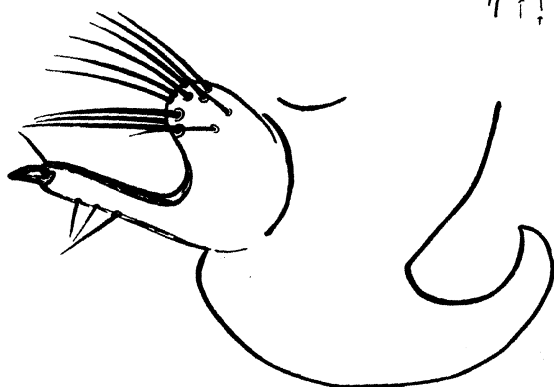
11. *Hoplopsyllus lynx* (Baker), receptaculum seminis.
12. *Hoplopsyllus affinis* (Baker), head of female.
13. *Hoplopsyllus lynx* (Baker), process of the clasper.
14. *Hoplopsyllus affinis* (Baker), male genitalia.
15. Idem, receptaculum seminis.



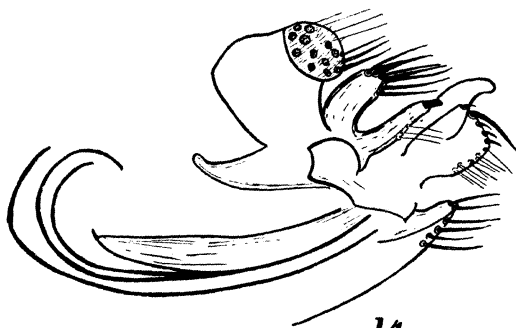
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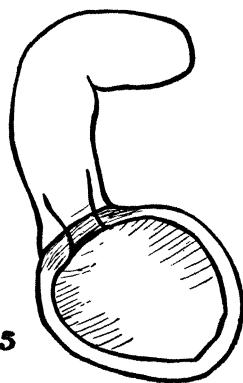
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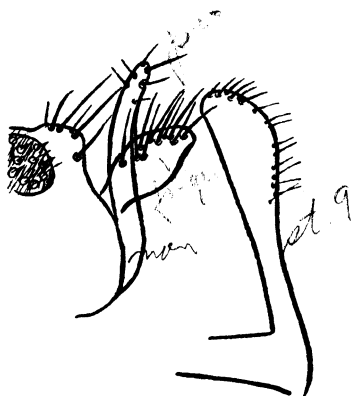


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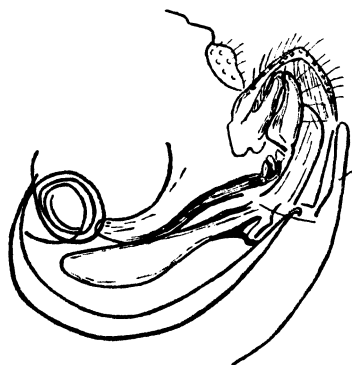
PLATE V

FIGURE

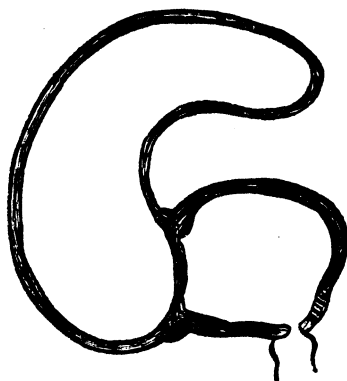
16. *Xenopsylla cheopis* (Rothschild), male genitalia.
17. *Pulex irritans* Linnaeus, male genitalia.
18. *Xenopsylla cheopis* (Rothschild), receptaculum seminis.
19. *Pulex irritans* Linnaeus, receptaculum seminis.
20. *Xenopsylla cheopis* (Rothschild), head of male.
21. *Pulex irritans* Linnaeus, head of female.



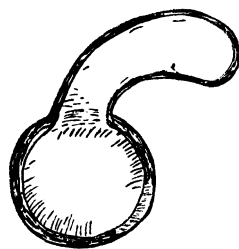
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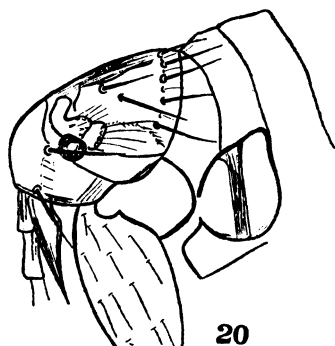
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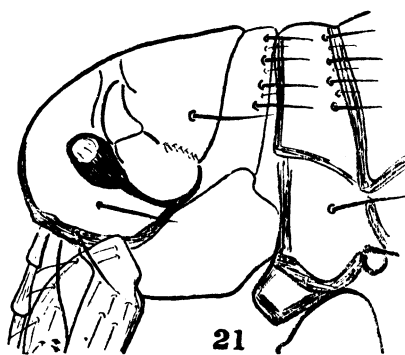
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PLATE VI

FIGURE

22. *Ctenocephalides felis* (Bouché), head of female.
23. Idem, head of male.
24. *Ctenocephalides canis* (Curtis), head of male.
25. *Ctenocephalides felis* (Bouché), male genitalia.
26. *Ctenocephalides canis* (Curtis), head of female.
27. Idem, receptaculum seminis.

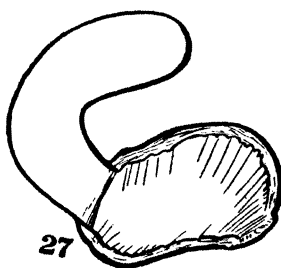
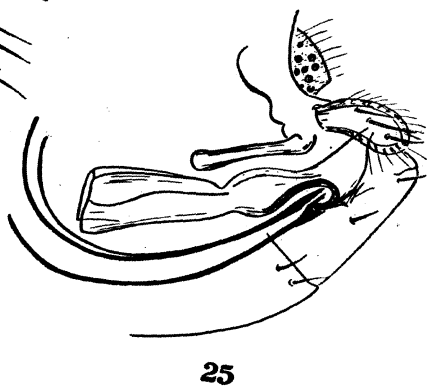
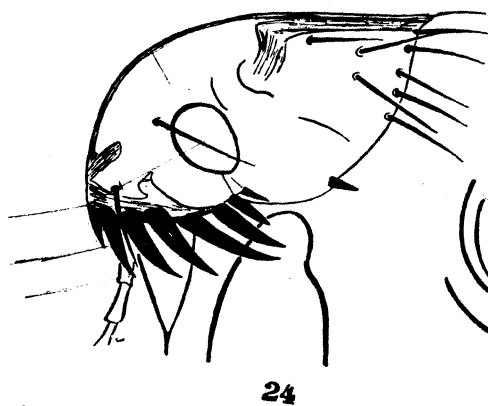
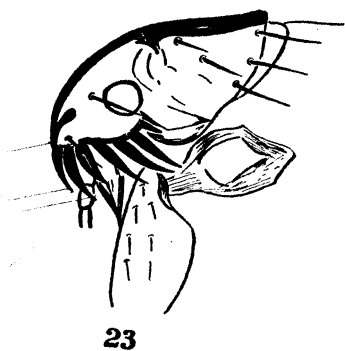
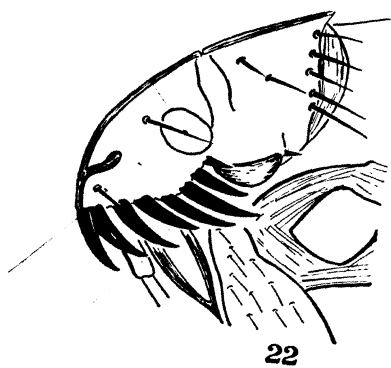


PLATE VII

FIGURE

28. *Rhopalopsyllus gwyni* C. Fox, head of male.
29. *Odontopsyllus multispinosus* Baker, head of female.
30. Idem, male genitalia.
31. Idem, receptaculum seminis and sternite VII.
32. *Rhopalopsyllus gwyni* C. Fox, male genitalia.
33. Idem, receptaculum seminis and sternite VII.

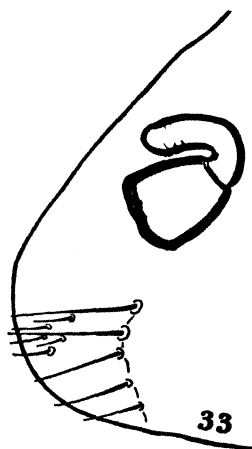
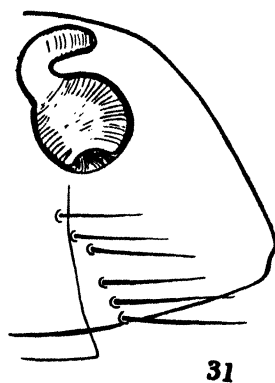
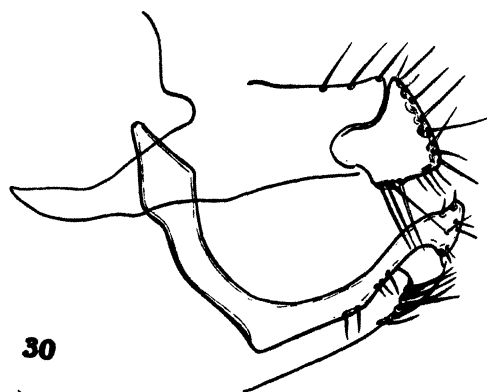
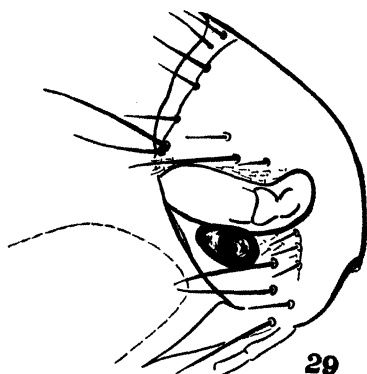
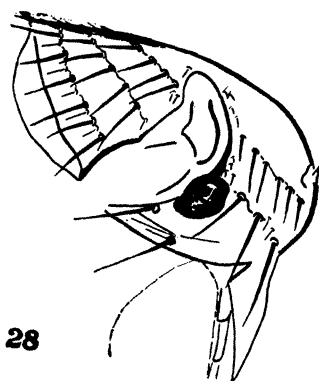


PLATE VIII

FIGURE

34. *Trichopsylla floridensis* I. Fox, head of female.
35. *Trichopsylla lotoris* Stewart, head of female.
36. *Trichopsylla floridensis* I. Fox, metepimeron.
37. *Trichopsylla lotoris* Stewart, metepimeron.
38. Idem, receptaculum seminis.
39. *Trichopsylla floridensis* I. Fox, male genitalia.

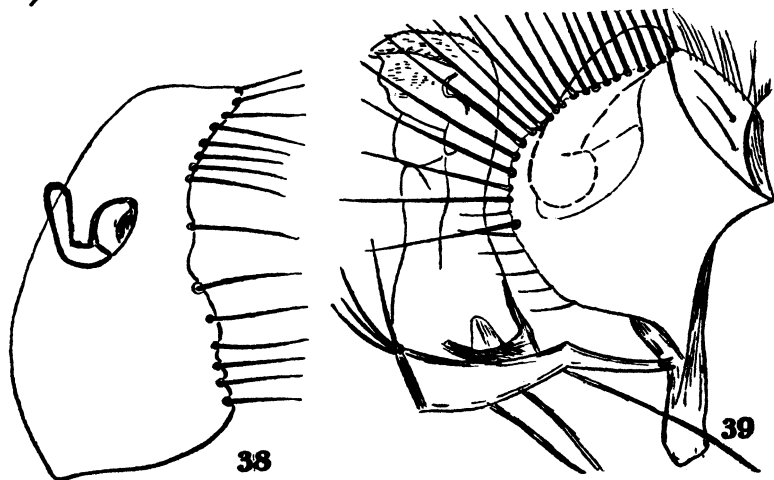
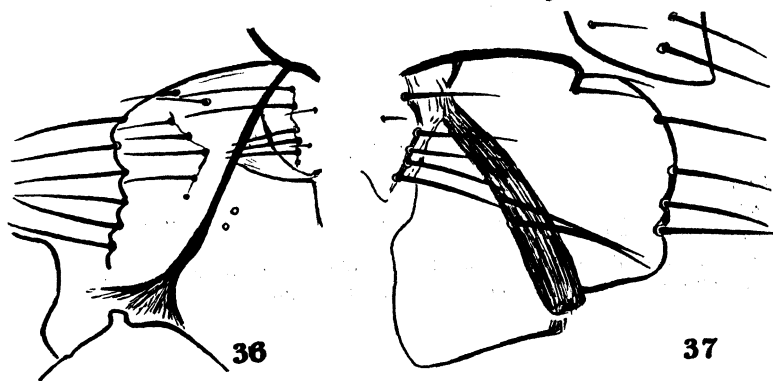
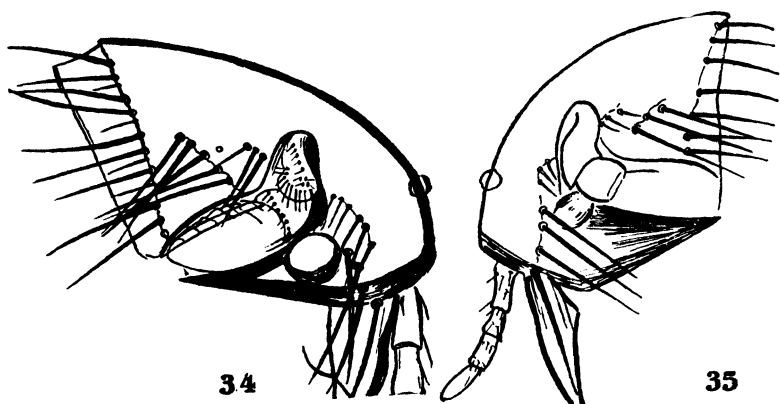


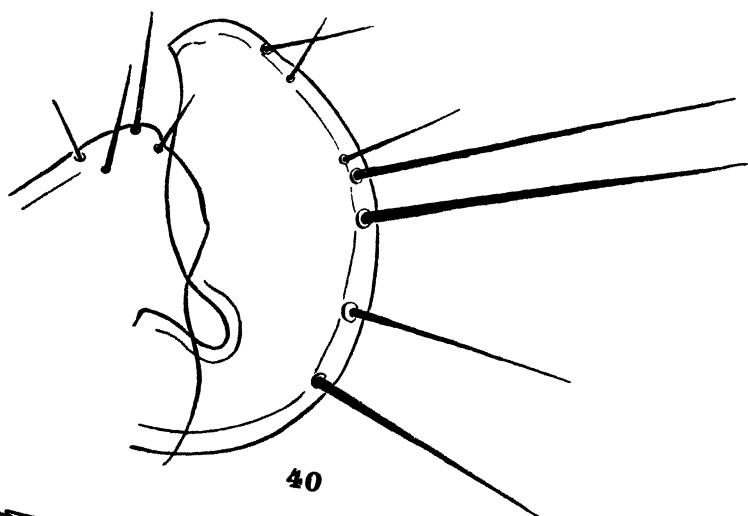
PLATE IX

FIGURE

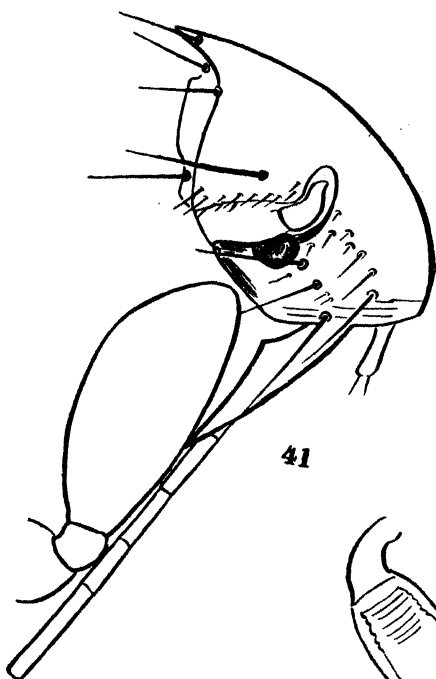
40. *Oropsylla arctomys* (Baker), movable finger and process of clasper.
41. Idem, head of female.
42. *Trichopsylla litoris* Stewart, movable finger and manubrium.
43. *Oropsylla arctomys* (Baker), receptaculum seminis.

Plates

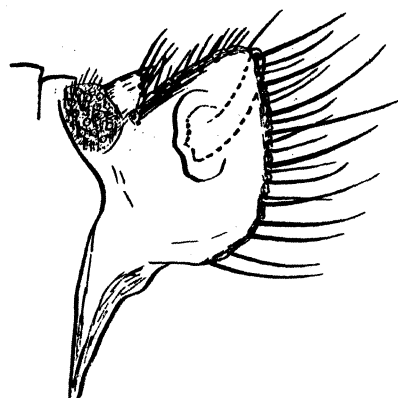
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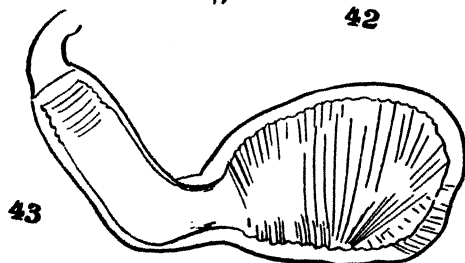
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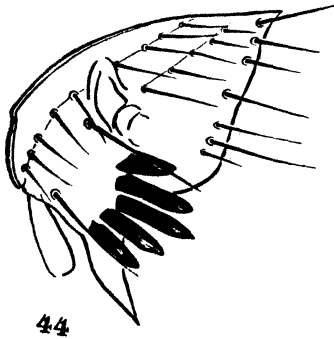


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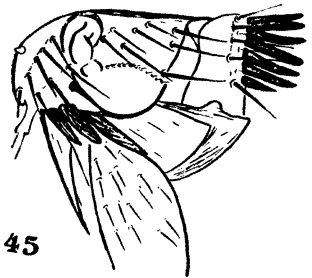
PLATE X

FIGURE

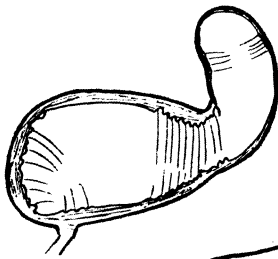
44. *Rectofrontia fraterna* (Baker), head of female.
45. *Ctenophthalmus pseudagyrtis* Baker, head of male.
46. Idem, receptaculum seminis.
47. *Rectofrontia fraterna* (Baker), male genitalia.
48. Idem, receptaculum seminis.
49. *Ctenophthalmus pseudagyrtis*, movable finger and process of clasper.



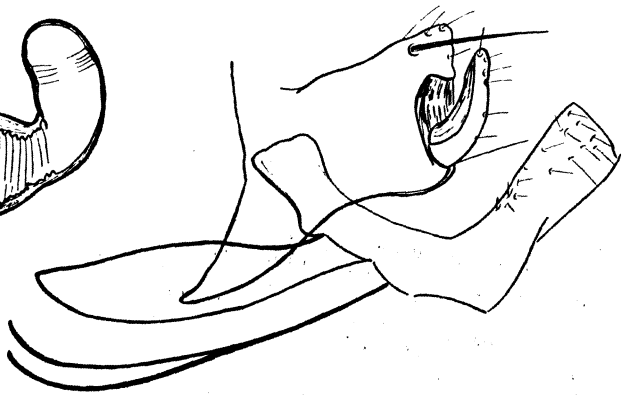
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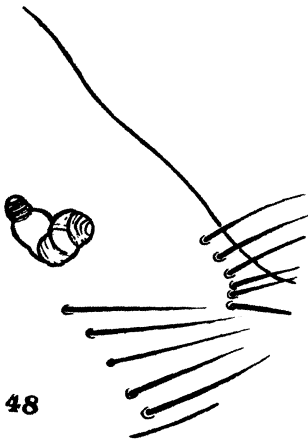
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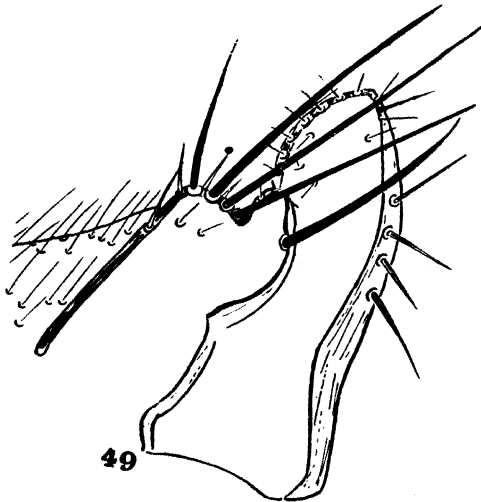
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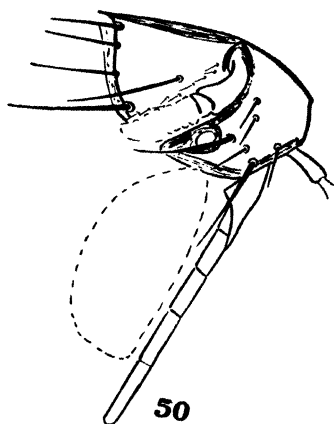
PLATE XI

FIGURE

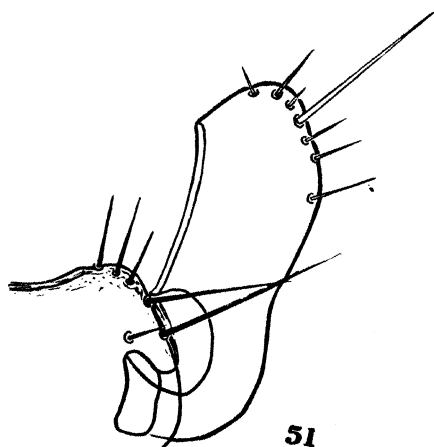
50. *Opisocrostis bruneri* (Baker), head of male.
51. Idem, movable finger and process of the clasper.
52. *Foxella ignotus* (Baker), receptaculum seminis.
53. *Opisocrostis bruneri* (Baker), receptaculum seminis.
54. *Foxella ignotus* (Baker), movable finger and process of clasper.
55. Idem, head of male.

Plates

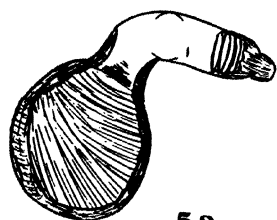
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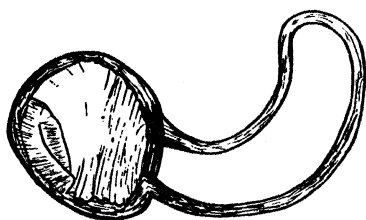
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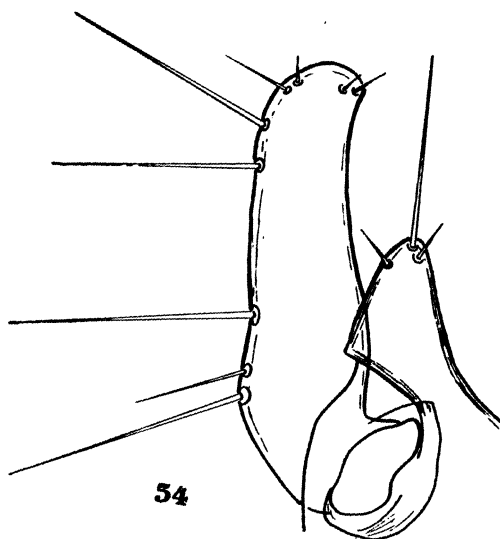
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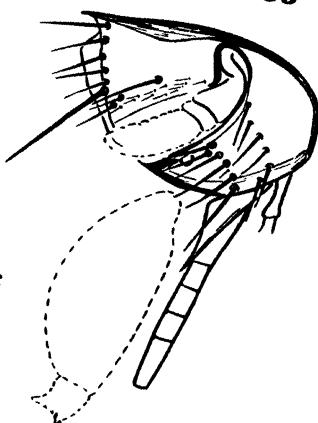
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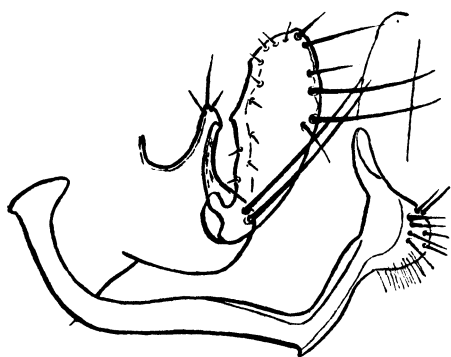


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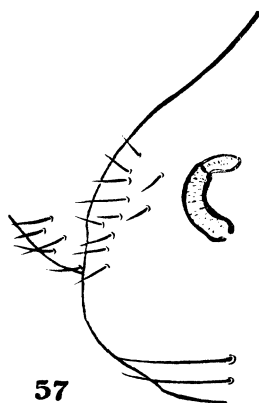
PLATE XII

FIGURE

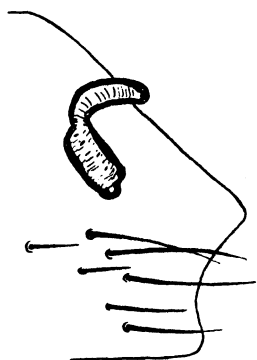
56. *Ceratophyllus celsus* Jordan, male genitalia.
57. Idem, receptaculum seminis and sternite VII.
58. *Ceratophyllus diffinis* Jordan, receptaculum seminis and sternite VII.
59. Idem, male genitalia.
60. *Ceratophyllus idius* Jordan and Rothschild, receptaculum seminis and sternite VII.
61. Idem, male genitalia.



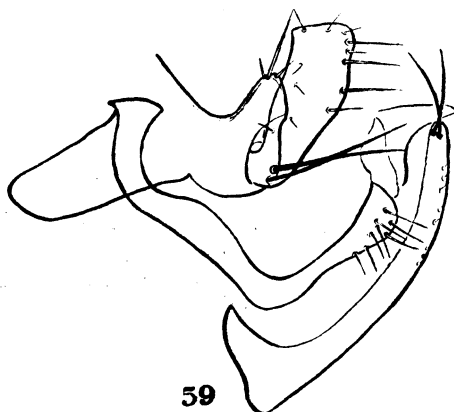
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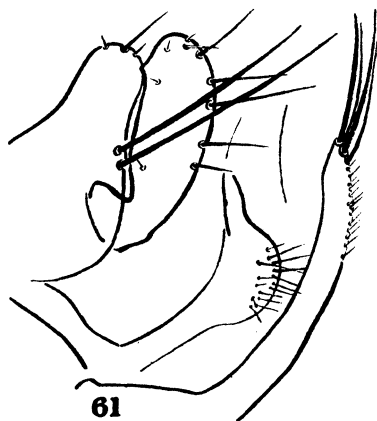
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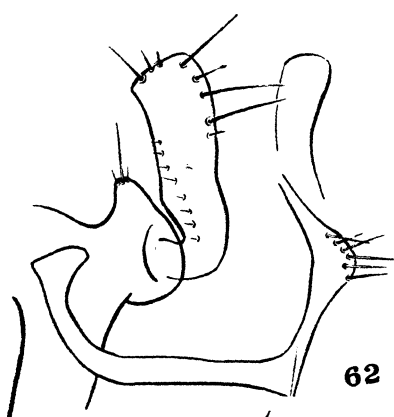


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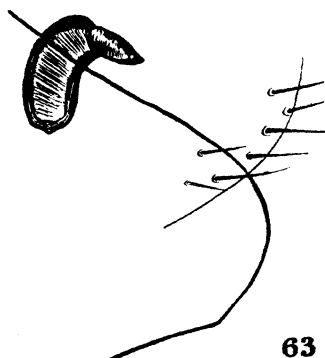
PLATE XIII

FIGURE

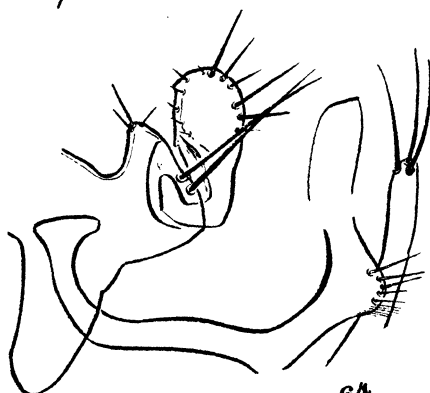
- 62. *Ceratophyllus gallinae* (Schrank), male genitalia.
- 63. Idem, receptaculum seminis and sternite VII.
- 64. *Ceratophyllus niger* C. Fox, male genitalia.
- 65. Idem, receptaculum seminis and sternite IX.
- 66. *Ceratophyllus riparius* Jordan and Rothschild, sternite IX.
- 67. Idem, male genitalia.



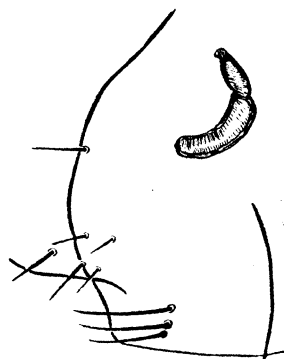
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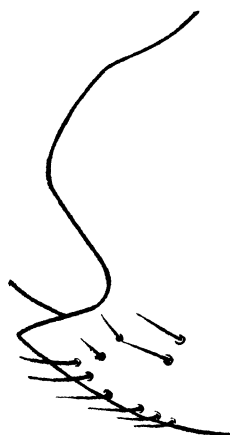
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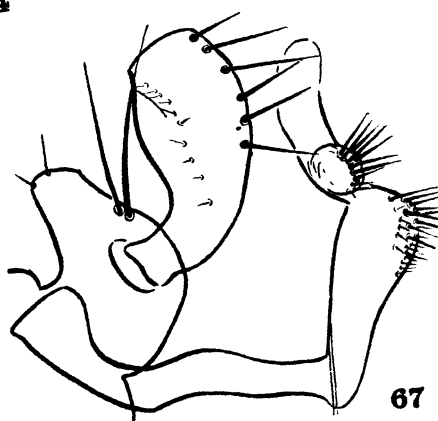
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66



67

PLATE XIV

FIGURE

68. *Opisodasys pseudarctomys* (Baker), head of male.
69. Idem, posterior end of female abdomen.
70. *Ceratophyllus swansoni* Liu, male genitalia.
71. Idem, receptaculum seminis and sternite VII.
72. *Opisodasys pseudarctomys* (Baker), male genitalia.
73. *Ceratophyllus swansoni* Liu, head of male.

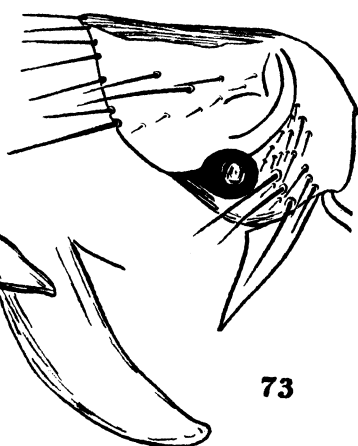
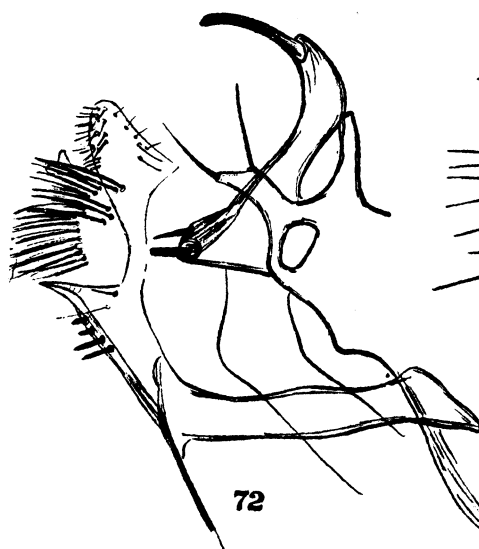
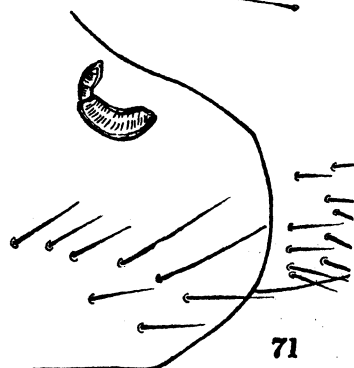
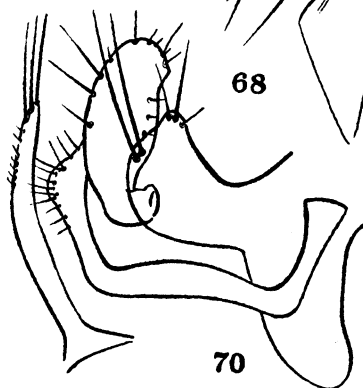
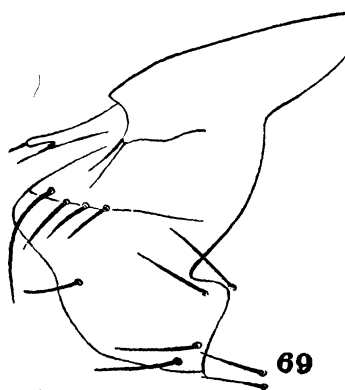
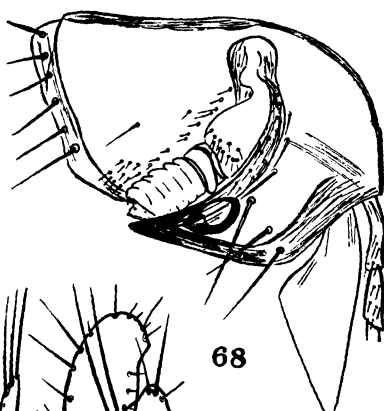
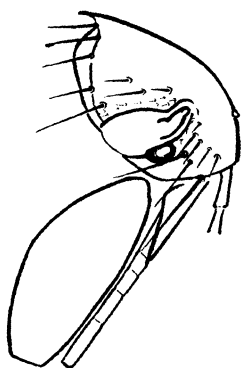


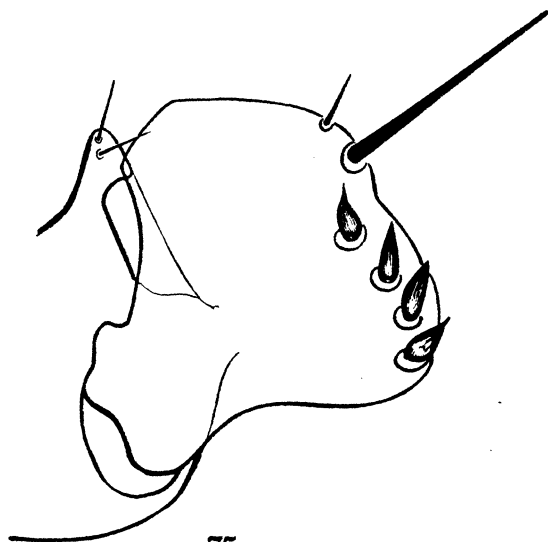
PLATE XV

FIGURE

- 74. *Orchopeas leucopus* (Baker), head of male.
- 75. *Orchopeas wickhami* (Baker), movable finger and process of clasper.
- 76. Idem, receptaculum seminis and sternite VII.
- 77. Idem, head of male.
- 78. *Orchopeas leucopus* (Baker), movable finger and process of clasper.



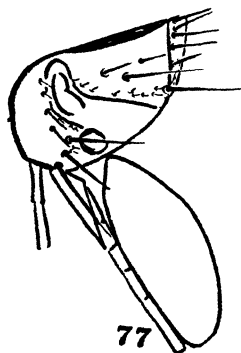
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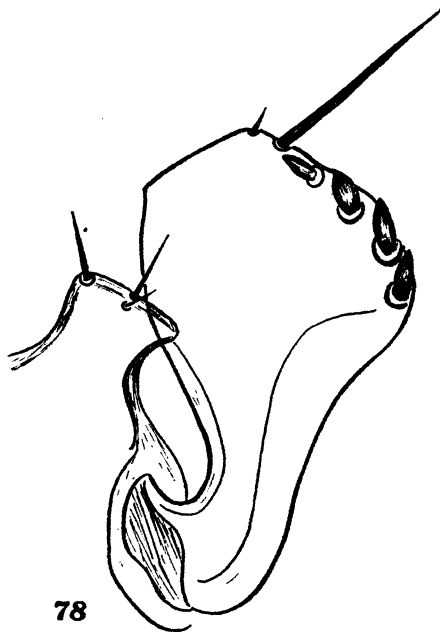
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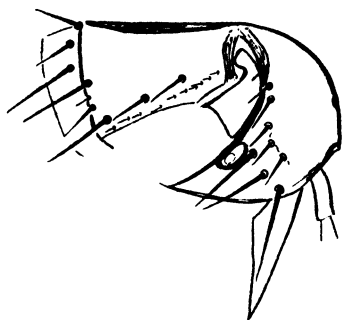


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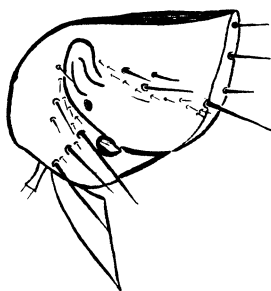
PLATE XVI

FIGURE

- 79. *Orchopeas serdentatus pennsylvanicus* (Jordan), head of male.
- 80. *Orchopeas caedens* (Jordan), head of male.
- 81. Idem, receptaculum seminis and sternite VII.
- 82. Idem, male genitalia.
- 83. *Orchopeas serdentatus* (Baker), receptaculum seminis and sternite VII.
- 84. Idem, movable finger and process of clasper.



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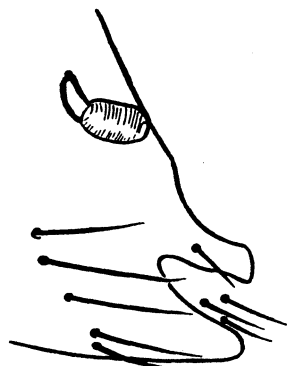
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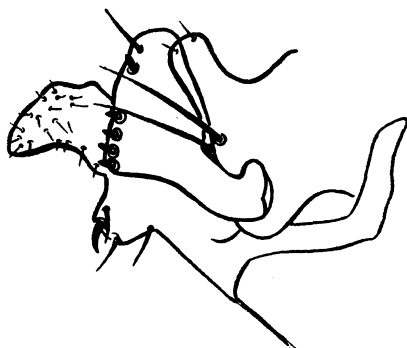
81



82



83



84

PLATE XVII

FIGURE

85. *Megabothris asio* (Baker), male genitalia.
86. Idem, receptaculum seminis and sternite VII.
87. *Megabothris quirini* (Rothschild), male genitalia.
88. *Megabothris asio* (Baker), head of female.
89. Idem, head of female showing different arrangement of postantennal bristles.

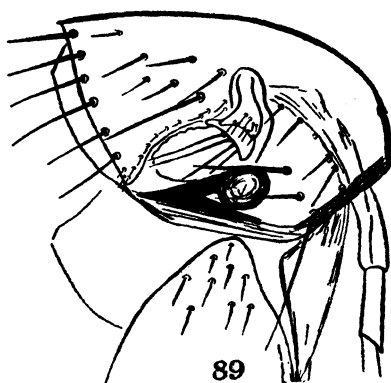
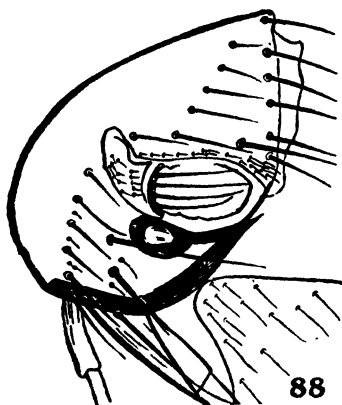
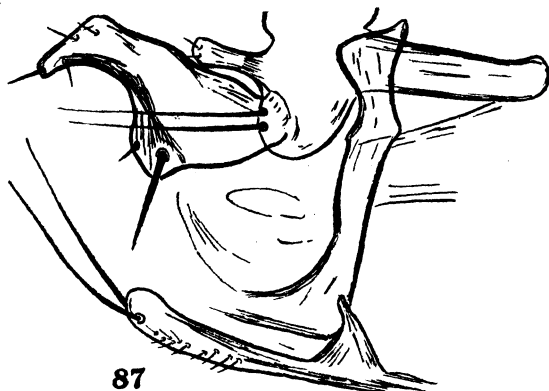
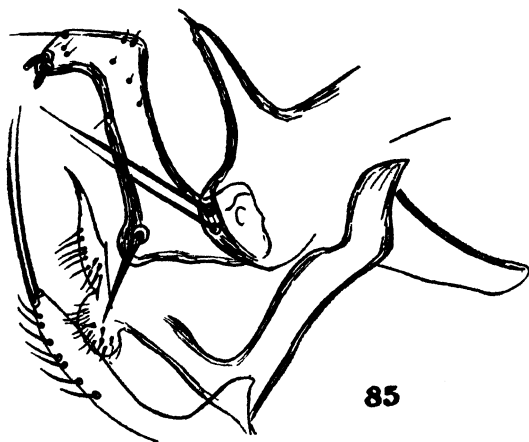
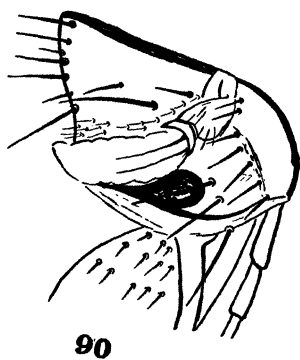


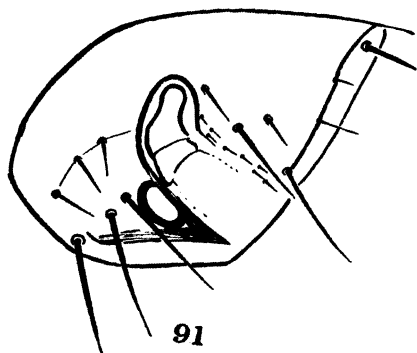
PLATE XVIII

FIGURE

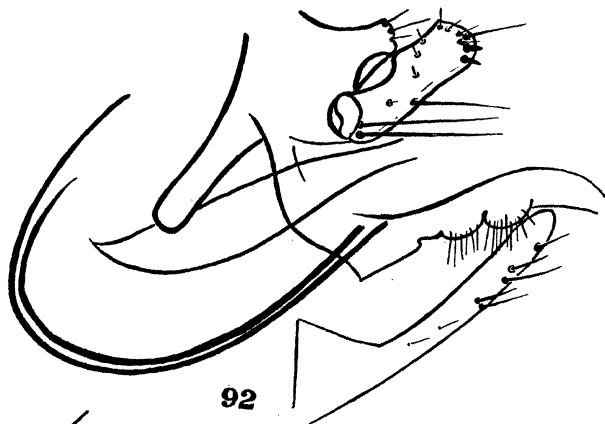
90. *Megabothris quirini* (Rothschild), head of male.
91. *Megabothris acerbus* (Jordan), head of female.
92. Idem, male genitalia.
93. Idem, receptaculum seminis and sternite VII.
94. *Megabothris quirini* (Rothschild), receptaculum seminis and sternite VII.



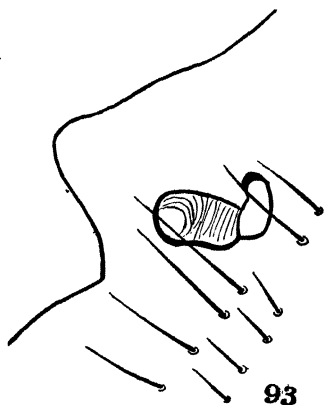
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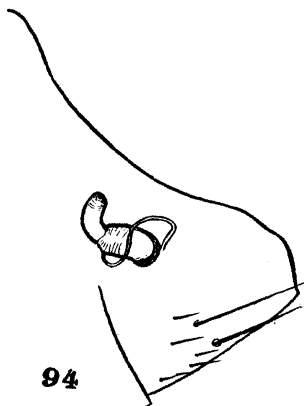
91



92



93



94

PLATE XIX

FIGURE

- 95. *Megabothris vison* (Baker), head of male.
- 96. *Megabothris wagneri* (Baker), receptaculum seminis.
- 97. Idem, movable finger and process of clasper.
- 98. *Megabothris vison* (Baker), receptaculum seminis and sternite VII.
- 99. Idem, male genitalia.

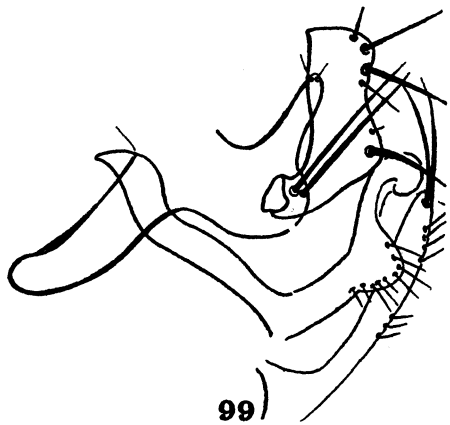
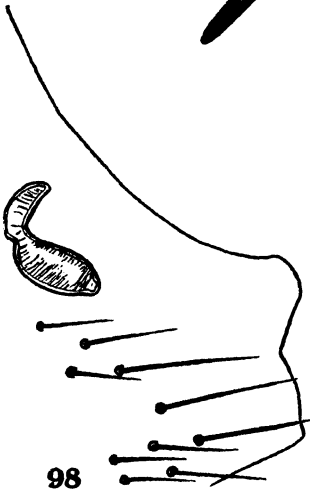
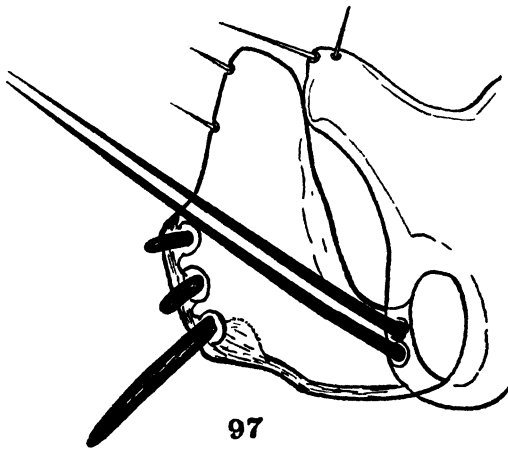
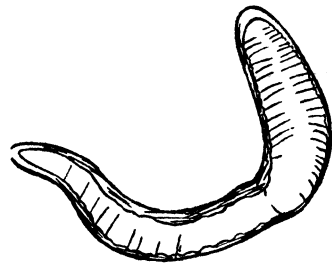
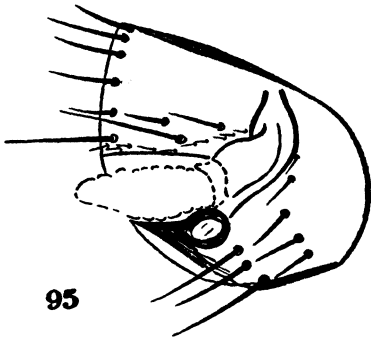


PLATE XX*Nosopsyllus fasciatus* (Bosc)**FIGURE**

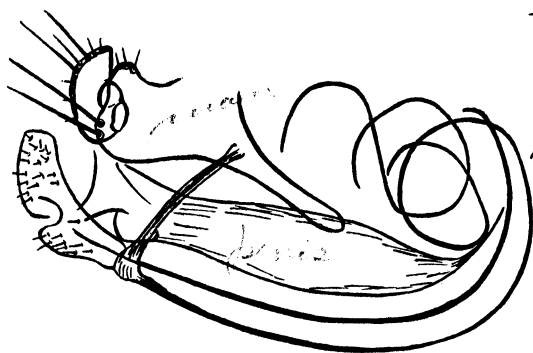
100. Male genitalia.

101. Head of male.

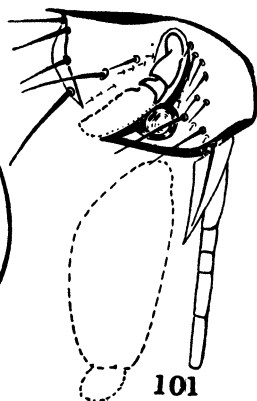
102. Movable finger and process of clasper.

103. Head of female.

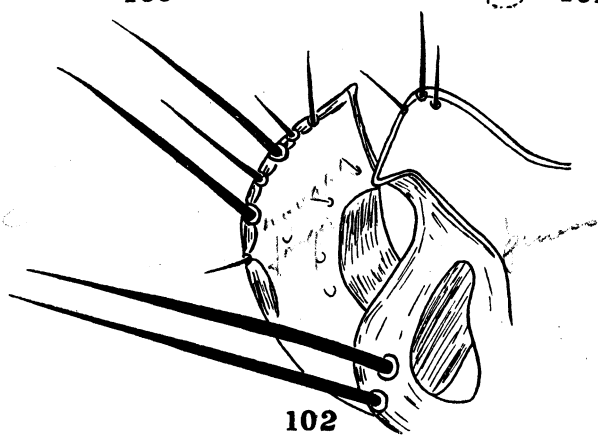
104. Receptaculum seminis and sternite VII.



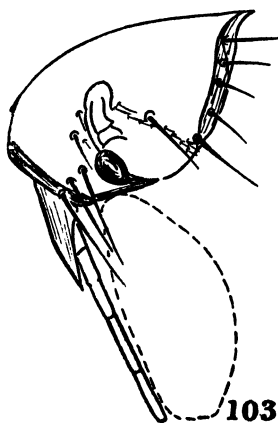
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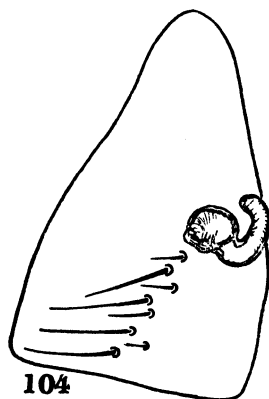
101



102



103



104

PLATE XXI

FIGURE

105. *Atyphloceras bishopi* Jordan, movable finger, process of clasper, and sternite IX (after Jordan).
106. *Hystrihopsylla gigas tahavua* Jordan, male, posterior arm of sternite IX (after Jordan).
107. Idem, receptacula seminis and sternite VII.
108. Idem, head of female.
109. *Atyphloceras bishopi* Jordan, receptacula seminis and sternite VII (after Jordan).

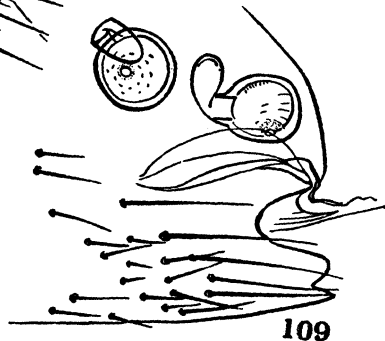
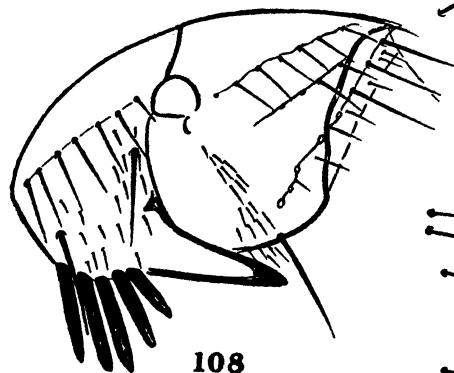
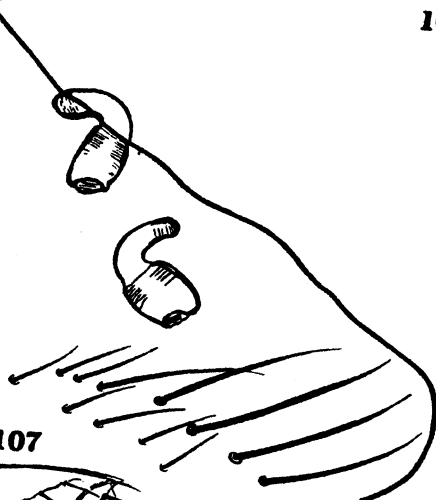
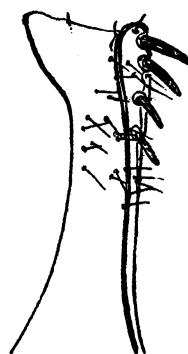
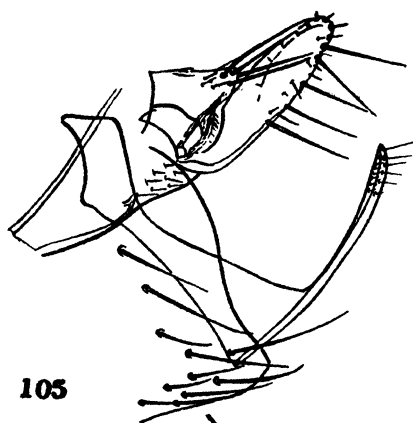


PLATE XXII

FIGURE

110. *Peromyscopsylla catatina* Jordan, sternite VII of female.
111. *Peromyscopsylla scotti* I. Fox, genal ctenidium of female.
112. Idem, movable finger and process of clasper.
113. Idem, receptaculum seminis and sternite VII.
114. *Peromyscopsylla catatina* Jordan, genal ctenidium of male.
115. Idem, male genitalia.

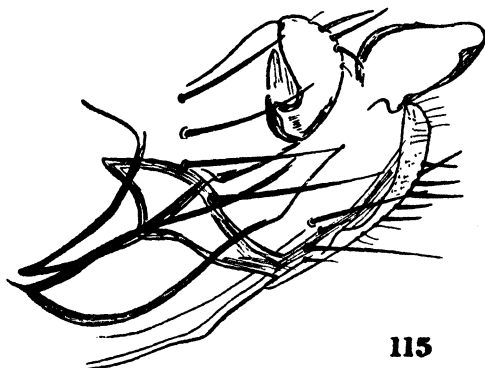
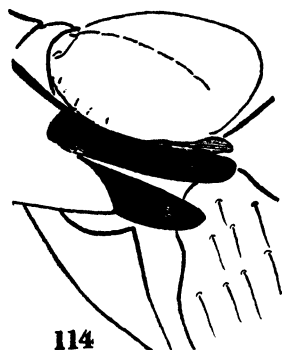
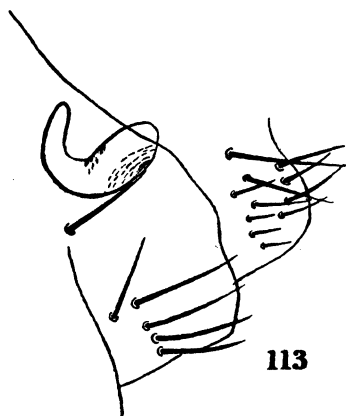
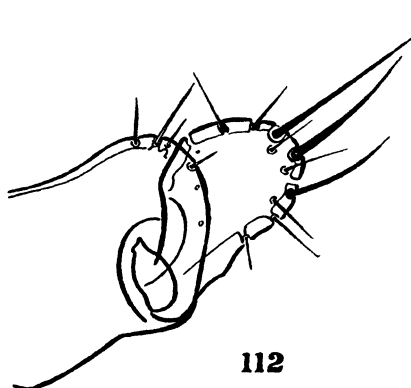
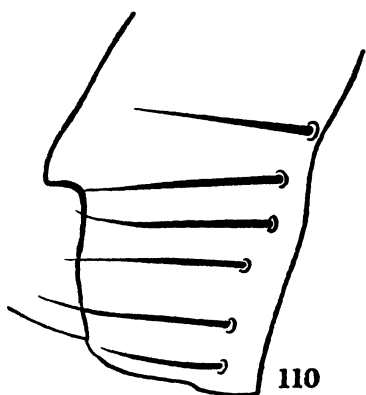


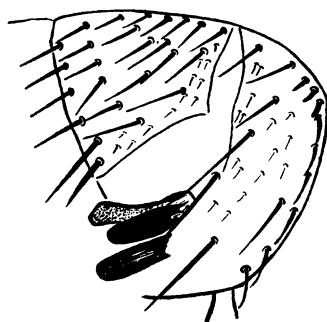
PLATE XXIII

FIGURE

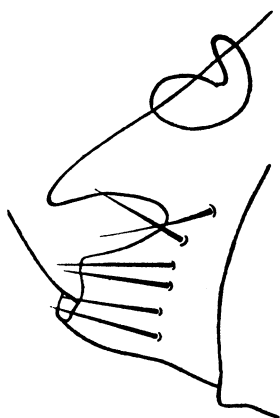
- 116. *Nearctopsylla genalis* (Baker), head of female.
- 117. *Peromyscopsylla hesperomys* (Baker), head of female.
- 118. Idem, receptaculum seminis and sternite VII.
- 119. Idem, male genitalia.
- 120. *Nearctopsylla genalis* (Baker), receptaculum seminis and sternite VII.
- 121. Idem, male genitalia.



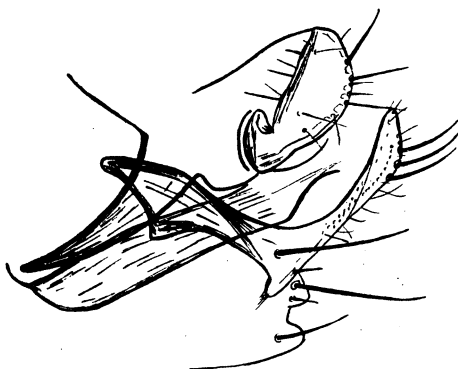
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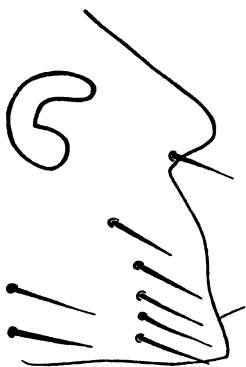
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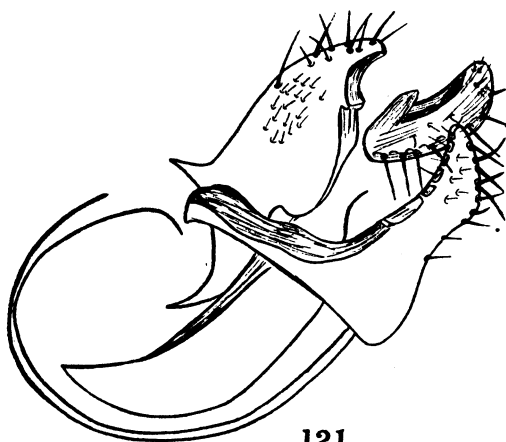
118



119



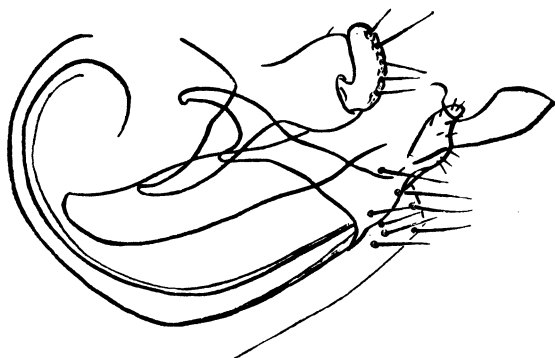
120



121

PLATE XXIV*Ctenopsyllus segnis* (Schönherr)**FIGURE**

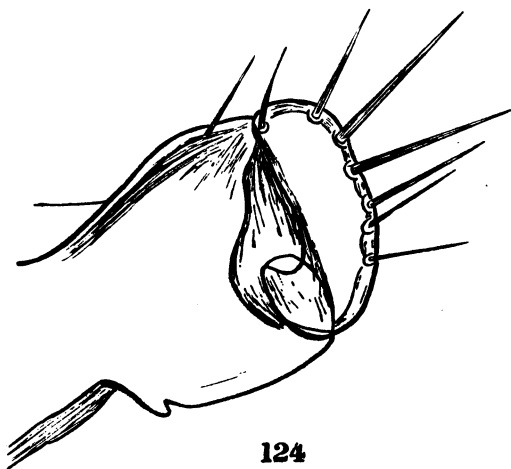
- 122. Male genitalia.
- 123. Hind tibia of female.
- 124. Movable finger and process of clasper.
- 125. Head of male.
- 126. Receptaculum seminis and sternite VII.



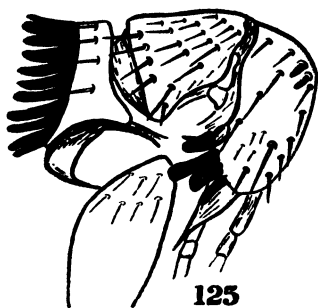
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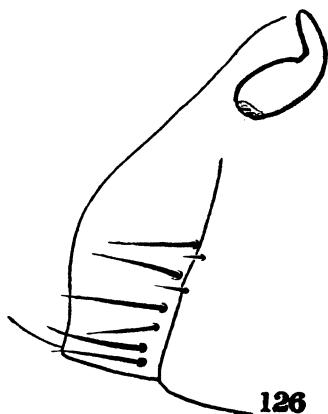
123



124



125

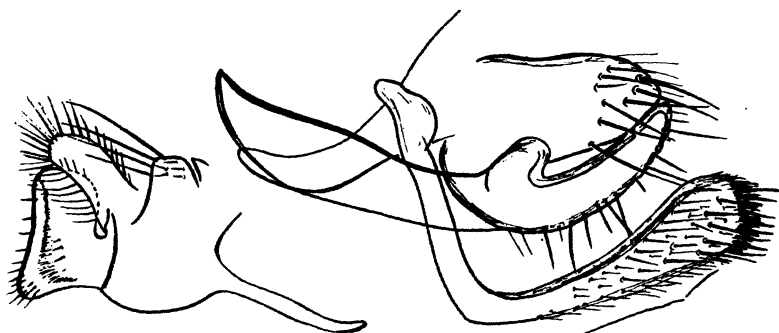


126

PLATE XXV

FIGURE

- 127. *Tamiphila grandis* (Rothschild), movable finger, process of clasper, and manubrium.
- 128. *Stenoponia americana* (Baker), male genitalia.
- 129. *Tamiphila grandis* (Rothschild), receptaculum seminis and sternite VII.
- 130. *Stenoponia americana* (Baker), receptaculum seminis and sternite VII.
- 131. *Tamiphila grandis* (Rothschild), head of female.
- 132. *Stenoponia americana* (Baker), head of female.

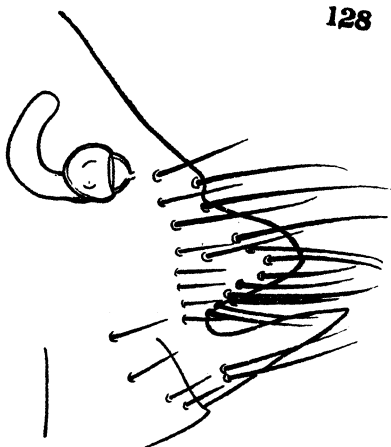


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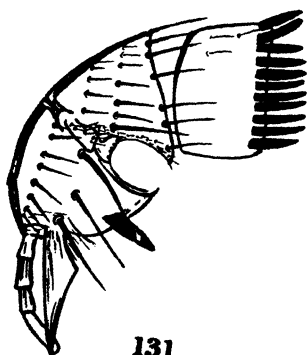
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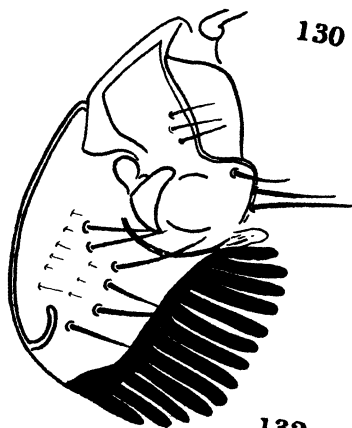
129



130



131

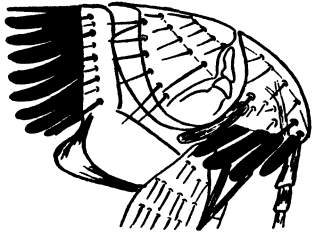


132

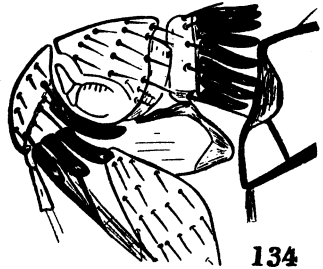
PLATE XXVI

FIGURE

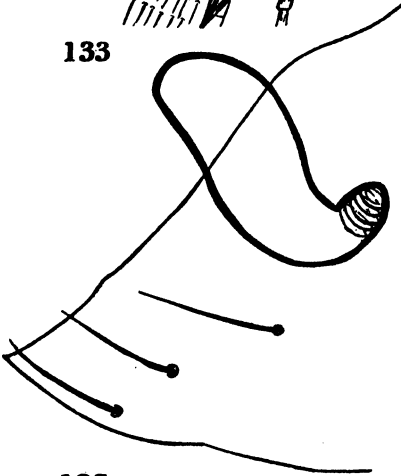
- 133. *Doratopsylla curvata* Rothschild, head of female.
- 134. *Doratopsylla blarinae* C. Fox, head of female.
- 135. Idem, receptaculum seminis and sternite VII.
- 136. *Doratopsylla curvata* Rothschild, receptaculum seminis and sternite VII.
- 137. *Doratopsylla blarinae* C. Fox, movable finger and process of clasper.
- 138. *Doratopsylla curvata* Rothschild, movable finger and process of clasper.



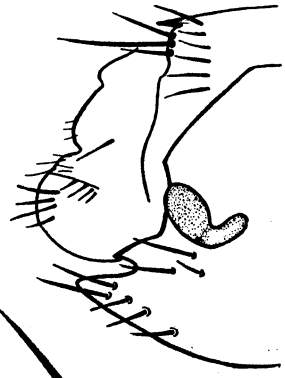
133



134



135



136



137



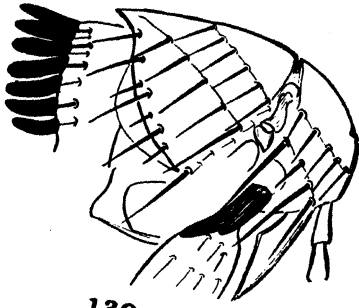
138

PLATE XXVII

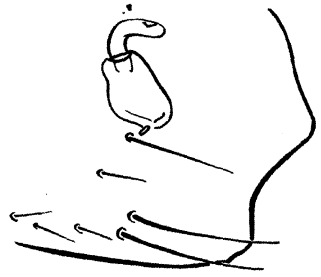
FIGURE

139. *Epitedia wenmanni* (Rothschild), head of female.
140. *Epitedia testor* (Rothschild), receptaculum seminis and sternite VII (after Rothschild).
141. *Epitedia faceta* (Rothschild), male genitalia (after Rothschild).
142. *Epitedia wenmanni* (Rothschild), receptaculum seminis and sternite VII.
143. *Epitedia faceta* (Rothschild), receptaculum seminis and sternite VII (after Rothschild).
144. *Epitedia wenmanni* (Rothschild), male genitalia.

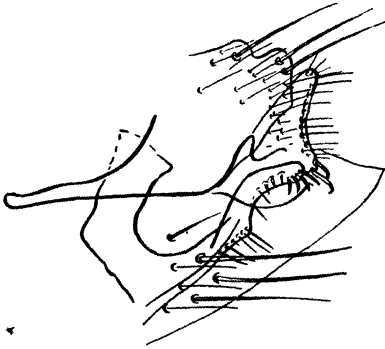
Plates



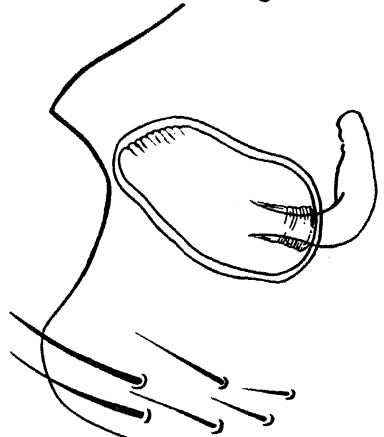
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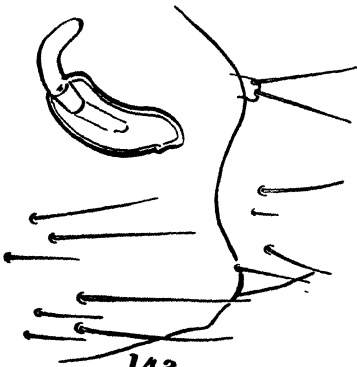
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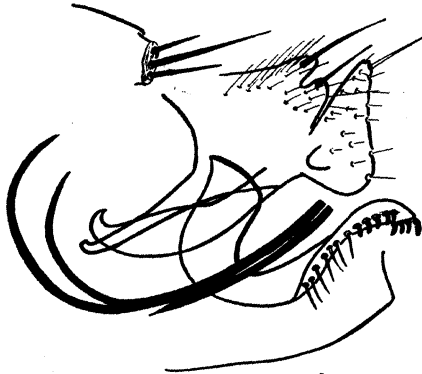
141



142



143

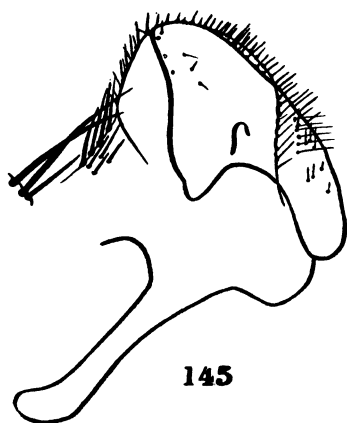


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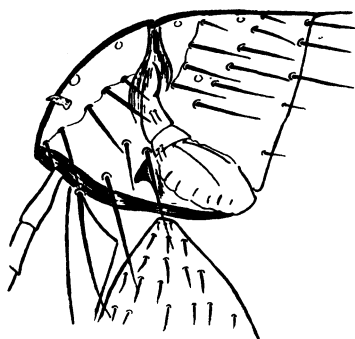
PLATE XXVIII

FIGURE

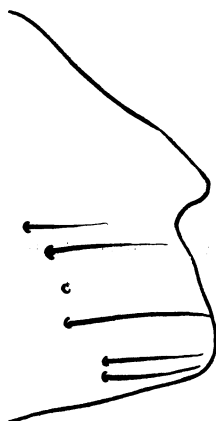
- 145. *Catallagia onaga* Jordan, movable finger, clasper, and manubrium.
- 146. *Catallagia borealis* Ewing, head of female.
- 147. *Idem*, sternite VII.
- 148. *Conorhinopsylla stanfordi* Stewart, head of female.
- 149. *Idem*, receptaculum seminis and sternite VII.
- 150. *Idem*, male genitalia.



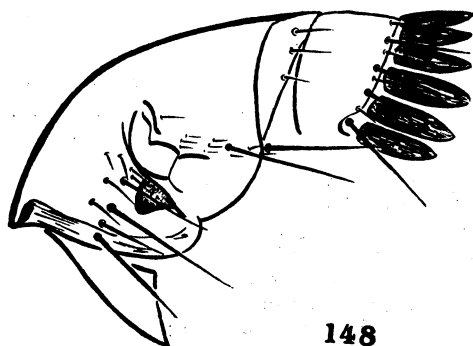
145



146



147



148



149



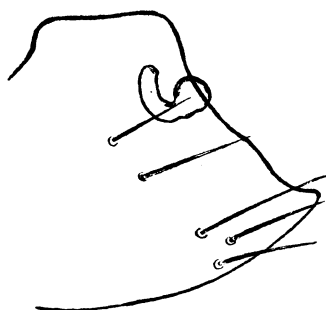
150

PLATE XXIX

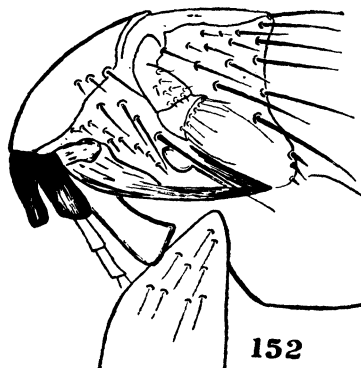
Myodopsylla insignis (Rothschild)

FIGURE

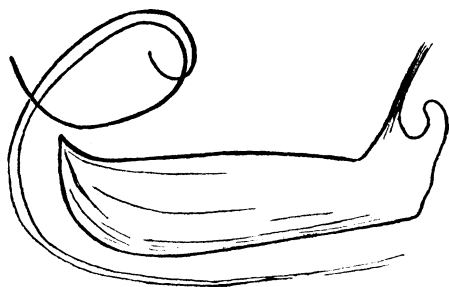
- 151. Receptaculum seminis and sternite VII.
- 152. Head of male.
- 153. Penis and spring.
- 154. Sternite IX of male.
- 155. Paramere of penis, viewed from one side (only one-half of the structure showing).
- 156. Movable finger and clasper.



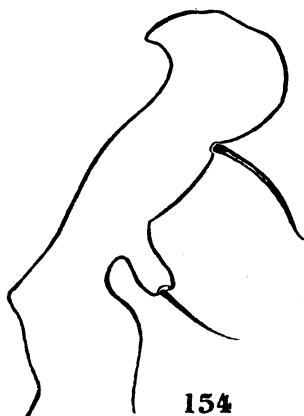
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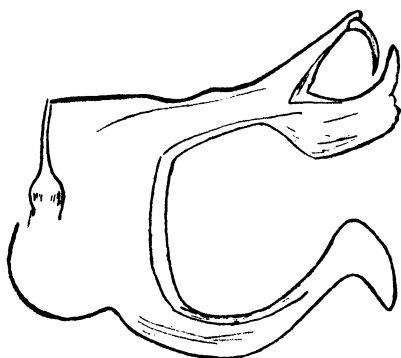
152



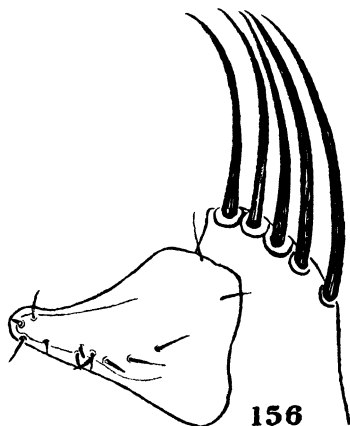
153



154



155



156

PLATE XXX

Eptescopysylla chapini (Jordan)

FIGURE

- 157. Male genitalia.
- 158. Receptaculum seminis and sternite VII.
- 159. Head of female.
- 160. Head of male.
- 161. Receptaculum seminis.

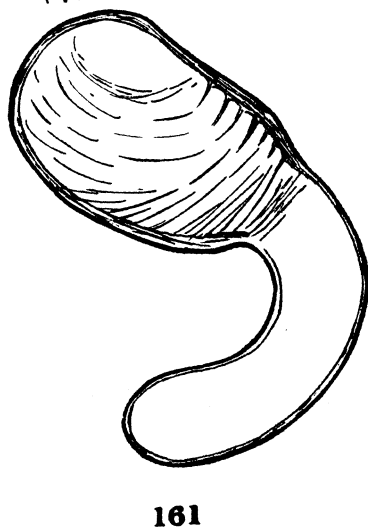
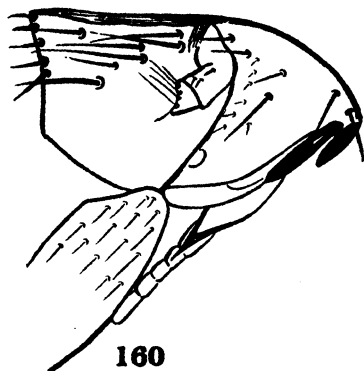
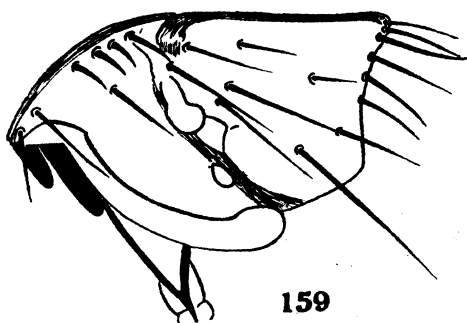
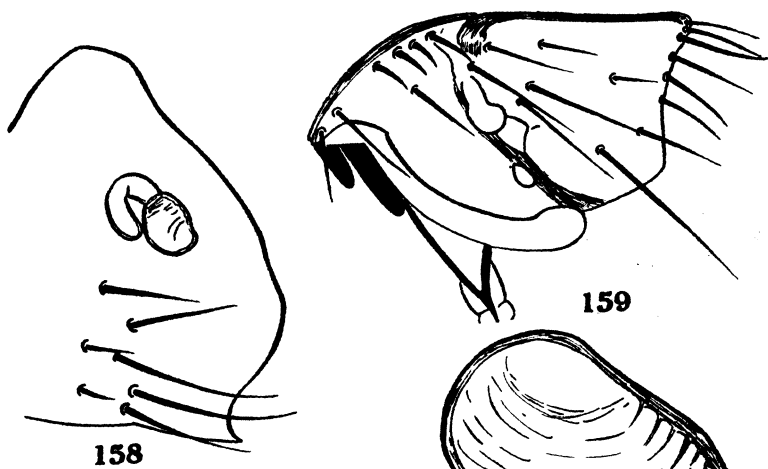
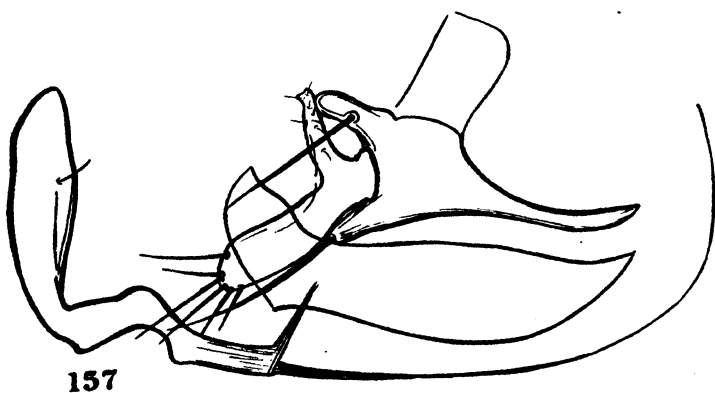
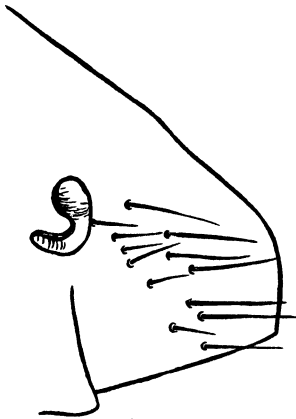


PLATE XXXI*Sternopsylla texana* C. Fox**FIGURE**

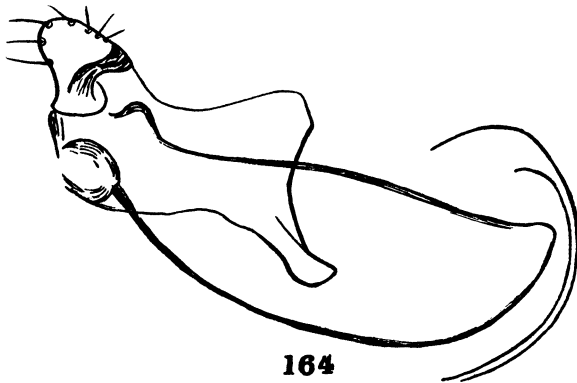
- 162.** Receptaculum seminis and sternite VII.
- 163.** Posterior end of male abdomen.
- 164.** Male genitalia.
- 165.** Head of male.
- 166.** Receptaculum seminis.



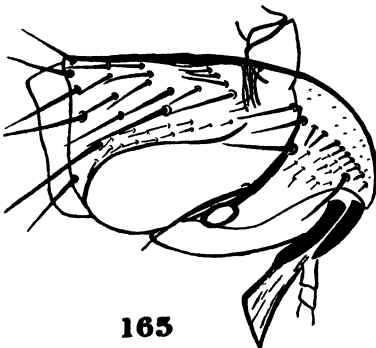
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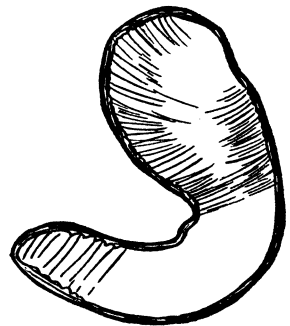
163



164



165



166