



This work is licensed under the Creative Commons Attribution-Noncommercial-Share Alike 3.0 United States License. To view a copy of this license, visit <http://creativecommons.org/licenses/by-nc-sa/3.0/us/> or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California, 94105, USA.

LIST OF FIGURES

Male genitalia

Figs. occur on page
no. in brackets.

- Fig. 1. Generalized diagram of aedoeagus. (87)
Fig. 2. Cross section of vesica of *Lampromicra senator* showing convoluted duct. (87)
Fig. 3. Same enlarged. (87)
Figs. 4-7. *Fokkeria producta* ; 4, pygophore, dorsal view; 5, clasper; 6, aedoeagus, right view; 7, vesica, dorsal view. (88)
Figs. 8-11. *Eupychodera corrugata* ; 8, pygophore, dorsal view; 9, clasper; 10, aedoeagus, right view; 11, conjunctival appendages, apical view. (88)
Fig. 12. *Eupychodera corrugata* ; vesica, lateral view. (89)
Figs. 13-17. *Vanduzeeina balli* ; 13, pygophore, dorsal view; 14, clasper; 15, aedoeagus (unexpanded) left view; 16, conjunctival appendages, left view; 17, vesica, ventral view. (89)
Figs. 18-20. *Phimodera binotata* ; 18, pygophore, dorsal view; 19, clasper; 20, theca, right view. (89)
Figs. 21-22. *Phimodera binotata* ; 21, aedoeagus, apical view; 22, vesica, left view. (90)
Figs. 23-26. *Eurygaster alternata* ; 23, pygophore, dorsal view; 24, clasper; 25, aedoeagus, left view; 26, vesica, right view. (90)
Figs. 27-29. *Camirus moestus* ; 27, pygophore, dorsal view; 28, clasper; 29, aedoeagus, right view. (90)
Figs. 30-31. *Camirus moestus* ; 30, vesica, left view; 31, convoluted duct, ventral view. (91)
Figs. 32-36. *Pachycoris torridus* ; 32, pygophore, dorsal view; 33, apex of pygophoral appendage; 34, clasper; 35, aedoeagus, left view; 36, vesica, left view. (91)
Figs. 37-40. *Chelysomidea guttata* ; 37, pygophore, dorsal view; 38, clasper; 39, aedoeagus, right view; 40, vesica, left view. (91)
Figs. 41-46. *Homaemus aeneifrons* ; 41, pygophore, dorsal view; 42, clasper; 43, aedoeagus, right view; 44, conjunctival appendages, right view; 45, apex of third conjunctival appendage; 46, vesica, lateral view. (92)
Figs. 47-51. *Tetyra antillarum* ; 47, pygophore, dorsal view; 48, clasper; 49, aedoeagus, right view; 50, conjunctival appendages, ventral view; 51, vesica, left view. (93)
Figs. 52-54. *Sphyrocoris obliquus* ; 52, pygophore, dorsal view; 53, clasper; 54, aedoeagus, left view. (93)
Figs. 55-56. *Sphyrocoris obliquus* ; 55, apex of vesica; 56, vesica, right view. (94)
Figs. 57-62. *Stethaulax marmoratus* ; 57, pygophore, dorsal view; 58, clasper; 59, aedoeagus, left view; 60, vesica, dorsal view; 61, vesica, left view. (94)
Figs. 63-67. *Symphylus caribbeanus* ; 63, pygophore, dorsal view; 64, clasper; 65, aedoeagus, left view; 66, median penal lobes, ventral view; 67, vesica, left view. (95)
Figs. 68-70. *Diolcus irroratus* ; 68, pygophore, dorsal view; 69,

- clasper; 70, aedoeagus, right view. (95)
- Figs. 71-72. *Diolcus irroratus* ; 71, aedoeagus, dorsal view; 72, vesica, right view. (96)
- Figs. 73-78. *Acantholomidea porosa* ; 73, pygophore, dorsal view; 74, clasper; 75, aedoeagus, left view; 76, conjunctival appendages, ventral view; 77, apex of vesica; 78, vesica, left view. (96)
- Figs. 79-83. *Augocoris gomesii* ; 79, pygophore, dorsal view; 80, clasper; 81, theca, right view; 82, conjunctival appendages, right view; 83, vesica, left view. (97)
- Figs. 84-89. *Pentatoma rufipes* ; 84, pygophore, dorsal view; 85, ventral margin; 86, clasper; 87, aedoeagus, right view; 88, median penal lobes, ventral view; 89, vesica, left view. (97)
- Figs. 90-95. *Dendrocoris humeralis* ; 90, pygophore, dorsal view; 91, genital plate; 92, pygophore, ventral margin; 93, clasper; 94, aedoeagus, left view; 95, vesica, right view. (98)
- Figs. 96-98. *Piezodorus lituratus* ; 96, pygophore, dorsal view; 97, clasper; 98, aedoeagus, right view. (98)
- Figs. 99-100. *Piezodorus lituratus* ; 99, median penal lobes, ventral view; 100, vesica, left view. (99)
- Figs. 101-105. *Solubea pugnax* ; 101, pygophore, dorsal view; 102, clasper; 103, aedoeagus, right view; 104, median penal lobes, ventral view; 105, vesica, right view. (99)
- Figs. 106-107. *Peribalus limbolarius* ; 106, pygophore, dorsal view; 107, clasper. (99)
- Figs. 108-110. *Peribalus limbolarius* ; 108, aedoeagus, right view; 109, median penal lobes, ventral view; 110, vesica, right view. (100)
- Figs. 111-114. *Trichopepla semivittata* ; 111, pygophore, dorsal view; 112, ventral border; 113, clasper; 114, vesica, left view. (100)
- Figs. 115-116. *Mormidea lugens* ; 115, pygophore, dorsal view; 116, clasper. (100)
- Figs. 117-118. *Mormidea lugens* ; 117, aedoeagus, ventral view; 118, vesica, left view. (101)
- Figs. 119-123. *Brepholoxa heidemanni* ; 119, pygophore, dorsal view; 120, clasper, inner view; 121, clasper, lateral view; 122, aedeagus, right view; 123, vesica, left view. (101)
- Figs. 124-126. *Arvelius albopunctatus* ; 124, pygophore, dorsal view; 125, lateral margin, inner view of left side. (101)
- Figs. 127-128. *Arvelius albopunctatus* ; 127, aedoeagus, left view; 128, vesica, left view. (102)
- Figs. 129-133. *Aelia americana* ; 129, pygophore, dorsal view; 130, clasper; 131, aedoeagus, left view; 132, median penal lobes, dorsal view; 133, vesica, left view. (102)
- Figs. 134-135. *Vulsirea violacea* ; 134, pygophore, dorsal view; 135, clasper. (102)
- Figs. 136-138. *Vusirea violacea* ; 136, aedoeagus, left view; 137, median penal lobes, dorsal view; 138, vesica, left view. (103)
- Figs. 139-143. *Acrosternum pennsylvanicum* ; 139, pygophore, dorsal view; 140, ventral border; 141, clasper; 142, aedoeagus, dorsal view; 143, vesica, left view. (103)
- Figs. 144-145. *Chlorocoris subrugosus* ; 144, pygophore, dorsal view ;

- 145, dorsal margin. (103)
Figs. 146-147. *Chlorocoris subrugosus* ; 146, clasper; 147, vesica, right view. (104)
Figs. 148-153. *Carpocoris remotus* ; 148, pygophore, dorsal view; 149, genital plate; 150, ventral border; 151, clasper; 152, aedoeagus, left view; 153, conjunctival appendages, dorsal view. (104)
Fig. 154. *Carpocoris remotus* ; vesica left view. (105)
Figs. 155-160. *Nezara viridula* ; 155, pygophore, dorsal view; 156, ventral border; 157, clasper; 158, aedoeagus, right view; 159, median penial lobes, ventral view; 160, vesica, right view. (105)
Figs. 161-163. *Thyanta perditor* ; 161, pygophore, dorsal view; 162, clasper; 163, aedoeagus, right view. (105)
Figs. 164-165. *Thyanta perditor* ; 164, median penial lobes, dorsal view; 165, vesica, right view. (106)
Figs. 166-172. *Padaeus viduus* ; 166, pygophore, dorsal view; 167, clasper; 168, theca, left view; 169, aedoeagus, left view; 170, median penial lobes, dorsal view; 171, median penial lobes, ventral view; 172, vesica, right view. (106)
Figs. 173-174. *Proxys punctulatus* ; 173, pygophore, dorsal view; 174, ventral border. (106)
Figs. 175-176. *Proxys punctulatus* ; 175, clasper; 176, aedoeagus, apical view. (107)
Figs. 177-180. *Neottiglossa trilineata* ; 177, pygophore, dorsal view; 178, clasper; 179, aedoeagus, ventral view; 180, vesica, right view.
Figs. 181-184. *Murgantia histrionica* ; 181, pygophore, dorsal view; 182, clasper; 183, aedoeagus, left view; 184, median penial lobes, ventral view. (107)
Fig. 185. *Murgantia histrionica* ; vesica, right view. (108)
Figs. 186-191. *Eysarcoris aeneus* ; 186, pygophore, dorsal view; 187, clasper, lateral view; 188, clasper, inner view; 189, aedoeagus, right view; 190, first conjunctival appendages, ventral view; 191, vesica, left view. (108)
Figs. 192-195. *Eysarcoris intergressus* ; 192, pygophore, dorsal view; 193, clasper; 194, aedoeagus, right view; 195, conjunctival appendages, dorsal view. (108)
Fig. 196. *Eysarcoris intergressus* ; vesica, left view. (109)
Figs. 197-200. *Cosmopepla bimaculata* ; 197, pygophore, dorsal view; 198, clasper; 199, aedoeagus, left view; 200, vesica, right view. (109)
Figs. 201-203. *Rhytidolomia senilis* ; 201, pygophore, dorsal view; 202, clasper; 203, aedoeagus, right view. (109)
Figs. 204-205. *Rhytidolomia senilis* ; 204, aedoeagus, lateral view; 205, vesica, right view. (110)
Figs. 206-209. *Rhytidolomia viridicata* ; 206, pygophore, dorsal view; 207, clasper, inner view; 208, clasper, lateral view; 209, aedoeagus, left view. (110)
Figs. 210-214. *Rhytidolomia saucia* ; 210, ventral border of pygophore; 211, pygophore, dorsal view; 212, clasper; 213, aedoeagus, left view; 214, median penial lobes, ventral view. (110)
Figs. 215-216. *Chlorochroa ligata* ; 215, pygophore, dorsal view; 216,

- clasper. (111)
- Figs. 217-218. *Chlorochroa uhleri* ; 217, pygophore, dorsal view; 218, clasper. (111)
- Fig. 219. *Chlorochroa sayi* ; clasper. (111)
- Figs. 220-223. *Banasa dimidiata* ; 220, pygophore, dorsal view; 221, clasper; 222, aedoeagus, left view; 223, vesica, left view.
- Figs. 224-229. *Loxa flavicollis* ; 224, pygophore, dorsal view; 225, ventral border; 226, clasper; 227, aedoeagus, right view; 228, aedoeagus, ventral view; 229, vesica, left view. (112)
- Figs. 230-231. *Meneclis insertus* ; 230, pygophore, dorsal view; 231, ventral border. (112)
- Figs. 232-235. *Meneclis insertus* ; 232, clasper; 233, aedoeagus, left view; 234, thecal processes, dorsal view; 235, median penal lobes, ventral view; 236, vesica, right view. (113)
- Figs. 237-239. *Coenus delius* ; 237, pygophore, dorsal view; 238, clasper; 239, aedoeagus, left view. (113)
- Fig. 240. *Coenus delius* ; vesica left view. (114)
- Figs. 241-245. *Hymenarcys nervosa* ; 241, pygophore, dorsal view; 242, clasper; 243, aedoeagus, right view; 244, median penal lobes, dorsal view; 245, vesica, right view. (114)
- Figs. 246-247. *Euschistus tristigmus* ; 246, pygophore, dorsal view; 247, clasper. (114)
- Figs. 248-250. *Euschistus tristigmus* ; 248, aedoeagus, right view; 249, median penal lobes, dorsal view; 250, vesica, left view. (115)
- Figs. 251-255. *Prionosoma podopioides* ; 251, pygophore, dorsal view; 252, clasper; 253, aedoeagus, left view; 254, median penal lobes, dorsal view; 255, aedoeagus, right view. (115)
- Fig. 256. *Prionosoma podopioides* ; vesica, left view. (116)
- Figs. 257-261. *Brochymena arborea* ; 257, pygophore, dorsal view; 268, clasper; 259, aedoeagus, left view; 260, median penal lobes, dorsal view; 261, vesica, right view. (116)
- Figs. 262-263. *Brochymena quadripustulata* ; 262, pygophore, dorsal view; 263, ventral margin. (116)
- Figs. 264-267. *Brochymena quadripustulata* ; 264, clasper; 265, aedoeagus, right view; 266, median penal lobes, dorsal view; 267, vesica, left view. (117)
- Figs. 268-272. *Edessa bifida* ; 268, pygophore, dorsal view; 269, genital plate; 270, clasper; 271, aedoeagus, right view; 272, vesica, left view. (117)
- Fig. 273. *Lineostethus clypeatus* ; pygophore, dorsal view. (117)
- Figs. 274-278. *Lineostethus clypeatus* ; 274, pygophore, dorsal view; 275, ventral margin; 276, clasper, inner view; 277, clasper, lateral view; 278, vesica, right view. (118)
- Figs. 279-281. *Sciocoris microphthalmus* ; 279, pygophore, dorsal view; 280, clasper; 281, aedoeagus, dorsal view. (118)
- Figs. 282-283. *Sciocoris microphthalmus* ; 282, median penal lobes, left view; 283, vesica, left view. (119)
- Figs. 284-286. *Mecidea longula* ; 284, aedoeagus, left view; 285, median penal lobes, dorsal view; 286, vesica, left view. (119)
- Figs. 287-290. *Zicrona caerulea* ; 287, pygophore, dorsal view; 288,

- ventral border; 289, clasper; 290, aedoeagus, right view.
Figs. 291-292. *Zicrona caerulea* ; 291, median penal lobes, dorsal view; 292, vesica, right view. (120)
Figs. 293-297. *Oplomus tripustulatus* ; 293, pygophore, dorsal view; 294, clasper; 295, aedoeagus, right view; 296, median penal lobes, dorsal view; 297, vesica, left view. (120)
Figs. 298-299. *Heterosceloides lepida* ; 298, pygophore, dorsal view; 299, clasper. (120)
Figs. 300-302. *Heterosceloides lepida* ; 300, aedoeagus, left view; 301, median penal lobes, ventral view; 302, vesica, right view. (121)
Figs. 303-306. *Rhacognathus americanus* ; 303, pygophore, dorsal view; 304, clasper; 305, aedoeagus, left view. (121)
Fig. 307. *Rhacognathus americanus* ; vesica, left view. (122)
Fig. 308-311. *Apateticus bracteatus* ; 308, clasper; 309, aedoeagus, right view; 310, median penal lobes, dorsal view; 311, vesica, right view. (122)
Figs. 312-313. *Apateticus lineolatus* ; 312, pygophore, dorsal view; 313, clasper. (122)
Figs. 314-316. *Apateticus lineolatus* ; 314, aedoeagus, right view; 315, median penal lobes, ventral view; 316, vesica, left view. (123)
Figs. 317-322. *Podisus acutissimus* ; 317, pygophore, dorsal view; 318, ventral margin; 319, dorsal margin; 320, clasper; 321, aedoeagus, left view; 322, vesica, right view. (123)
Figs. 323-325. *Podisus maculiventris* ; 323, clasper; 324, aedoeagus, right view; 325, vesica, right view. (124)
Figs. 326-329. *Alcaeorrhynchus grandis* ; 326, pygophore, dorsal view; 327, clasper; 328, aedoeagus, left view; 329, median penal lobes, ventral view. (124)
Fig. 330. *Alcaeorrhynchus grandis* ; vesica, left view. (125)
Figs. 331-334. *Euthyrhynchus floridanus* ; 331, pygophore, dorsal view; 332, clasper; 333, aedoeagus, ventral view; 334, vesica, left view. (125)
Figs. 335-336. *Stiretrus anchorago* ; 335, pygophore, dorsal view; 336, clasper. (125)
Figs. 337-339. *Stiretrus anchorago* ; 337, aedoeagus, right view; 338, median penal lobes, dorsal view; 339, vesica, left view. (126)
Figs. 340-343. *Mineus strigipes* ; 340, pygophore, dorsal view; 341, clasper; 342, aedoeagus, left view; 343, vesica, left view. (126)
Figs. 344-348. *Andrallus spinidens* ; 344, pygophore, dorsal view; 345, clasper; 346, aedoeagus, left view; 347, aedoeagus, anterior view; 348, vesica, lateral view. (127)
Figs. 349-352. *Amaurochrous cinctipes* ; 349, pygophore, dorsal view; 350, pygophoral appendage; 351, clasper, inner view; 352, clasper, lateral view. (127)
Figs. 353-355. *Amaurochrous cinctipes* ; 353, aedoeagus, left view; 354, median penal lobes, posterior view; 355, vesica, left view.
Figs. 356-360. *Weda parvula* ; 356, pygophore, dorsal view; 357, clasper; 358, aedoeagus, left view; 359, median penal lobes, dorsal view; 360, vesica, left view. (128)
Figs. 361-366. *Oncozygia clavicornis* ; 361, pygophore, dorsal view;

- 362, clasper; 363, aedoeagus, right view; 364, aedoeagus, dorsal view; 365, median penial lobes, lateral view; 366, vesica, right view. (129)
- Figs. 367-369. *Piezosternum subulatum* ; 367, pygophore, dorsal view; 368, ventral border; 369, clasper. (129)
- Figs. 370-372. *Piezosternum subulatum* ; 370, aedoeagus, left view; 371 vesica, left view; 372, apex of vesica. (120)
- Figs. 373-377. *Meadorus lateralis* ; 370, pygophore, dorsal view; 374, clasper; 375, aedoeagus, right view; 376, second conjunctival appendages, ventral view; 377, vesica, lateral view. (130)
- Figs. 378-380. *Elasmostethus cruciatus* ; 378, pygophore, dorsal view; 379, clasper; 380, aedoeagus, right view. (130)
- Figs. 381-382. *Elasmostethus cruciatus* ; 381, base of vesica, left view; 382, vesica, left view. (131)
- Figs. 383-387. *Corimelaena pulicaria* ; 383, pygophore, dorsal view; 384, clasper; 385, theca, dorsal view; 386, conjunctival appendages, left view; 387, vesica, left view. (131)
- Fig. 388. *Sehirus cinctus* ; pygophore, dorsal view. (131)
- Figs. 389-390. *Sehirus cinctus* ; 389, aedoeagus, right view; 390, vesica, left view. (132)
- Figs. 391-397. *Pangaeus aethiops* ; 391, pygophore, dorsal view; 392, clasper; 393, clasper; 394, dorsal arm of clasper; 395, aedoeagus, right view; 396, apex of second conjunctival appendage, ventral view; 397, vesica, left view. (132)
- Figs. 398-401. *Cyrtomenus crassus* ; 398, pygophore, dorsal view; 399, clasper; 400, aedoeagus, left view; 401, vesica, left view.
- Figs. 402-404. *Melanaethus subglaber* ; 402, pygophore, dorsal view; 403, aedoeagus, right view; 404, third conjunctival appendages, ventral view. (133)
- Fig. 405. *Melanaethus subglaber* ; vesica, right view. (134)
- Figs. 406-410. *Amnestus pallidus* ; 406, pygophore, dorsal view; 407, clasper; 408, aedoeagus (unexpanded), left view; 409, conjunctival appendages, dorsal view; 410, vesica, left view. (134)

Female genitalia

- Figs. 411-412. *Fokkeria producta* ; 411, genital chamber, dorsal view; 412, spermathecal bulb. (135)
- Figs. 413-414. *Euptychodera corrugata* ; 413, genital chamber, dorsal view; 414, spermathecal bulb. (135)
- Figs. 415-416. *Vanduzeeina balli* ; 415, genital chamber, ventral view; 416, spermatheca. (135)
- Figs. 417-418. *Phimodera binotata* ; 417, spermatheca; 418, sclerite surrounding spermathecal opening. (135)
- Fig. 419. *Eurygaster alternata* ; spermatheca. (136)
- Fig. 420-421. *Pachycoris torridus* ; 420, groove in genital chamber, dorsal view; 421, spermatheca. (136)
- Figs. 422-423. *Diolcus irroratus* ; 422, pouch in genital chamber, dorsal view; 423, genital chamber, ventral view. (136)
- Fig. 424. *Diolcus irroratus* ; spermatheca. (137)

- Figs. 425-427. *Tetyra antillarum* ; 425, ventral view of female genitalia; 426, spermatheca; 427, spermathecal bulb. (137)
- Fig. 428. *Symphylus caribbeanus* ; spermatheca. (137)
- Figs. 429-430. *Sphyrocoris obliquus* ; 429, spermatheca; 430, spermathecal bulb. (137)
- Figs. 431-432. *Homaemus aeneifrons*; 431, spermatheca; 432, spermathecal bulb. (138)
- Figs. 433-435. *Acantholomidea porosa* ; 433, genital chamber, ventral view; 434, spermatheca; 435, spermathecal bulb. (138)
- Figs. 436-437. *Chelysomidea guttata* ; 436, genital chamber, ventral view; 437, pouch of genital chamber, dorsal view. (138)
- Fig. 438. *Chelysomidea guttata* ; spermatheca. (139)
- Figs. 439-442. *Stethaulax marmoratus* ; 439, female genitalia, ventral view; 440, groove in genital chamber, dorsal view; 441, spermatheca; 442, spermathecal bulb. (139)
- Fig. 443. *Augocoris gomesii* ; spermatheca. (139)
- Figs. 444-445. *Rhytidolomia senilis* ; 444, sclerites surrounding opening of spermathecal duct; 445, spermathecal bulb. (139)
- Fig. 446. *Rhytidolomia viridicata* ; spermathecal bulb. (140)
- Fig. 447. *Banasa dimidiata* ; spermathecal bulb. (140)
- Fig. 448. *Carpocoris remotus* ; spermatheca. (140)
- Figs. 449-450. *Murgantia histrionica* ; 449, female genitalia, ventral view; 450, sclerites surrounding opening of spermathecal duct.
- Fig. 451. *Solubea pugnax* ; spermatheca. (140)
- Fig. 452. *Euschistus tristigmus* ; spermatheca. (140)
- Figs. 453-454. *Cosmopepla bimaculata*; 453, female genitalia, ventral view; 454, spermatheca. (141)
- Figs. 455-456. *Brepholoxa heidemanni*; 455, spermatheca; 456, spermathecal bulb. (141)
- Fig. 457. *Dendrocoris humeralis* ; female genitalia, ventral view. (141)
- Figs. 458-459. *Prionosoma podopoides* ; 458, spermatheca; 459, spermathecal bulb. (141)
- Fig. 460. *Solubea pugnax* ; female genitalia, ventral view. (141)
- Fig. 461. *Solubea pugnax* ; spermathecal bulb. (142)
- Fig. 462. *Neottiglossa trilineata*; sclerites around spermathecal opening.
- Fig. 463. *Loxa flavicollis*; spermathecal bulb. (142)
- Figs. 464-465. *Arvelius albopunctatus*; 464, spermatheca; 465, spermathecal bulb. (142)
- Fig. 466. *Aelia americana* ; spermathecal bulb. (142)
- Figs. 467-468. *Acros:ernum pennsylvanicum*; 467, female genitalia, ventral view; 468, spermatheca. (142)
- Figs. 469-470. *Peribalus limbolarius* ; 469, spermatheca; 470, spermathecal bulb. (143)
- Figs. 471-472. *Vulsirea violacea*; 471, female genitalia, ventral view; 472, spermatheca. (143)
- Figs. 473-474. *Pentatoma rufipes*; 473, female genitalia, ventral view; 474, spermatheca. (143)
- Fig. 475. *Chlorocoris subrugosus* ; spermathecal bulb. (143)
- Fig. 476. *Trichopepla semivittata* ; spermatheca. (144)
- Fig. 477. *Proxys punctulatus*; spermatheca. (144)

- Figs. 478-479. *Thyanta perditor*; 478, spermatheca; 479, spermathecal bulb. (144)
- Fig. 480. *Eysarcoris aeneus*; spermatheca. (144)
- Fig. 481. *Brochymena quadripustulata*; spermatheca. (144)
- Fig. 482. *Edessa bifida*; spermatheca. (145)
- Fig. 483. *Sciocoris microphthalmus*; spermatheca. (145)
- Fig. 484. *Lineostethus clypeatus*; spermatheca. (145)
- Fig. 485. *Mecidea longula*; female genitalia, ventral view. (145)
- Figs. 486-487. *Mineus strigipes*; 486, female genitalia, ventral view; 487, spermathecal bulb. (145)
- Fig. 488. *Rhacognathus americanus*; spermatheca. (145)
- Figs. 489-490. *Podisus acutissimus*; 489, spermatheca; 490, spermathecal bulb. (146)
- Fig. 491. *Podisus maculiventris*; spermathecal bulb. (146)
- Fig. 492. *Apateticus lineolatus*; spermatheca. (146)
- Fig. 493. *Perillus confluens*; spermatheca. (146)
- Fig. 494. *Alcaeorrhynchus grandis*; spermathecal bulb. (146)
- Fig. 495. *Euthyrhynchus floridanus*; spermatheca. (146)
- Fig. 496. *Zicrona caerulea*; female genitalia, ventral view. (146)
- Fig. 497. *Zicrona caerulea*; sclerites around spermathecal opening.
- Figs. 498-499. *Amaurochrous dubius*; 498, female genitalia, ventral view; 499, spermatheca. (147)
- Fig. 500. *Weda parvula*; spermathecal bulb. (147)
- Figs. 501-502. *Piezosternum subulatum*; 501, female genitalia, ventral view; 502, spermatheca. (147)
- Fig. 503. *Elasmostethus cruciatus*; female genitalia, ventral view. (147)
- Fig. 504. *Elasmostethus cruciatus*; spermatheca. (148)
- Fig. 505. *Meadorus lateralis*; spermatheca. (148)
- Figs. 506-507. *Corimelaena pulicaria*; 506, female genitalia, ventral view; 507, spermatheca. (148)
- Figs. 508-509. *Galgupha nitiduloides*; 508, spermatheca; 509, spermathecal bulb. (148)
- Fig. 510. *Dallasiellus discrepans*; female genitalia, ventral view. (148)
- Fig. 511. *Dallasiellus discrepans*; spermatheca. (149)
- Fig. 512-513. *Cyrtomenus crassus*; 512, female genitalia, ventral view; 513, spermatheca. (149)
- Fig. 514. *Pangaeus aethiops*; spermatheca. (149)
- Figs. 515-516. *Amnestus pallidus*; 515, female genitalia, ventral view; 516, spermatheca. (149)
- Fig. 517. *Amnestus pusio*; spermatheca. (149)
- Figs. 518-519. *Sehirus cinctus*; 518, female genitalia, ventral view; 519, spermatheca. (150)
- Fig. 520. Graphical presentation of the degree of difference existing between genera of North American Scutellerinae using 7 male and 4 female genitalic characters. (150)

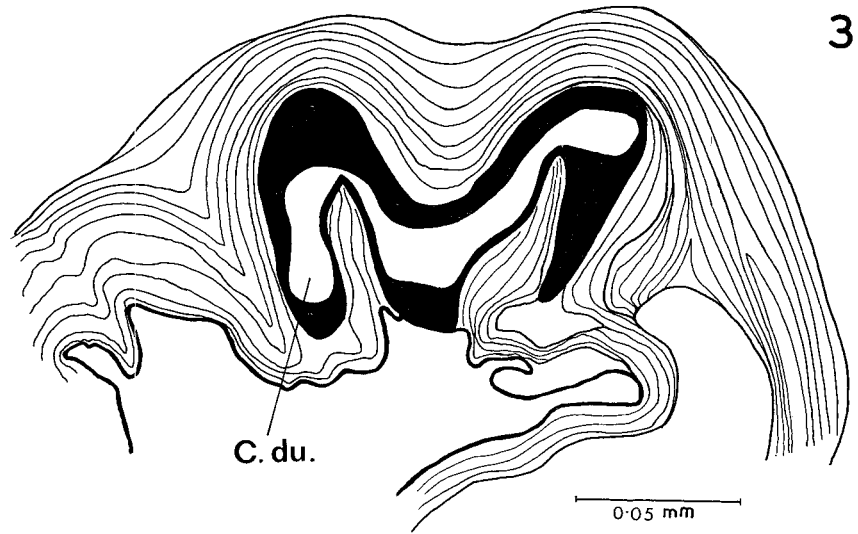
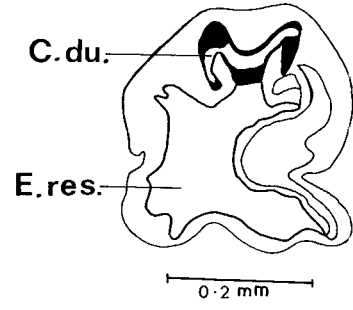
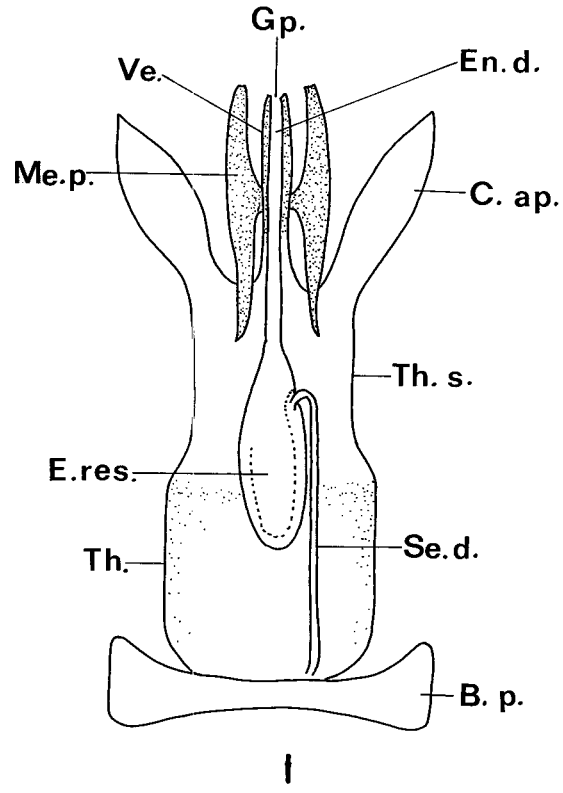
KEY TO LETTERING OF FIGURES

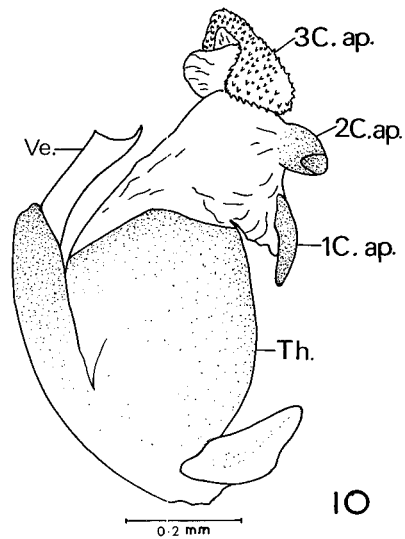
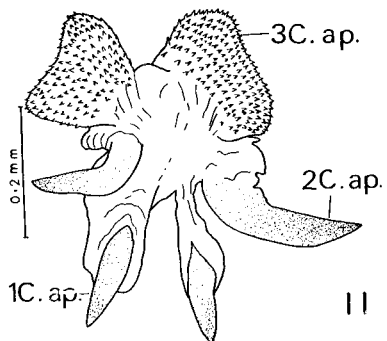
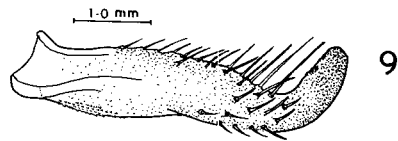
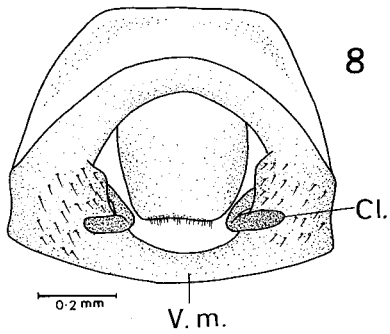
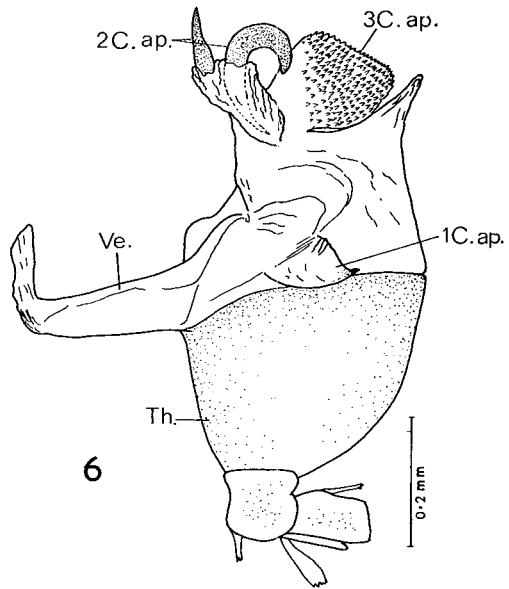
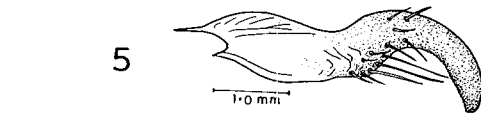
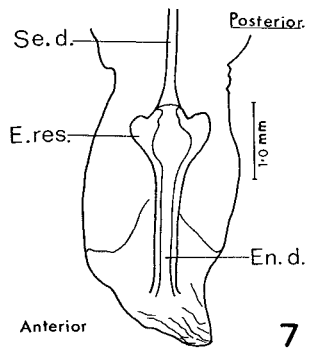
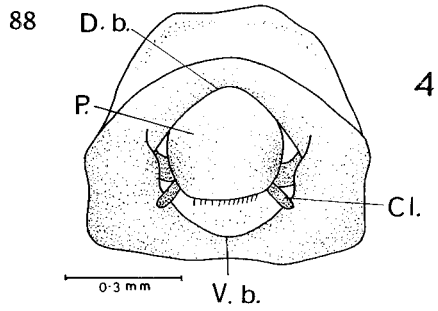
Figures 1-419 (male genitalia)

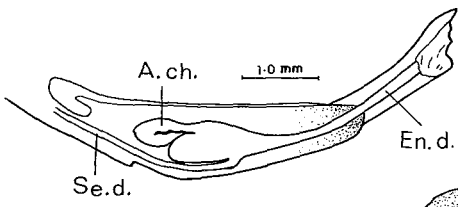
- A. ch., anterior chamber of ejaculatory reservoir
 A. s., anterior sinus
 A. th. pr., anterior thecal process
 Ap., apodeme
 Ar. cl., arm of clasper
 B. p., basal plate
 C. ap., conjunctival appendage
 1 C. ap., first conjunctival appendage
 2 C. ap., second conjunctival appendage
 3 C. ap., third conjunctival appendage
 C. ap. 2, branch of second conjunctival appendage
 C. du., convoluted duct
 C. lo., conjunctival lobe
 Ca., canal
 Cal., callus
 Ce. s., central sinus
 Cl., clasper
 D. b., dorsal border of pygophore
 D. dv., dorsal diverticulum of theca
 D. c. ap., dorsal lobe of conjunctival appendage
 D. c. lo., dorsal conjunctival lobe
 D. ch., dorsal chamber of ejaculatory reservoir
 D. m., dorsal margin of pygophore
 D. pr., dorsal process of vesica
 D. r., dorsal reservoir
 Du., duct
 E. res., ejaculatory reservoir
 En. d., endophallic duct
 En. f., flange of endophallic duct
 F., flange around pygophoral opening
 G. pl., genital plate
 Gp., secondary gonopore
 In. r., inferior ridge
 Kn., knob
 L. a., lower arm of clasper
 M. pr., median process
 Me. p., median penal lobe
 Mu., muscle fibre
 P., proctiger
 P. ch., posterior chamber of ejaculatory reservoir
 P. th. pr., posterior thecal process
 Pi., pit
 Pr., projection
 Pro., process
 Py. ap., pygophoral appendage
 R., sclerotized ring at base of endophallic duct
 Ri., ridge
 S. ve. pr., supra vesical process
 Se., septum
 Se. d., seminal duct
 Sh., sheath of vesica
 Si., sinus
 Sp., spine
 St., setae
 Su. r., superior ridge
 Th., theca
 Th. ap., thecal appendage
 Th. f., thecal flange
 Th. pr., thecal process
 Th. s., thecal shield
 U. a., upper arm of clasper
 V. b., ventral border of pygophore
 V. c. ap., ventral lobe of conjunctival appendage
 V. c. lo., ventral conjunctival lobe
 V. ch., ventral chamber of ejaculatory reservoir
 V. m., ventral margin of pygophore
 Va., valve
 Ve., vesica
 Ve. f., vesical flange
 Ve. pr., vesical process

Figures 411-519 (female genitalia)

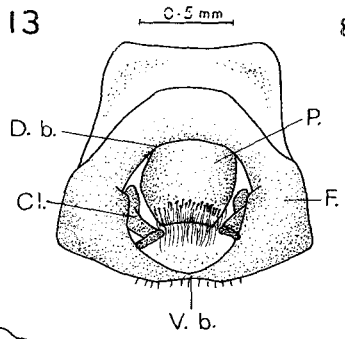
- | | |
|---|---|
| A. s., accessory sac | O., opening of spermathecal duct into genital chamber |
| An., anal opening | O. r., outer rami |
| B., spermathecal bulb | P., spermathecal pump |
| B. d., bulb of spermathecal duct | P. f., proximal flange of pump |
| D. f., distal flange of pump | Pch., pouch in genital chamber |
| Dl., dilation of spermathecal duct | Pr., process of spermathecal bulb |
| Dl. 1, proximal chamber of spermathecal dilation | Pt. 8, paratergite eight |
| Dl. 2, distal chamber of spermathecal dilation | Pt. 9, paratergite nine |
| Dt., diverticulum | R., sclerotized rod |
| Fl., flange | R. sc., ring sclerite |
| Gr., sclerotized groove in floor of genital chamber | S. 10, sternum ten |
| 1 Gp., first gonapophysis | S. du., spermathecal duct |
| 2 Gp., second gonapophysis | Sc., sclerite |
| 1 Gx., first gonocoxa | T. 8, tergum eight |
| 2 Gx., second gonocoxa | Tr., triangulum |
| l. r., inner ramus | |



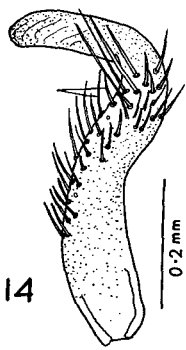




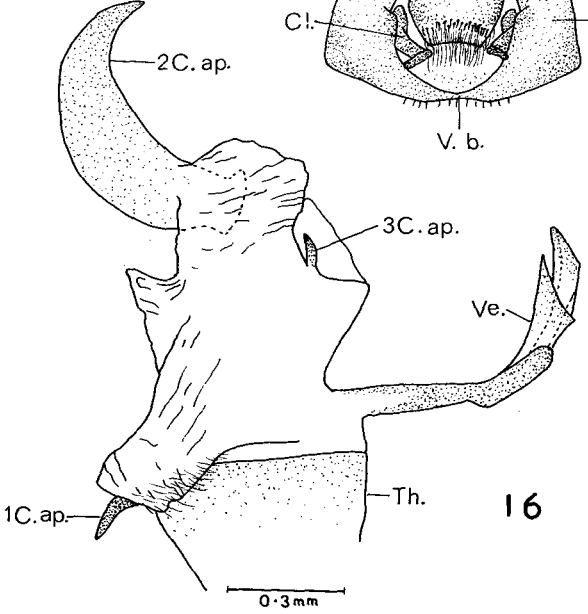
12



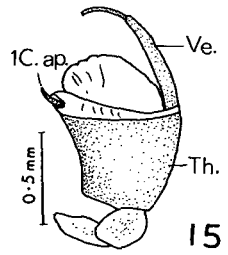
13



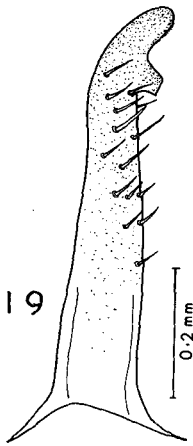
14



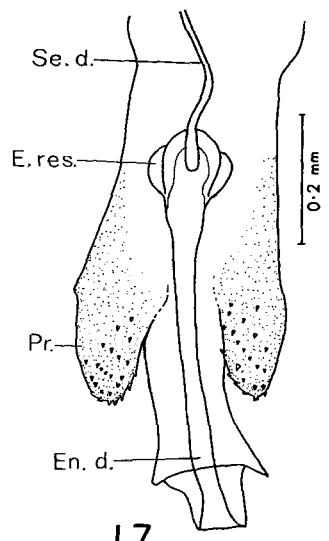
16



15

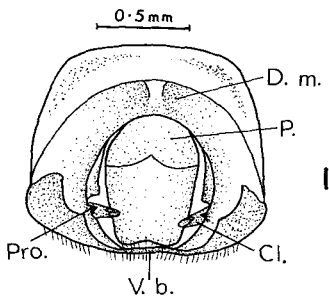


19

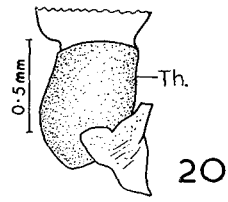


17

Anterior

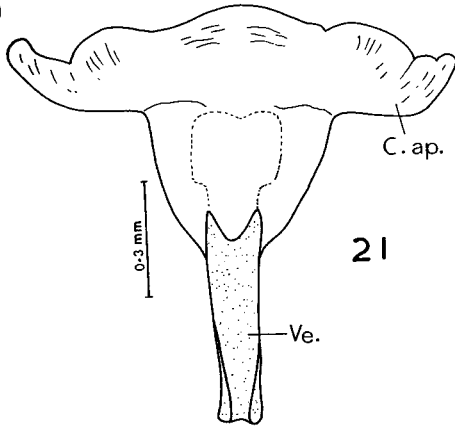


18

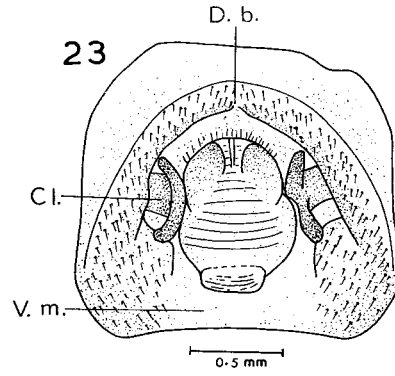


20

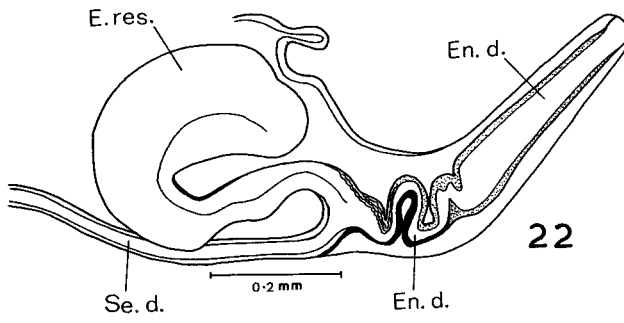
90



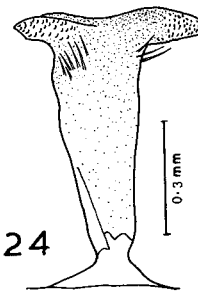
21



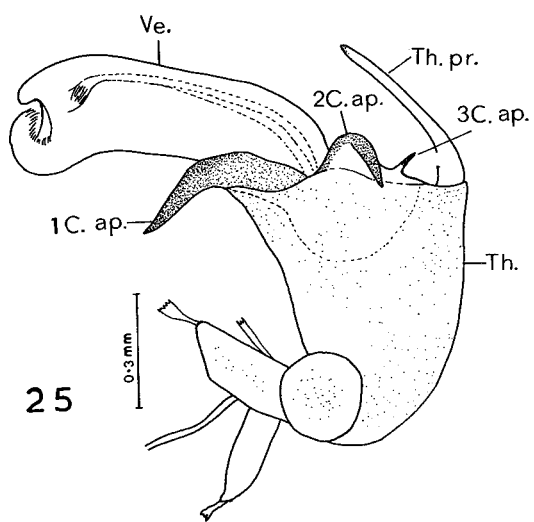
23



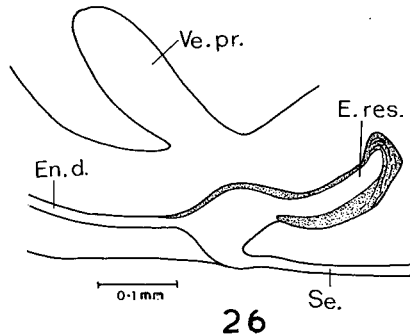
22



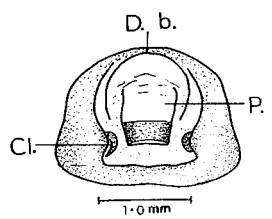
24



25



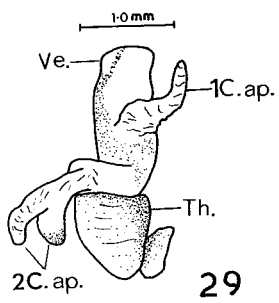
26



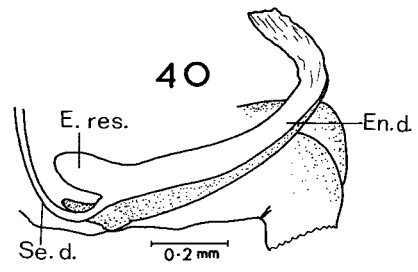
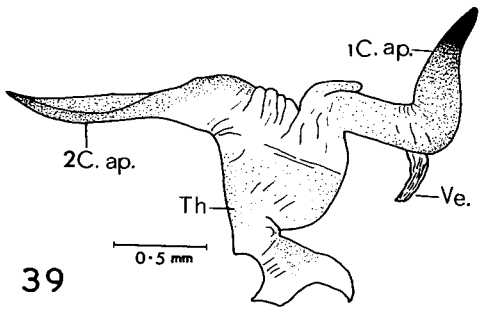
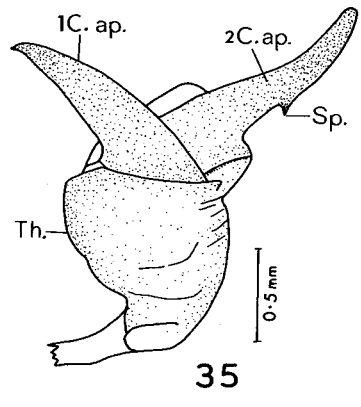
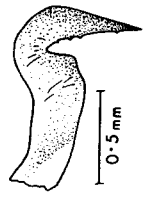
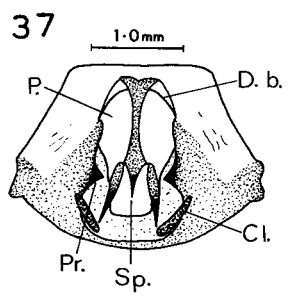
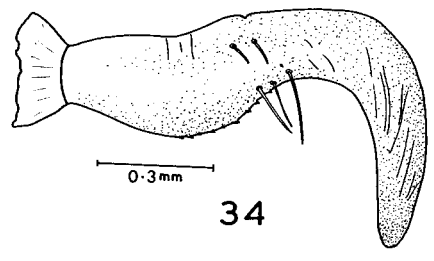
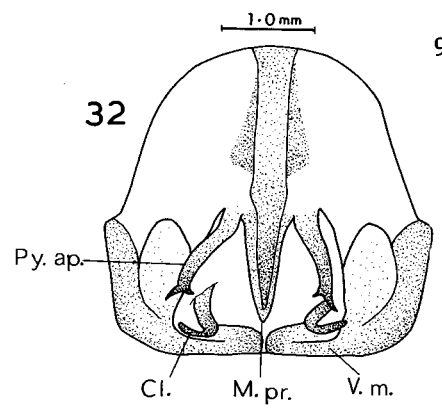
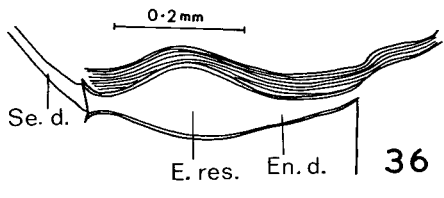
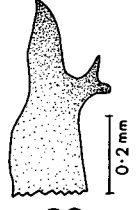
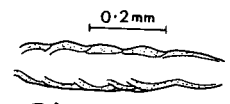
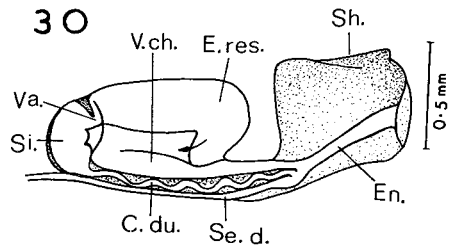
27



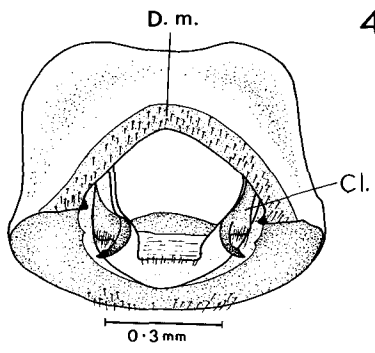
28



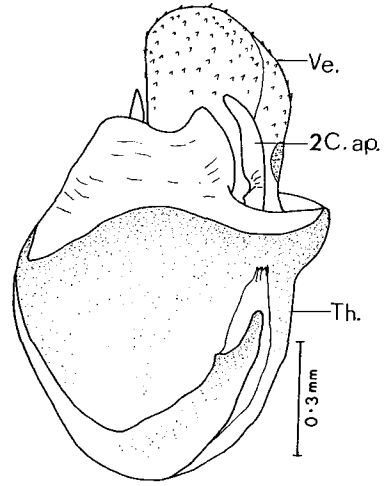
29



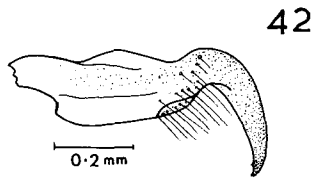
92



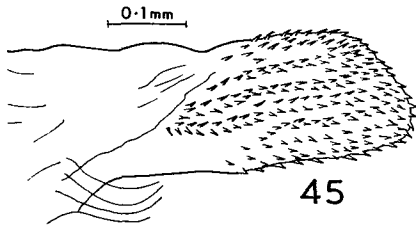
41



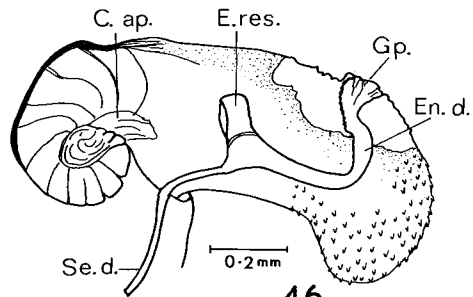
43



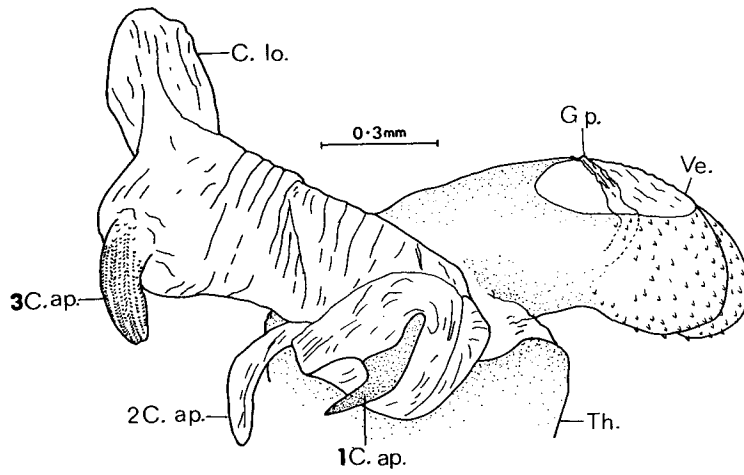
42



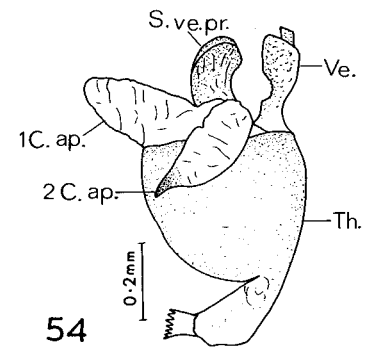
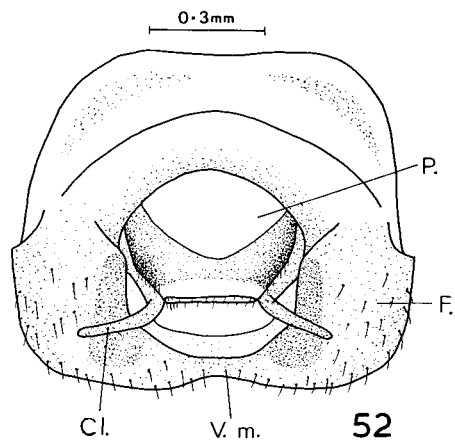
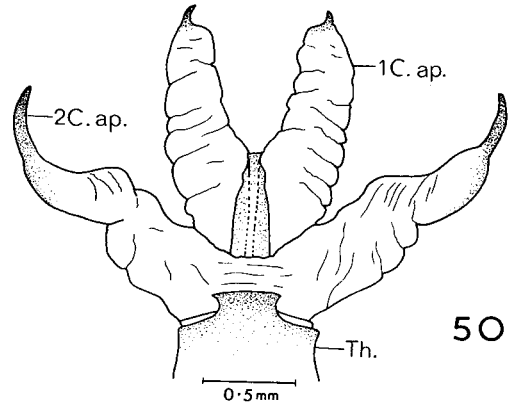
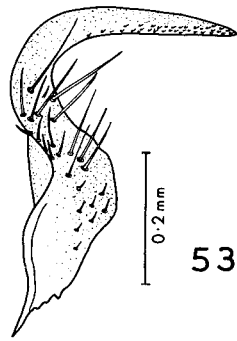
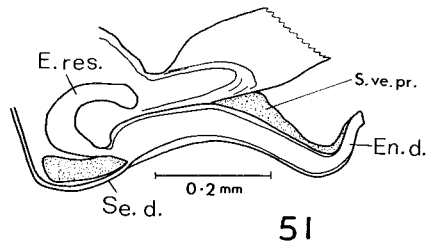
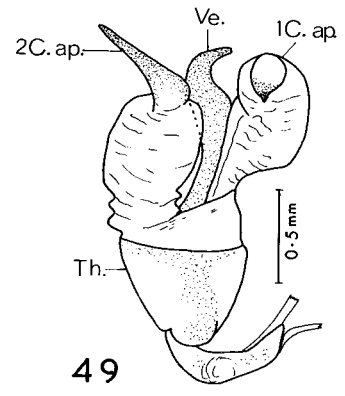
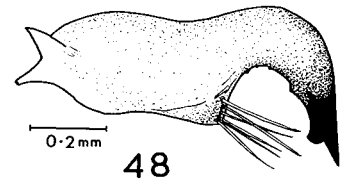
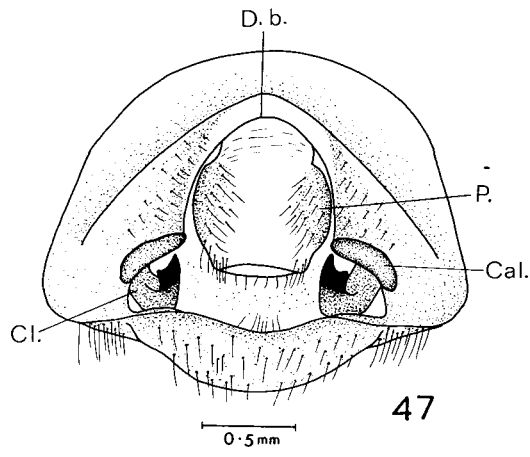
45

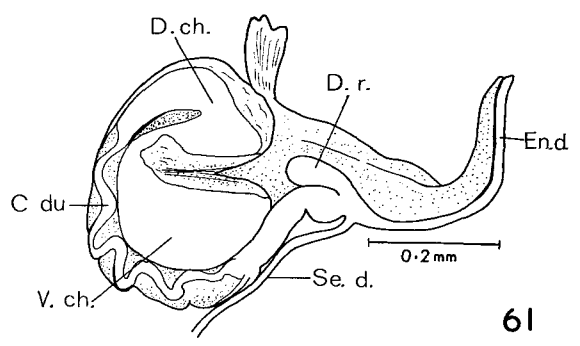
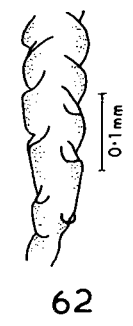
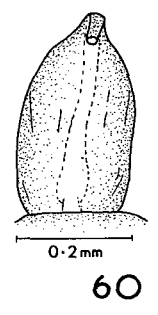
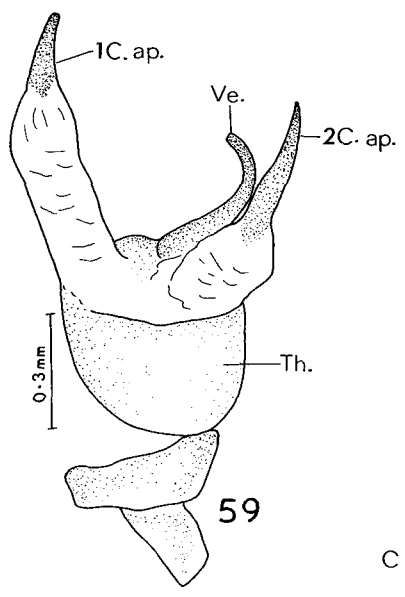
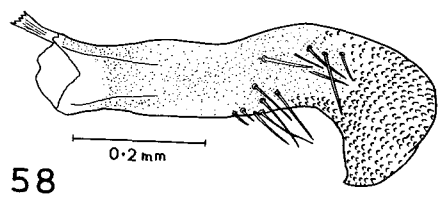
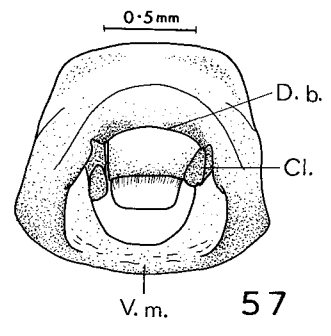
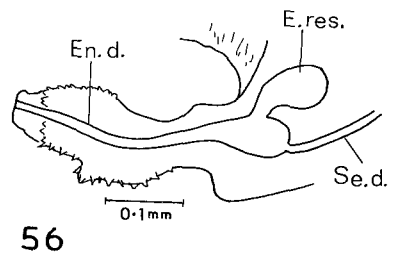
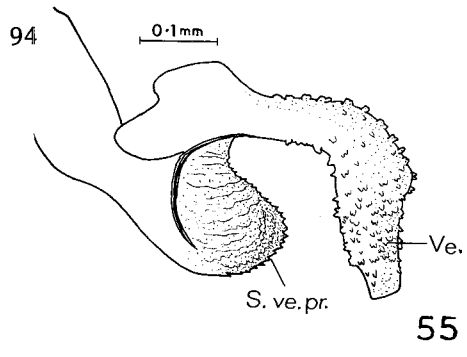


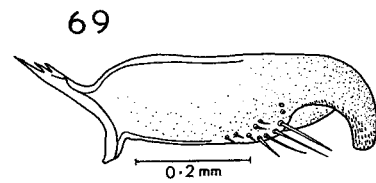
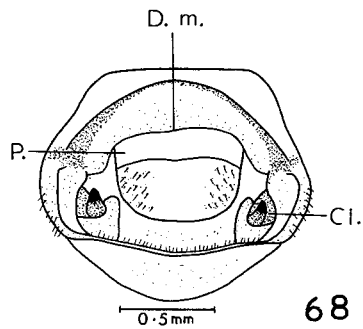
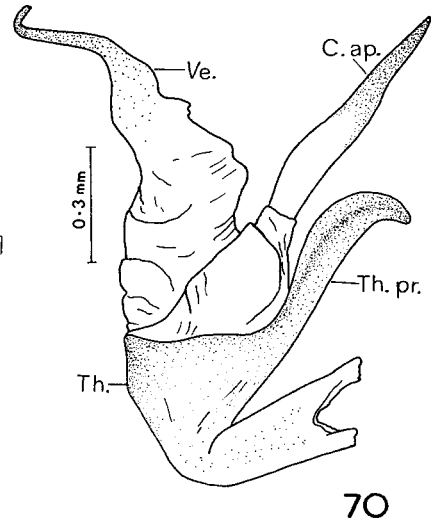
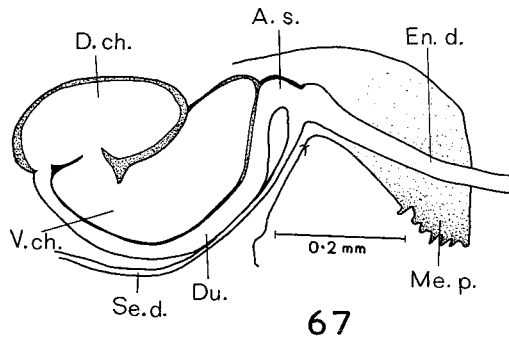
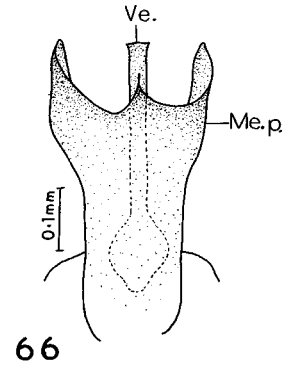
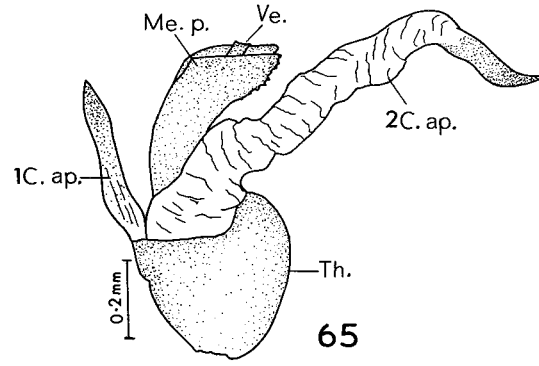
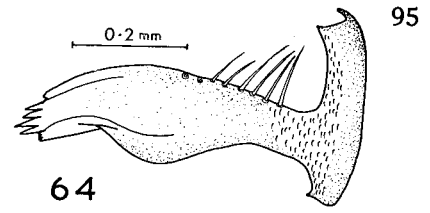
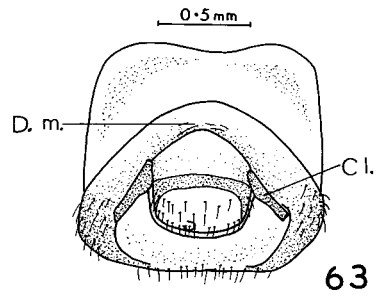
46

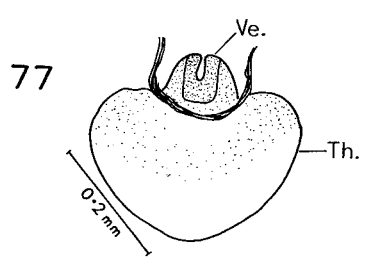
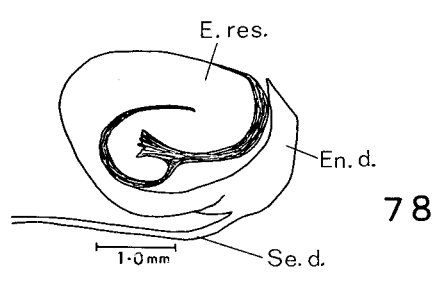
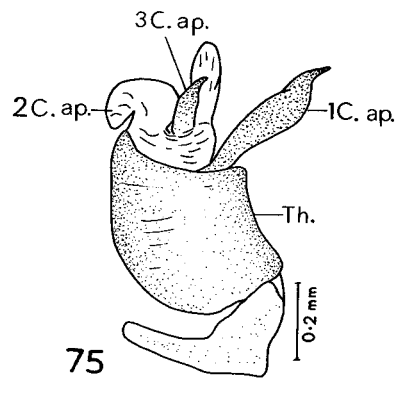
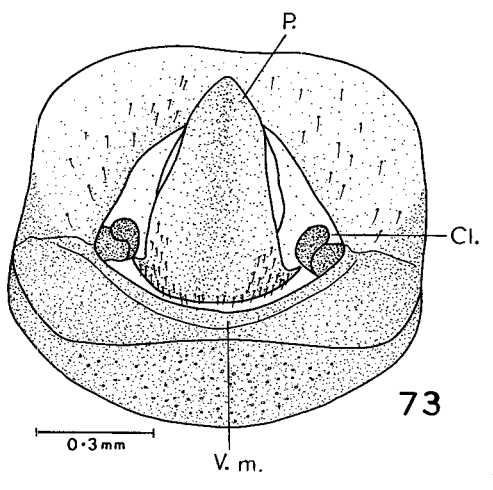
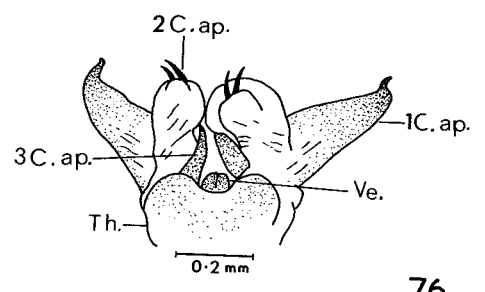
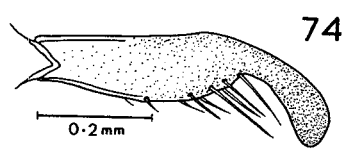
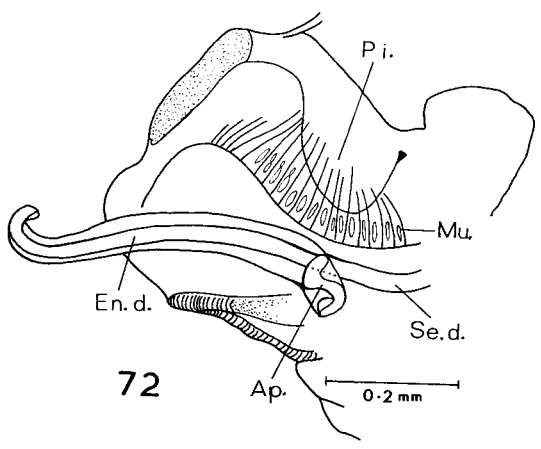
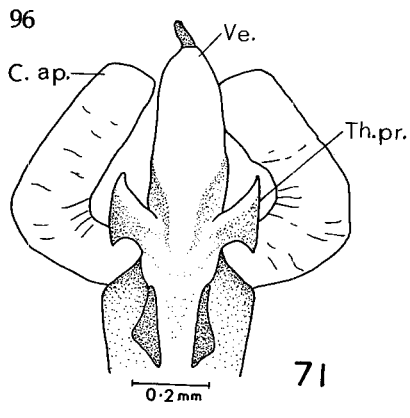


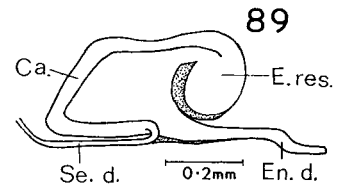
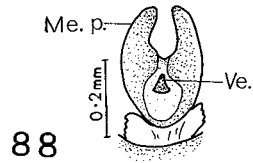
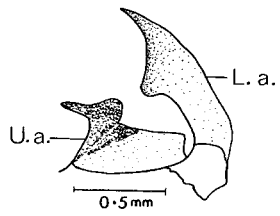
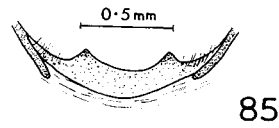
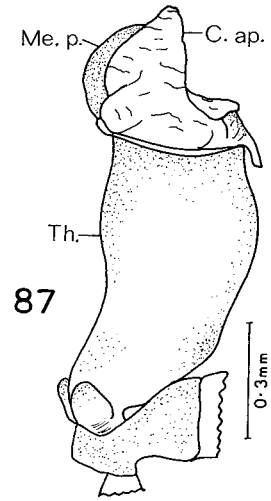
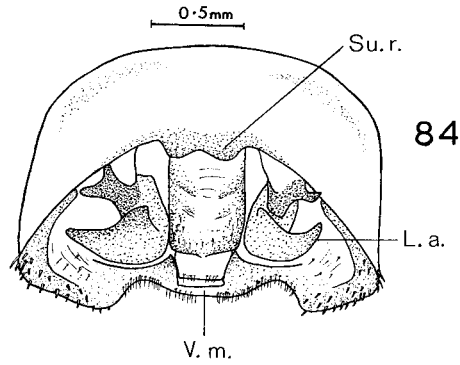
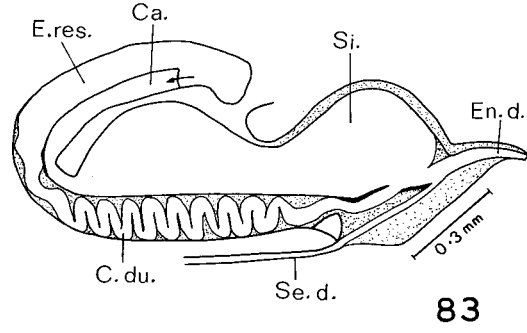
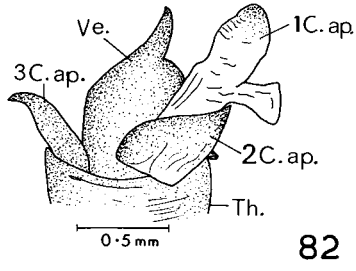
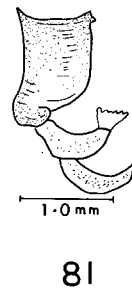
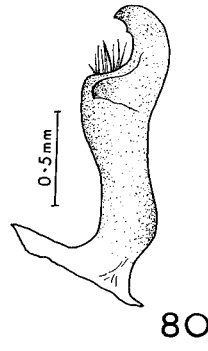
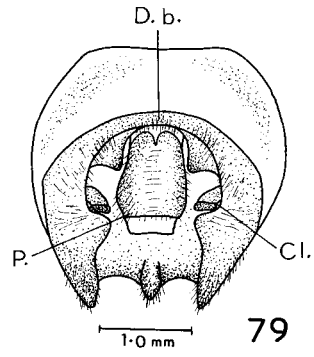
44

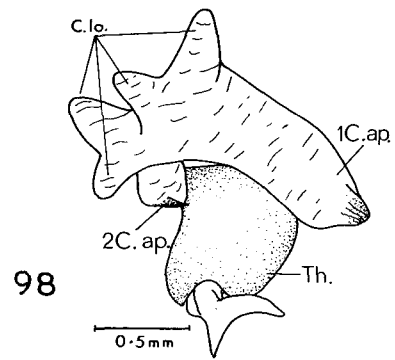
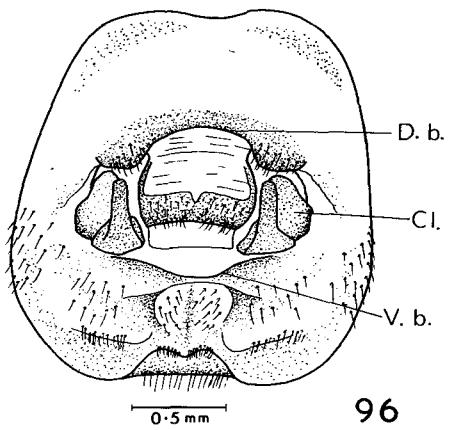
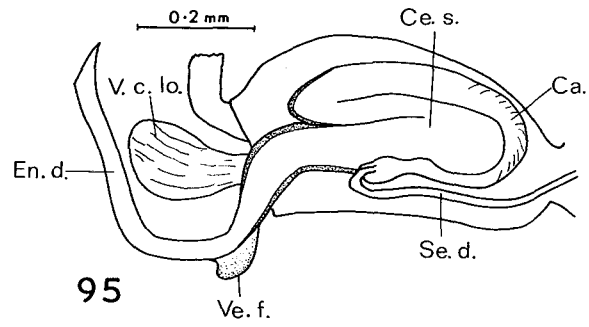
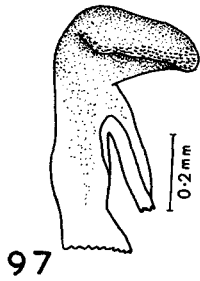
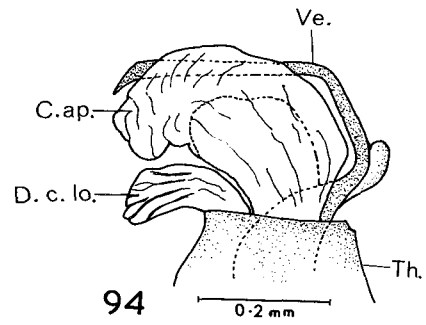
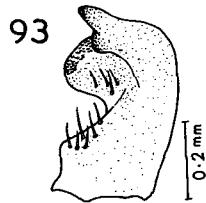
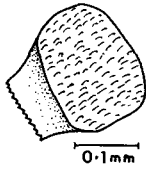
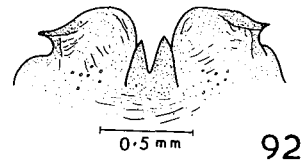
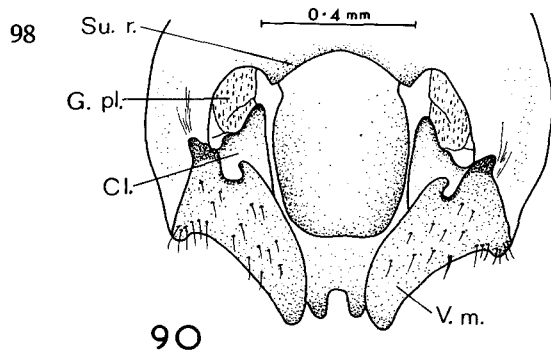


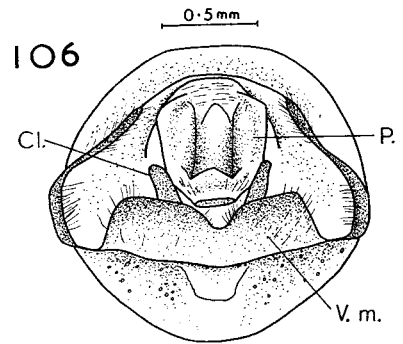
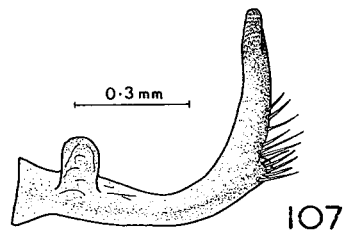
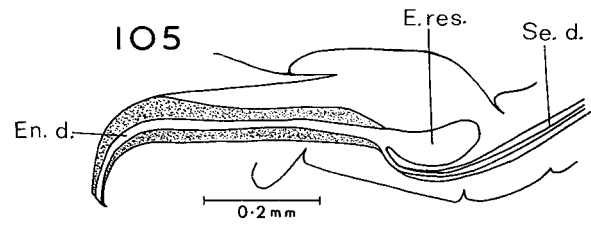
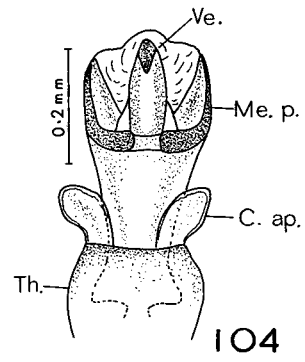
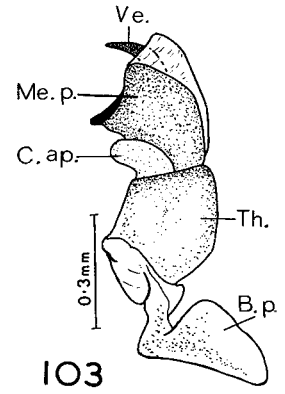
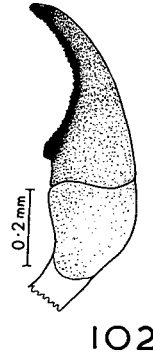
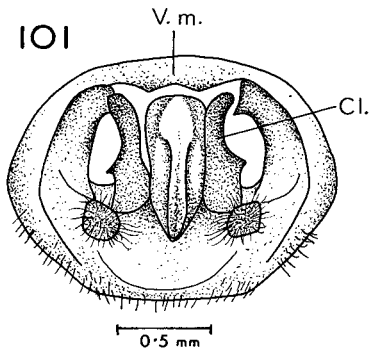
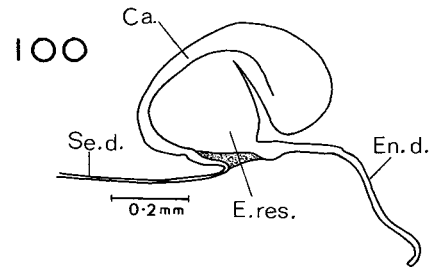
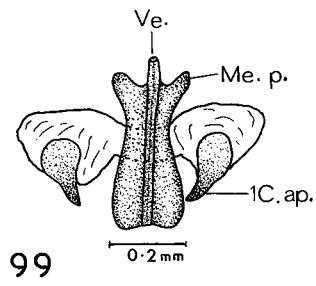




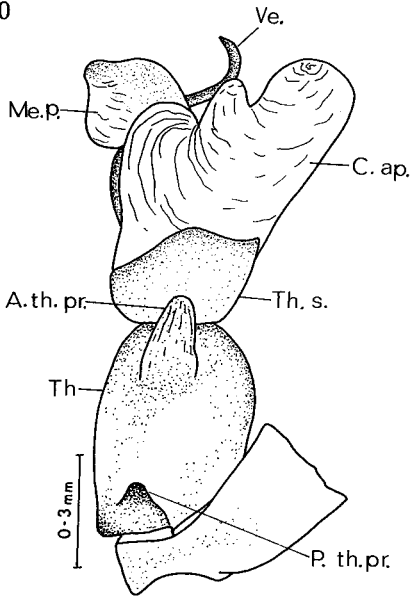




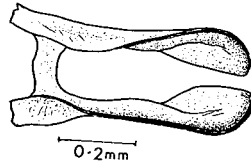




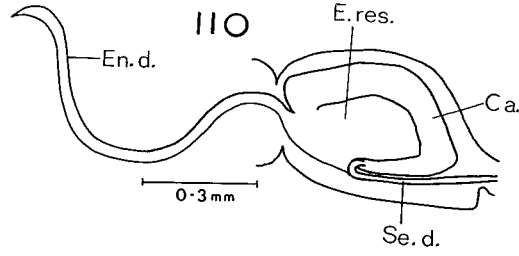
100



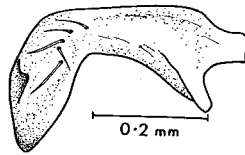
108



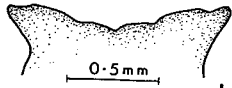
109



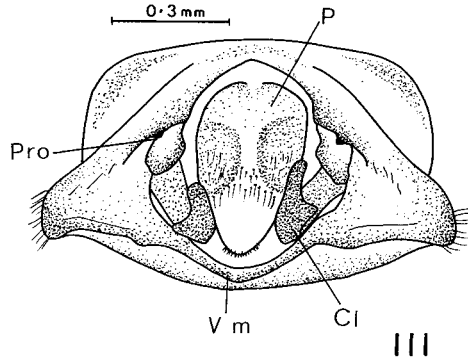
110



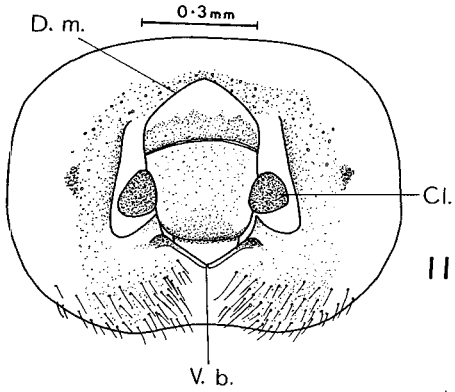
113



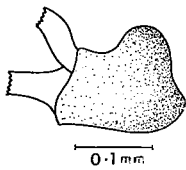
112



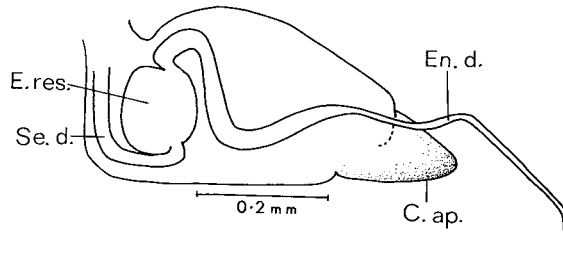
114



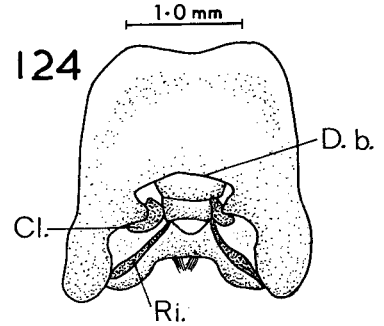
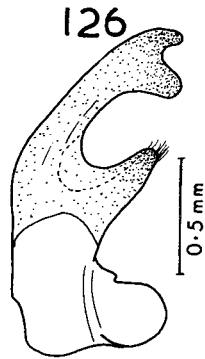
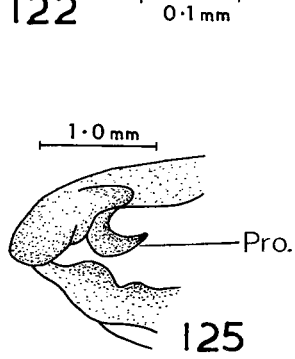
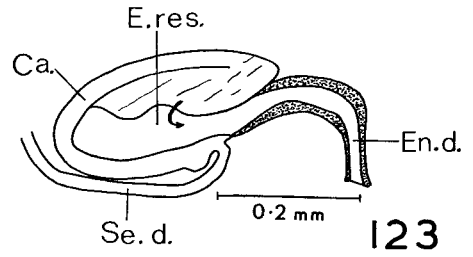
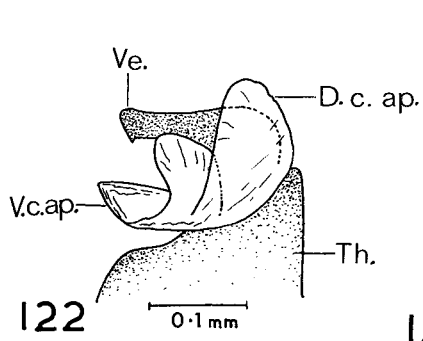
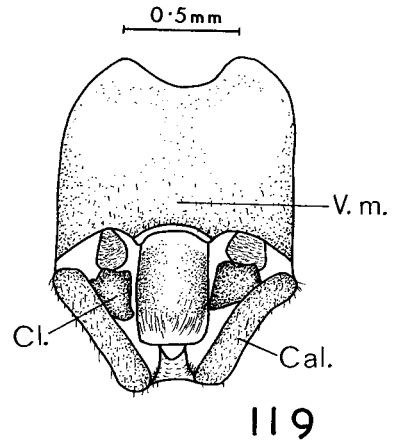
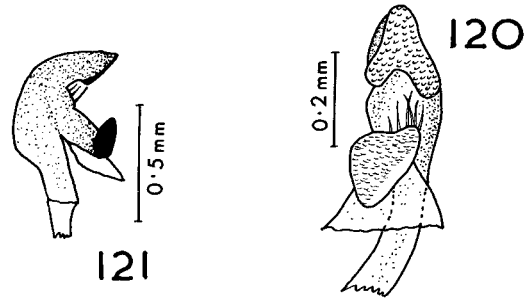
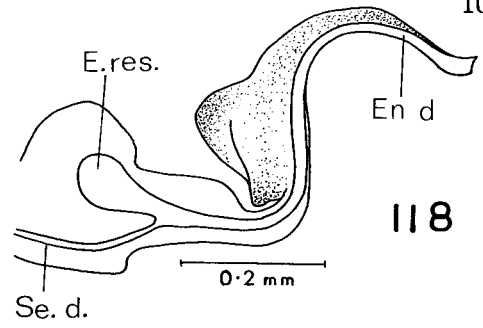
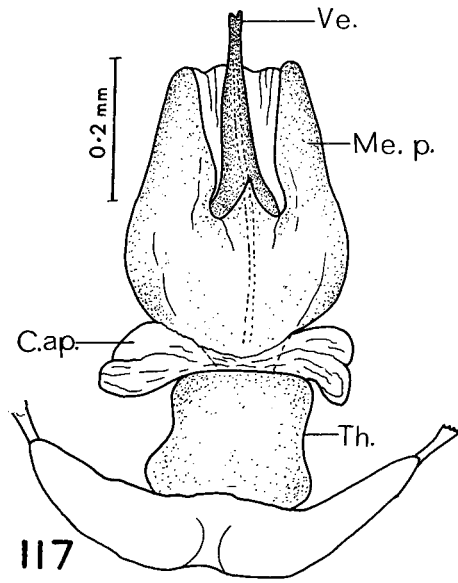
115

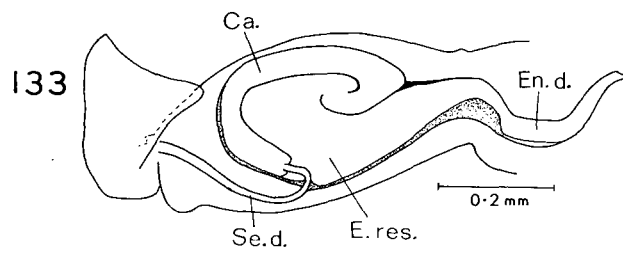
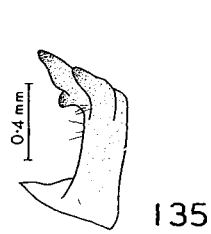
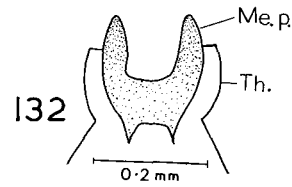
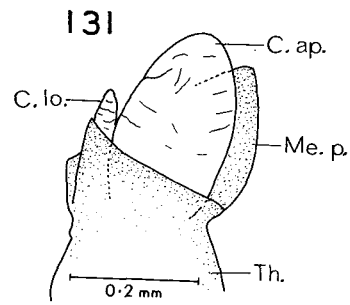
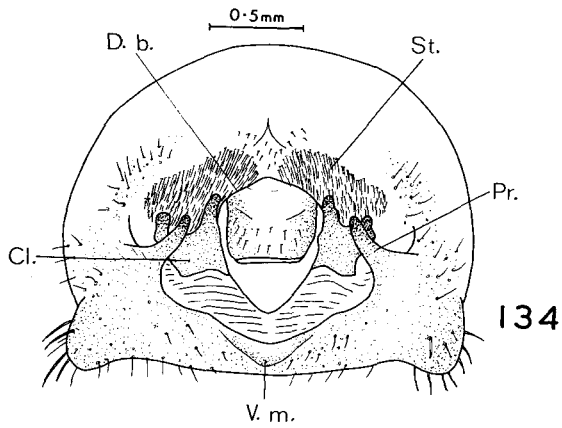
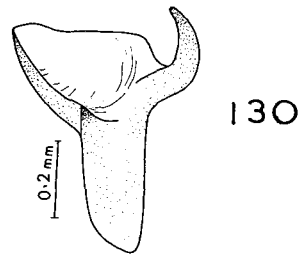
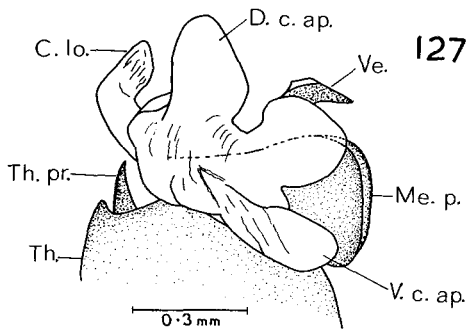
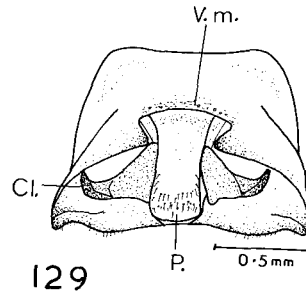
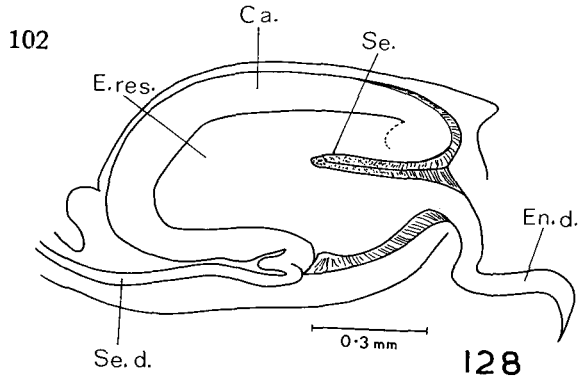


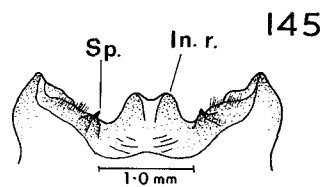
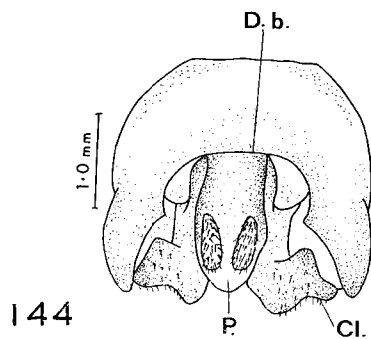
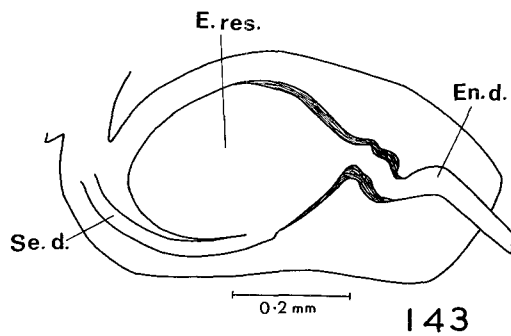
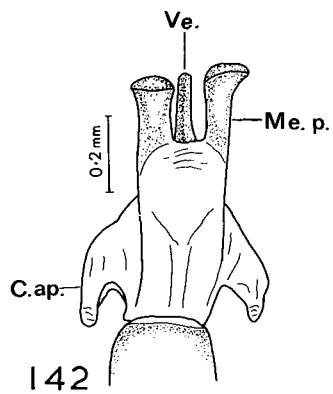
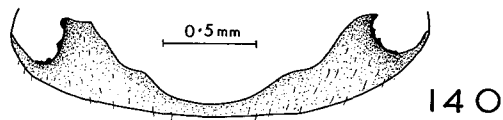
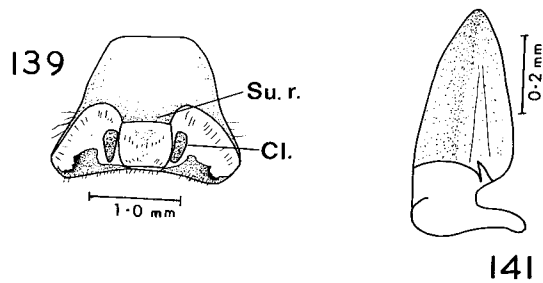
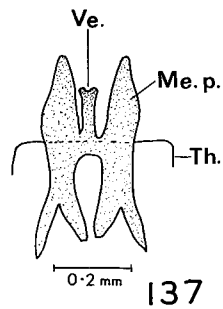
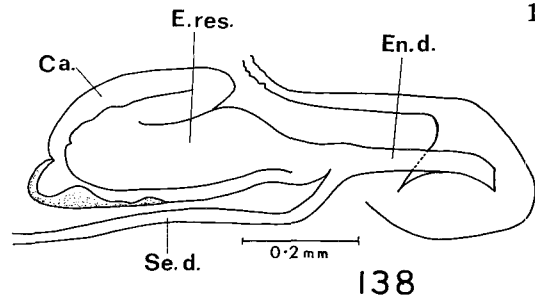
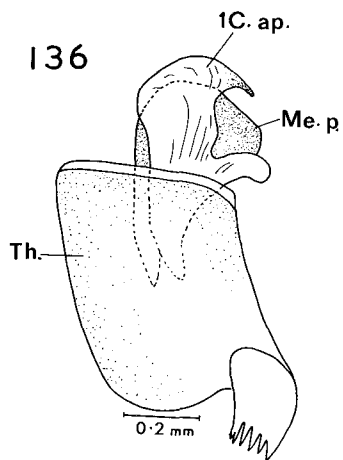
116



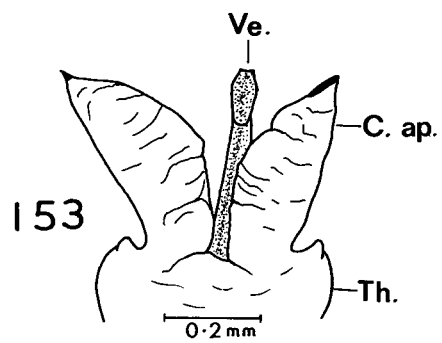
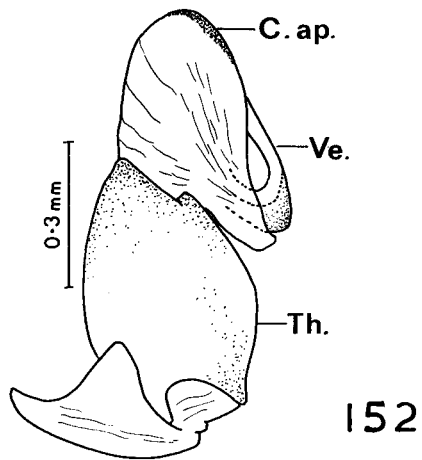
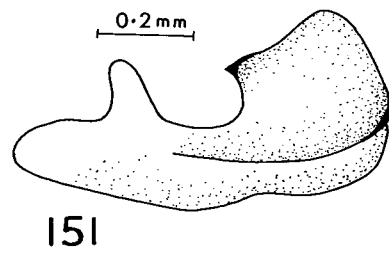
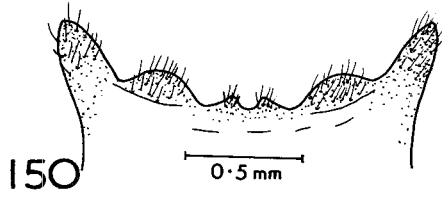
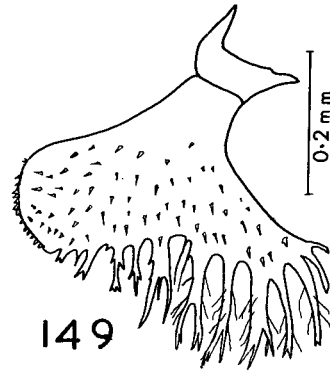
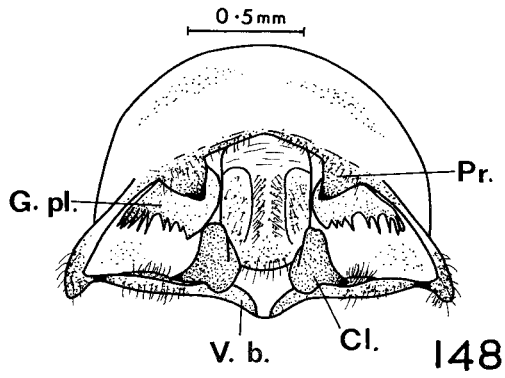
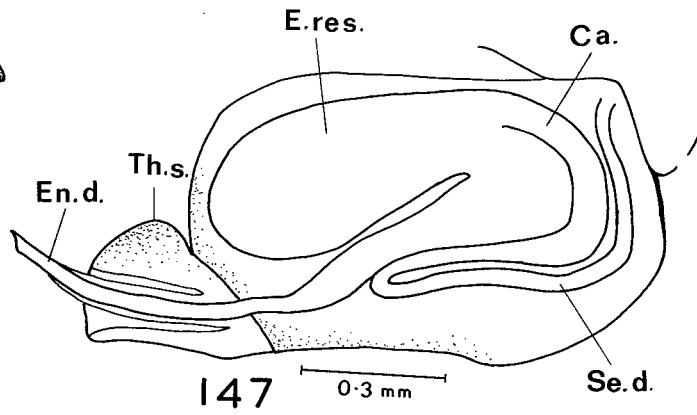
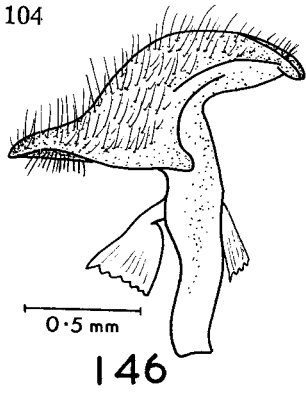
0.2 mm

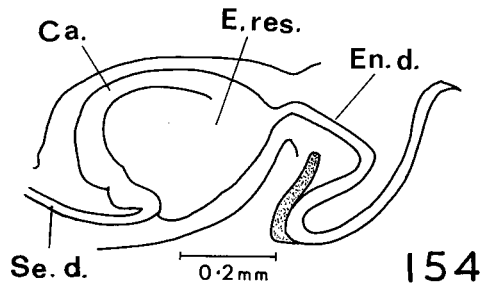




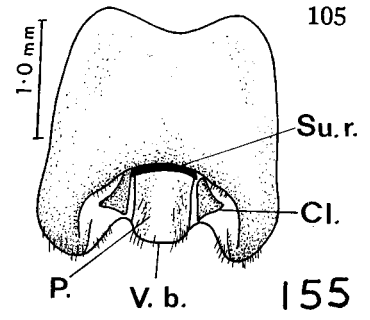


104

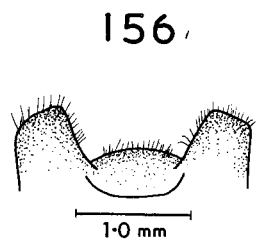




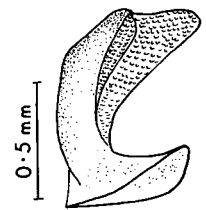
154



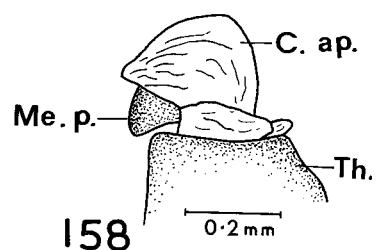
155



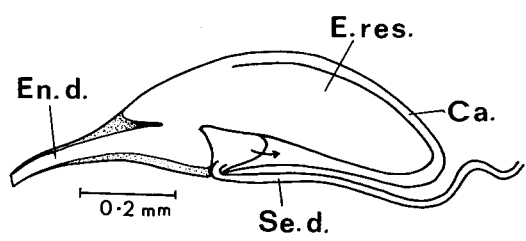
156



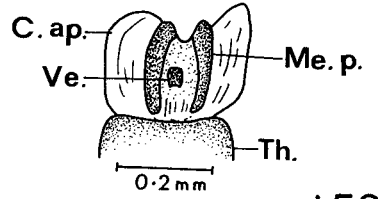
157



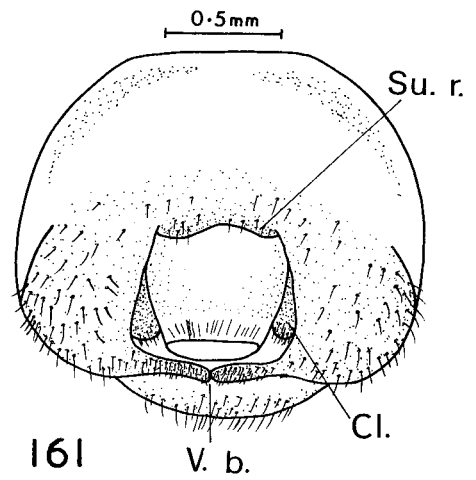
158



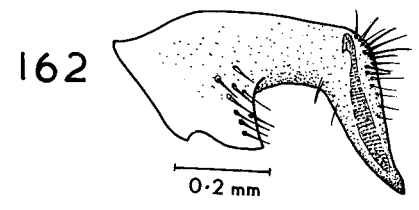
160



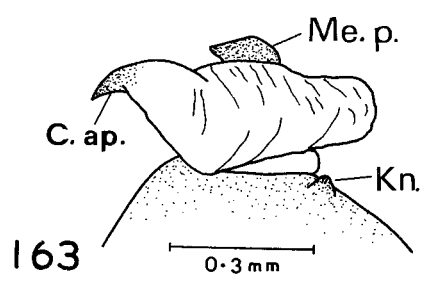
159



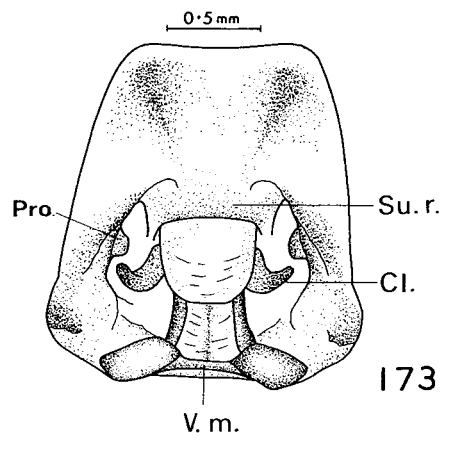
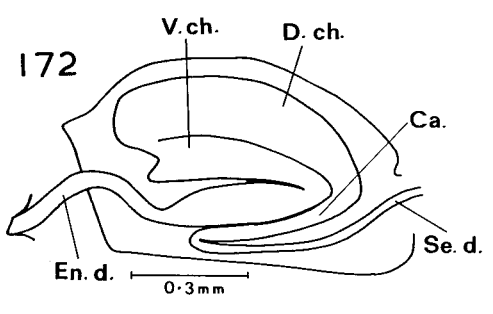
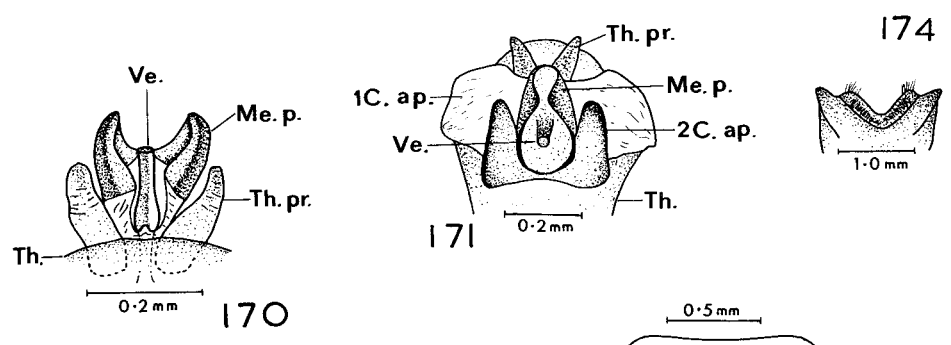
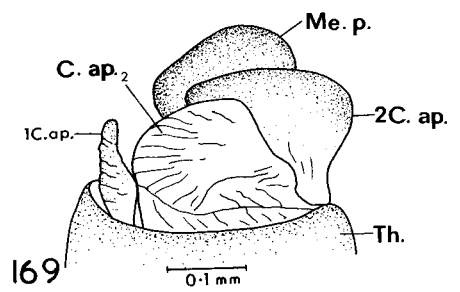
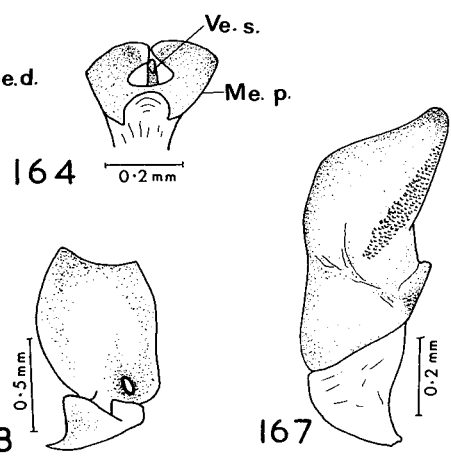
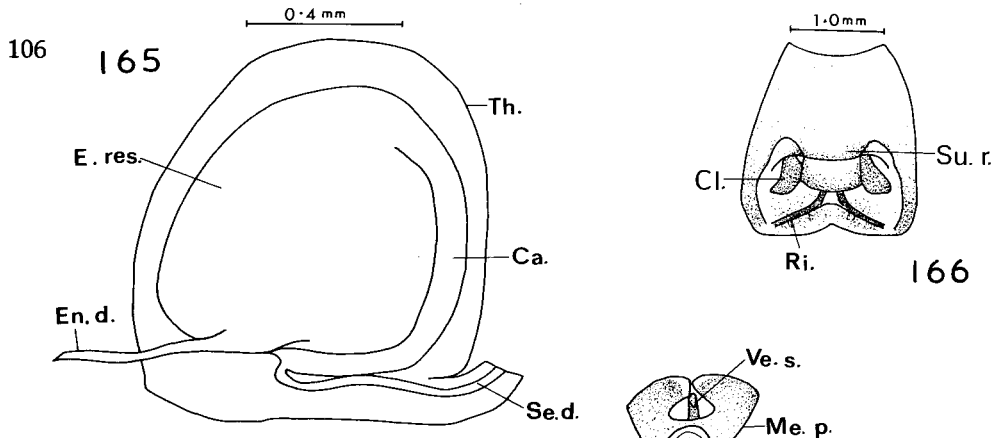
161

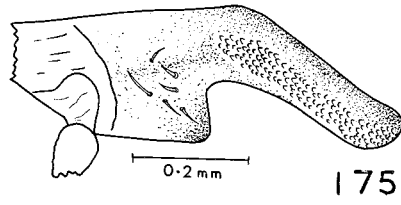


162

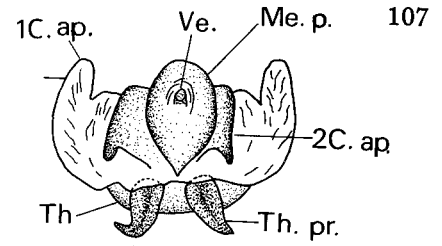


163

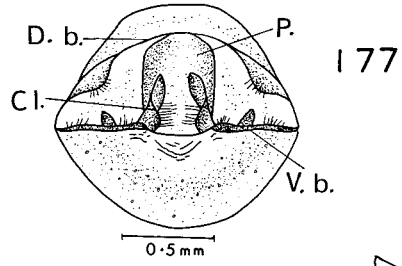




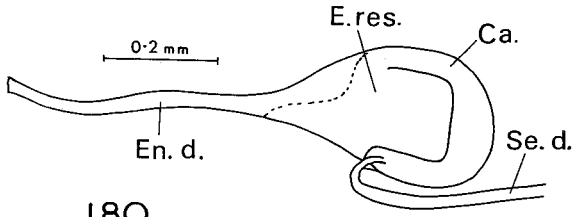
175



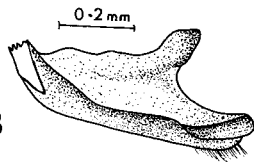
176



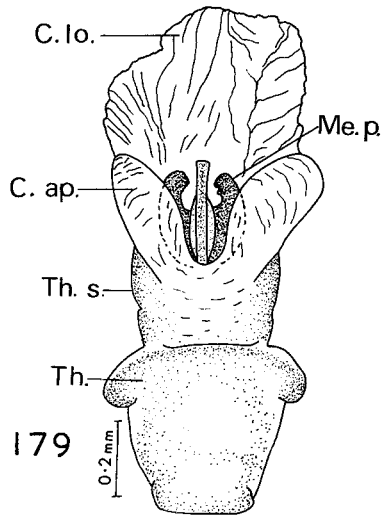
177



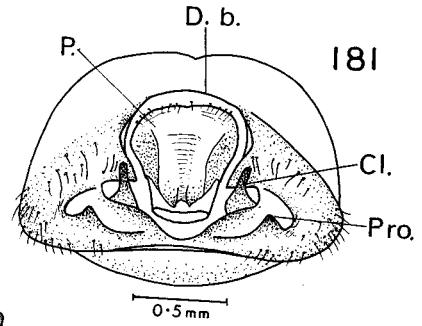
180



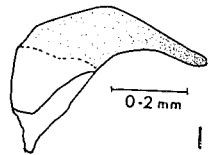
178



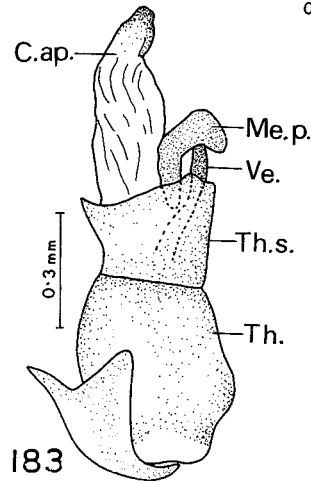
179



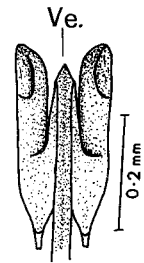
181



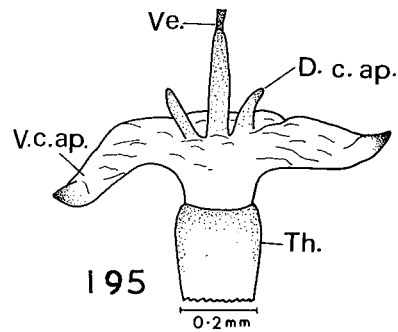
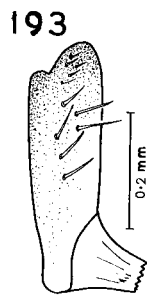
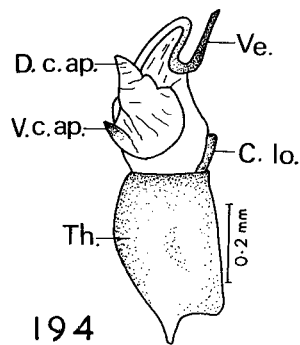
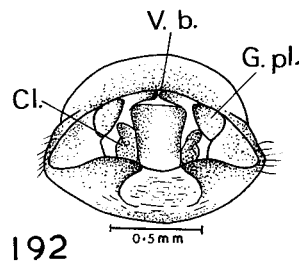
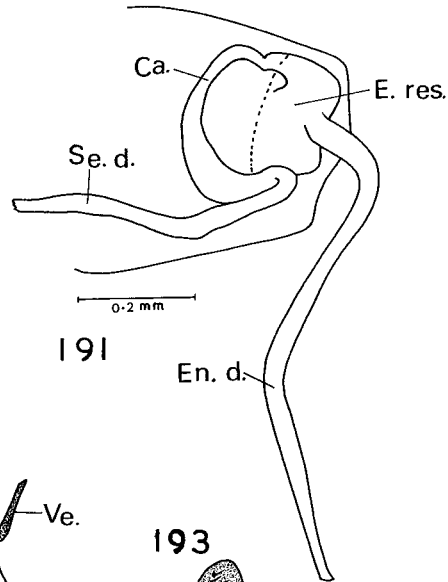
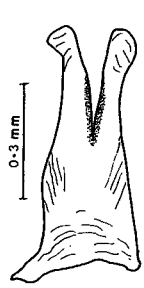
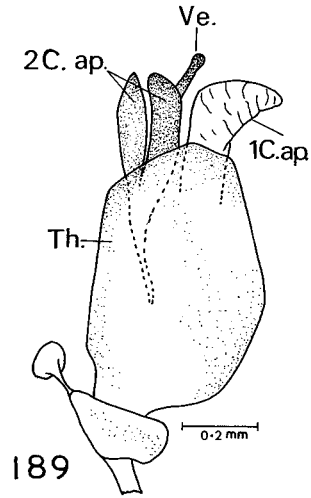
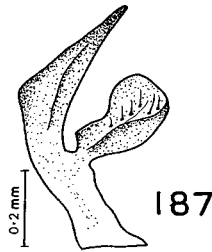
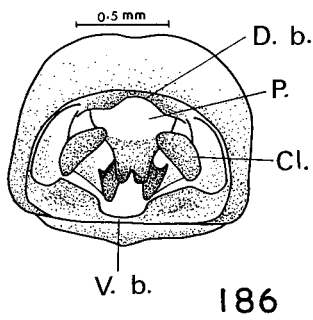
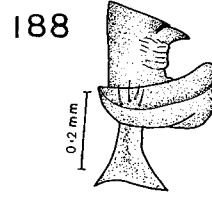
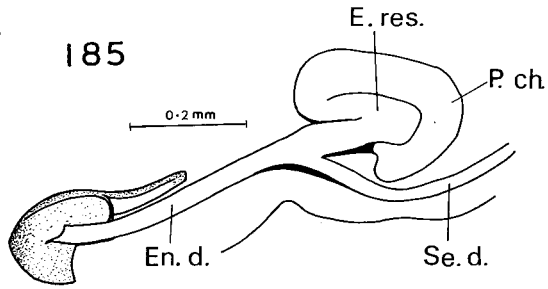
182

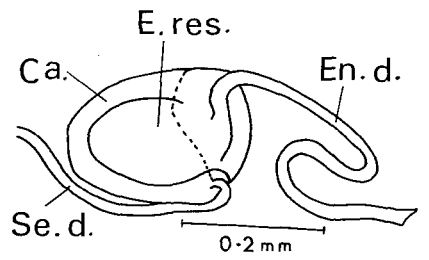


183

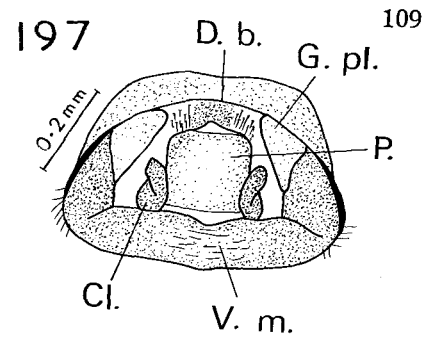


184

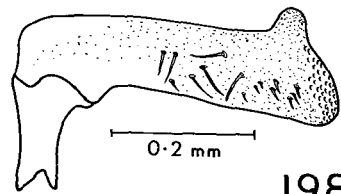




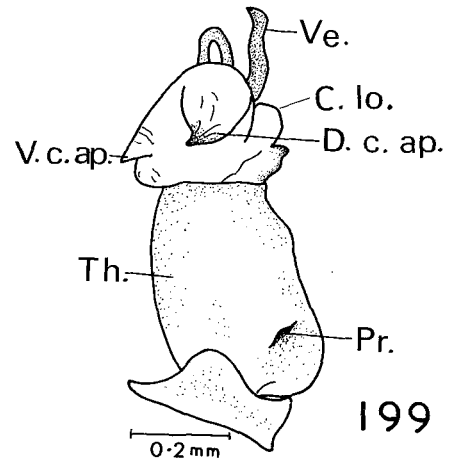
196



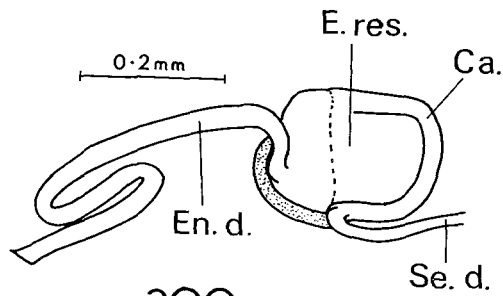
109



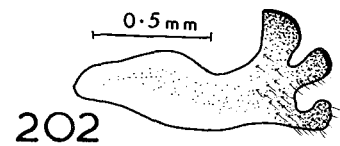
198



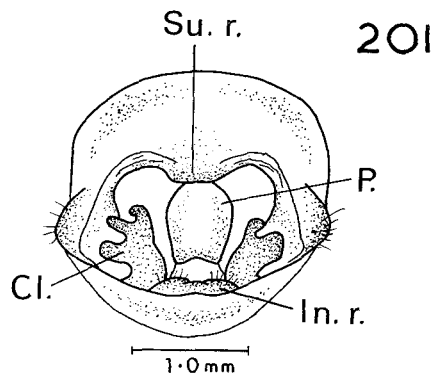
199



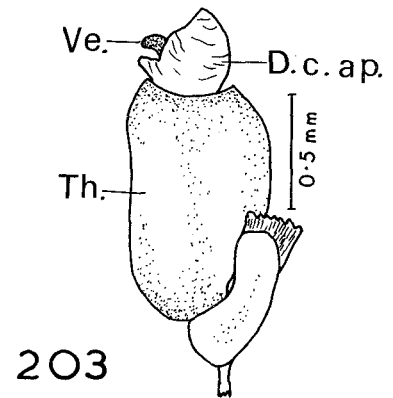
200



202

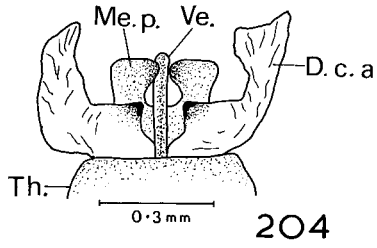


201

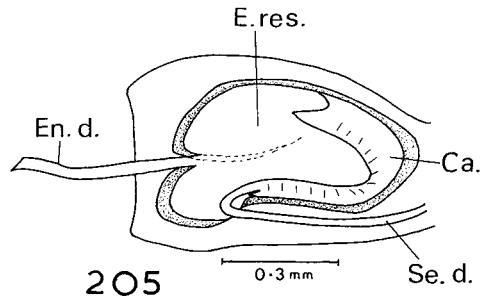


203

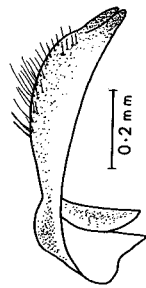
110



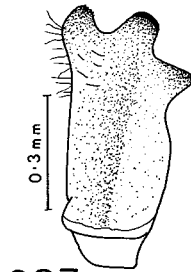
204



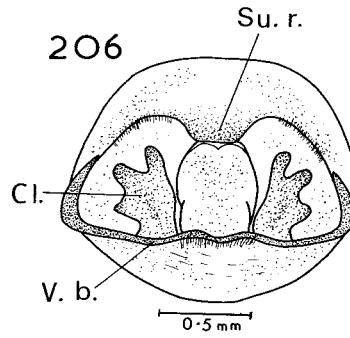
205



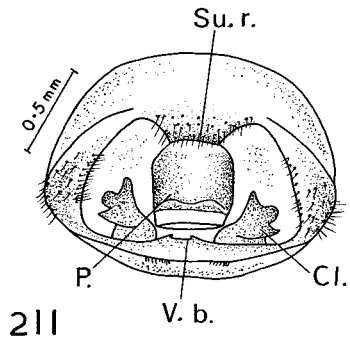
208



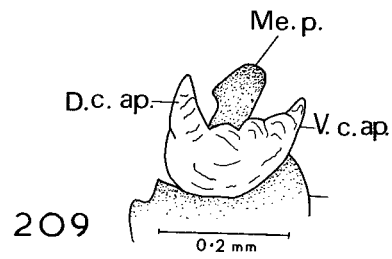
207



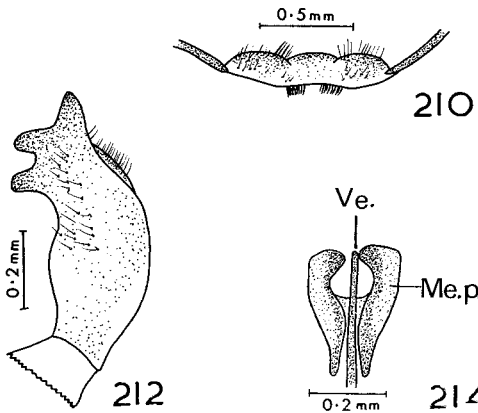
206



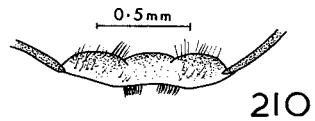
211



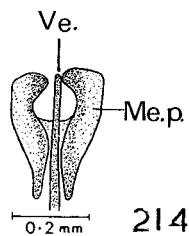
209



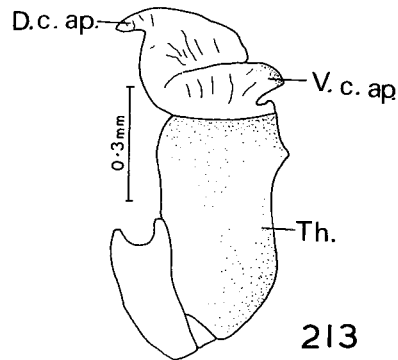
212



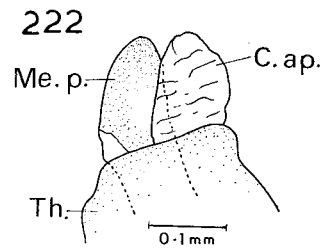
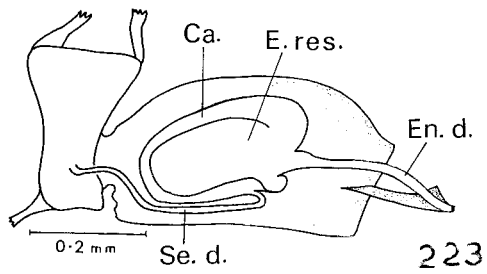
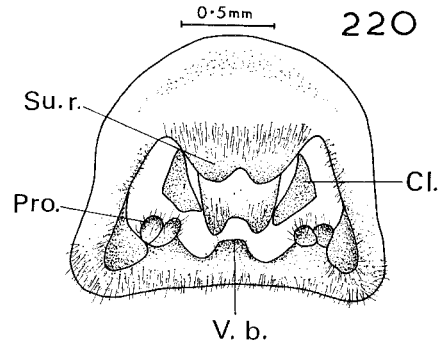
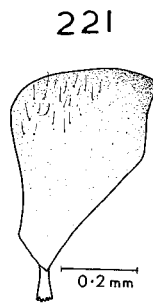
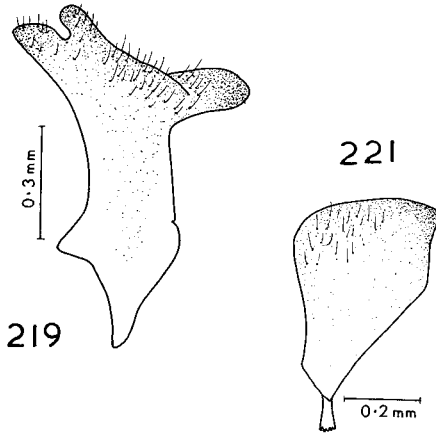
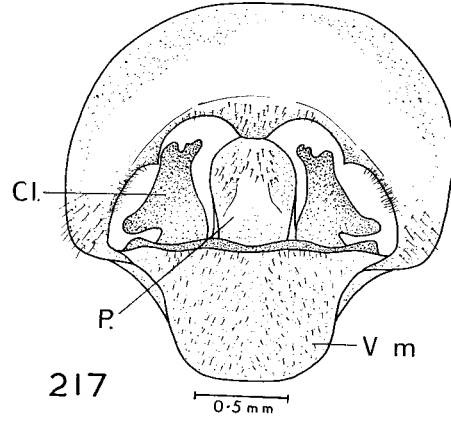
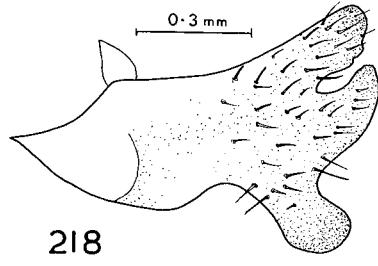
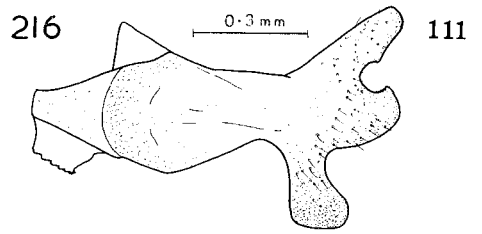
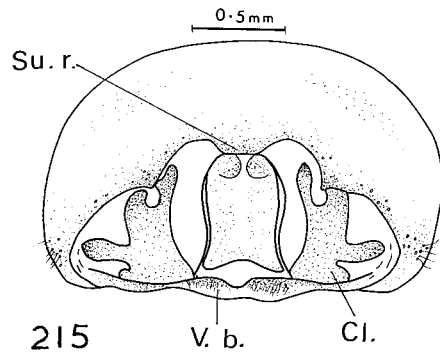
210



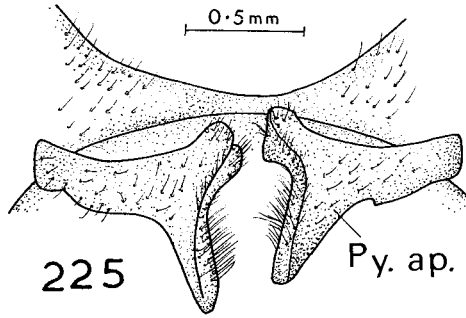
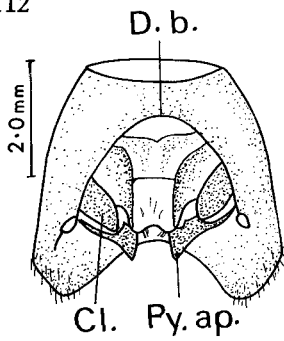
214



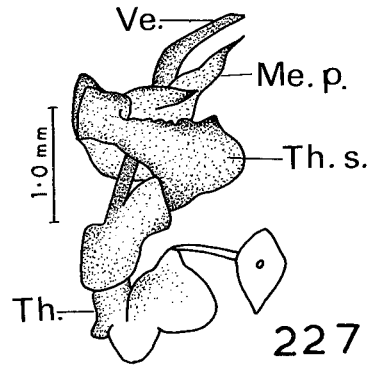
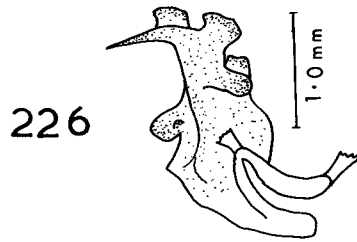
213



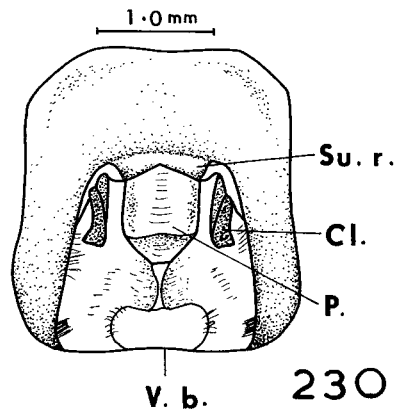
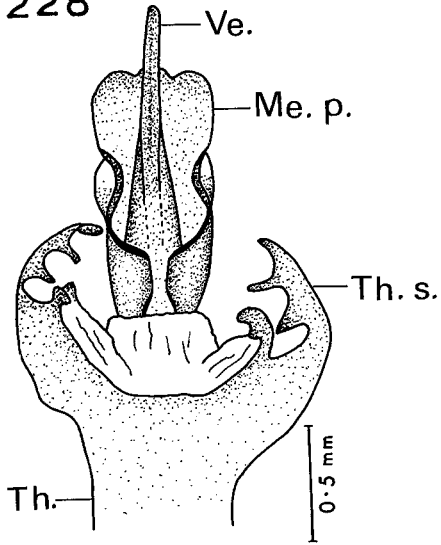
112



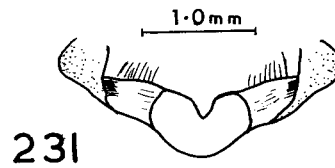
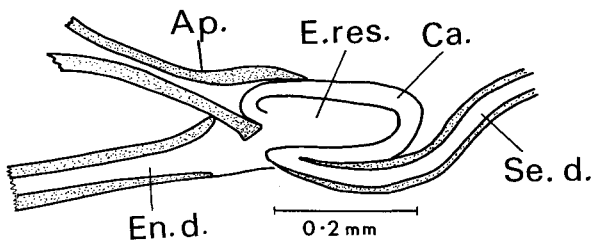
224

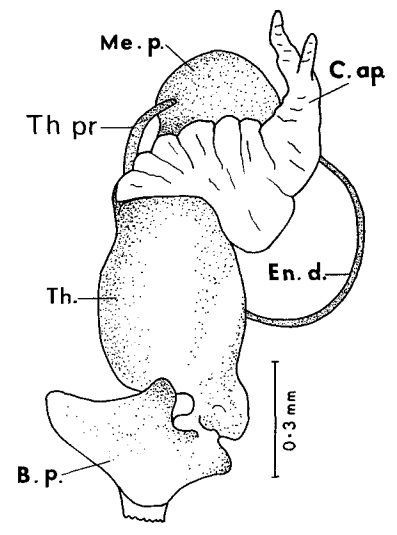
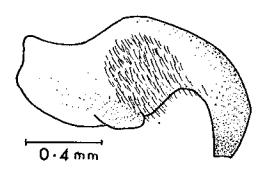
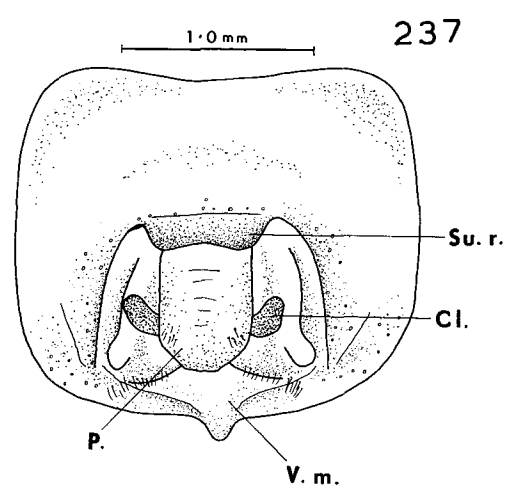
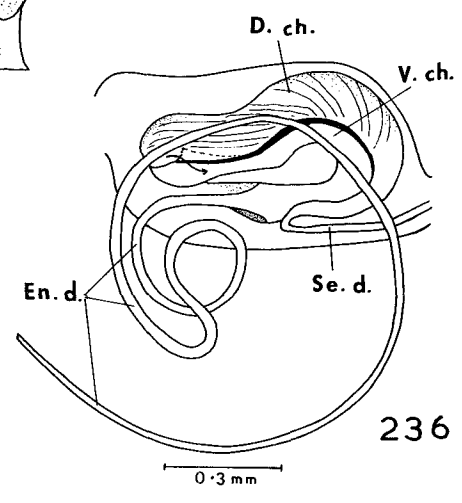
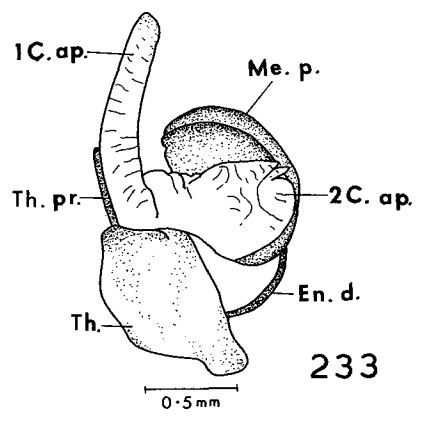
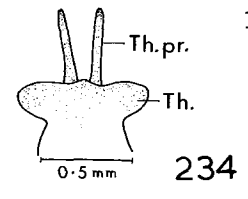
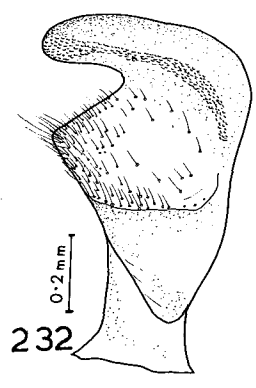
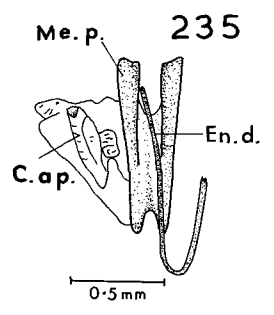


228



229





238

239

233

236

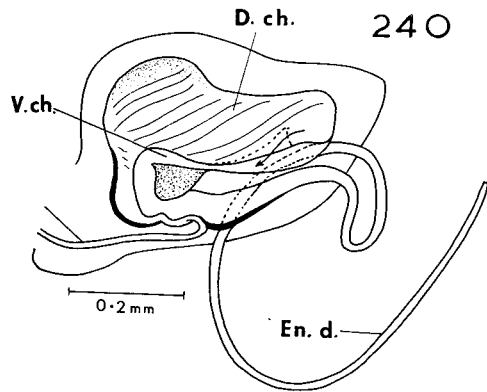
232

234

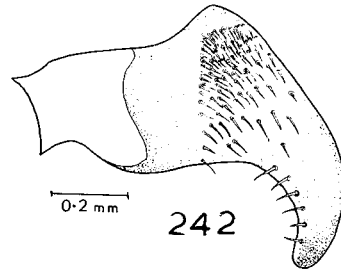
237

235

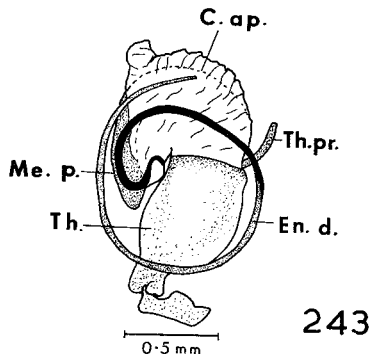
114



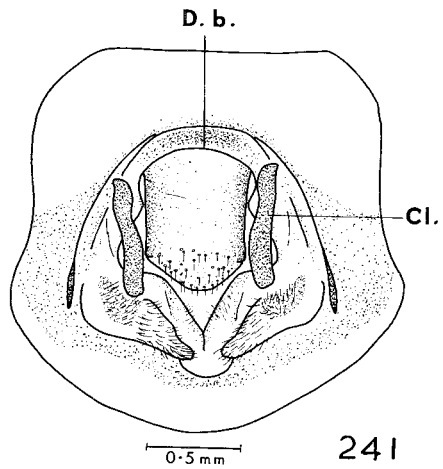
240



242

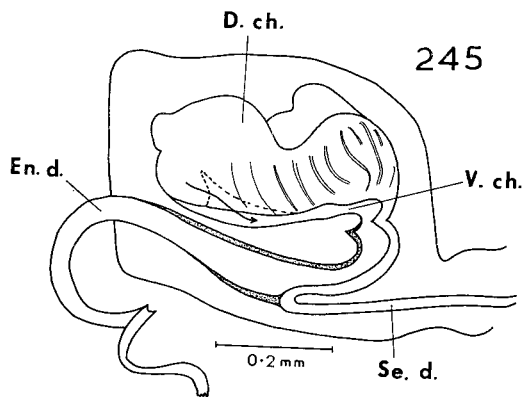
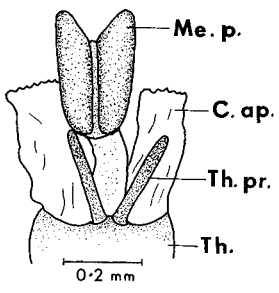


243

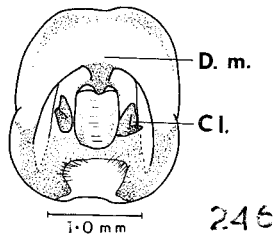


241

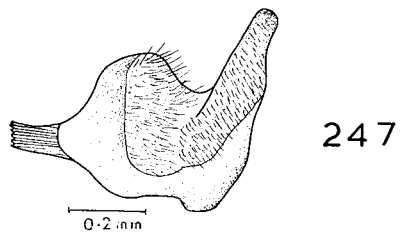
244



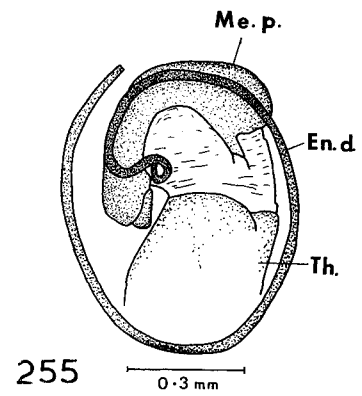
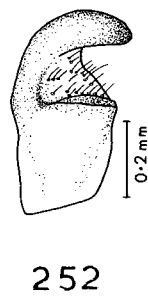
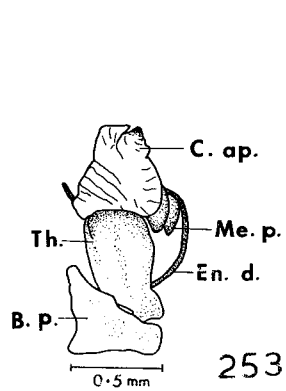
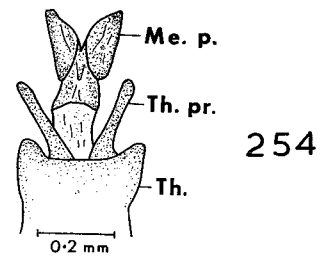
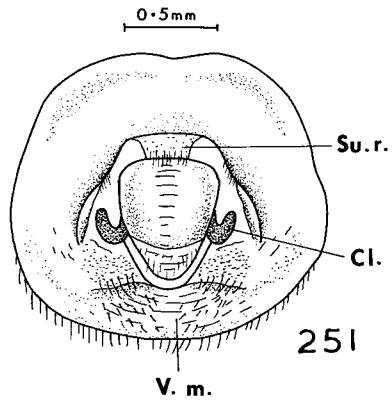
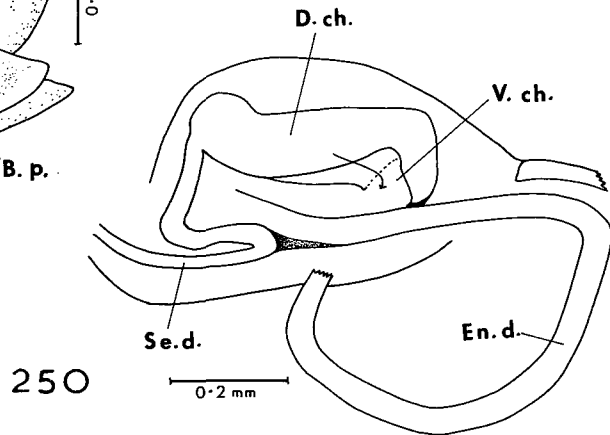
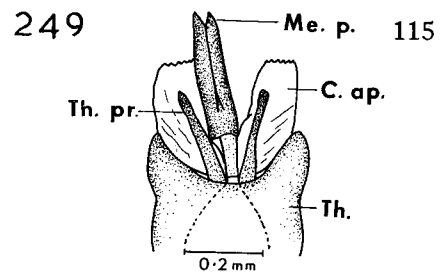
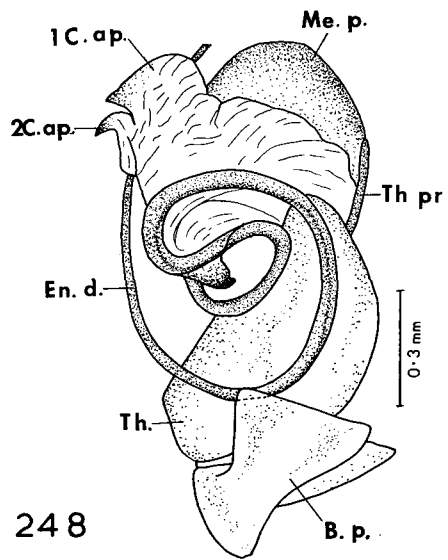
245



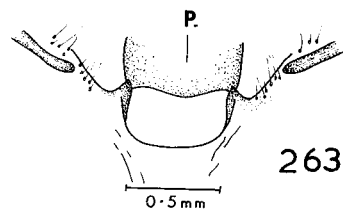
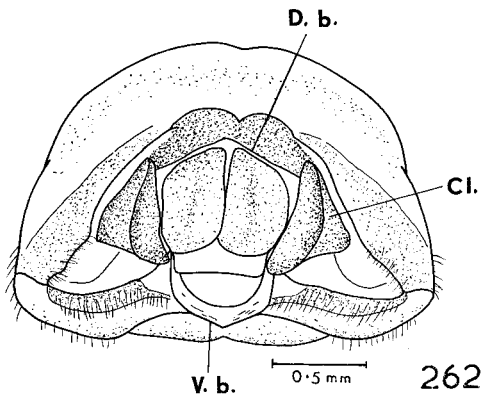
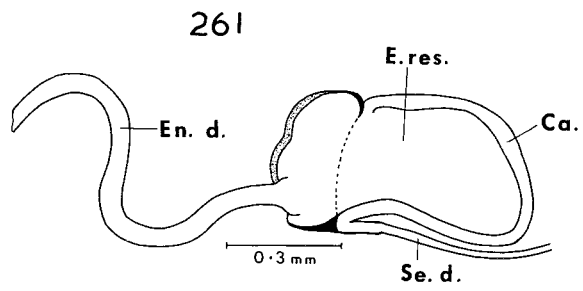
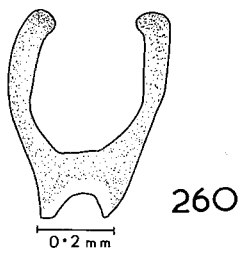
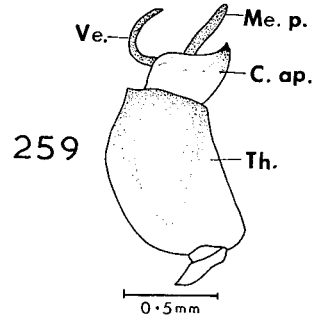
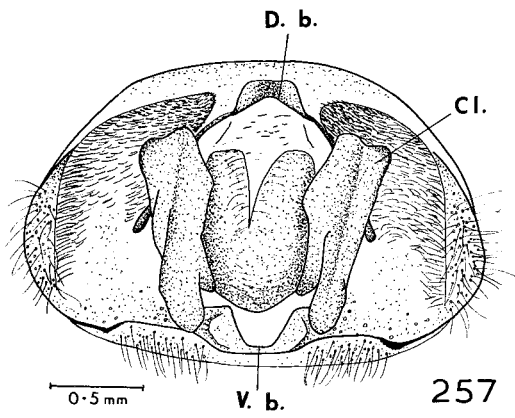
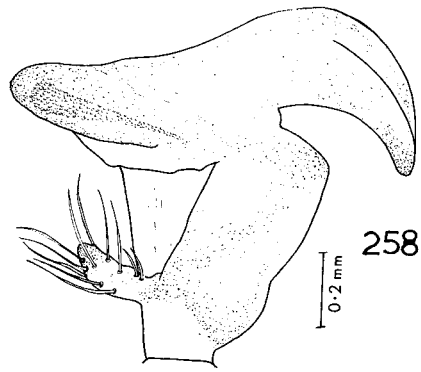
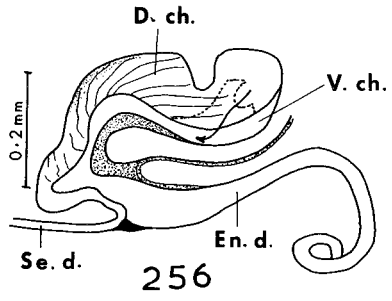
246

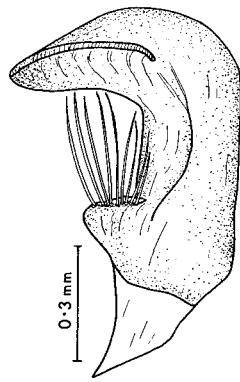


247

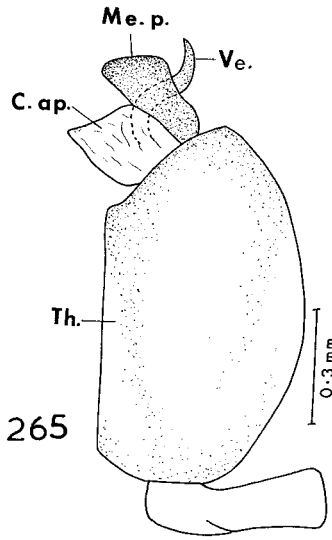


116

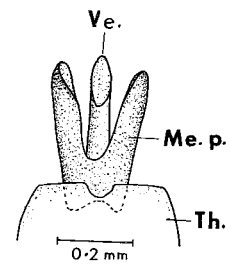




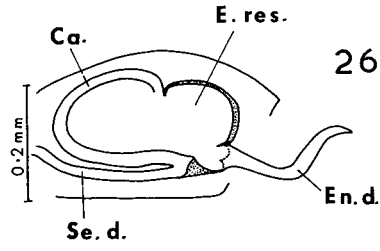
264



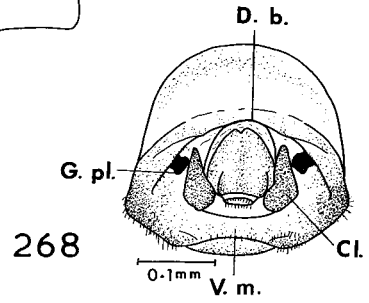
265



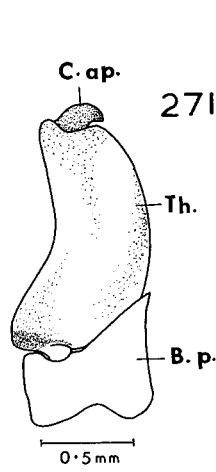
266



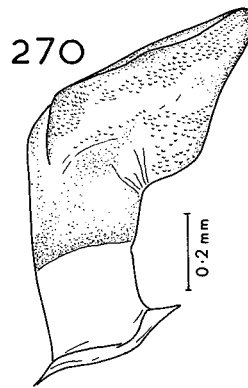
267



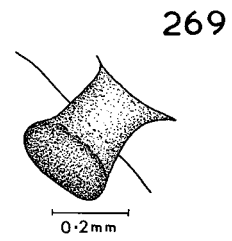
268



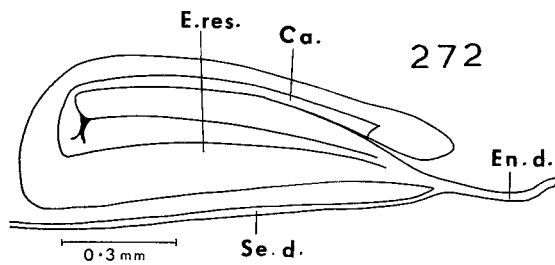
271



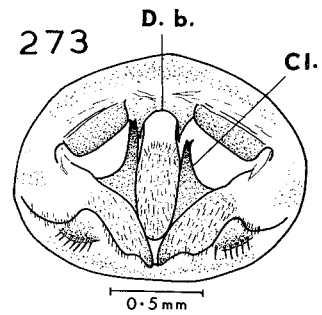
270



269

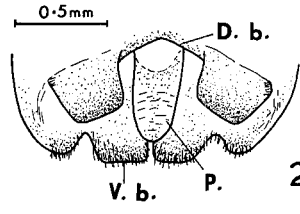


272

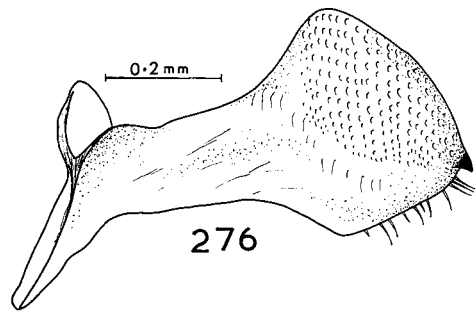


273

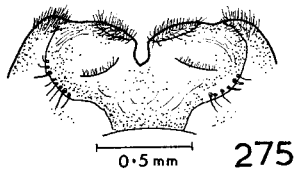
118



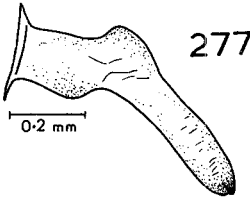
274



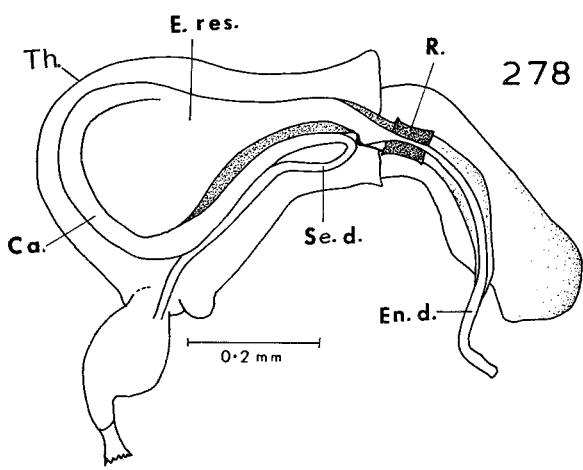
276



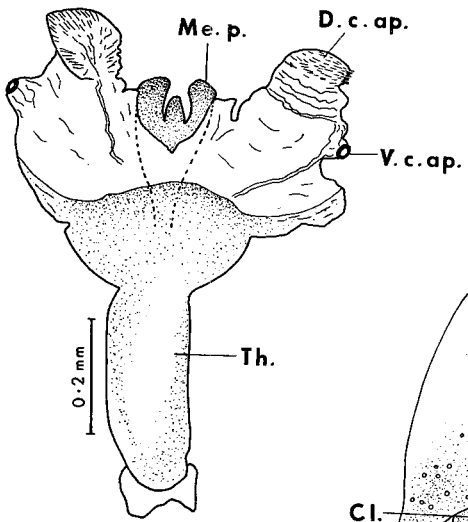
275



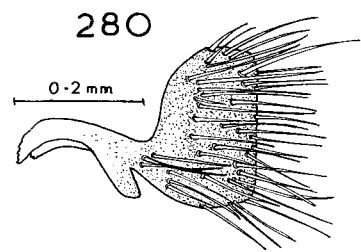
277



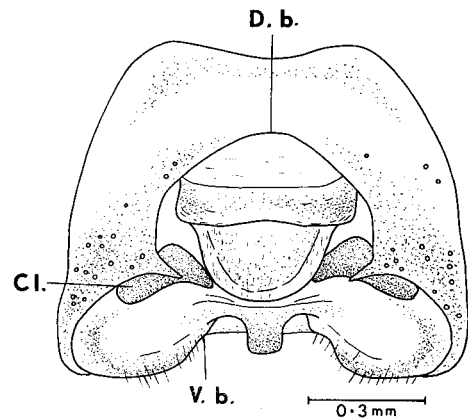
278



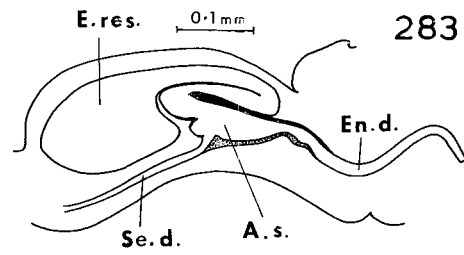
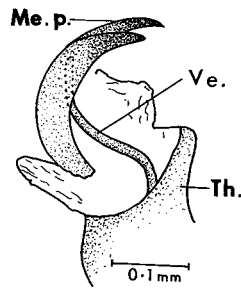
281



280

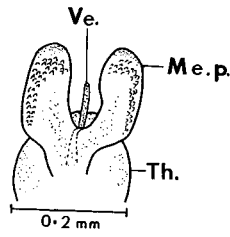


279

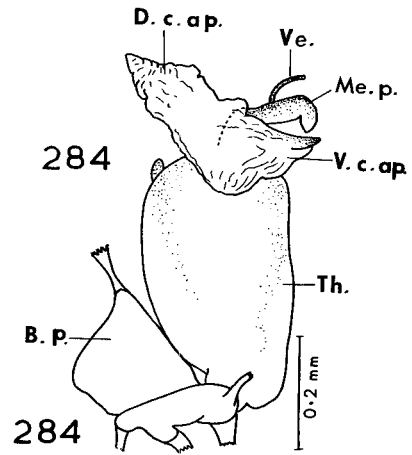


282

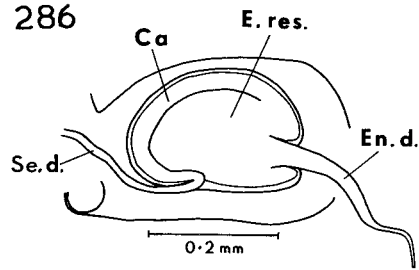
285



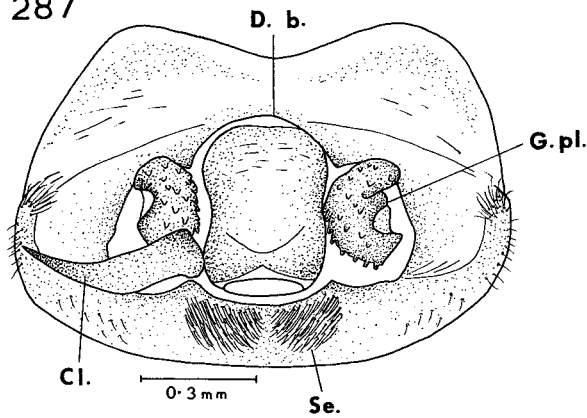
284



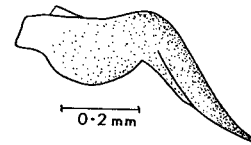
286



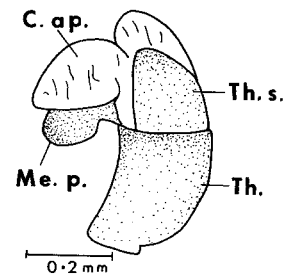
287



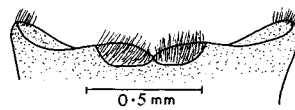
289



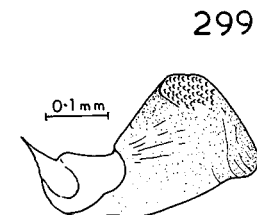
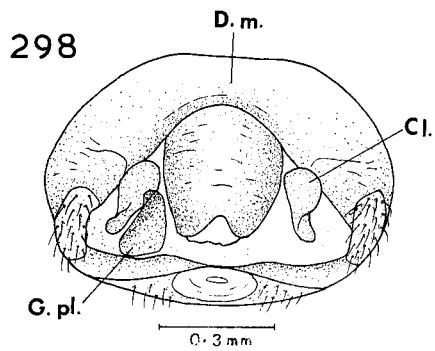
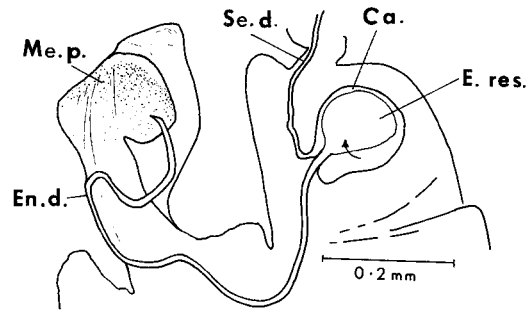
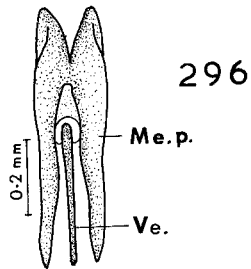
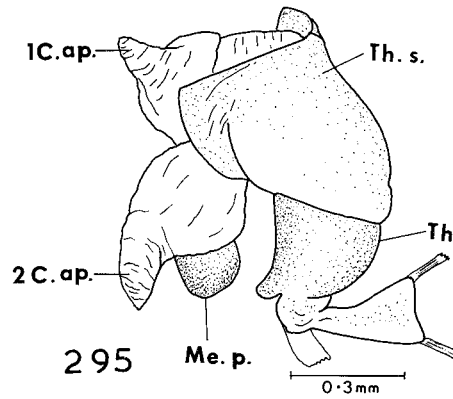
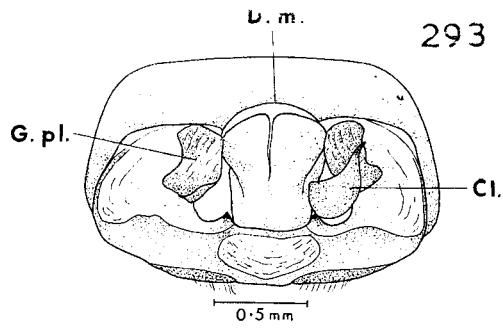
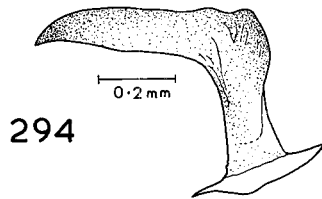
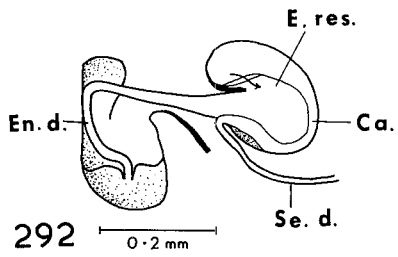
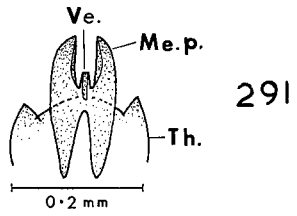
290

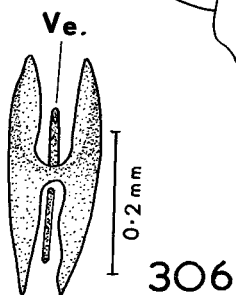
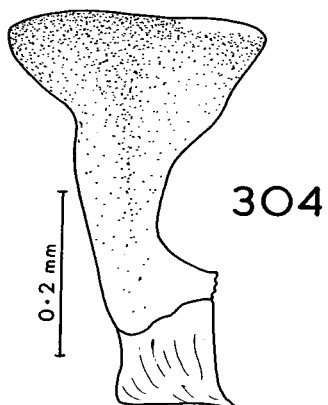
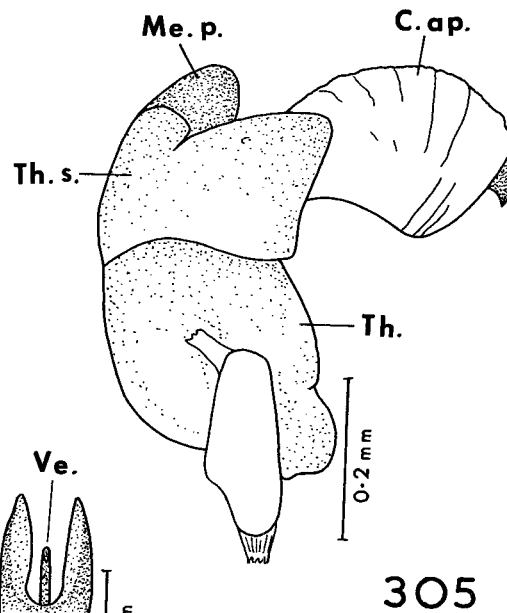
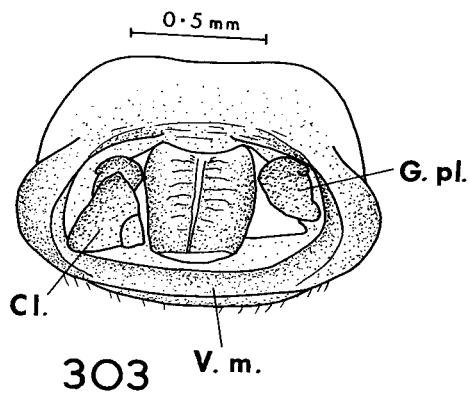
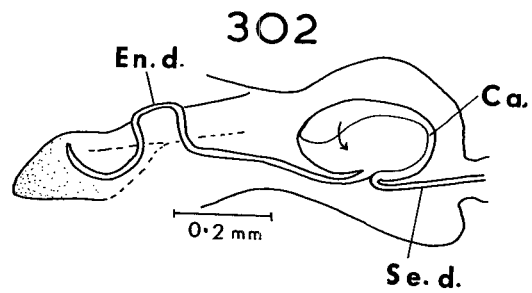
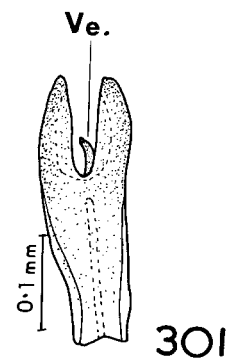
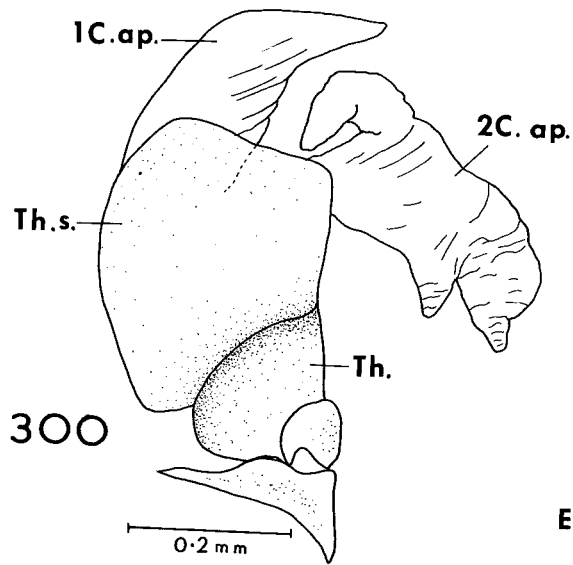


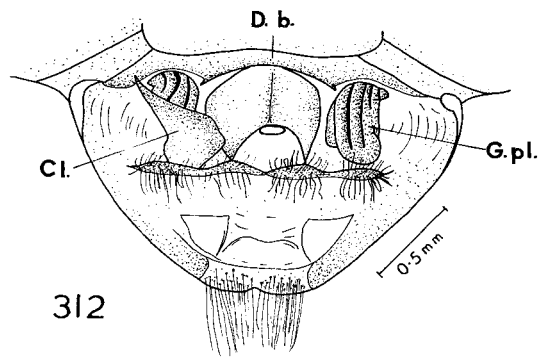
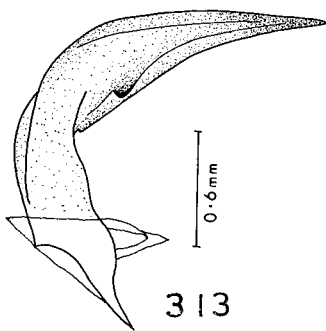
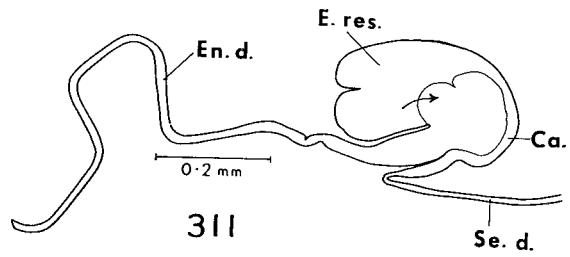
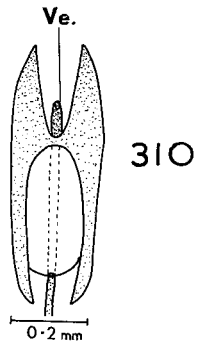
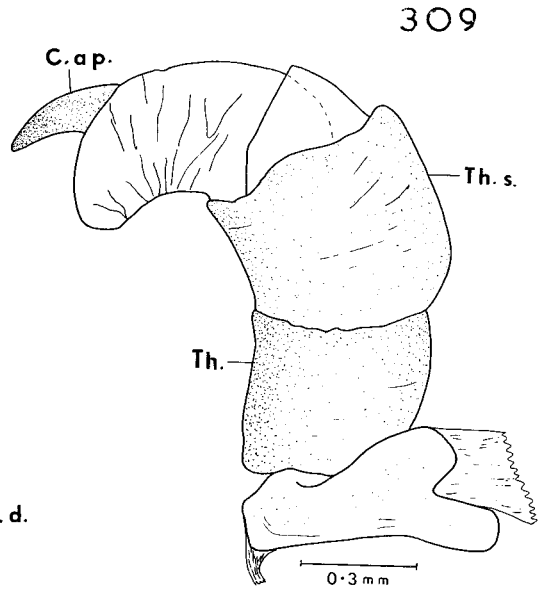
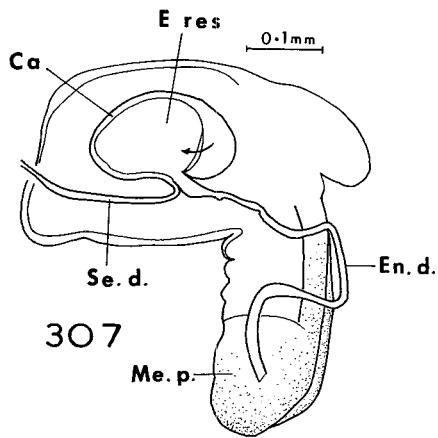
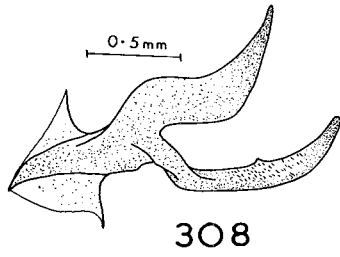
288

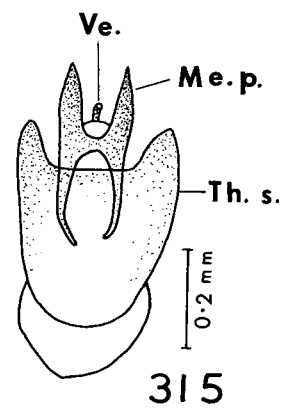


120

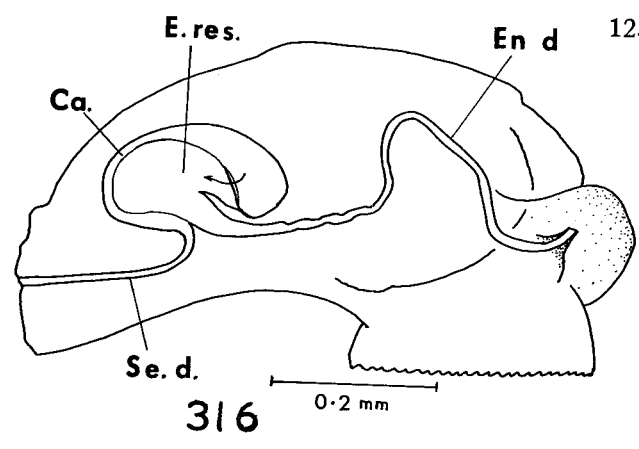




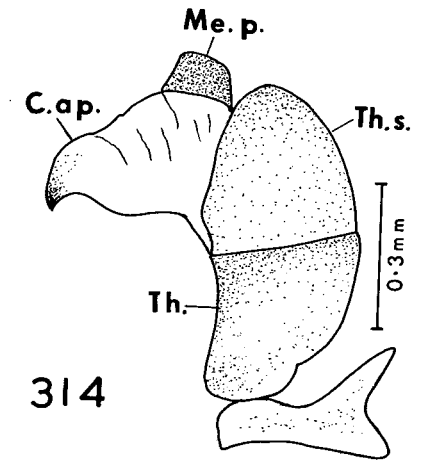




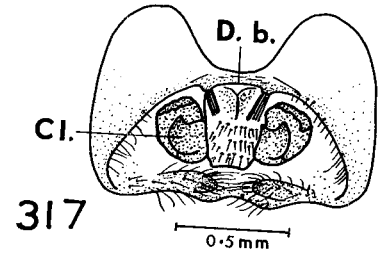
315



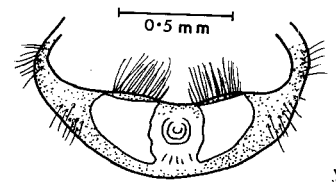
316



314

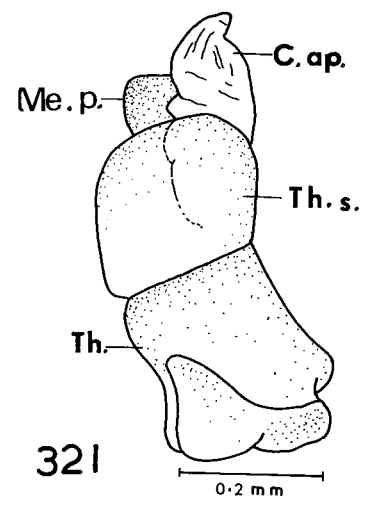
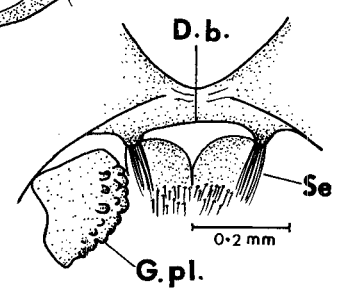


317

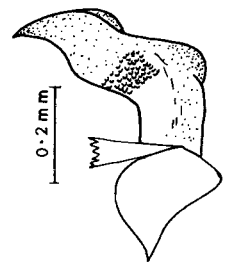


318

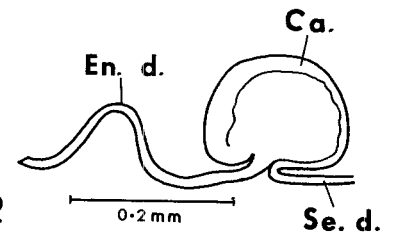
319



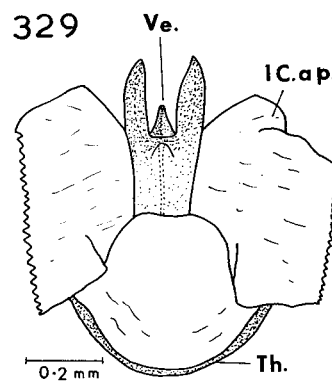
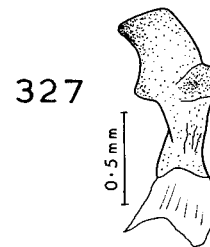
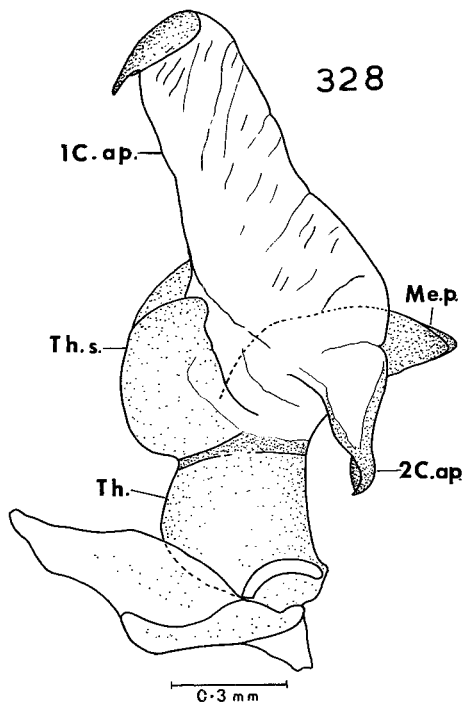
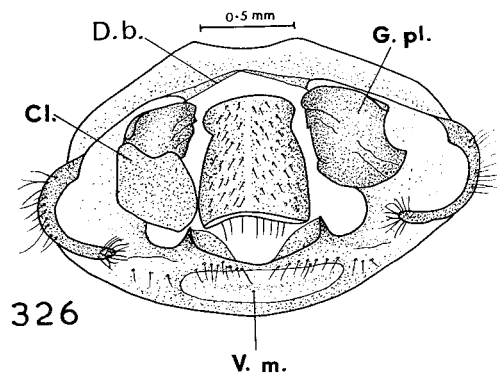
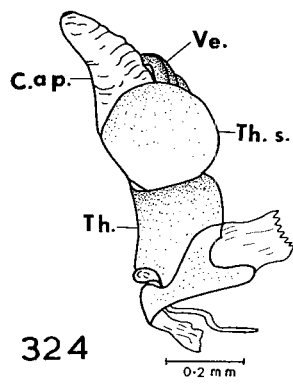
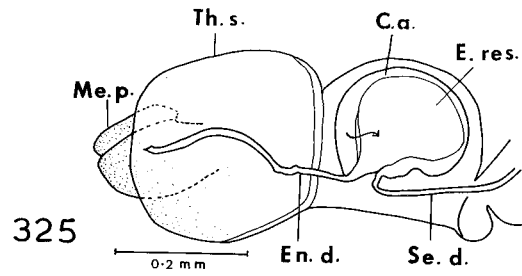
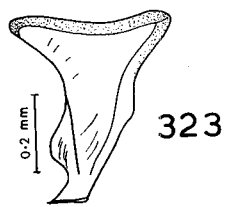
321

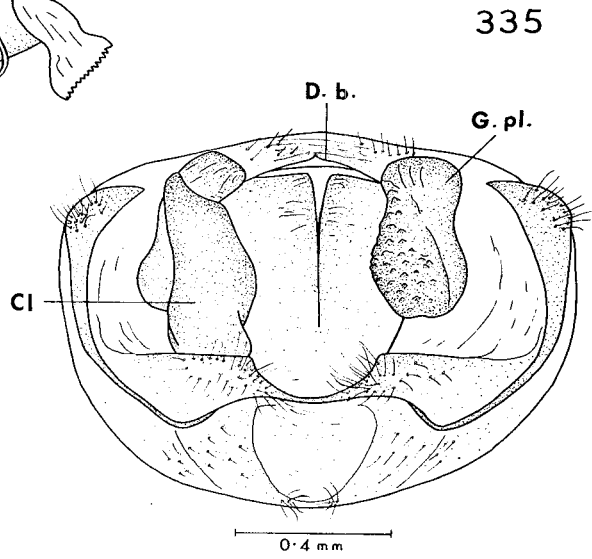
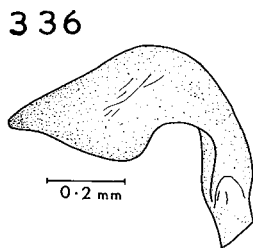
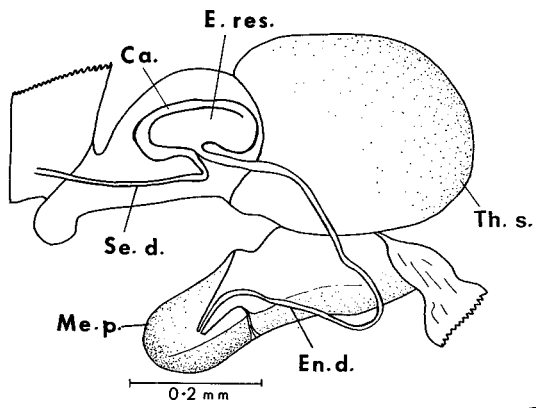
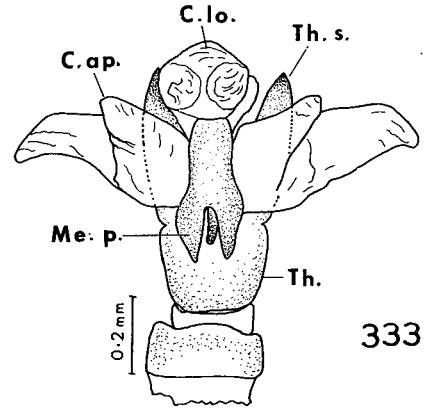
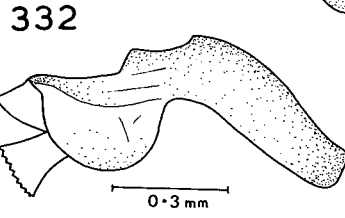
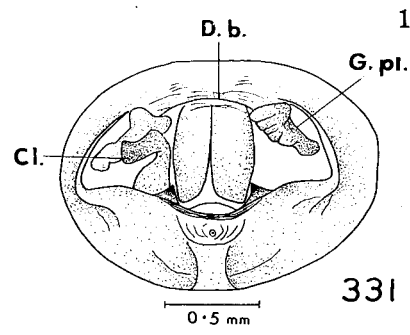
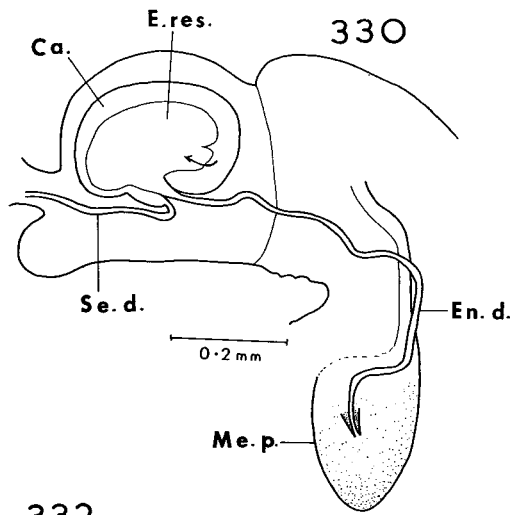


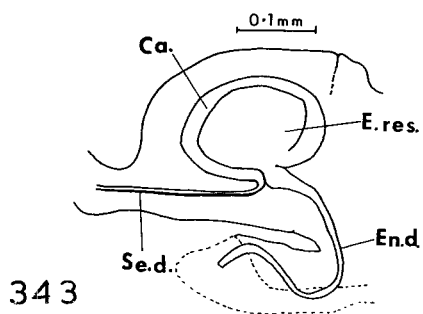
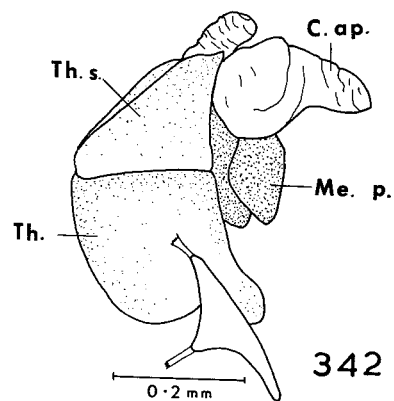
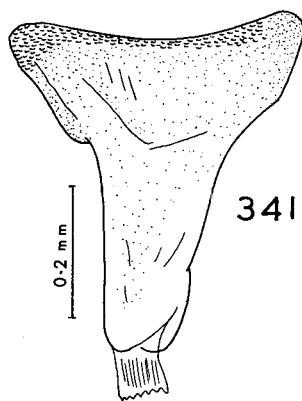
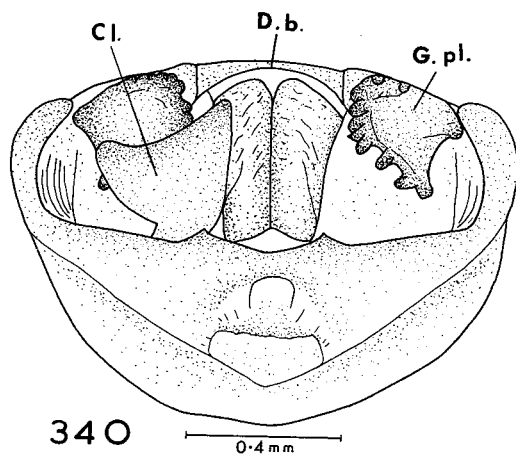
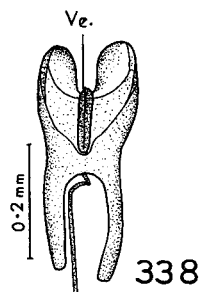
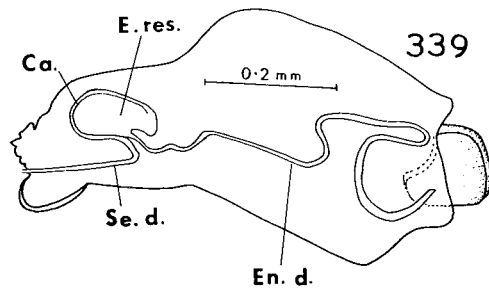
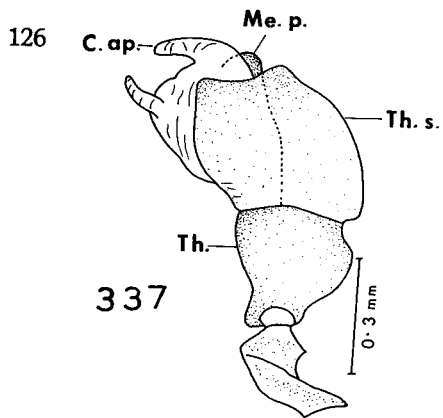
320

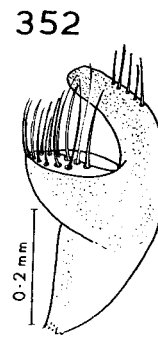
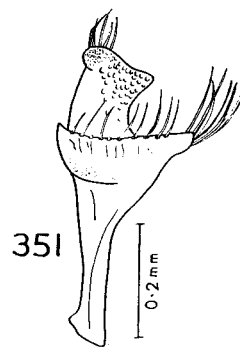
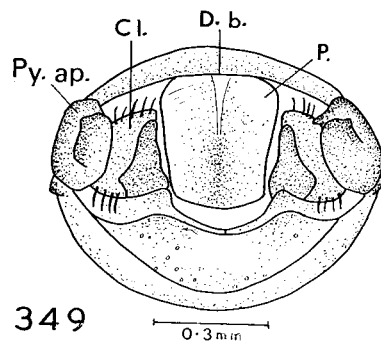
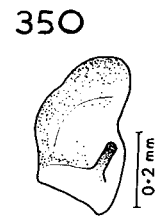
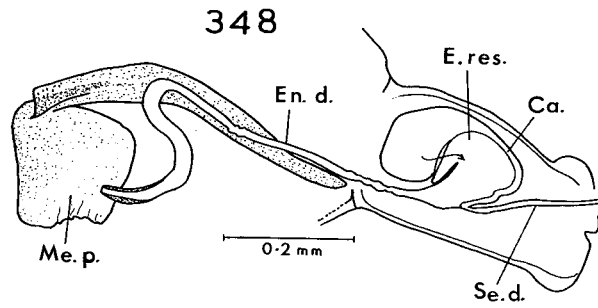
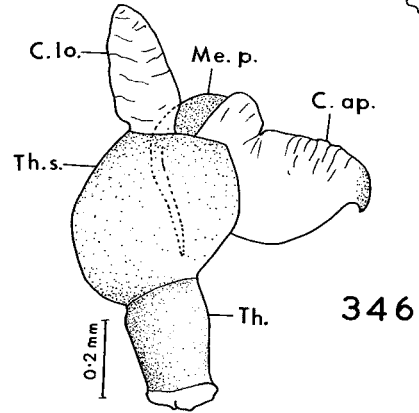
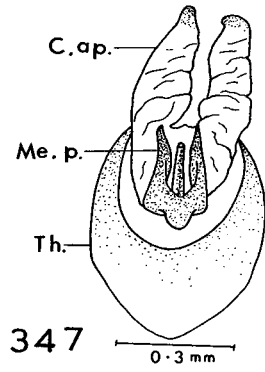
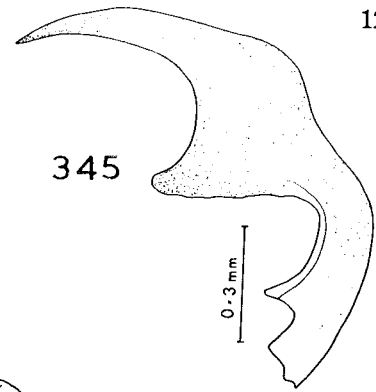
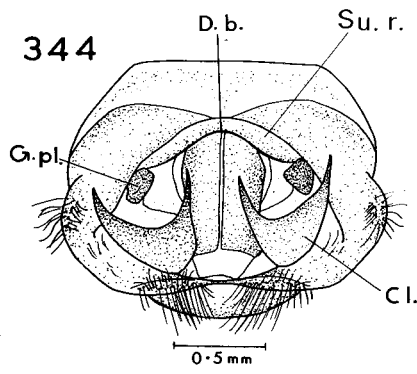


322

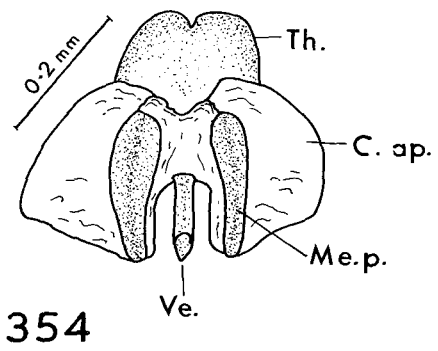
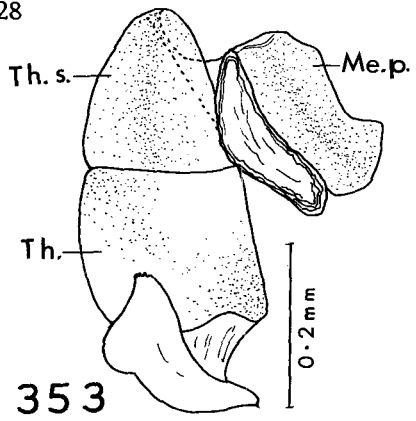




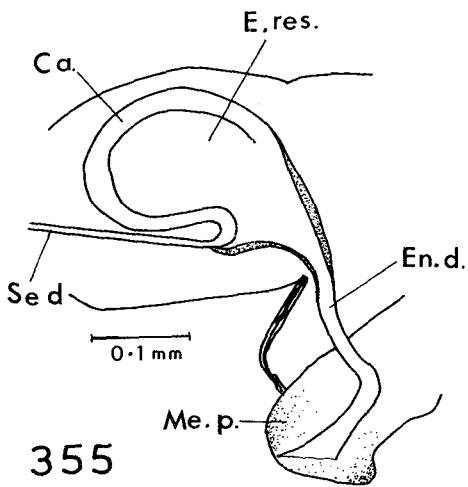




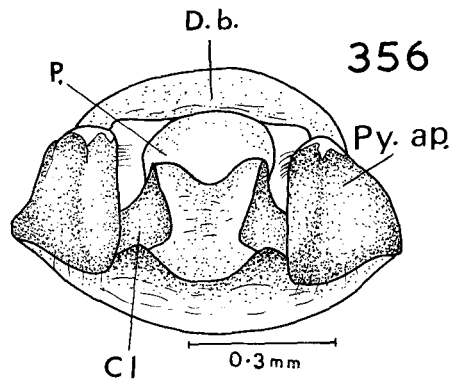
128



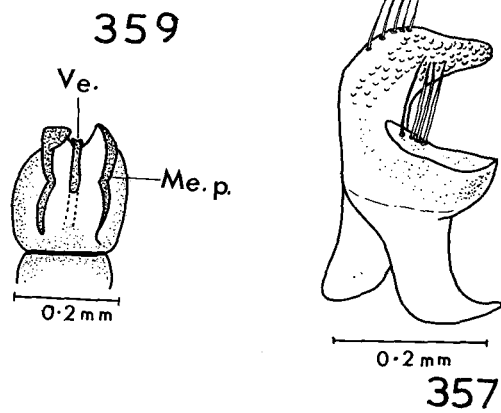
354



355

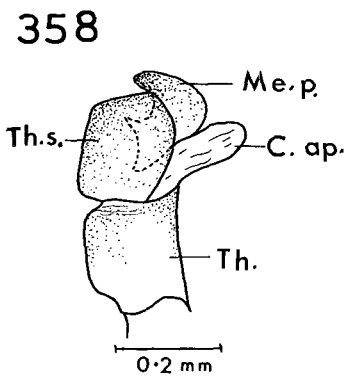


356

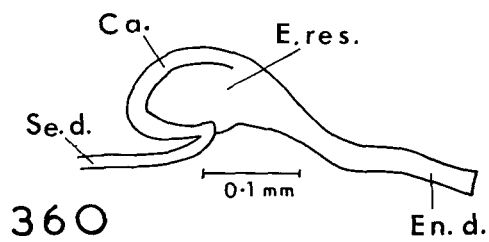


359

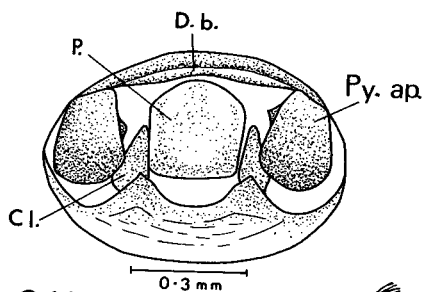
357



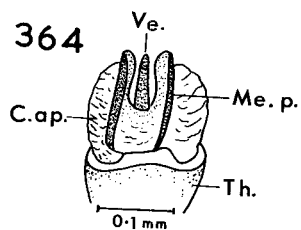
358



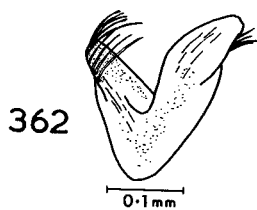
360



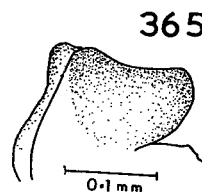
361



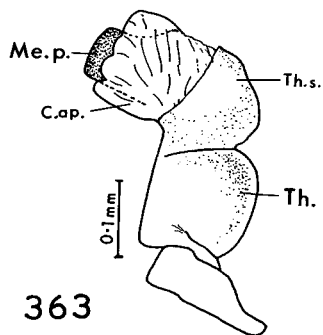
364



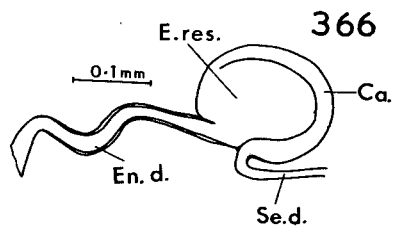
362



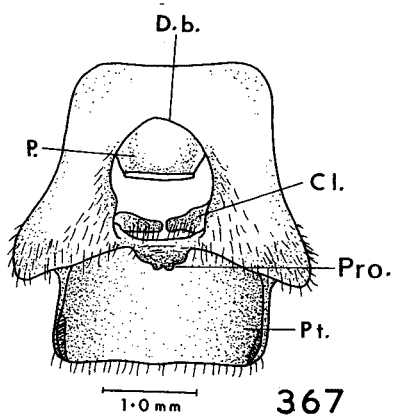
365



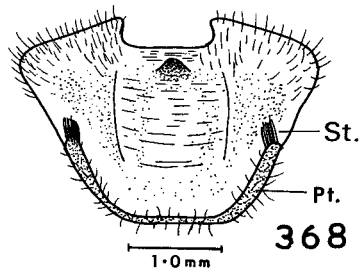
363



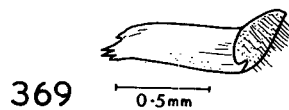
366



367

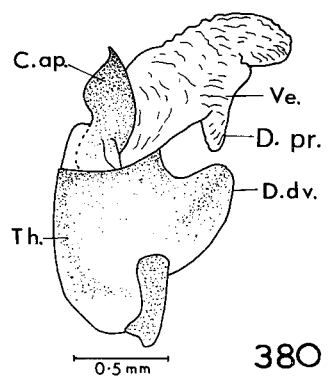
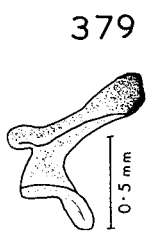
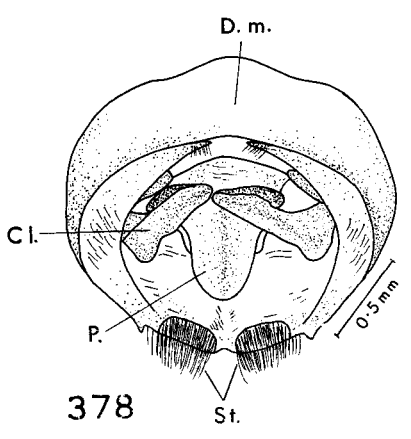
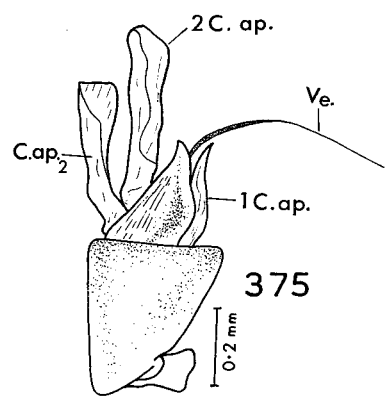
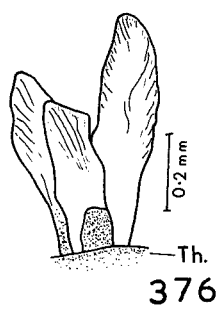
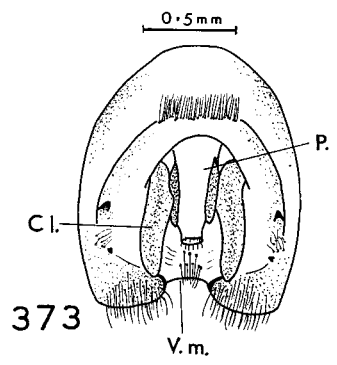
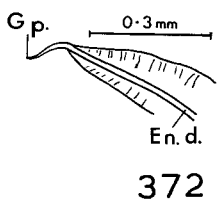
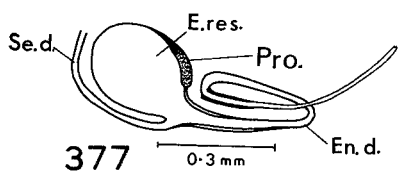
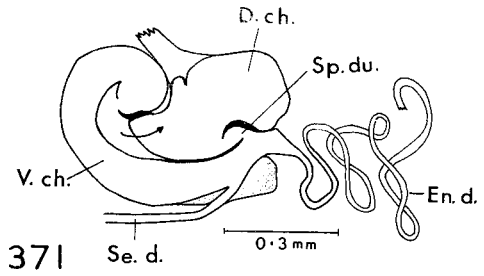
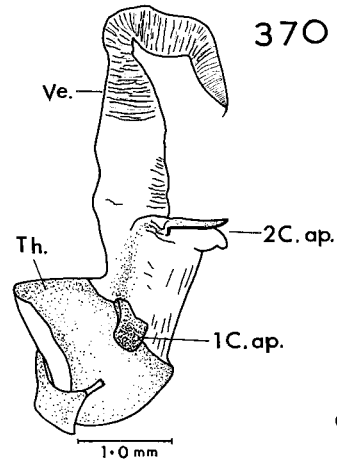


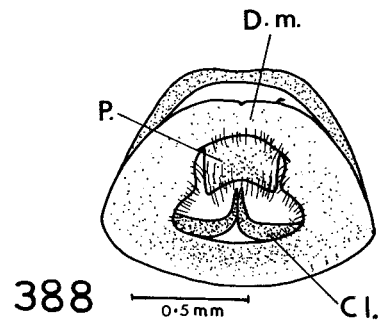
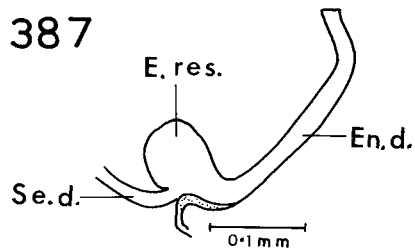
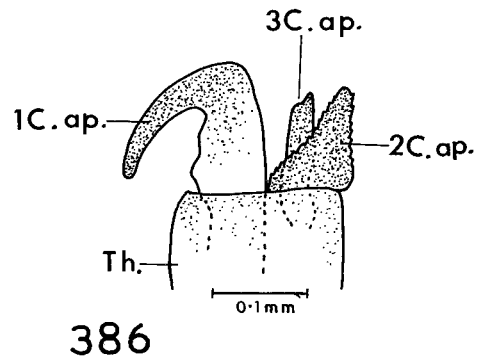
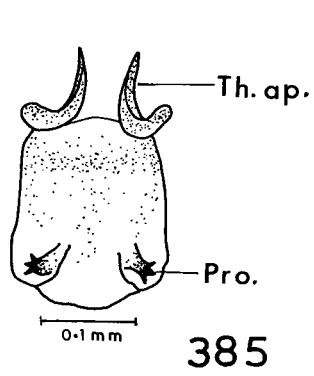
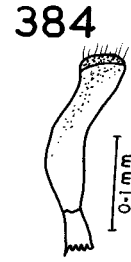
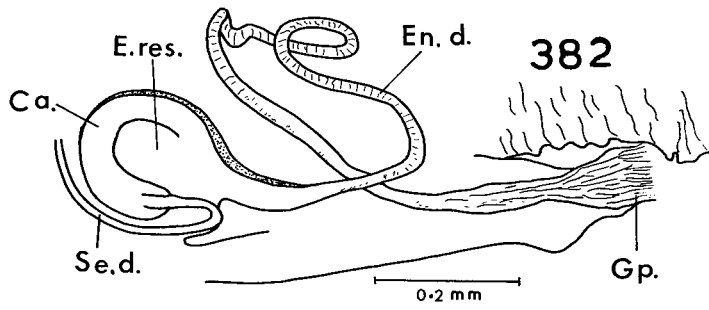
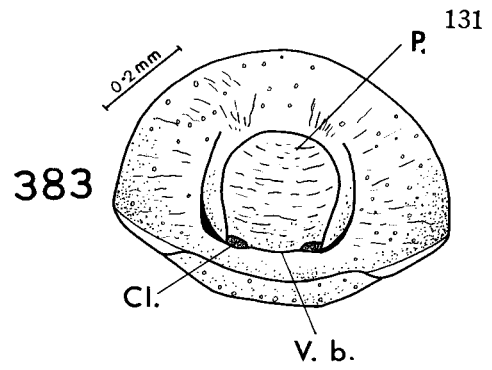
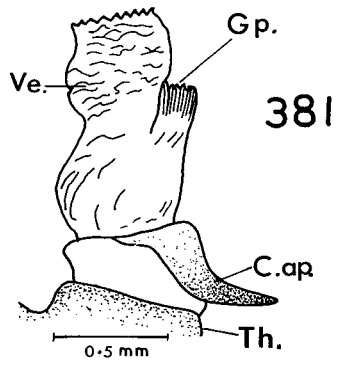
368



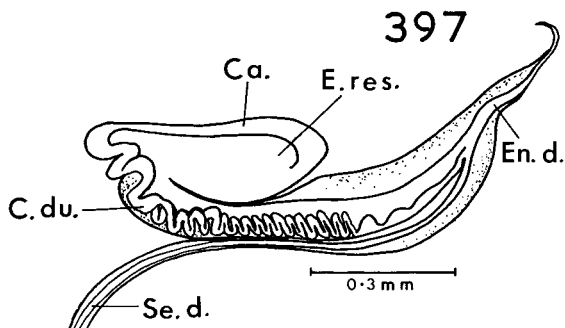
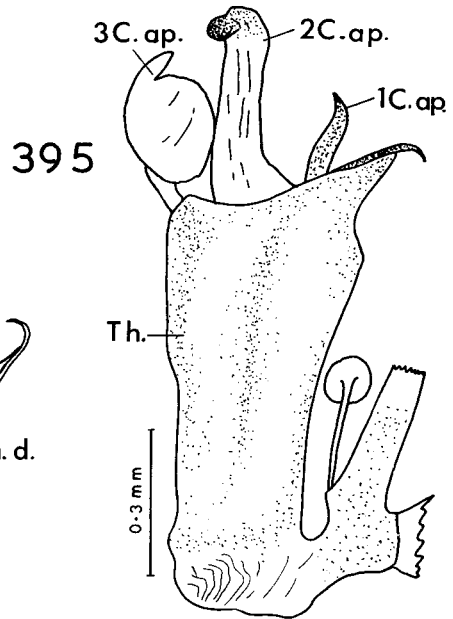
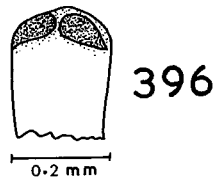
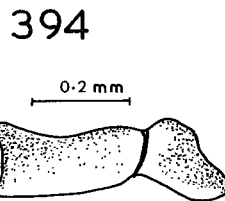
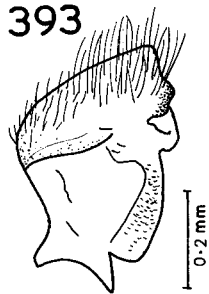
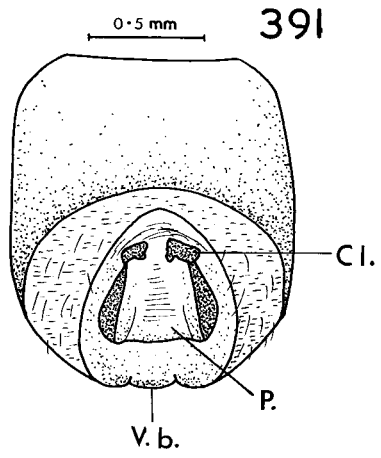
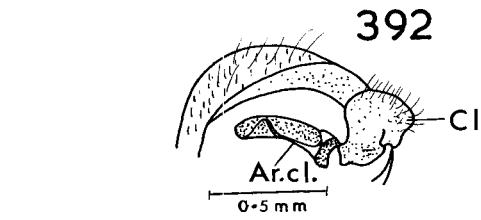
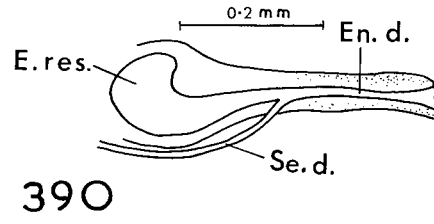
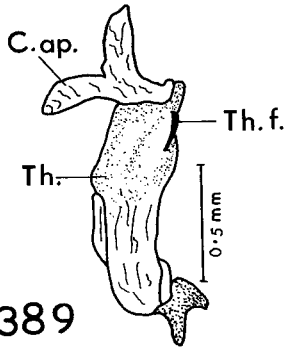
369

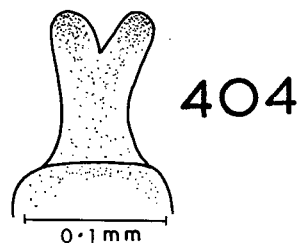
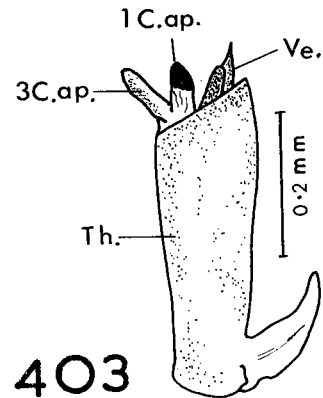
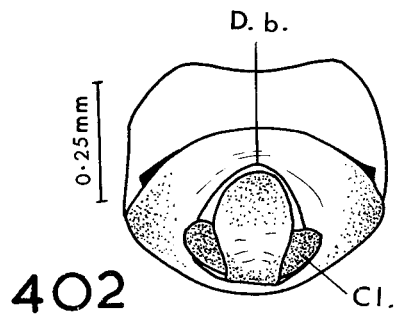
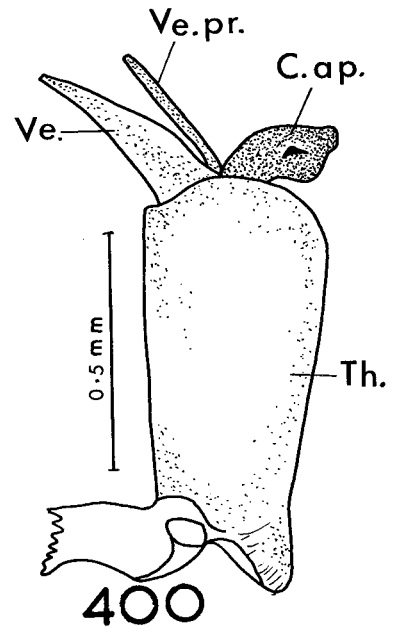
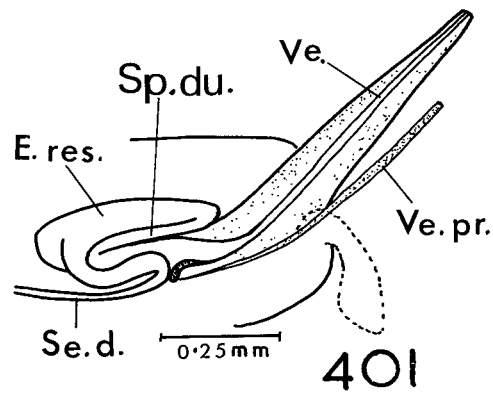
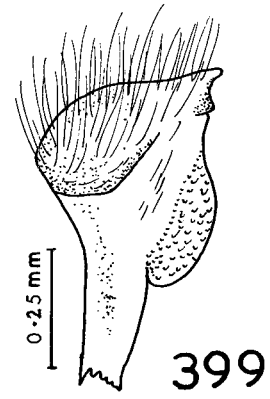
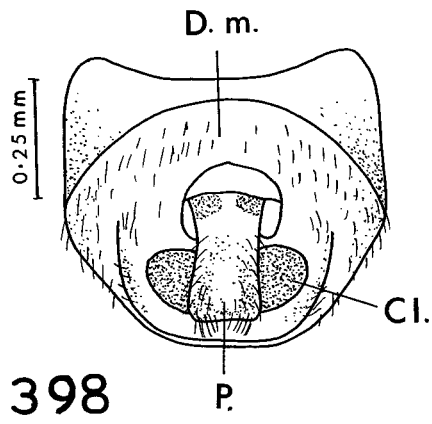
130

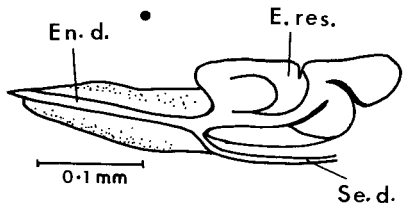




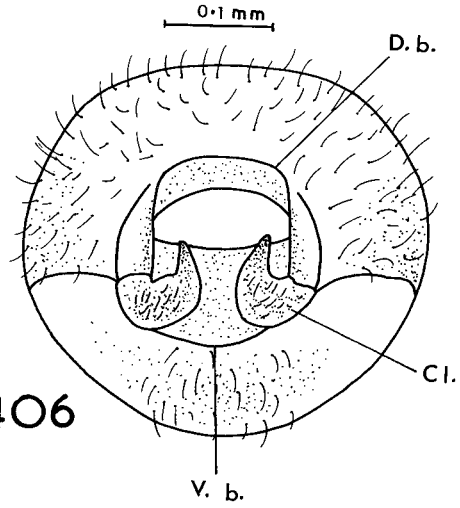
132



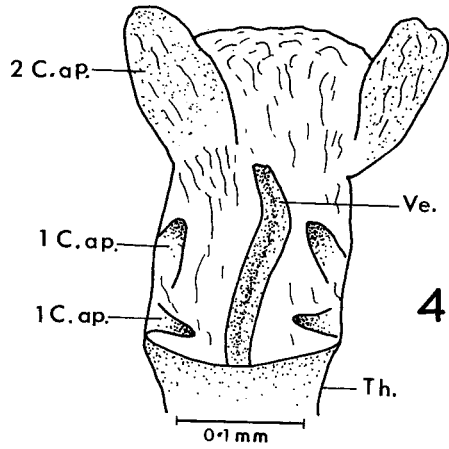




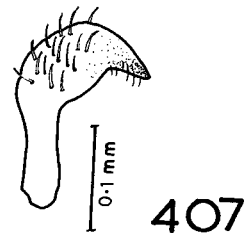
405



406

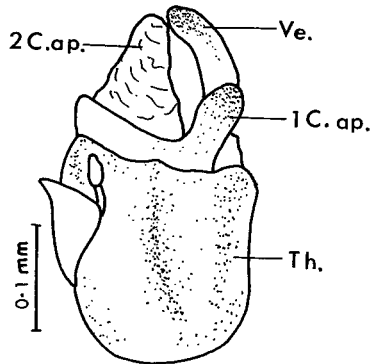


409

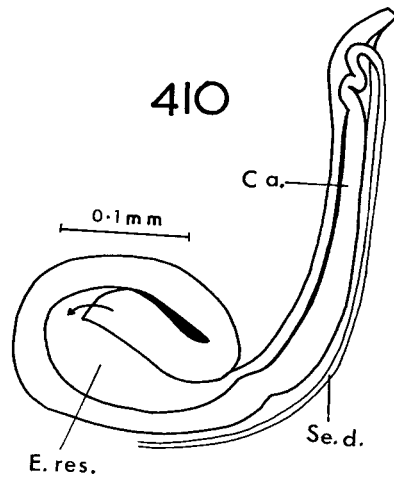


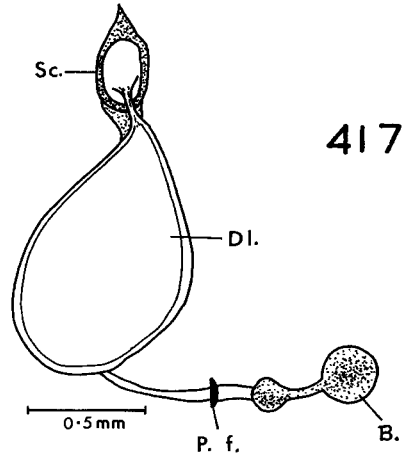
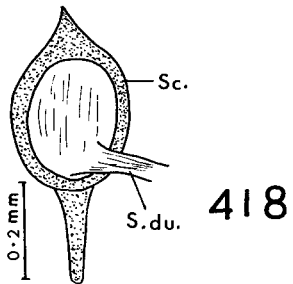
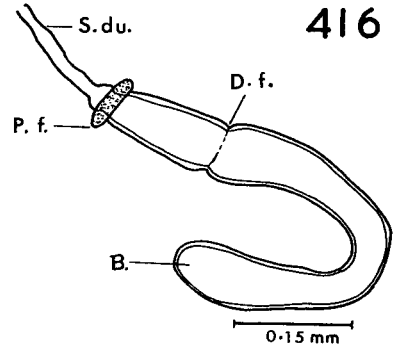
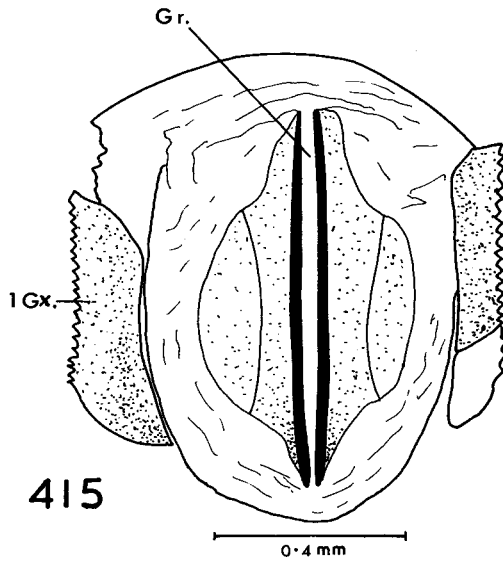
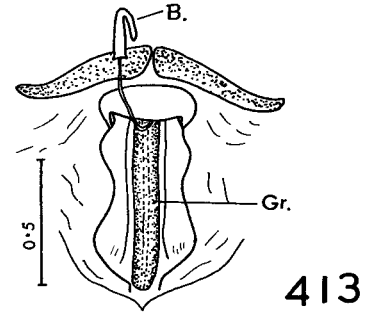
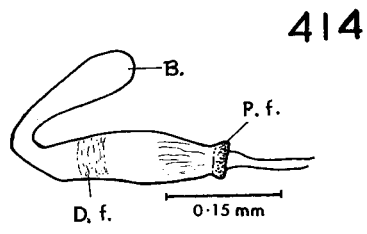
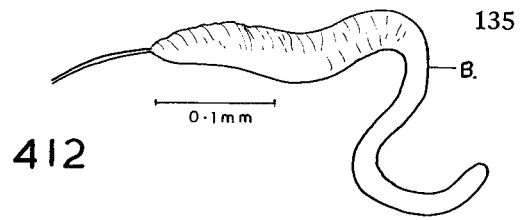
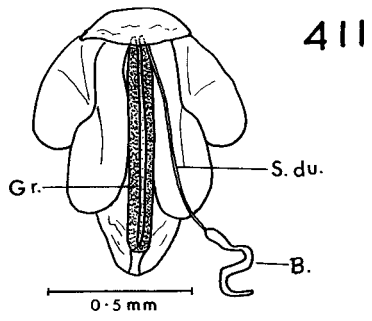
407

408

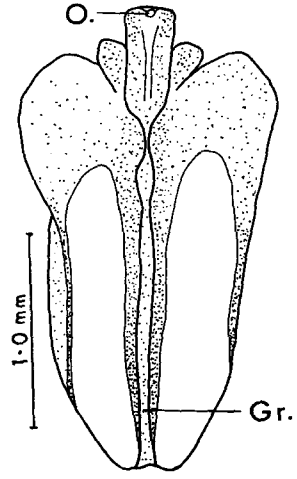
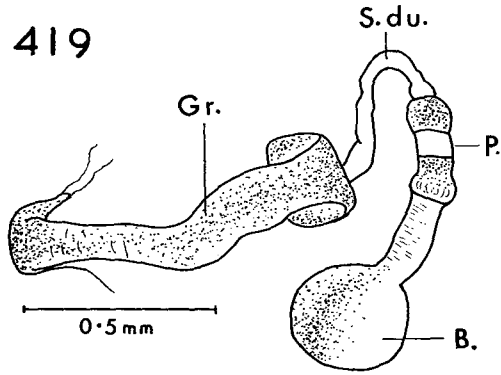


410

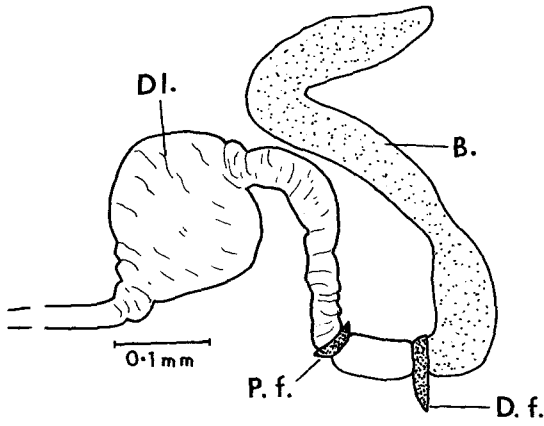




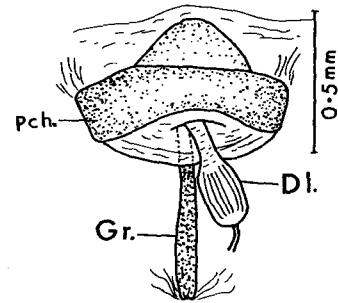
419



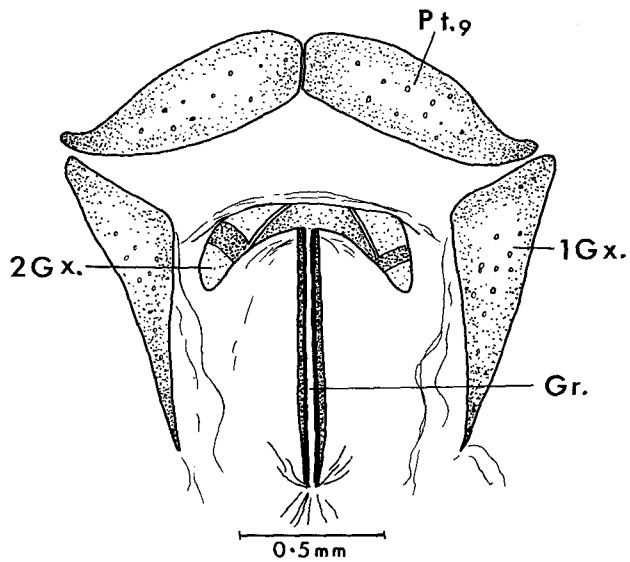
420



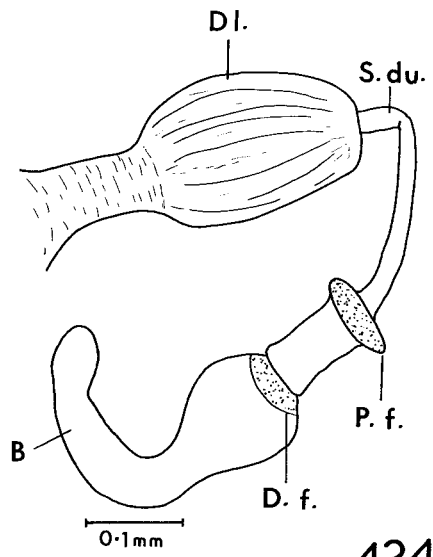
421



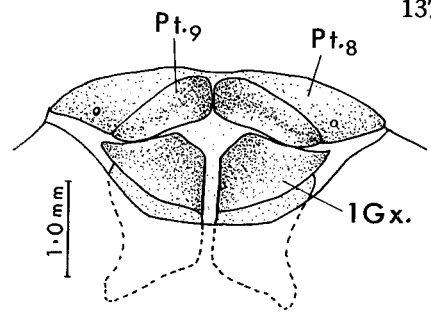
422



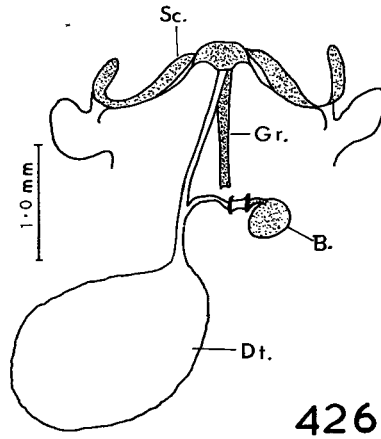
423



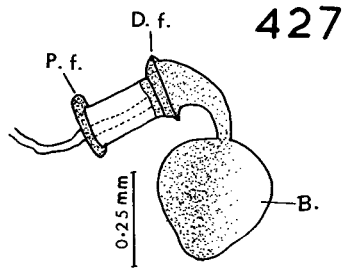
424



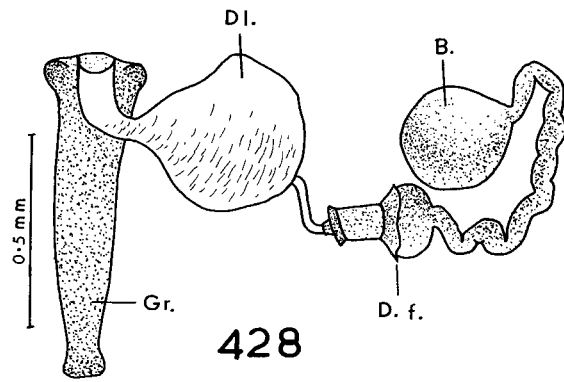
425



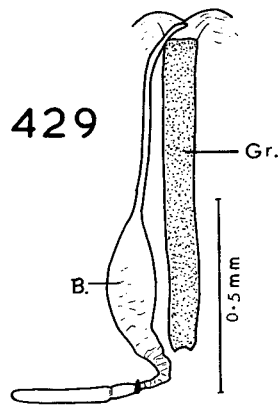
426



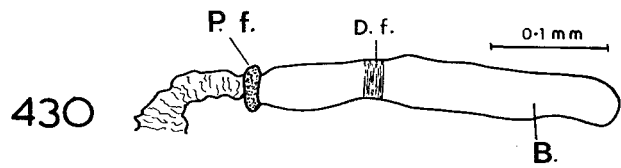
427



428

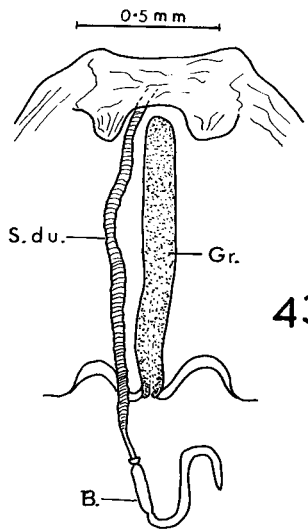


429



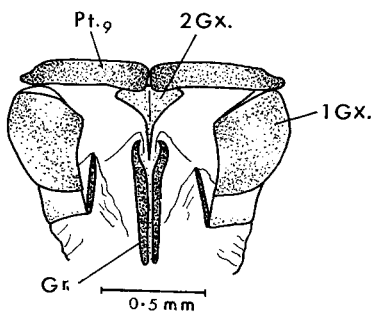
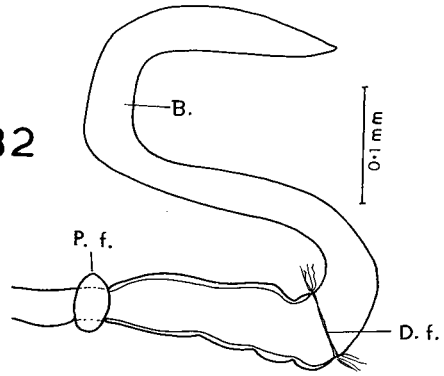
430

138



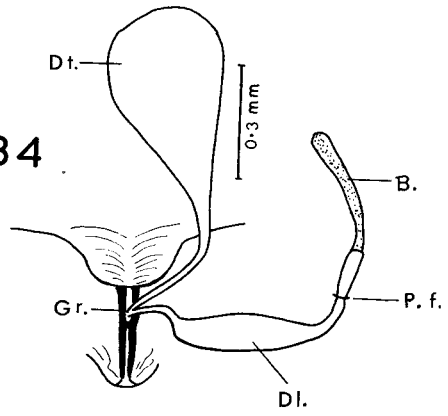
431

432

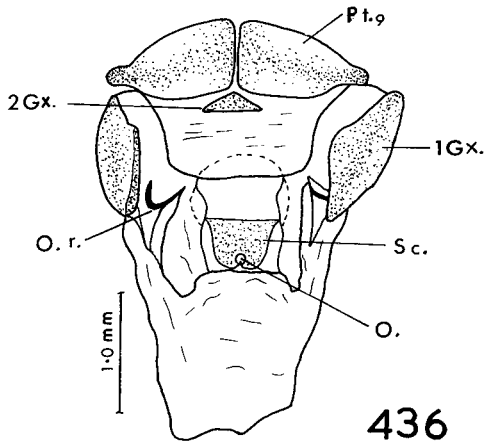
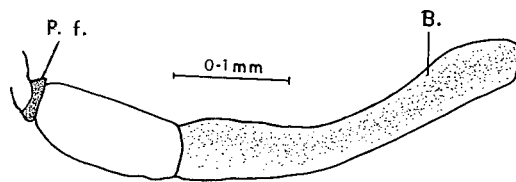


433

434

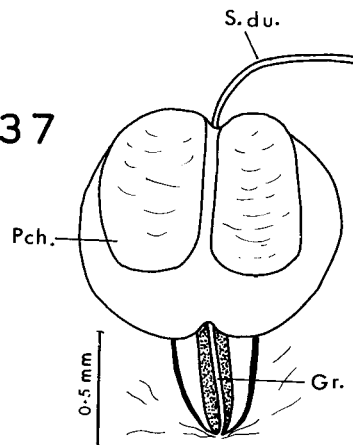


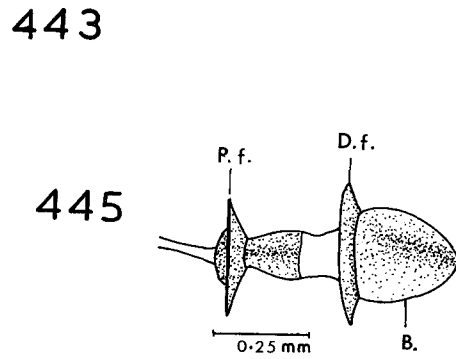
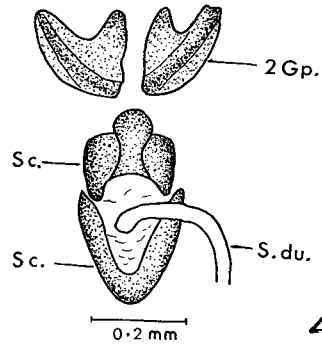
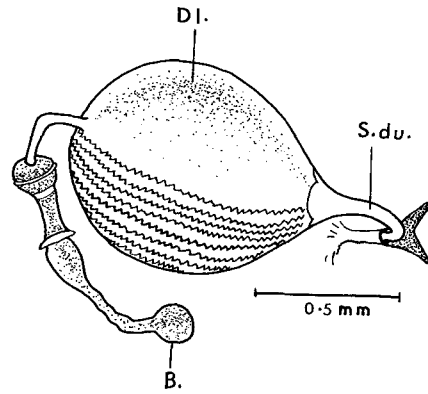
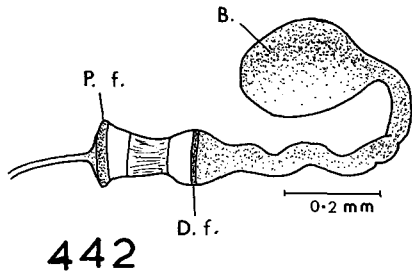
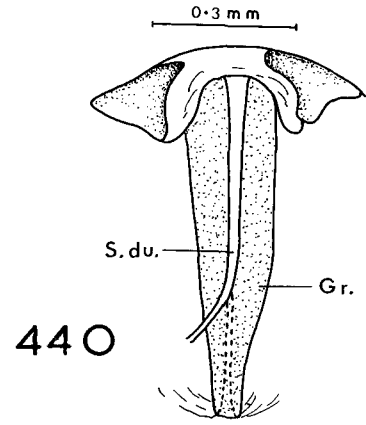
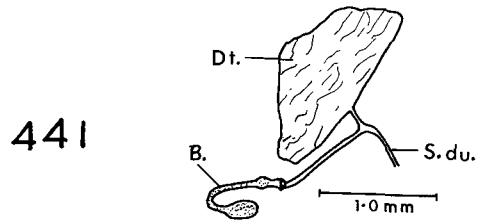
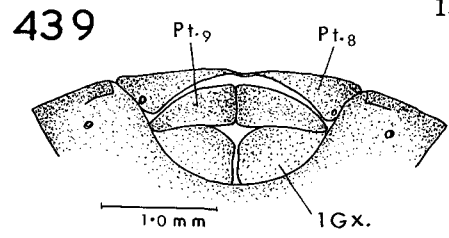
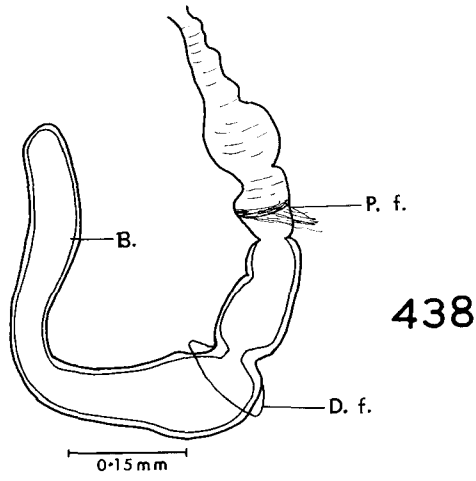
435



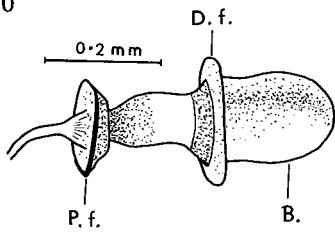
436

437

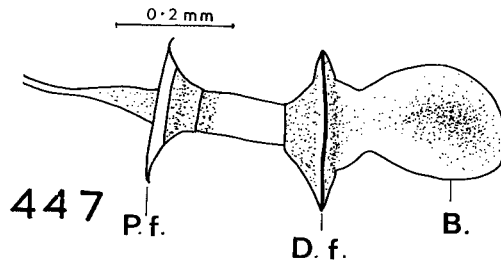




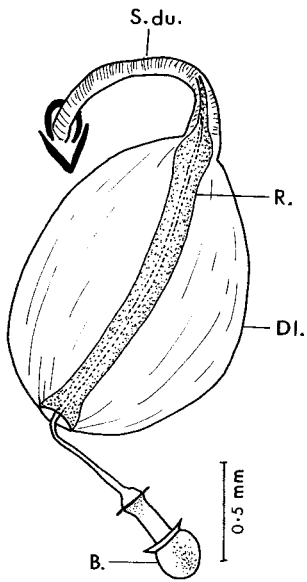
140



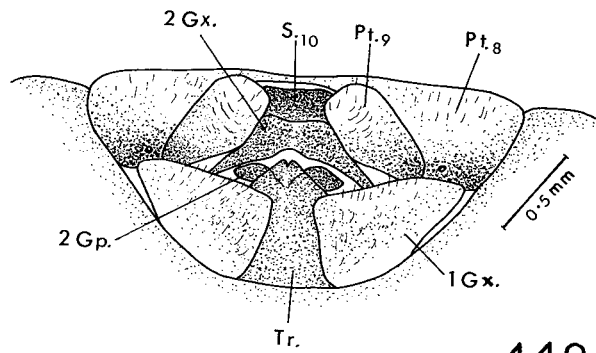
446



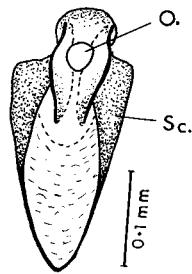
447



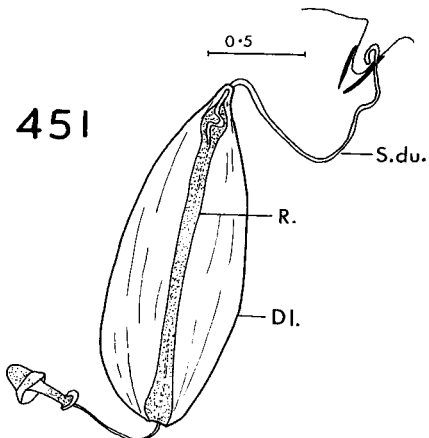
448



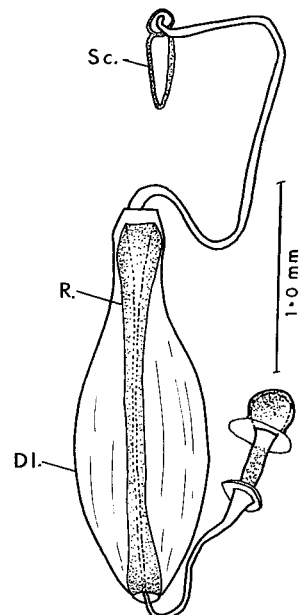
449



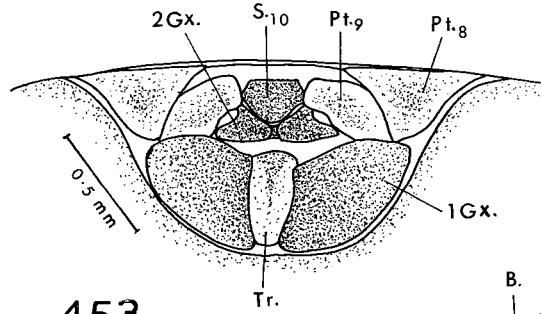
450



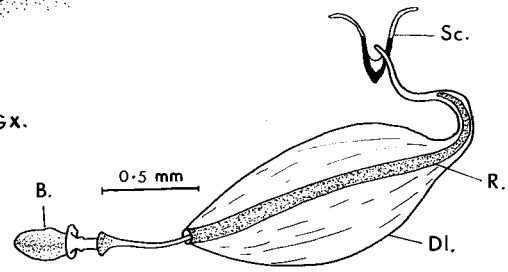
451



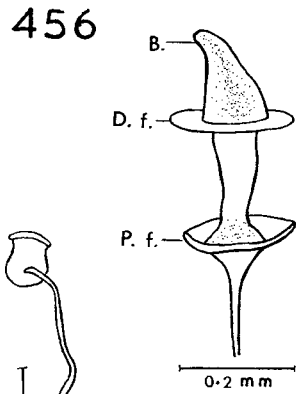
452



453

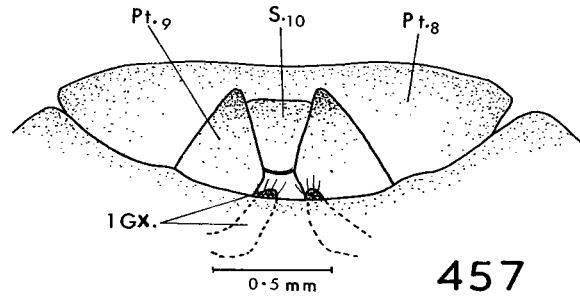


454

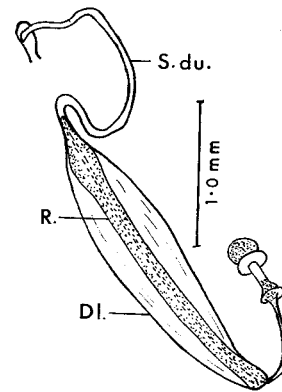


1.0 mm

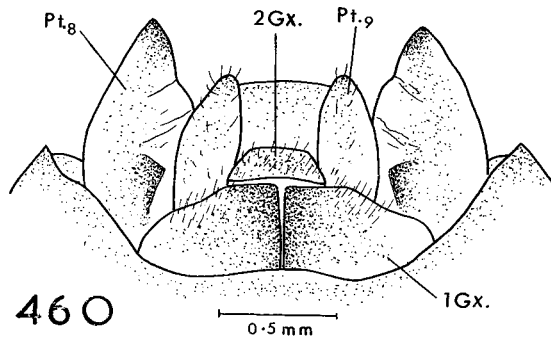
455



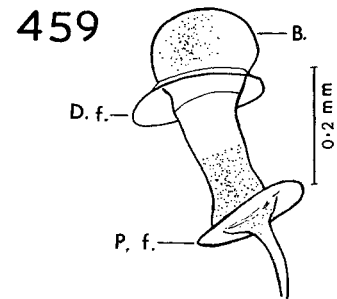
456



457

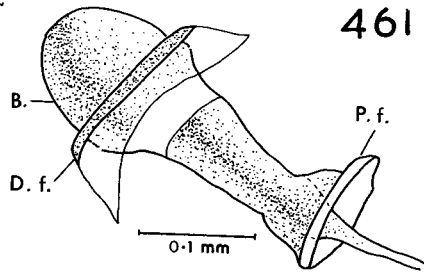


458



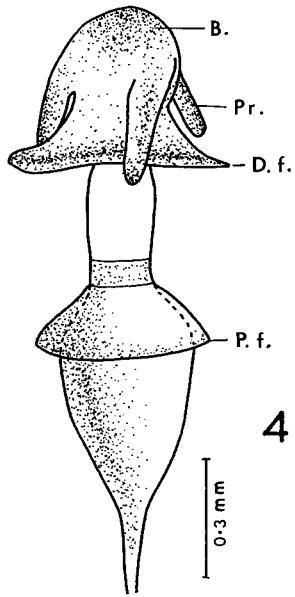
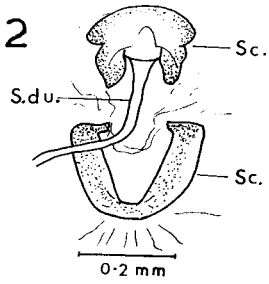
459

142

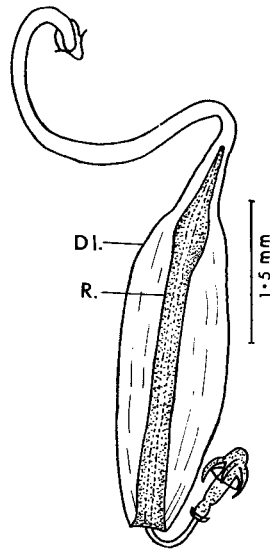


461

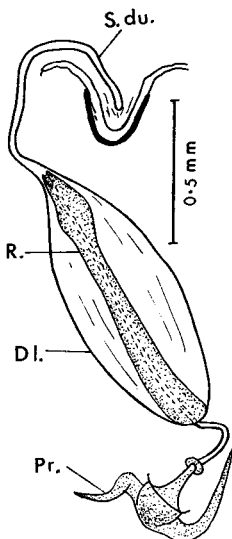
462



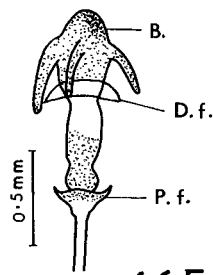
463



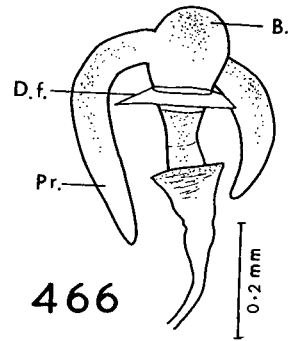
464



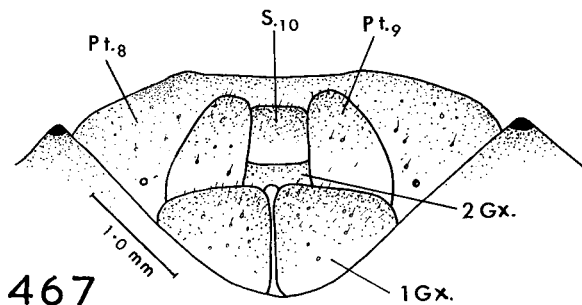
468



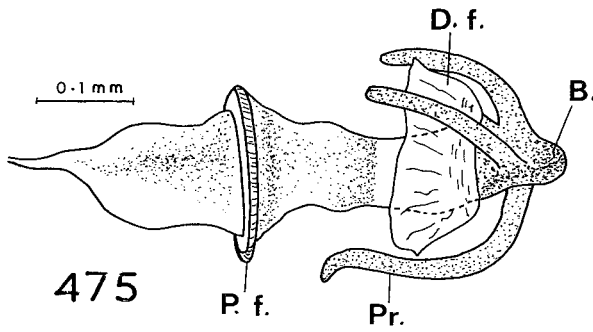
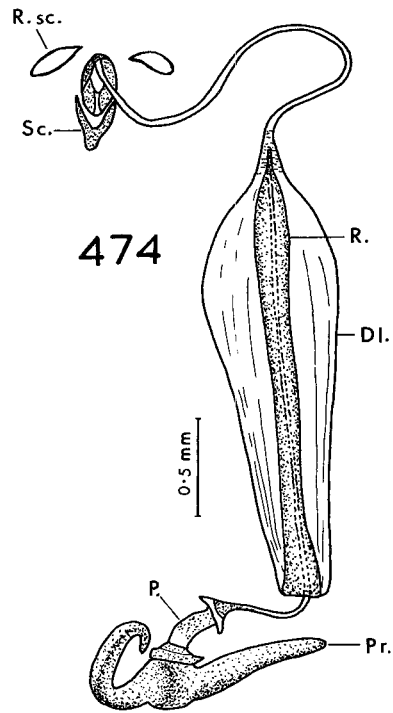
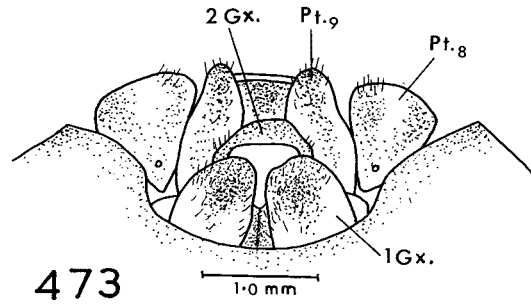
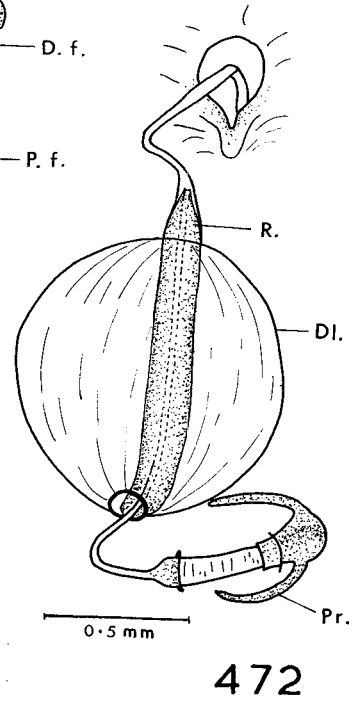
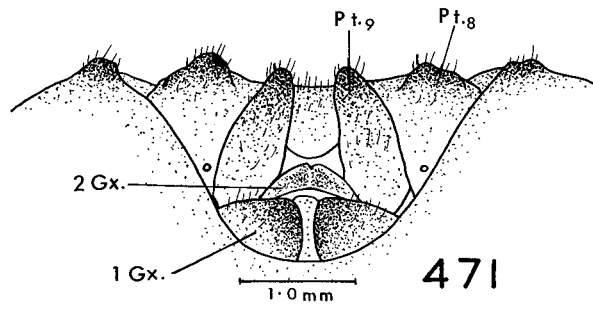
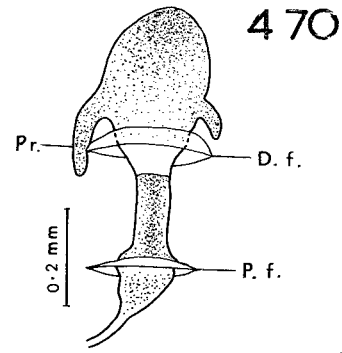
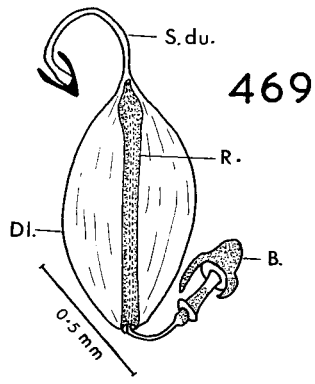
465

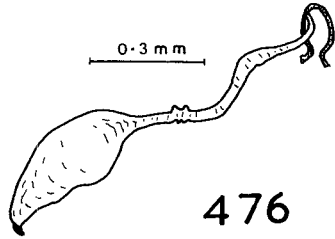


466

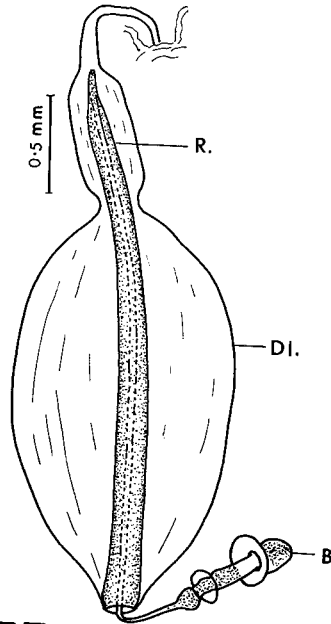


467

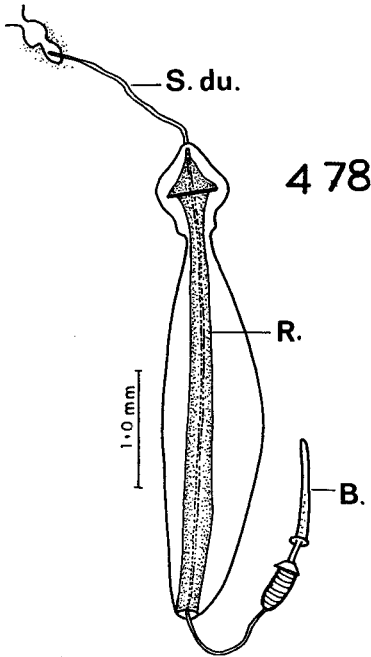




476

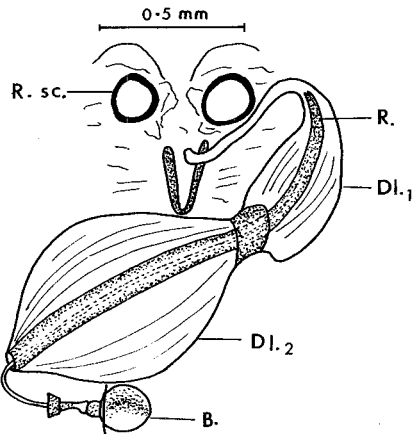
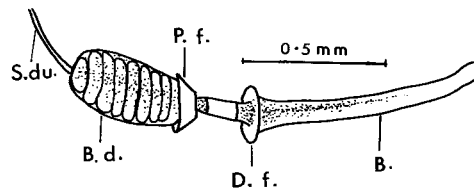


477

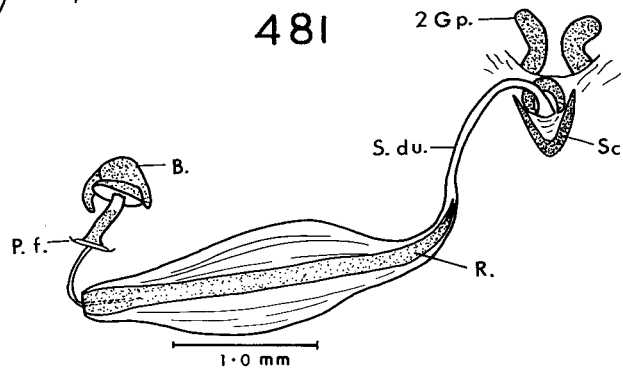


478

479

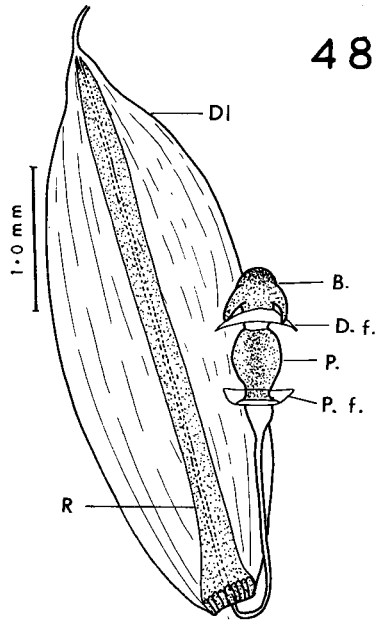


480

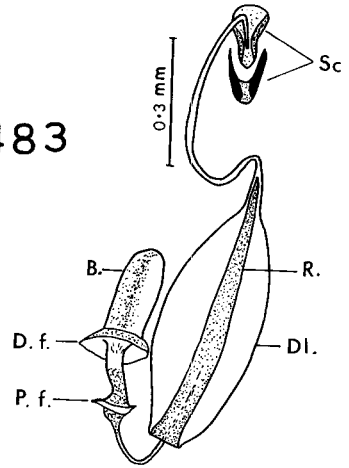


481

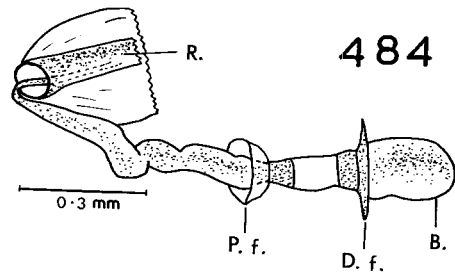
482



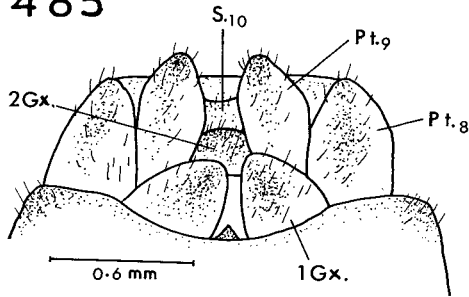
483



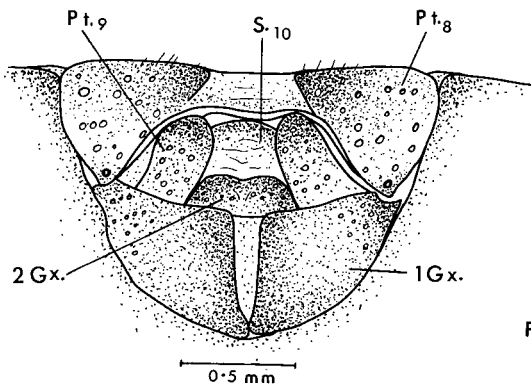
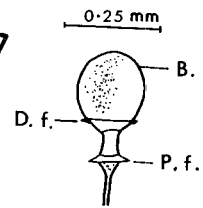
484



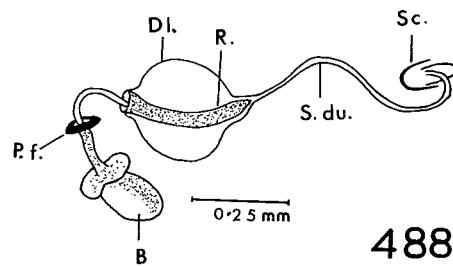
485



487

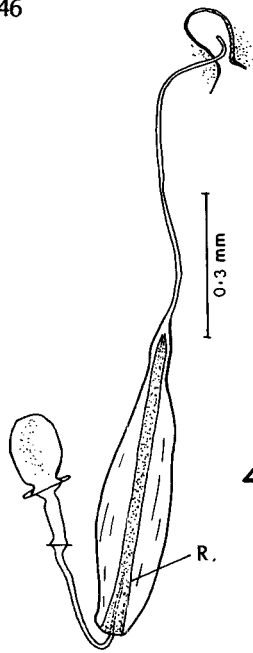


486

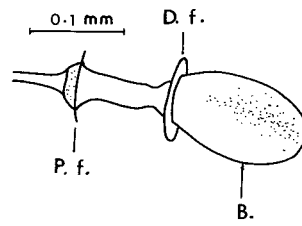


488

146

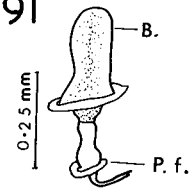


489

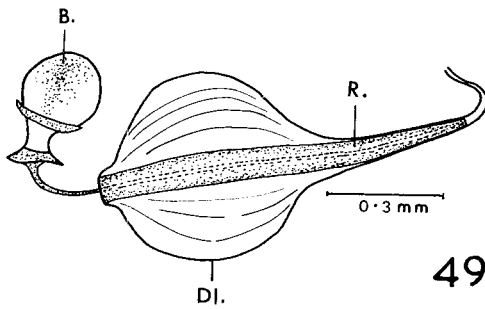
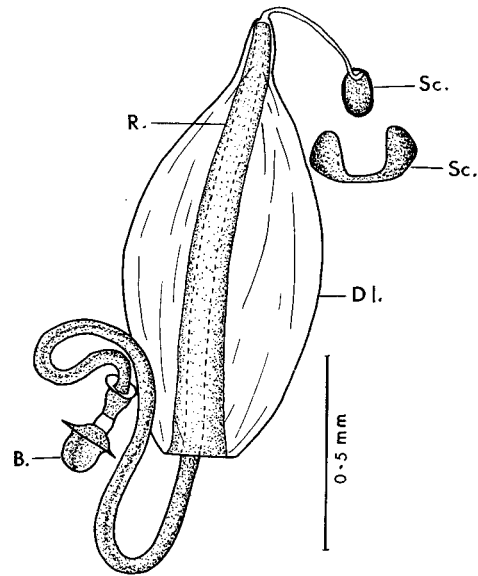


490

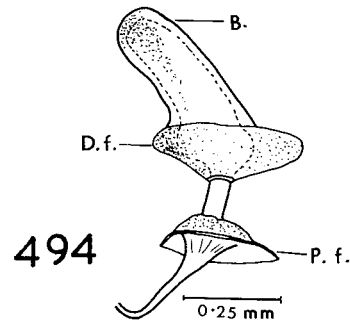
491



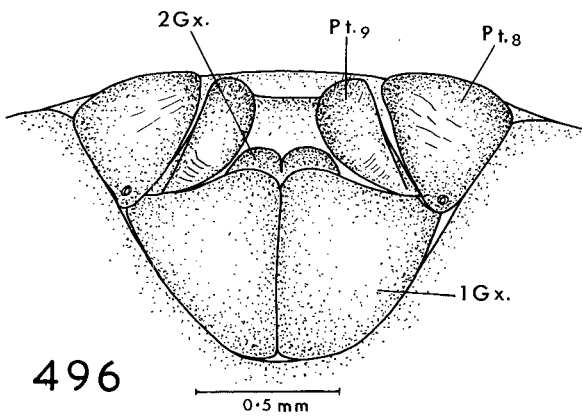
492



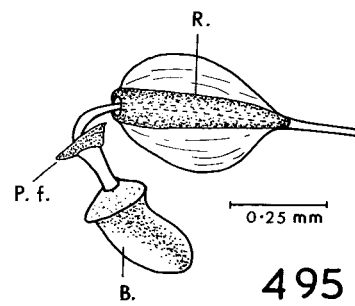
493



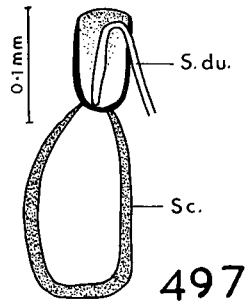
494



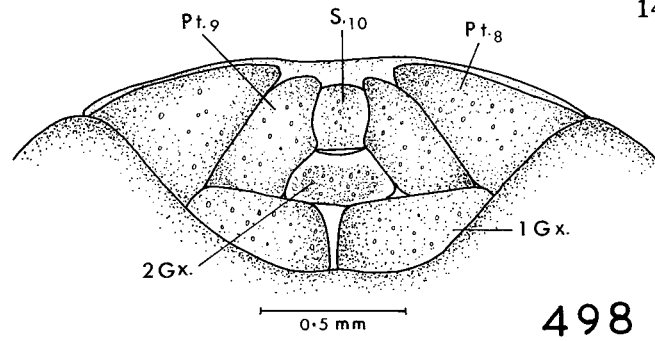
496



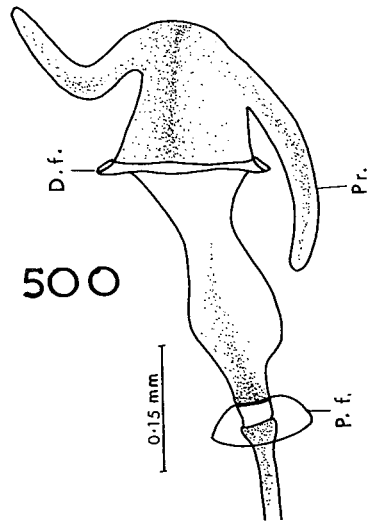
495



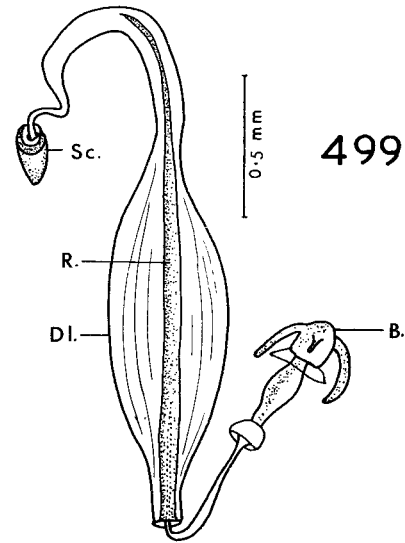
497



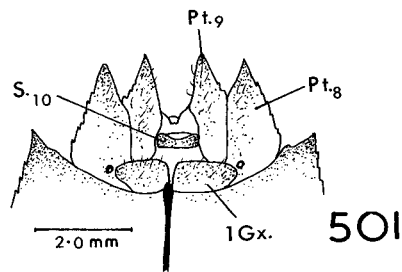
498



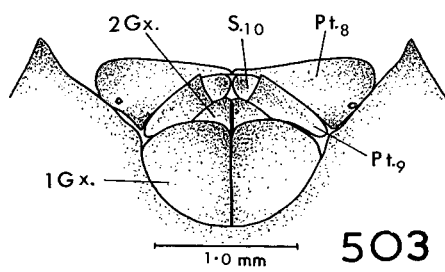
500



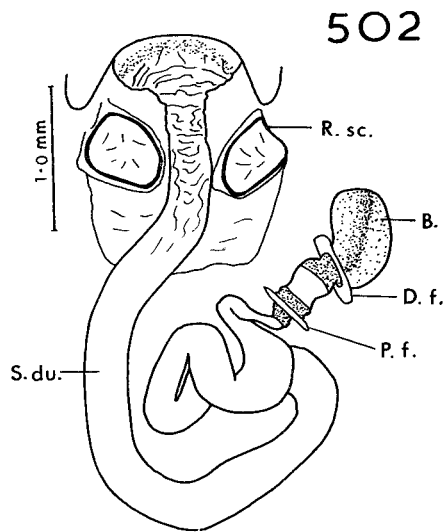
499



501

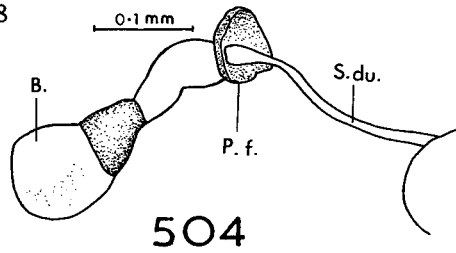


503

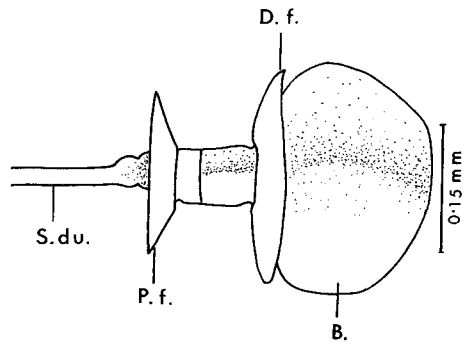


502

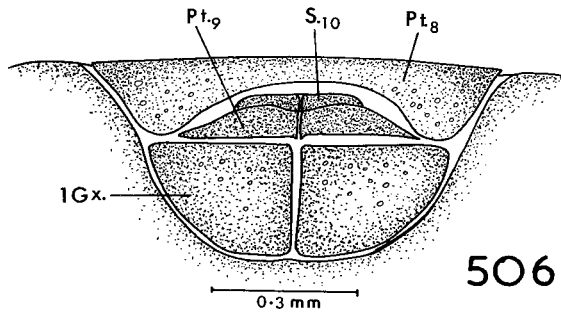
148



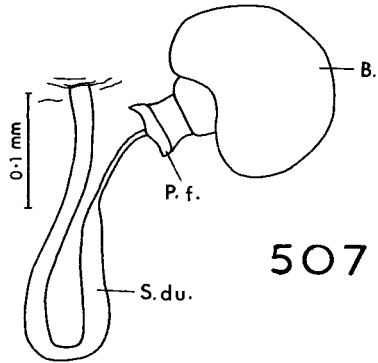
504



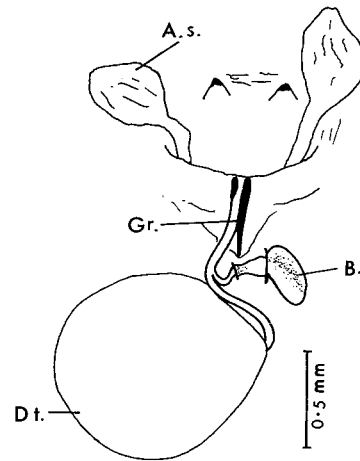
505



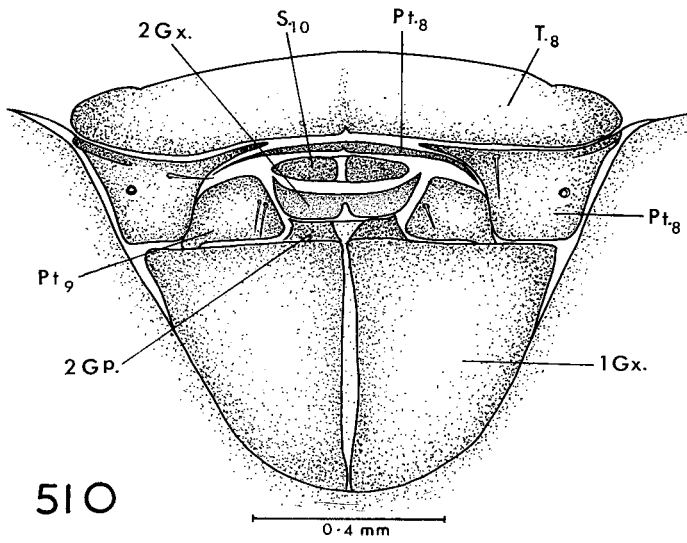
506



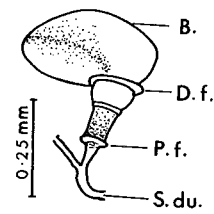
507



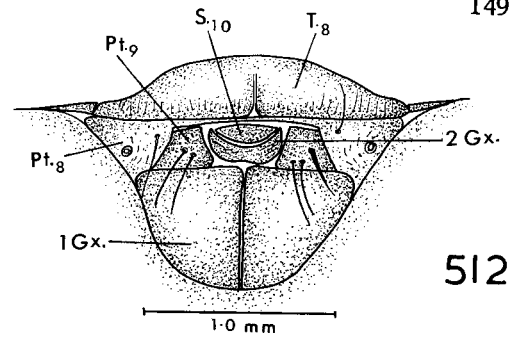
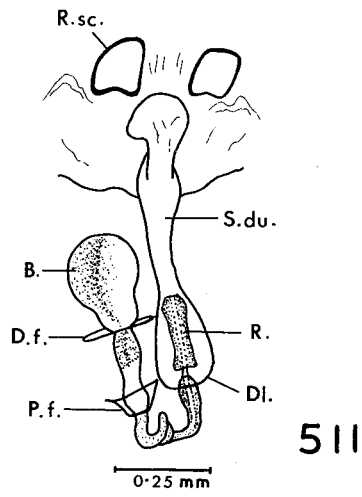
508



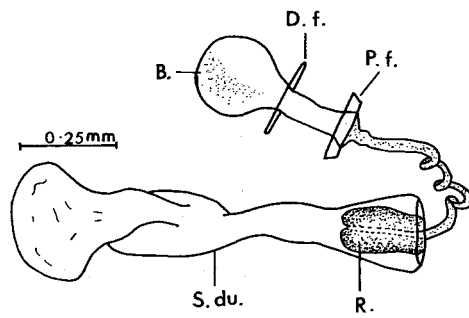
510



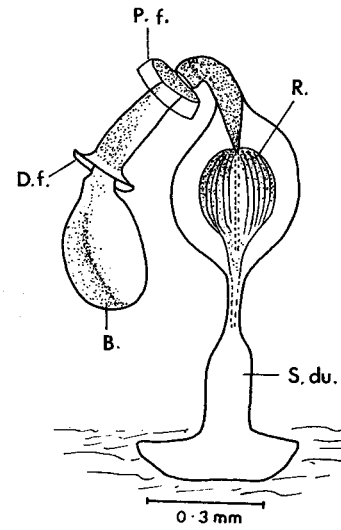
509



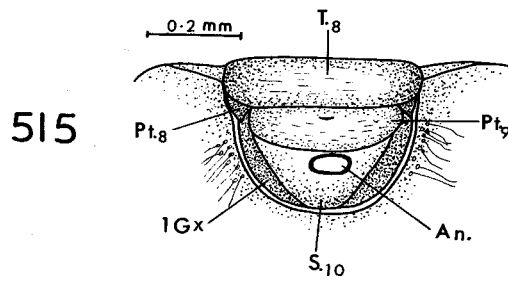
512



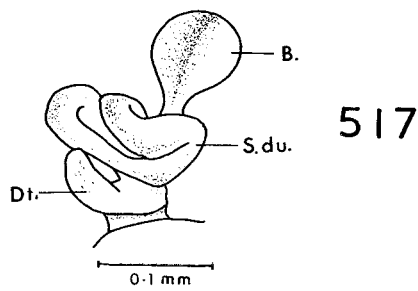
514



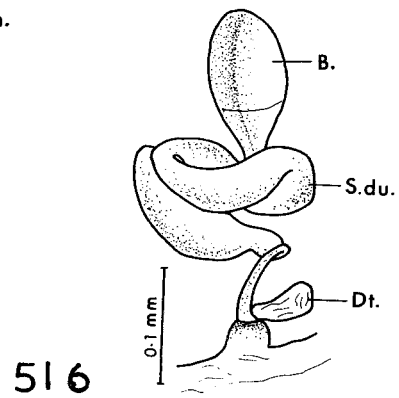
513



515



517



516

