

Hymenoptera Formicidae [Ergänzungen zu Band 6]

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INSECTA HELVETICA

Fauna

Herausgegeben von der Schweizerischen Entomologischen Gesellschaft

Ergänzungsband

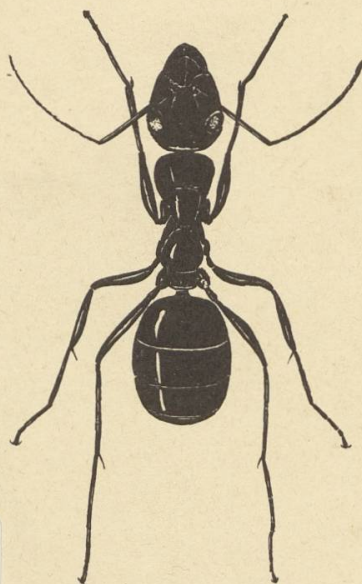
6a

HYMENOPTERA

FORMICIDAE

von

H. KUTTER



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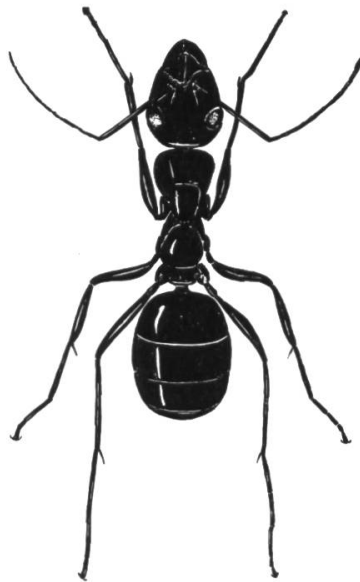
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Vorwort

Während der Ausarbeitung von Band 6 der INSECTA HELVETICA, herausgegeben von der **Schweizerischen Entomologischen Gesellschaft** (1977) über die Ameisen der Schweiz, gelangten etwa 500 Abbildungen nicht mehr zur Publikation. Der Verfasser ist beschwört worden, dieselben nicht mit den bereits veröffentlichten Zeichnungen zu vernichten.

Schliesslich habe ich mich dazu entschlossen, sie in Form eines Nachtrages zu Band 6 in eigener Regie herauszugeben in der Hoffnung, damit Freunden und Fachkollegen sowie weiteren Interessenten eine kleine Freude bereiten zu können. Mögen sie alle Verständnis dafür aufbringen, dass ich in meinem hohen Alter keine Zeichnungen mehr herzustellen vermag, welche höheren respektive künstlerischen Anforderungen genügen.

8132 Egg, 1978

H. Kutter

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 ♂
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 ♂
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 ♂ Fühler
 ♂ Flügelpaar
 ♀ Profil des Stielchens

 ♀ Fühler
 ♀ Vorderflügel
 ♀
 ♀
 ♀ Kopf von vorn
 ♀ Epinotaldorn
 ♀ Chur
 ♀
 ♂
 ♀
 ♀ Thoraxprofil, Zürichberg
 ♀ Thoraxprofil, Pfynwald
 ♀ Thoraxprofil, Chasseral
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Fig. 192 <i>Chalepoxenus gribodoi</i>	♀ Thoraxprofil
Fig. 193 <i>Chalepoxenus sciliensis</i>	♀ Thoraxprofil

Fig. 194	<i>Chalepoxenus kutteri</i>	♀	Thoraxprofil
Fig. 195	<i>Chalepoxenus insubricus</i>	♀	Thoraxprofil
Fig. 196	<i>Chalepoxenus muellerianus</i>	♀	Thoraxprofil
Fig. 197	<i>Chalepoxenus insubricus</i>	♀	Thoraxprofil
Fig. 198	<i>Chalepoxenus siciliensis</i>	♀	Thoraxprofil
Fig. 199	<i>Chalepoxenus kutteri</i>	♀	Thoraxprofil
Fig. 200	<i>Chalepoxenus kutteri</i>	♂	Thoraxprofil
Fig. 201	<i>Chalepoxenus kutteri</i>	♂	Thoraxprofil
Fig. 202	<i>Chalepoxenus muellerianus</i>	♂	Thoraxprofil
Fig. 203	<i>Chalepoxenus insubricus</i>	♂	Thoraxprofil
Fig. 204	<i>Epimyrmma stumperi</i>	♀	Profil und Obersicht
Fig. 205	<i>Epimyrmma stumperi</i>	♂	Profil und Obersicht
Fig. 206	<i>Epimyrmma stumperi</i>	♀	Profil
Fig. 207	<i>Doronomyrmex pacis</i>	♀	Kopf von vorn
Fig. 208	<i>Doronomyrmex pacis</i>	♀	Epinotum und Stielchen von oben
Fig. 209	<i>Doronomyrmex pacis</i>	♂	Kopf von vorn
Fig. 210	<i>Doronomyrmex pacis</i>	♂	Epinotum und Stielchen von oben
Fig. 211	<i>Doronomyrmex pacis</i>	♀	Profil
Fig. 212	<i>Doronomyrmex pacis</i>	♂	Profil
Fig. 213	<i>Leptothorax kutteri</i>	♀	Profil
Fig. 214	<i>Leptothorax kutteri</i>	♂	Profil
Fig. 215	<i>Leptothorax kutteri</i>	♀	Kopf von vorn
Fig. 216	<i>Leptothorax kutteri</i>	♀	Stielchen von oben
Fig. 217	<i>Doronom. pacis</i> ♂ x <i>Lept. kutteri</i>	♀	Profil
Fig. 218	idem	♂	Flügel
Fig. 219	idem		Kopf von vorn
Fig. 220	idem		Stielchen von oben
Fig. 221	<i>Strongylognathus huberi</i>	♀	Kopf von vorn, Fully
Fig. 222	<i>Strongylognathus alpinus</i>	♀	Kopf von vorn, Binn
Fig. 223	<i>Strongylognathus alboini</i>	♀	Kopf von vorn, Roveredo
Fig. 224	2 x <i>Strongylognathus testaceus</i>	♂	Kopf von d. Seite u. von vorn
Fig. 225	2 x <i>Strongylognathus alpinus</i>	♂	Kopf von d. Seite u. von vorn
Fig. 226	2 x <i>Strongylognathus alboini</i>	♂	Kopf von d. Seite u. von vorn
Fig. 227	<i>Epitritus argiolus</i>	♂	Kopf von vorn
Fig. 228	<i>Tapinoma erraticum</i>	♀	Kopf von vorn
Fig. 229	<i>Tapinoma erraticum</i>	♀	Thoraxprofil
Fig. 230	<i>Tapinoma erraticum</i>	♀	
Fig. 231	<i>Tapinoma ambiguum</i> ?	♀	
Fig. 232	<i>Tapinoma erraticum</i>	♀	Genf, Profil
Fig. 233	<i>Tapinoma erraticum</i>	♀	Genf, Kopf von vorn
Fig. 234	<i>Tapinoma</i> sp ?	♀	St. Luc, weiss (leg. BUSCHINGER) Kopf von vorn

Fig. 235 <i>Tapinoma</i> sp ?	♀ St. Luc, im Profil
Fig. 236 <i>Tapinoma</i> sp ?	♀ St. Luc, im Profil
Fig. 237 <i>Formicinae</i> (<i>Lasius umbratus</i>)	♂ Clypeus vor den Fühlerwurzeln
Fig. 238 <i>Dolichoderinae</i> (<i>Tapinoma erraticum</i>)	♂ Clypeus zwischen den Fühlerwurzeln
Fig. 239 <i>Plagiolepis vindobonensis</i>	♀ Fühlerformeln von a-f (6 Tieren), Bözingerberg
Fig. 240 <i>Plagiolepis vindobonensis</i>	♀ Thorax im Profil und von oben Bellinzona
Fig. 241 <i>Plagiolepis vindobonensis</i> a) vom	♀ Fühler (Mosel leg. v. BOVEN)
b) vom	♂ Fühler (Mosel leg. v. BOVEN)
Fig. 242 <i>Plagiolepis pygmaea</i>	♀ Fühler, Monte Bré
Fig. 243 <i>Plagiolepis pygmaea</i>	♀ Thorax im Profil und von oben, Brissago
Fig. 244 <i>Plagiolepis pygmaea</i>	♀ Fühlerformeln von 6 Tieren (a-f)
Fig. 245 Fühler von ♀♀ von	
a) <i>Lasius fuliginosus</i>	
b) <i>Lasius flavus</i>	
c) <i>Formica fusca</i>	
d) <i>Formica polyctena</i>	
Fig. 246 <i>Lasius umbratus</i>	♂ Schuppe von hinten, Zermatt
Fig. 247 <i>Lasius umbratus</i>	♂ Schuppe von der Seite
Fig. 248 <i>Lasius mixtus</i>	♂ Schuppe von vorn, Männedorf
Fig. 249 <i>Lasius mixtus</i>	♂ Schuppe von der Seite
Fig. 250 <i>Lasius rabaudi</i>	♂ Schuppe von hinten, Tschamutt GR
Fig. 251 <i>Lasius rabaudi</i>	♂ Schuppe von der Seite Tschamutt GR
Fig. 252 <i>Lasius flavus</i>	♂ Schuppe von hinten
Fig. 253 <i>Lasius brunneus</i>	♂ Epinotum und Schuppe von der Seite
Fig. 254 <i>Lasius umbratus</i>	♀ Schuppe von der Seite
Fig. 255 <i>Lasius umbratus</i>	♀ Schuppe von hinten
Fig. 256 <i>Lasius rabaudi</i>	♀ Schuppe von der Seite
Fig. 257 <i>Lasius rabaudi</i>	♀ Schuppe von vorn (?)
Fig. 258 <i>Lasius mixtus</i>	♀ Schuppe von vorn, Flawil
Fig. 259 <i>Lasius affinis</i>	♀ Schuppe von vorn, Triest (leg. FINZI)
Fig. 260 <i>Lasius affinis</i>	♀ Schuppe von der Seite, Triest (leg. FINZI)
Fig. 261 <i>Lasius brunneus</i>	♀ Schuppe von hinten, Moncherant

Fig. 262	<i>Lasius carniolicus</i>	♀	Kopf von vorn, Pfynewald	
Fig. 263	<i>Lasius carniolicus</i>	♀	Bein	
Fig. 264	<i>Lasius carniolicus</i>	♂	Kopf und Thorax im Profil	
Fig. 265	<i>Lasius reginae</i>	♀	Bein	
Fig. 266	<i>Lasius reginae</i>	♀	Kopf von vorn	
Fig. 267	<i>Lasius bicornis</i>	♂	Kopf von vorn, Reinach	
Fig. 268	<i>Lasius bicornis</i>	(♀?)	Schuppe	
Fig. 269	<i>Lasius bicornis</i>	♂	Mandibeln	
Fig. 270	<i>Lasius bicornis</i>	♂	Schuppe von vorn	
Fig. 271	<i>Lasius bicornis</i>	♂	Schuppe von der Seite	
Fig. 272	<i>Lasius bicornis</i>	♂	Lacinia	
Fig. 273	<i>Lasius bicornis</i>	♂	Stipes	
Fig. 274	<i>Lasius bicornis</i>	♂	Sagitta	
Fig. 275	<i>Lasius fuliginosus</i>	♀	Thoraxprofil	
Fig. 276	<i>Lasius carniolicus</i>	♀	Thoraxprofil	
Fig. 277	<i>Lasius umbratus</i>	♀	Thoraxprofil	
Fig. 278	<i>Lasius flavus</i>	♀	Thoraxprofil	
Fig. 279	<i>Lasius niger</i>	♀	Thoraxprofil	
Fig. 280	<i>Lasius fuliginosus</i>	♂	Mandibel	
Fig. 281	<i>Lasius emarginatus</i>	♂	Mandibel	
Fig. 282	<i>Lasius niger</i>	♂	Mandibel	
Fig. 283	<i>Lasius brunneus</i>	♂	Mandibel	
Fig. 284	<i>Lasius flavus</i>	♂	Mandibel	
Fig. 285	<i>Lasius mixtus</i>	♂	Mandibel	
Fig. 286	<i>Camponotus ligniperda</i>	♂	Profil	
Fig. 287	<i>Camponotus ligniperda</i>	♀	Profil	
Fig. 288	<i>Camponotus ligniperda</i>	♀	Profil	
Fig. 289	<i>Camponotus ligniperda</i>	♀	gross	Aufsicht
Fig. 290	<i>Camponotus ligniperda</i>	♀	mittelgross	Aufsicht
Fig. 291	<i>Camponotus ligniperda</i>	♀	klein	Aufsicht
Fig. 292	<i>Camponotus universitatis</i>	♀	Kopf von vorn	
Fig. 293	<i>Camponotus universitatis</i>	♀	Mittelbein	
Fig. 294	<i>Camponotus aethiops</i>	♀	Kopf von vorn	
Fig. 295	<i>Camponotus aethiops</i>	♀	Mittelbein	
Fig. 296	<i>Camponotus aethiops</i>	♀	von der Seite	
Fig. 297	<i>Camponotus aethiops</i>	♂	von der Seite	
Fig. 298	<i>Camponotus piceus</i>	♀	Kopf und Thorax von vorn	
Fig. 299	<i>Camponotus dalmaticus</i>	♀	Thorax von der Seite	
Fig. 300	<i>Camponotus dalmaticus</i>	♂	Kopf von vorn	
Fig. 301	<i>Camponotus dalmaticus</i>	♀	Kopf von vorn	
Fig. 302	<i>Camponotus dalmaticus</i>	♀	von der Seite	
Fig. 303	<i>Camponotus dalmaticus</i>	♂	von der Seite	
Fig. 304	<i>Camponotus dalmaticus</i>	♀	von der Seite	
Fig. 305	<i>Formica fusca</i>	♀	Kiefertaster	
Fig. 306	<i>Formica fusca</i>	♀	Lippentaster	

Fig. 307 <i>Formica fusca</i>	♀ Mandibeln
Fig. 308 <i>Formica fusca</i>	♀ major, Kopf von vorn
Fig. 309 <i>Formica fusca</i>	♀ minor, Kopf von vorn
Fig. 310 <i>Formica gagates</i>	♂ Thorax von oben
Fig. 311 <i>Formica gagates</i>	♀ Kopf von vorn
Fig. 312 <i>Formica gagates</i>	♀ Hinterbein
Fig. 313 <i>Formica gagates</i>	♀ Stirnfeld
Fig. 314 <i>Formica gagates</i>	♀ Thoraxprofil, Tessin
Fig. 315 <i>Formica fusca</i>	♀ Thoraxprofil, Engadin
Fig. 316 <i>Formica picea</i>	♀ Thoraxprofil, Rotkreuz
Fig. 317 <i>Formica picea</i>	♂ Thorax von oben
Fig. 318 <i>Formica picea</i>	♀ Kopf von vorn
Fig. 319 <i>Formica picea</i>	♀ Kiefertaster
Fig. 320 <i>Formica picea</i>	♀ Stirnfeld
Fig. 321 <i>Formica cinerea</i>	♀ Seitenansicht
Fig. 322 <i>Formica cinerea</i>	♀ Kopf von vorn
Fig. 323 <i>Formica cinerea</i>	♂ Kopf von der Seite
Fig. 324 <i>Formica cinerea</i>	♂ Hinterbein
Fig. 325 <i>Formica cinerea</i>	♂ Schuppe
Fig. 326 <i>Formica selysi</i>	♀ Seitenansicht
Fig. 327 <i>Formica selysi</i>	♀ Hinterbein
Fig. 328 <i>Formica lefrancoisi</i>	♀ Seitenansicht
Fig. 329 <i>Formica lefrancoisi</i>	♀ Schuppe von vorn
Fig. 330 <i>Formica lefrancoisi</i>	♂ Kopf von vorn
Fig. 331 <i>Formica lefrancoisi</i>	♂ Schuppe, Uzwil
Fig. 332 <i>Formica lefrancoisi</i>	♀ Thoraxprofil, Il Fuorn
Fig. 333 <i>Formica lefrancoisi</i>	♀ Thoraxprofil, Grono
Fig. 334 <i>Formica lefrancoisi</i>	♀ Thoraxprofil, Schmerikon
Fig. 335 <i>Formica cinereo-rufibarbis</i>	Seitenansicht
Fig. 336 <i>Formica uralensis</i>	♀ Seitenansicht
Fig. 337 <i>Formica uralensis</i>	♀ Kopf von vorn
Fig. 338 <i>Formica uralensis</i>	♀ Thorax von oben
Fig. 339 <i>Formica uralensis</i>	♀ 6. Geisselglied
Fig. 340 <i>Formica uralensis</i>	♀ Fühlergeissel
Fig. 341 <i>Formica uralensis</i>	♀ 2. Geisselglied
Fig. 342 <i>Formica uralensis</i>	♀ Seitenansicht
Fig. 343 <i>Formica uralensis</i>	♀ Kopf von vorn
Fig. 344 <i>Formica uralensis</i>	♀ von oben
Fig. 345 <i>Formica uralensis</i>	♀ Hinterbein
Fig. 346 <i>Formica uralensis</i>	♀ Fühlergeisselanfang
Fig. 347–356 Behaarung und Skulptur auf 2. Tergit von ♀♀ von <i>Formica</i>	
Fig. 357 <i>Coptoformica bruni</i>	♀ Seitenansicht, Monnaz (leg. FOREL)
Fig. 358 <i>Coptoformica foreli</i>	♀ Cotypus, Vaux

Fig. 359 Kiefertaster von ♂♂ von *Coptoformica*

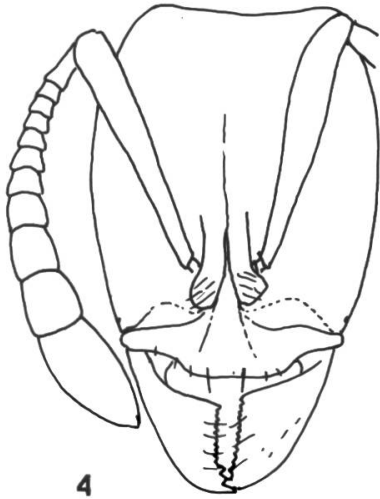
- a) *exsecta*
- b) *forsslundi*
- c) *naefi*
- d) *foreli* (?)
- e) *pressilabris*
- f) *foreli*
- g) *bruni*
- h) *foreli*

Fig. 360 Kiefertaster von 2 ♂♂ aus der gleichen Kolonie von *C. pressilabris*, Zermatt 1919:

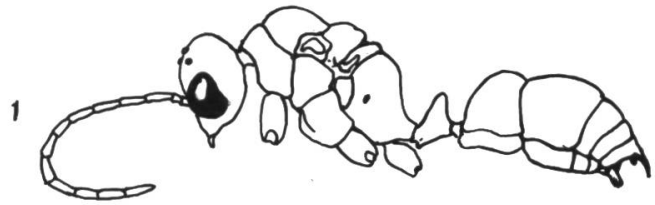
a) und b) 1. Tier, c) 2. Tier

Fig. 361	<i>Coptoformica pressilabris</i>	♀	Schuppenoberrand, Binn	
Fig. 362	<i>Coptoformica pressilabris</i>	♀	Schuppenoberrand, Binn	
Fig. 363	<i>Coptoformica pressilabris</i>	♀	Schuppenoberrand, Binn	
Fig. 364	<i>Coptoformica pressilabris</i>	♀	Schuppenoberrand, Zinal	
Fig. 365	<i>Coptoformica forsslundi</i>	♀	Schuppenoberrand, Sihlsee	
Fig. 366	<i>Coptoformica forsslundi</i>	♀	Schuppenoberrand, Schweden	
Fig. 367	<i>Coptoformica forsslundi</i>	♀	Schuppenoberrand, Schweden	
Fig. 368	<i>Coptoformica forsslundi</i>	♀	Schuppenoberrand, Sihlsee	
Fig. 369	<i>Coptoformica exsecta</i>	♀	Schuppenoberrand	
Fig. 370	<i>Coptoformica exsecta</i>	♀	Schuppenoberrand, Stavelchod Park	
Fig. 371	<i>Coptoformica exsecta</i>	♀	Schuppenoberrand, Alpa Cardada TI	
Fig. 372 a)	<i>Coptoformica naefi</i>	♀	Schuppenoberrand, Pradella	
b)	<i>Coptoformica naefi</i>	♀	Schuppenoberrand, Pradella	
c)	<i>Coptoformica naefi</i>	♀	Schuppenoberrand, Pradella	
d)	<i>Coptoformica naefi</i>	♀	Schuppenoberrand, Pradella	
Fig. 373 a)	<i>Coptoformica bruni</i>	♀	Schuppenoberrand ?	
Fig. 374 b)	<i>Coptoformica bruni</i>	♀	Schuppenoberrand	
c)	<i>Coptoformica bruni</i>	♀	Schuppenoberrand	
d)	<i>Coptoformica bruni</i>	♀	Schuppenoberrand	
Fig. 374 a)	<i>Coptoformica goesswaldi</i>	♀	Schuppenoberrand, Soglio	
b)	<i>Coptoformica goesswaldi</i>	♀	Schuppenoberrand, Soglio	
c)	<i>Coptoformica goesswaldi</i>	♀	Schuppenoberrand, Soglio	
d)	<i>Coptoformica goesswaldi</i>	♀	Schuppenoberrand, Soglio	
Fig. 375 a)	<i>Coptoformica exsecta</i>	♀	Schuppenoberrand, Lukmanierpass	8mal
b)	<i>Coptoformica exsecta</i>	♀	Schuppenoberrand Lukmanierpass	8mal
c)	<i>Coptoformica exsecta</i>	♂	Schuppenoberrand Lukmanierpass	7mal
d)	<i>Coptoformica exsecta</i>	♂	Schuppenoberrand Lukmanierpass	7mal

e) <i>Coptoformica exsecta</i>	♀ Schuppenoberrand Lukmanierpass	21mal
f) <i>Coptoformica exsecta</i>	♀ Schuppenoberrand Lukmanierpass	21mal
Fig. 376 <i>Coptoformica bruni</i>	♀ Kopf von vorn	
Fig. 377 <i>Coptoformica bruni</i>	♀ Kopf von der Seite	
Fig. 378 <i>Coptoformica goesswaldi</i>	♀ Kopf von vorn	
Fig. 379 <i>Coptoformica foreli</i> Cotypus	♀ Kopf von vorn	
Fig. 380 <i>Coptoformica goesswaldi</i>	♀ Kopf von vorn	
Fig. 381 <i>Coptoformica naefi</i>	♀ Kopf von vorn	
Fig. 382 <i>Coptoformica pressilabris</i>	♀ Kopf von vorn	
Fig. 383 <i>Coptoformica bruni</i>	♀ Kopf von vorn	
Fig. 384 <i>Coptoformica exsecta</i>	♂ Kopf von vorn, Il Fuorn	
Fig. 385 <i>Coptoformica pressilabris</i>	♂ Kopf von vorn, Saas-Fee	
Fig. 386 <i>Coptoformica forsslundi</i>	♂ Kopf von vorn	
Fig. 387 <i>Coptoformica naefi</i>	♂ Kopf von vorn, Pradella	
Fig. 388 <i>Coptoformica bruni</i>	♂ Kopf von vorn, Findelen	
Fig. 389 <i>Coptoformica goesswaldi</i>	♂ Kopf von vorn, Soglio	
Fig. 390 <i>Coptoformica exsecta</i>	♂ Kopf von der Seite, Il Fuorn	
Fig. 391 <i>Coptoformica goesswaldi</i>	♂ Kopf von der Seite, Soglio	
Fig. 392 <i>Coptoformica bruni</i>	♂ Kopf von der Seite, Evolène	
Fig. 393 <i>Coptoformica forsslundi</i>	♂ Kopf von der Seite, Sihlsee	
Fig. 394 <i>Coptoformica pressilabris</i>	♂ Kopf von der Seite, Saas-Fee	
Fig. 395 <i>Coptoformica naefi</i>	♂ Kopf von der Seite, Pradella	
Fig. 396 <i>Coptoformica naefi</i>	♂ Subgenitalplatte	
Fig. 397 <i>Coptoformica naefi</i>	♂ Penicillum	
Fig. 398 <i>Coptoformica naefi</i>	♂ Genitalapparat, Stipes, etc.	
Fig. 399 <i>Coptoformica naefi</i>	♂ Genitalapparat, Sagitta	
Fig. 400 <i>Coptoformica goesswaldi</i>	♂ Genitalapparat, Sagitta, Soglio	
Fig. 401 <i>Coptoformica goesswaldi</i>	♂ Subgenitalplatte, Soglio	
Fig. 402 <i>Coptoformica goesswaldi</i>	♂ Penicillum	
Fig. 403 <i>Coptoformica goesswaldi</i>	♂ Genitalapparat, Stipes, etc.	



4



1



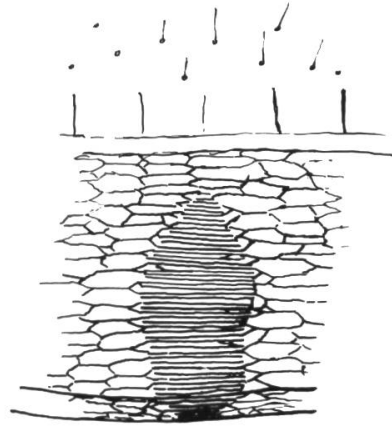
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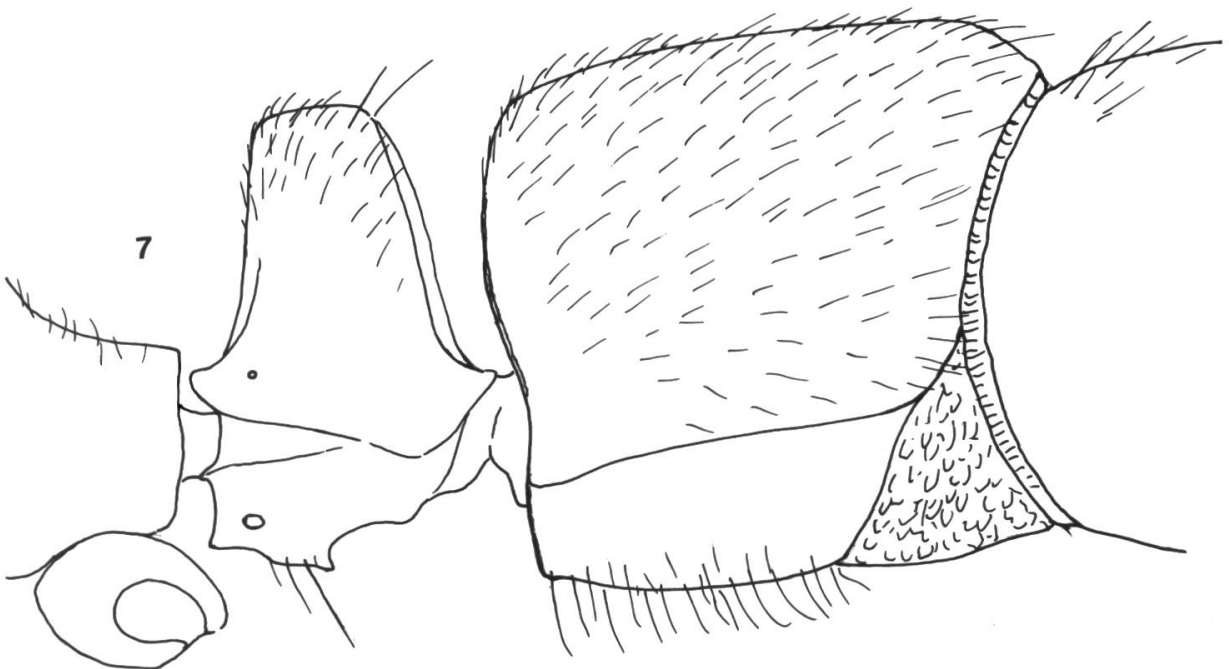
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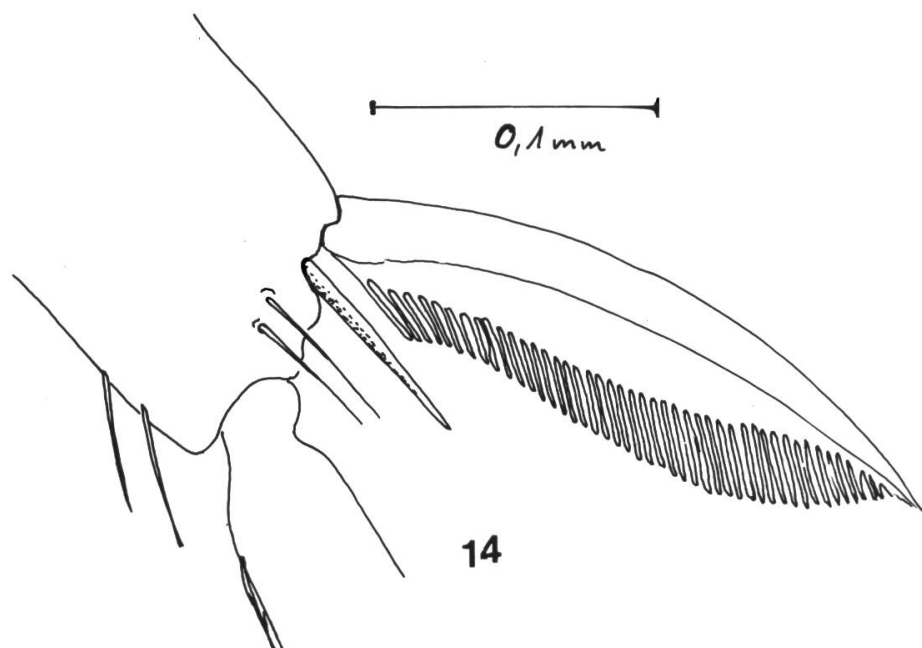
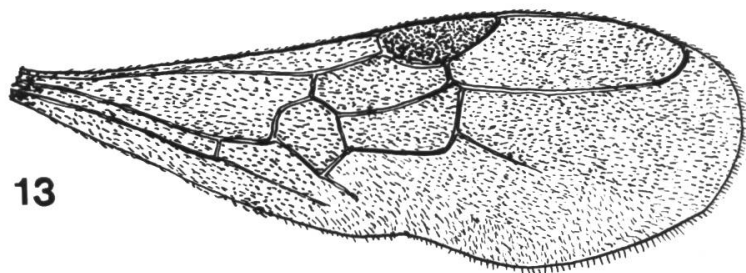
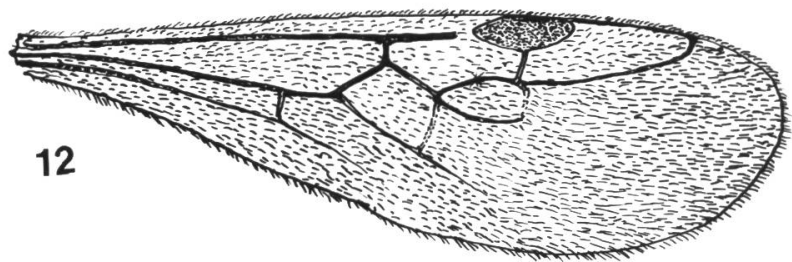
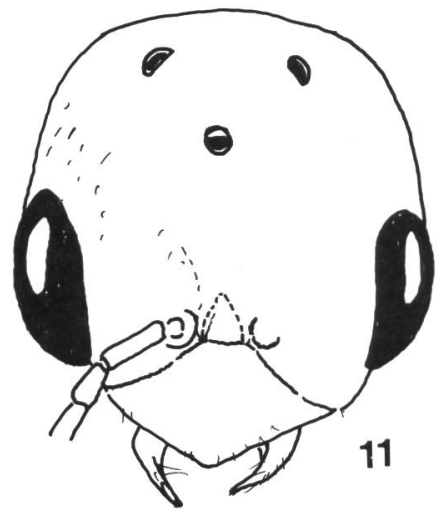
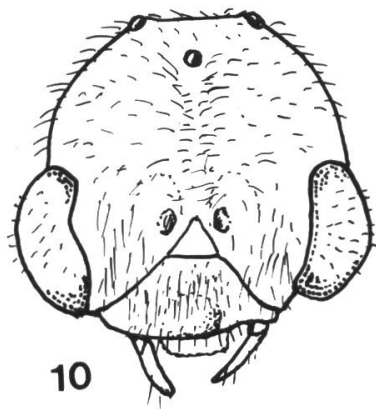
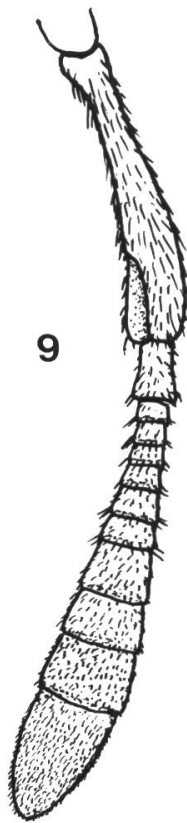
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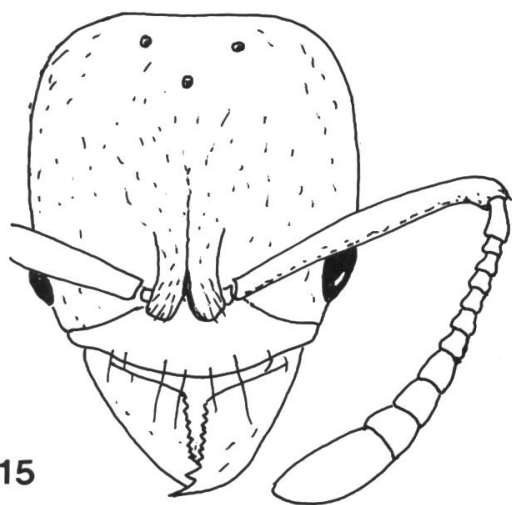


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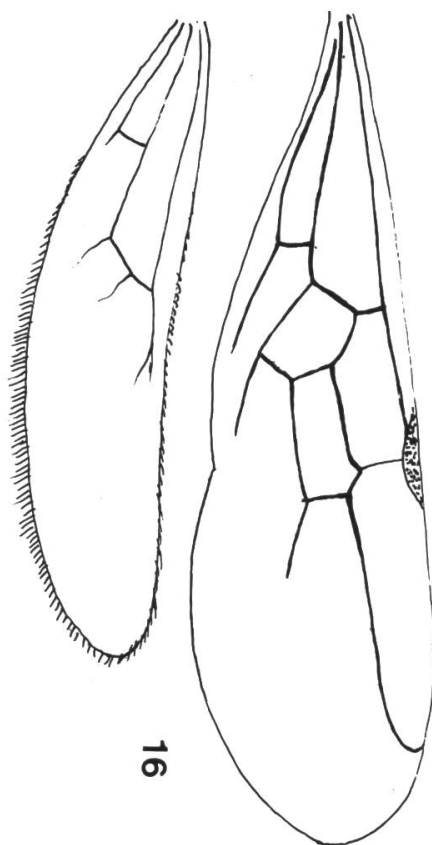


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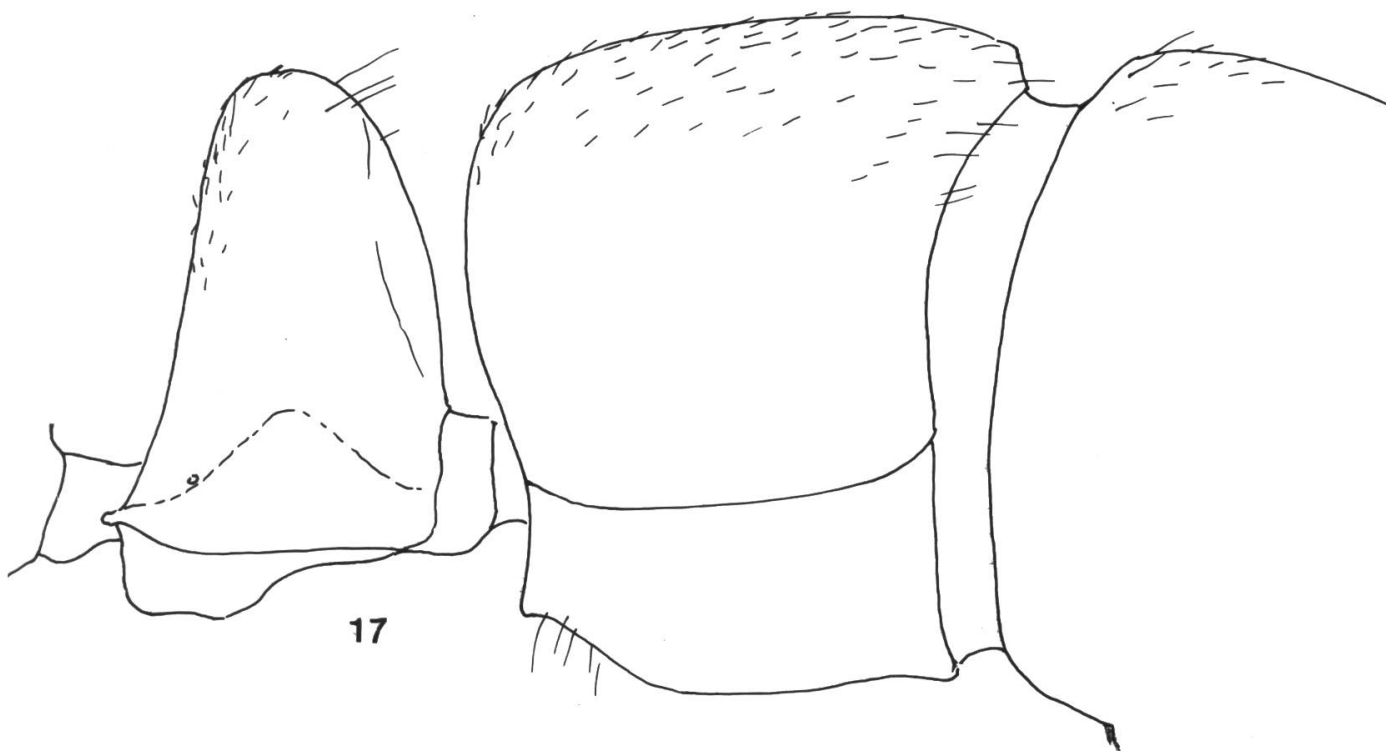
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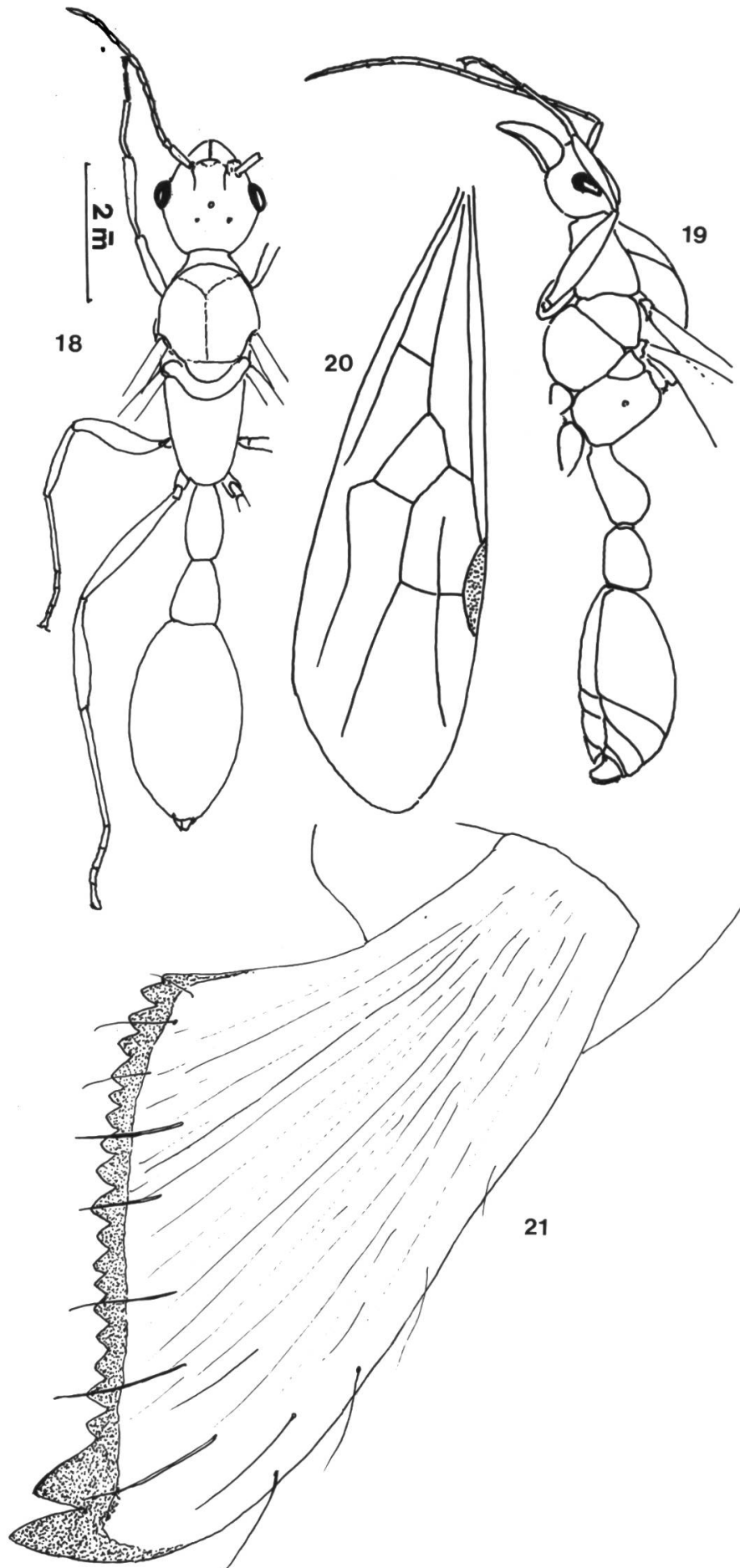


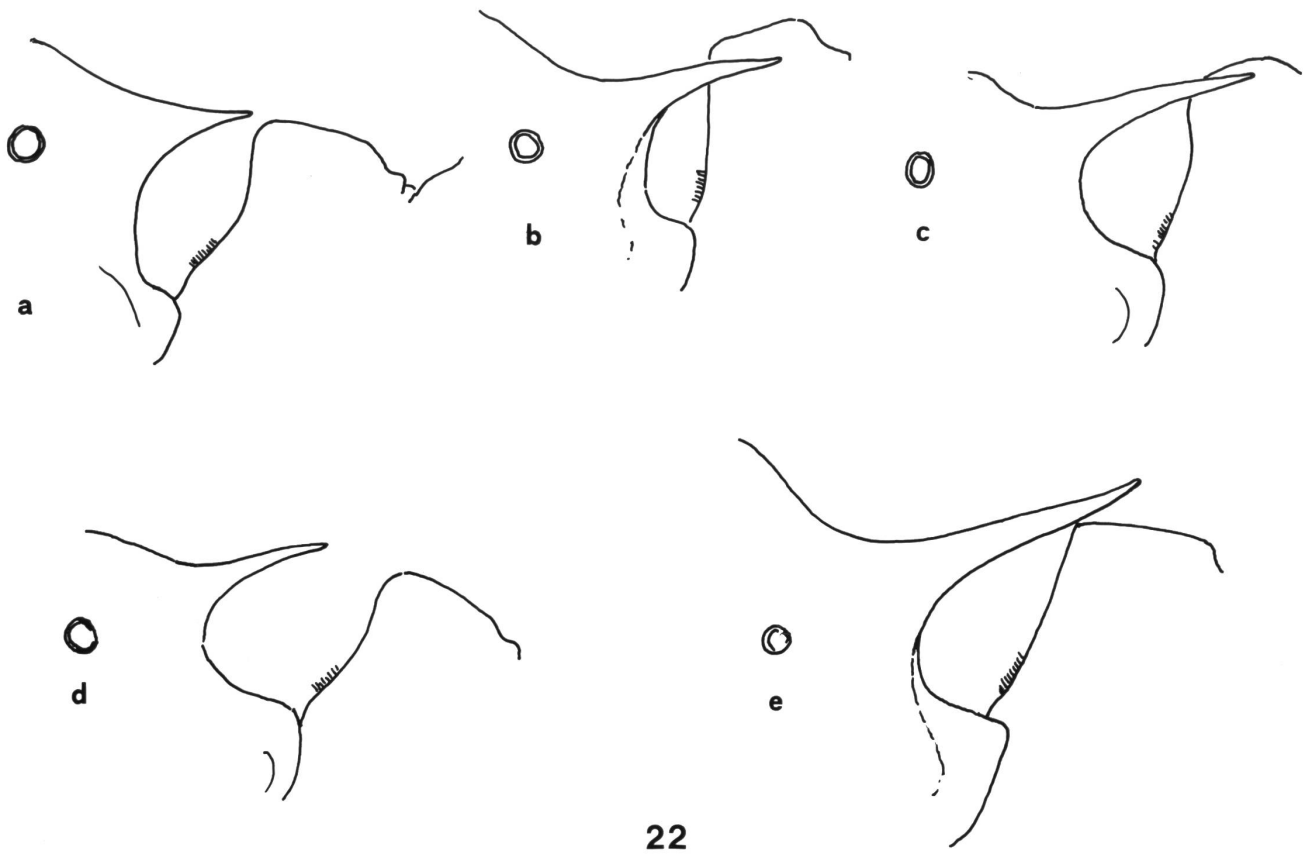
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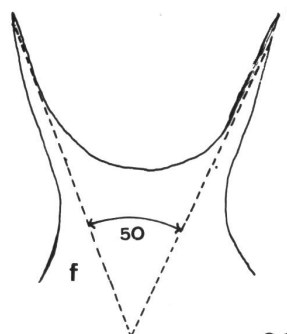
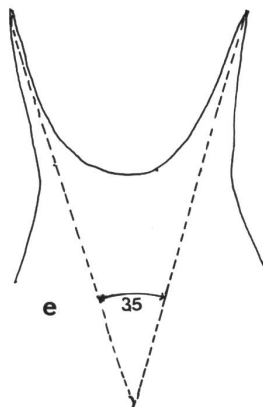
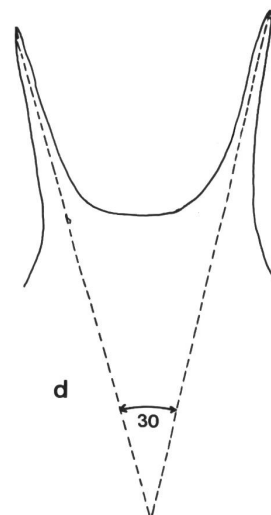
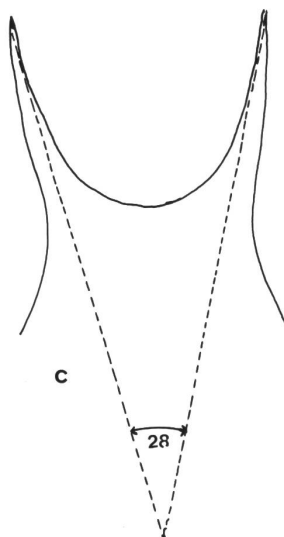
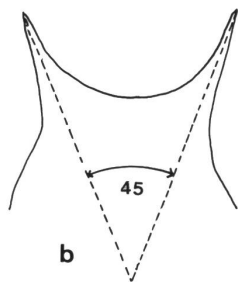
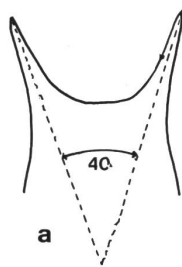


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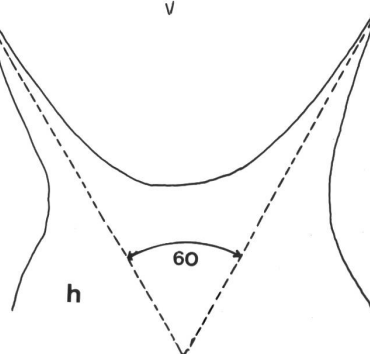
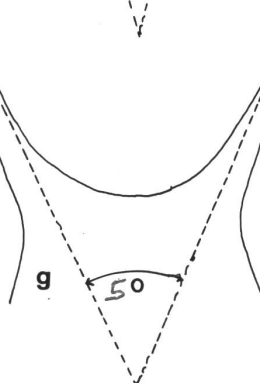


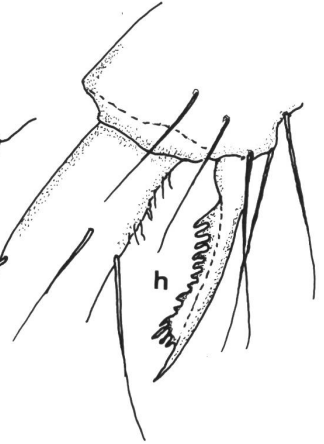
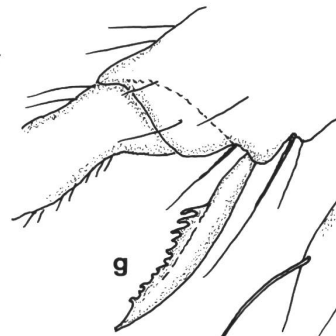
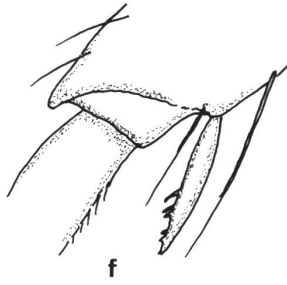
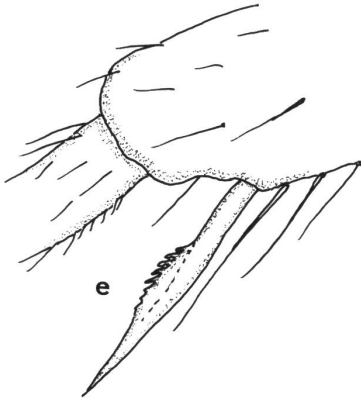
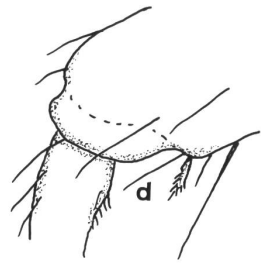
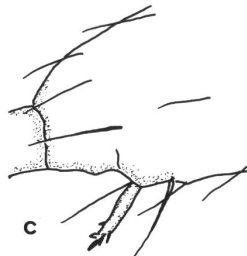
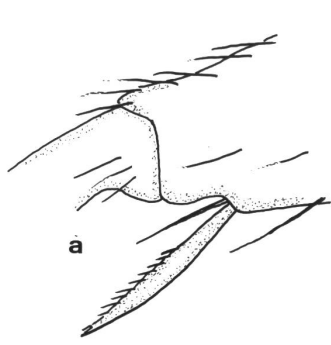


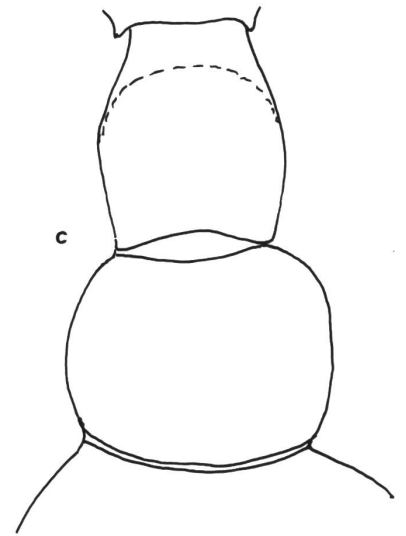
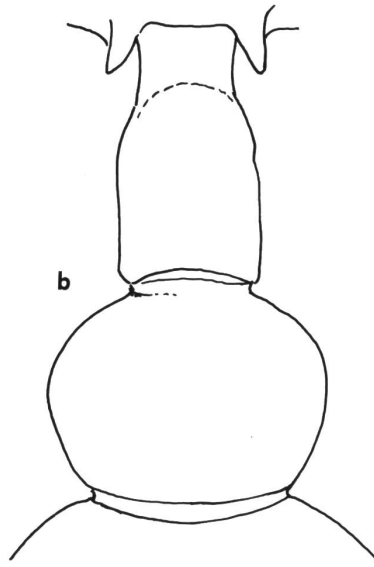
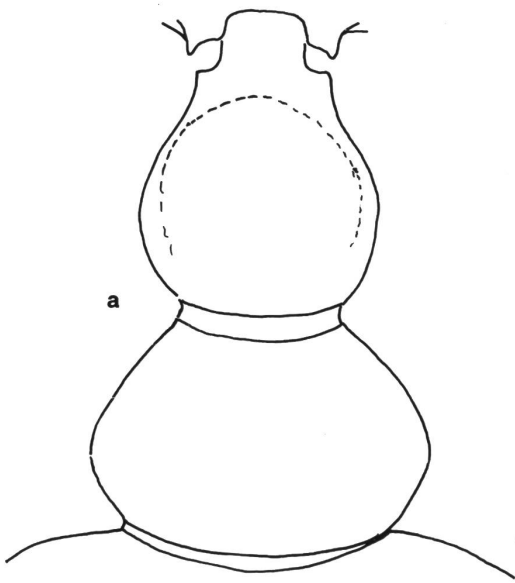


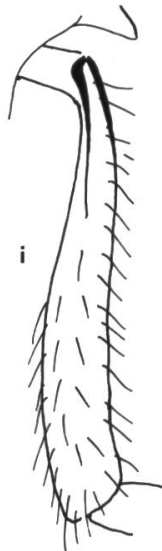
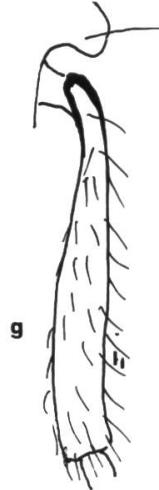
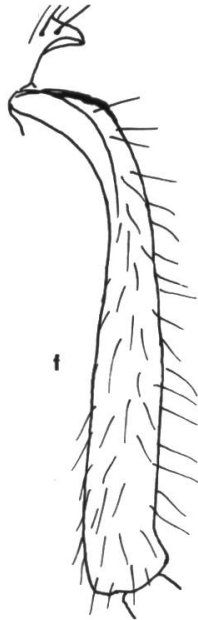
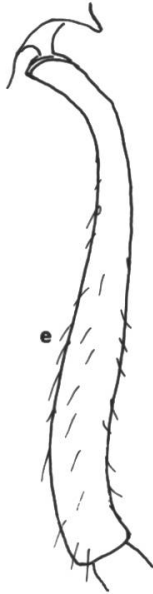
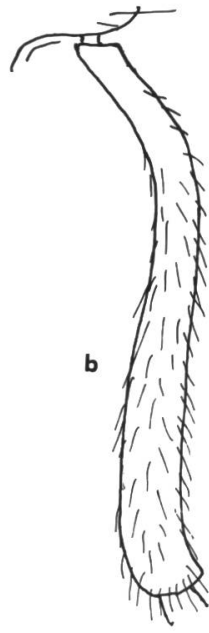
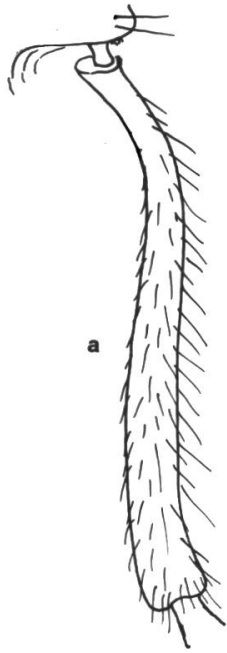


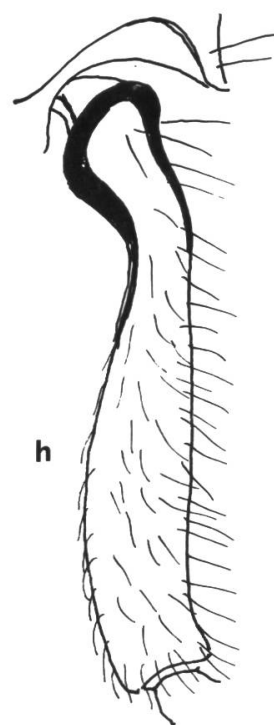
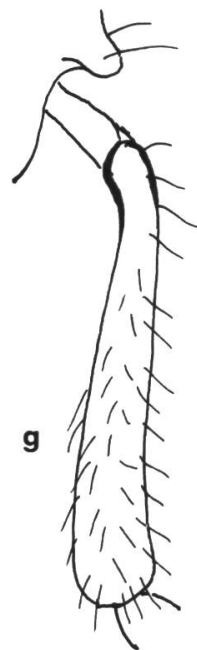
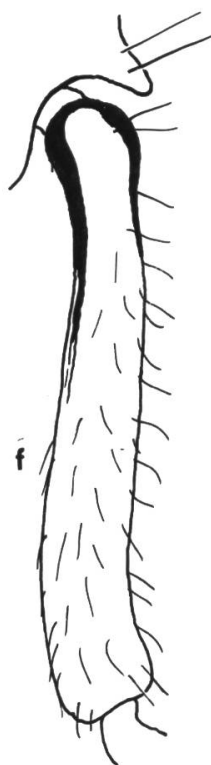
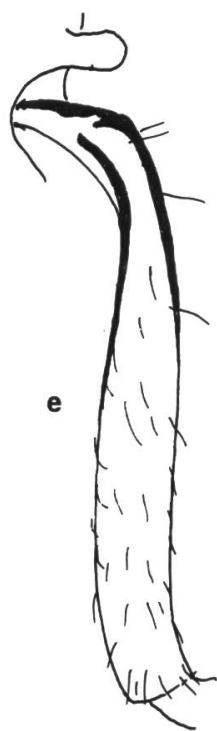
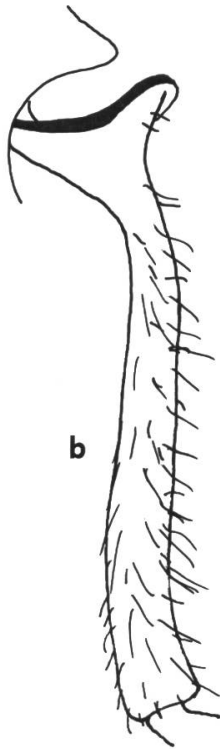
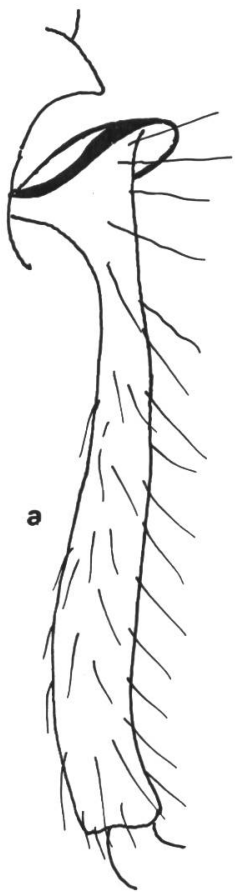
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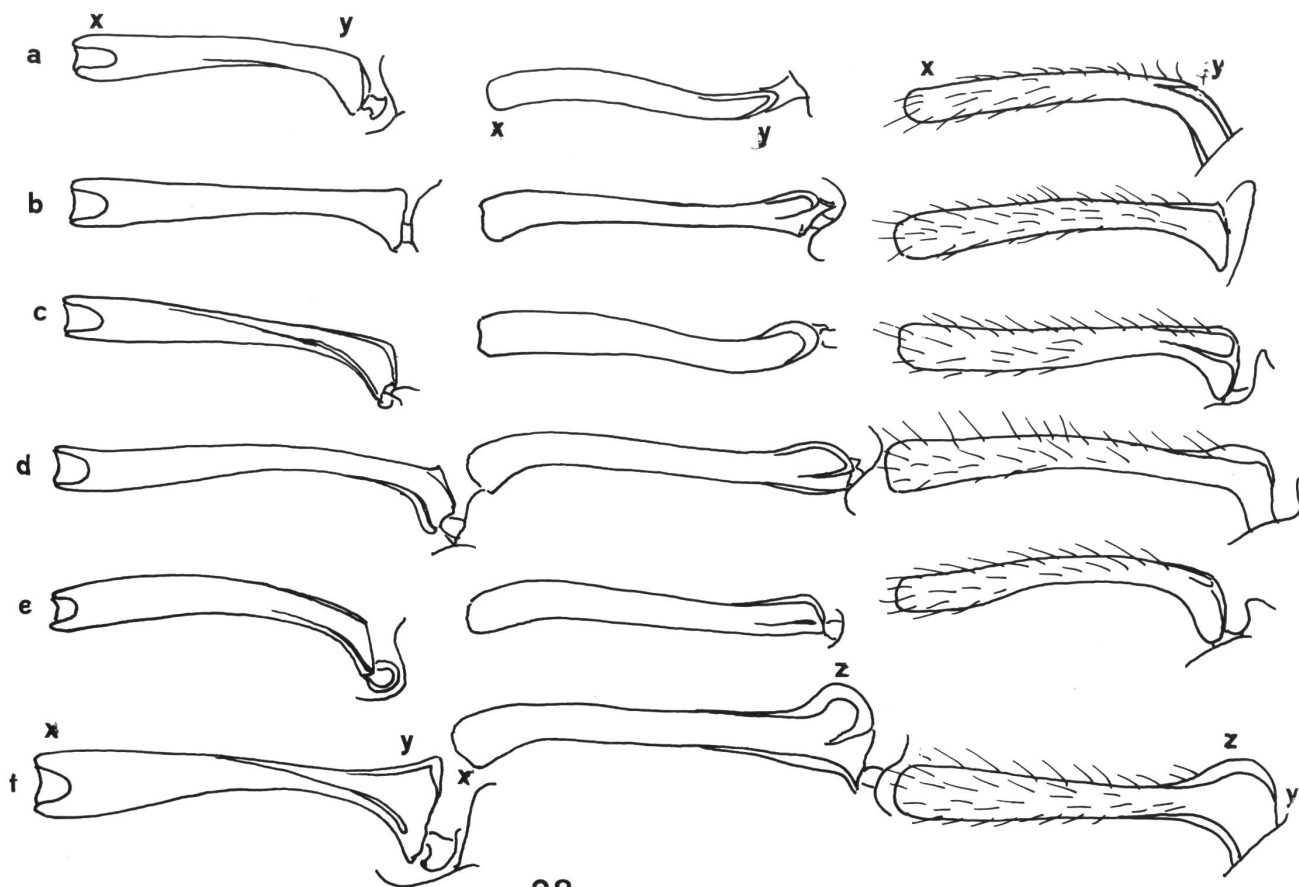


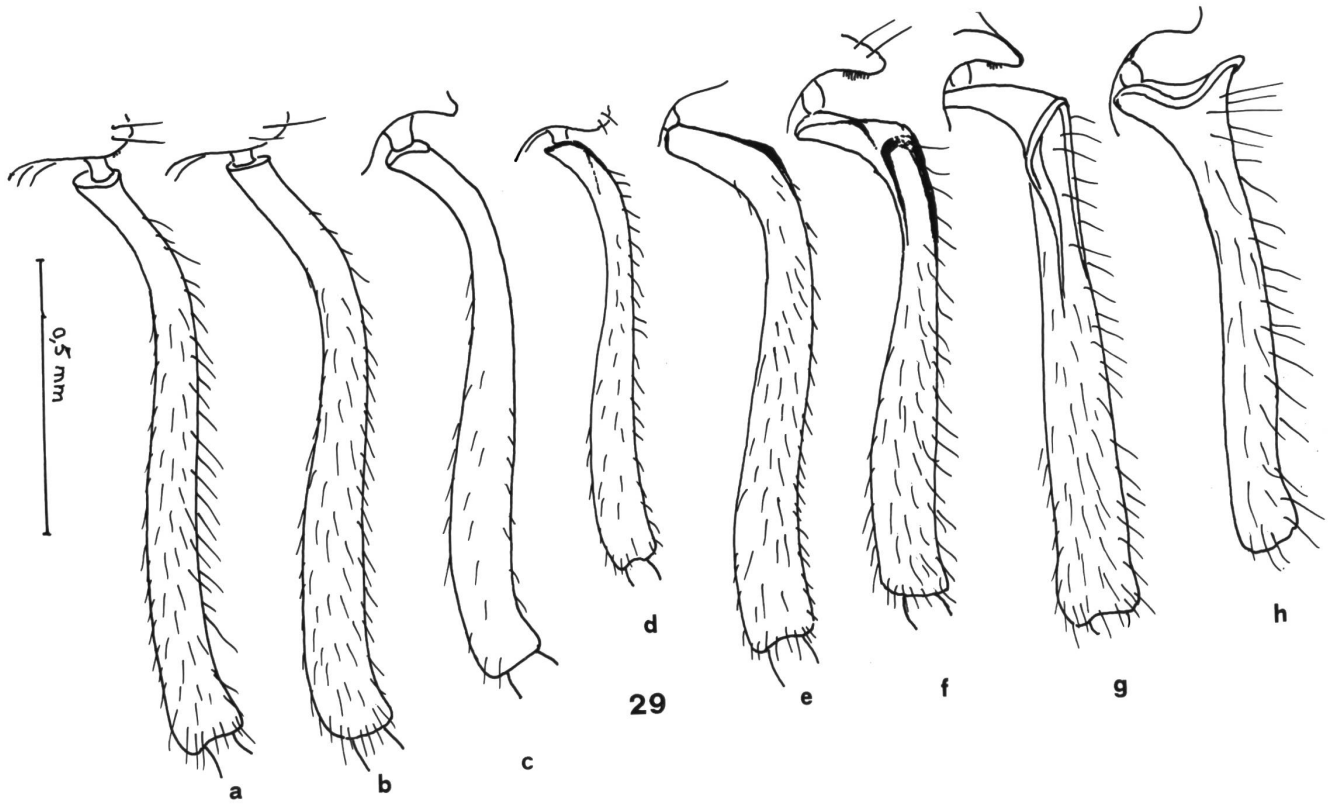


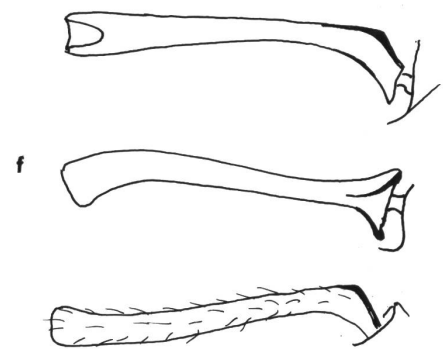
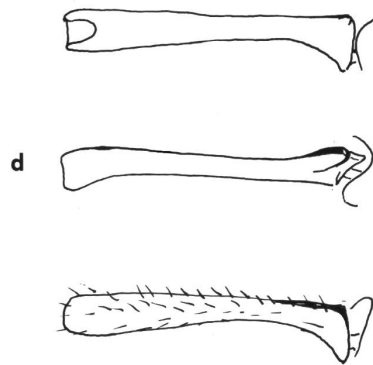
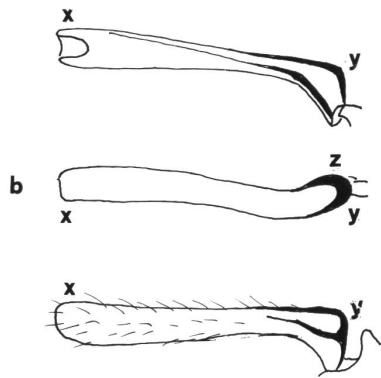
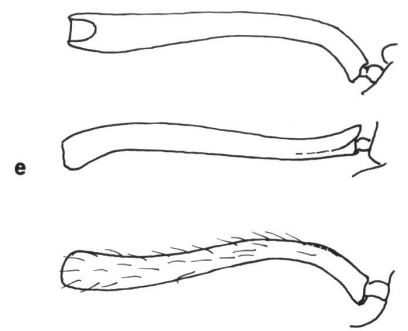
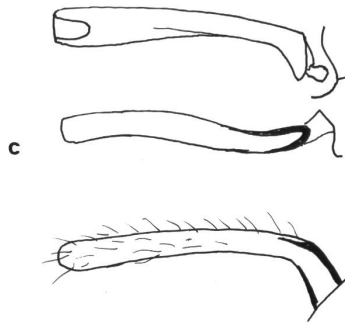
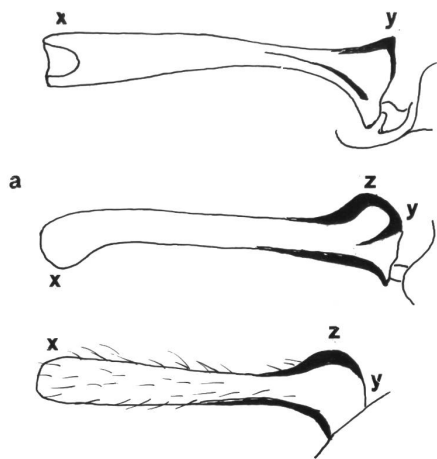


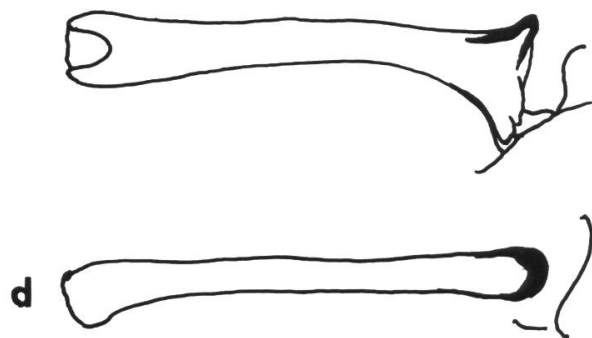
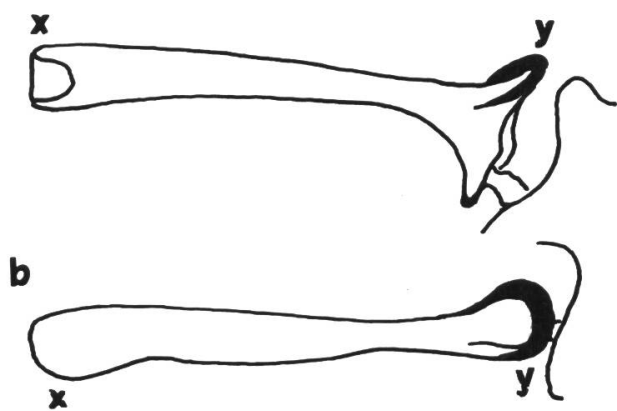
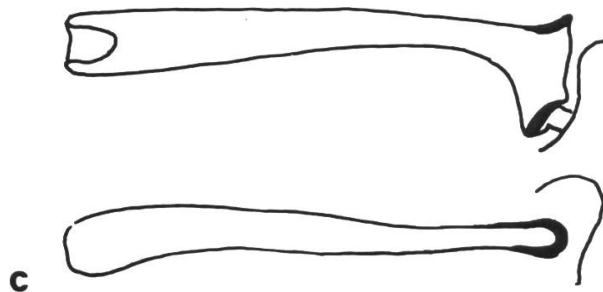
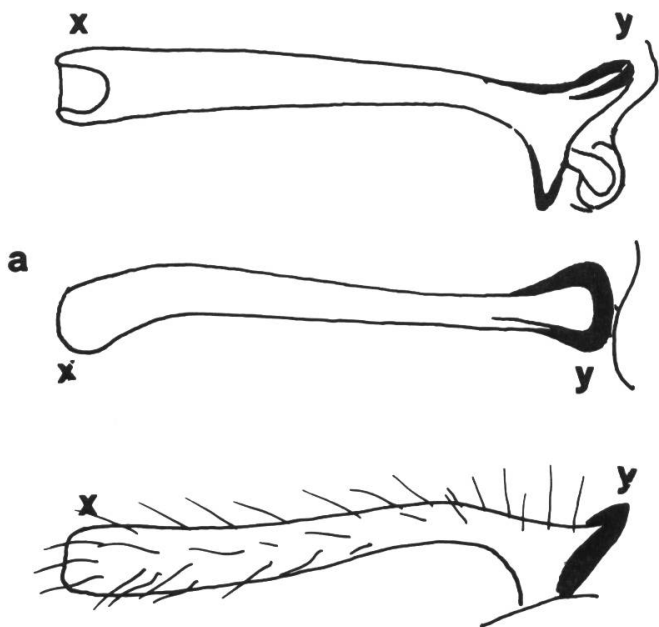


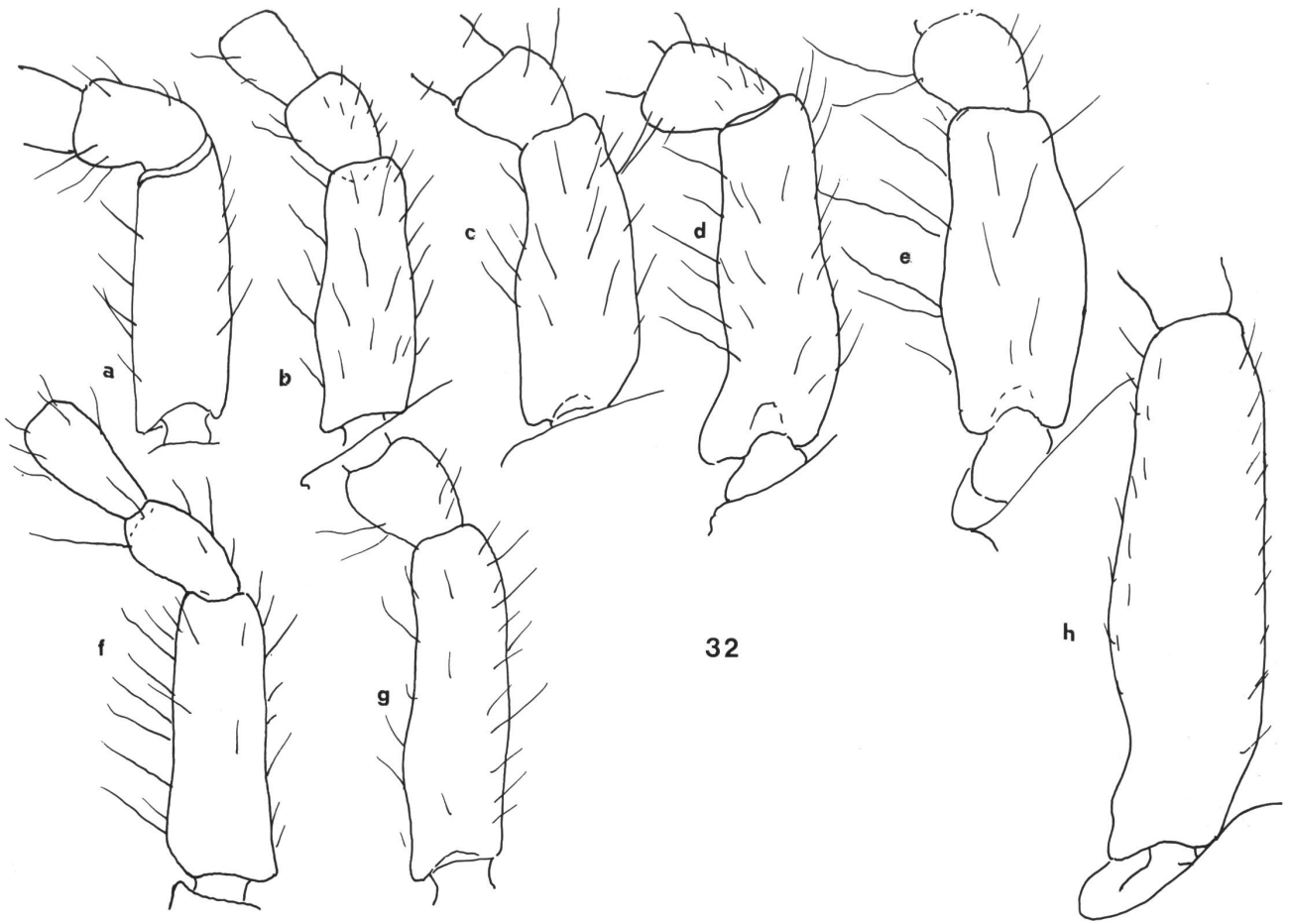


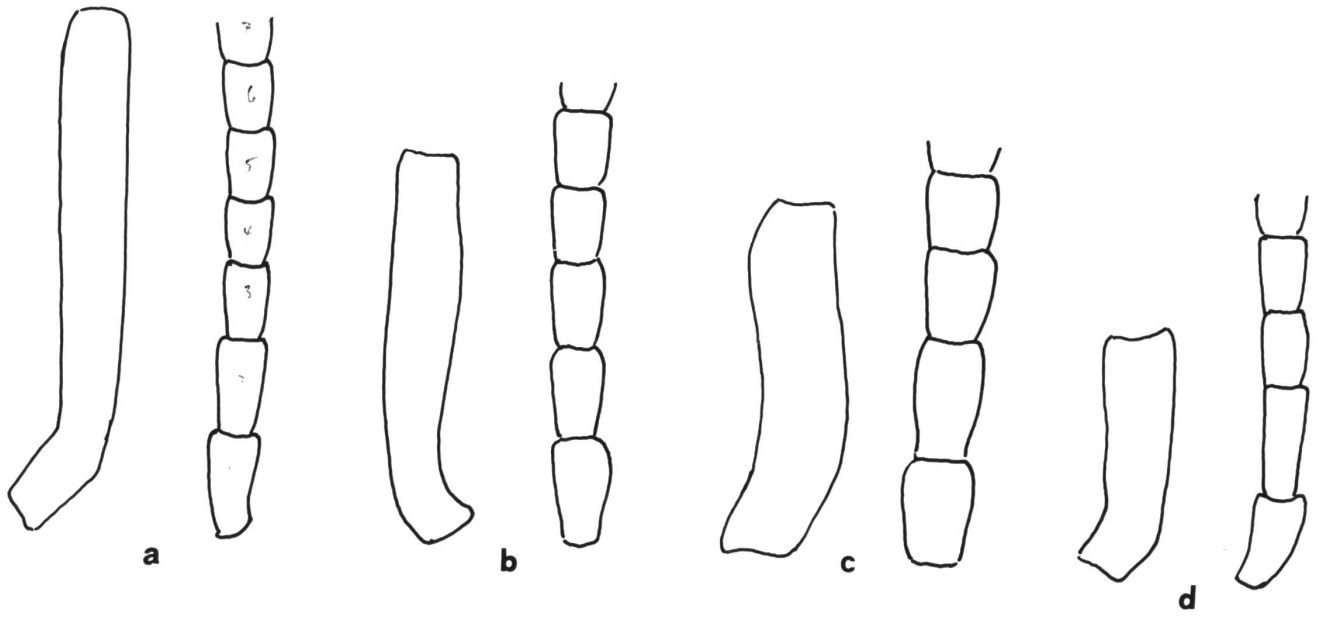


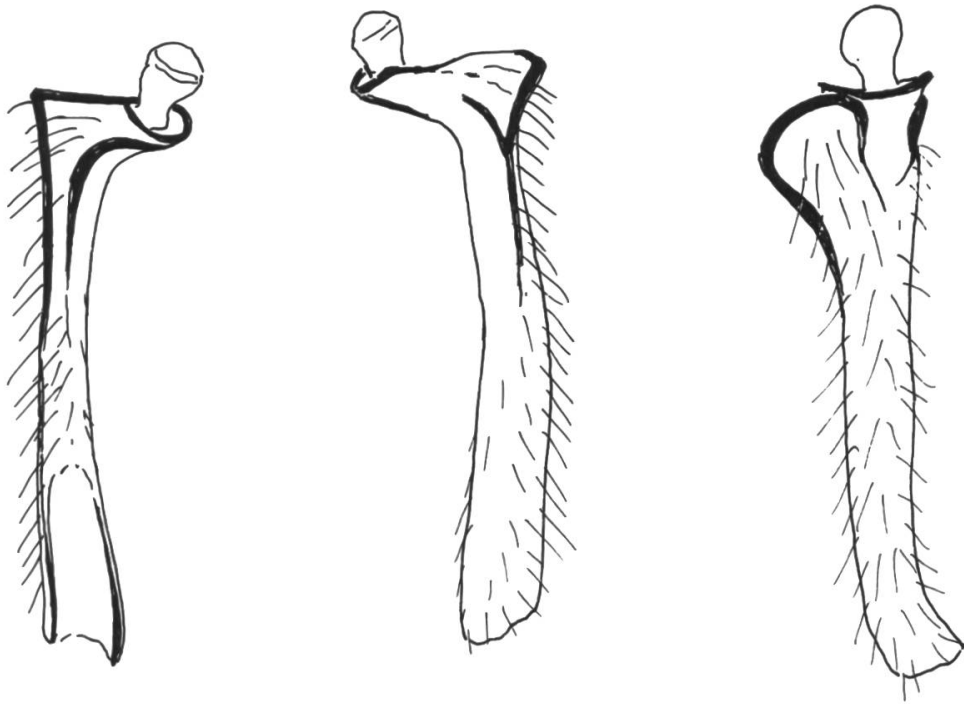




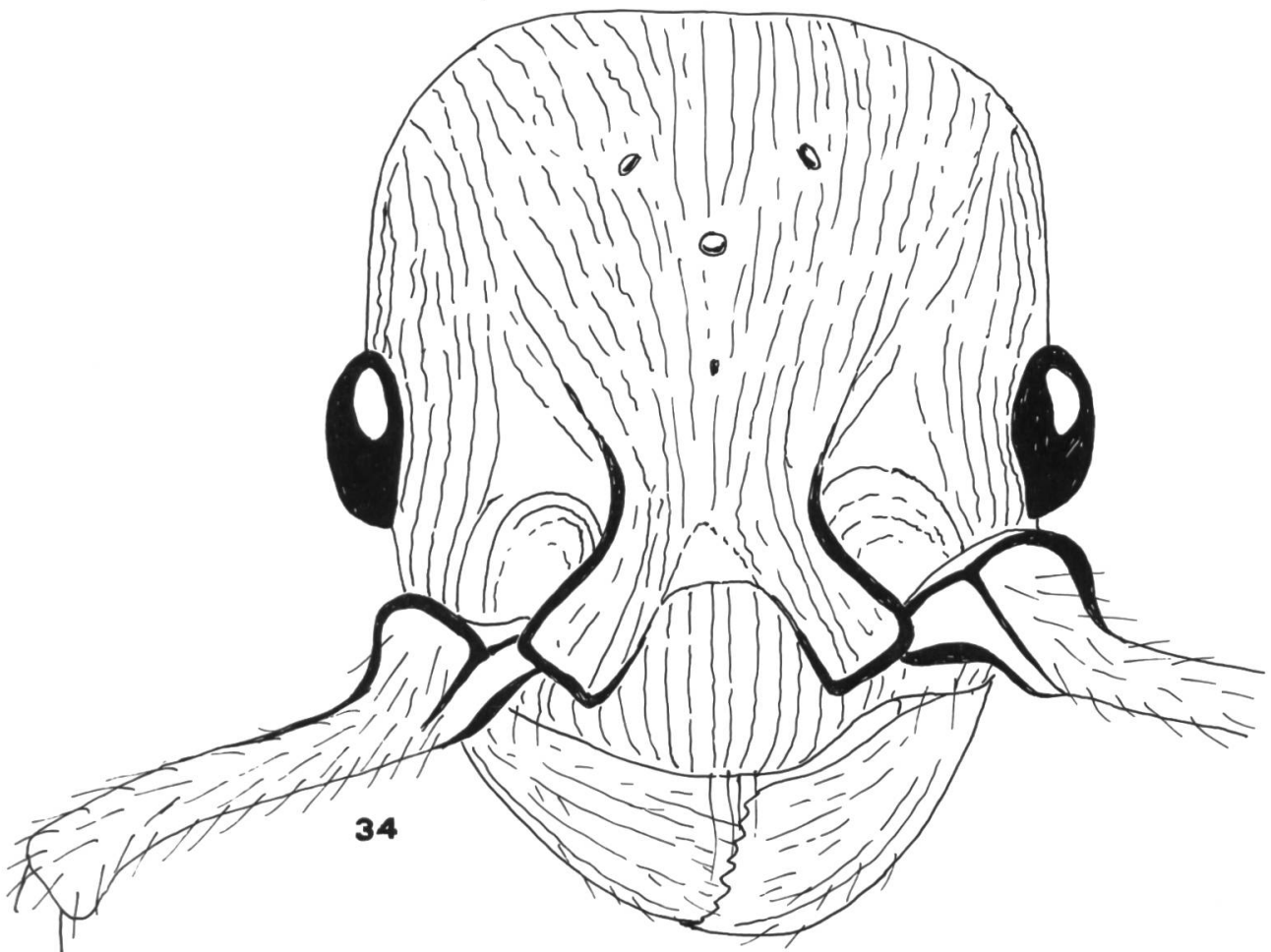




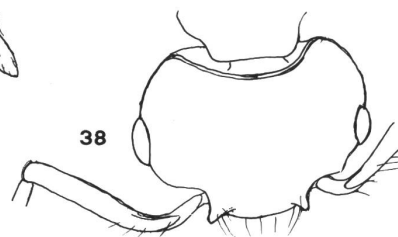
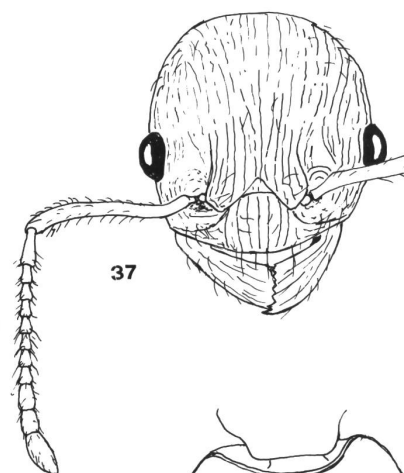
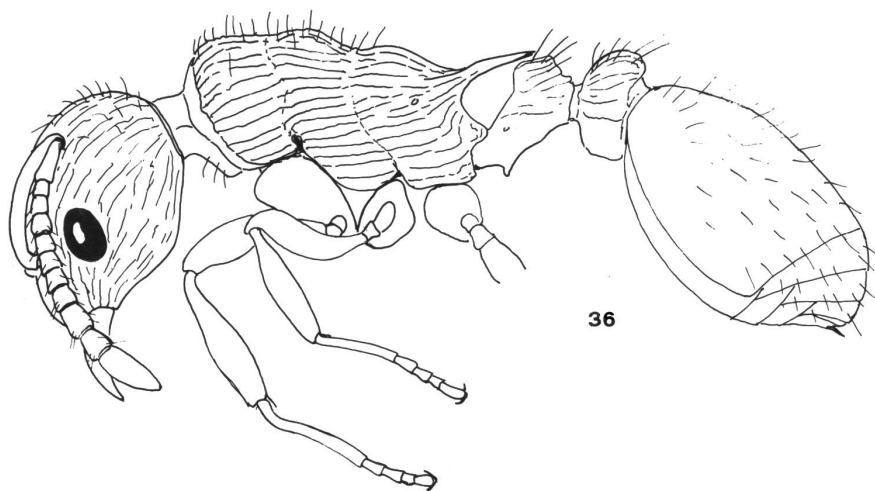


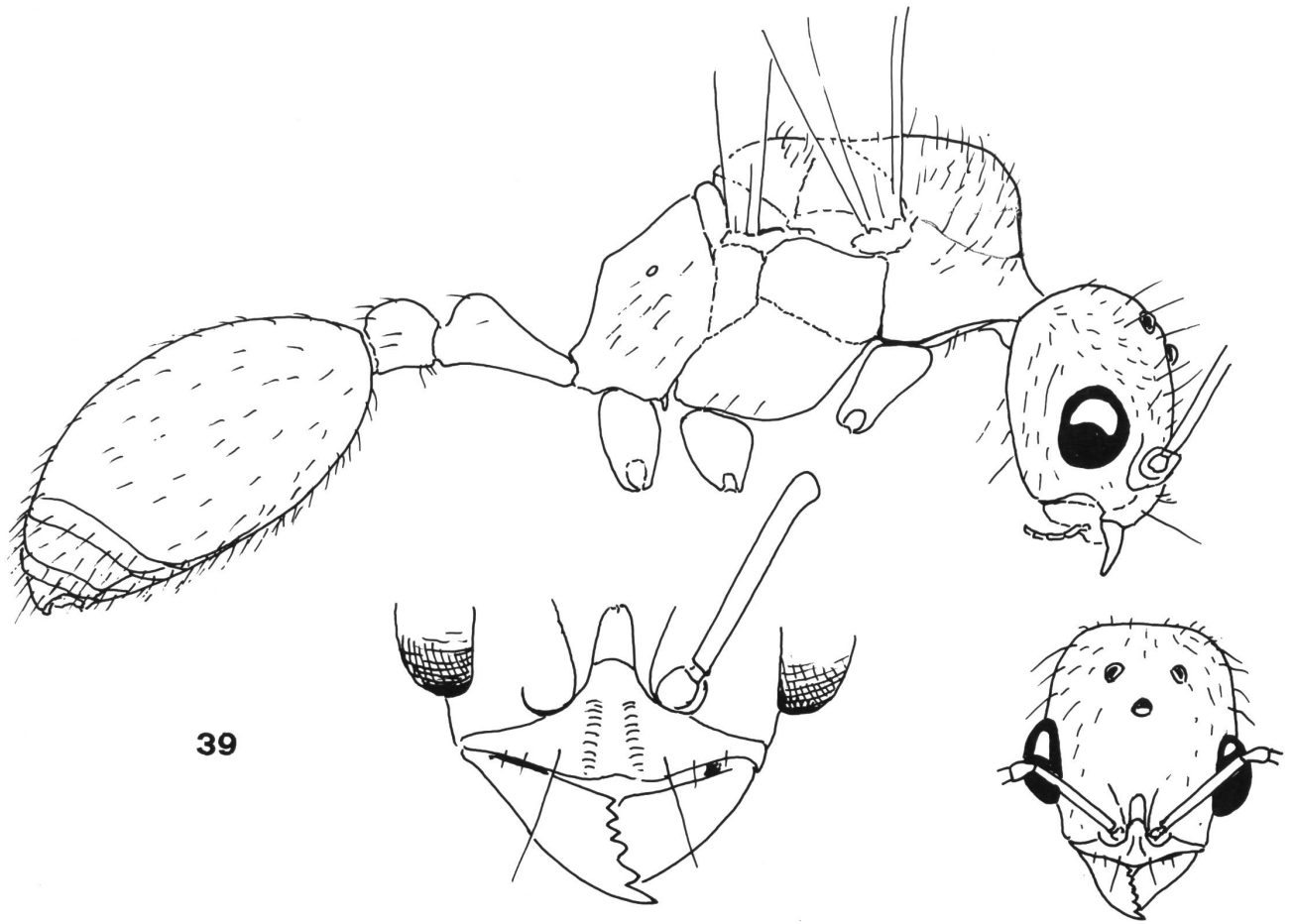


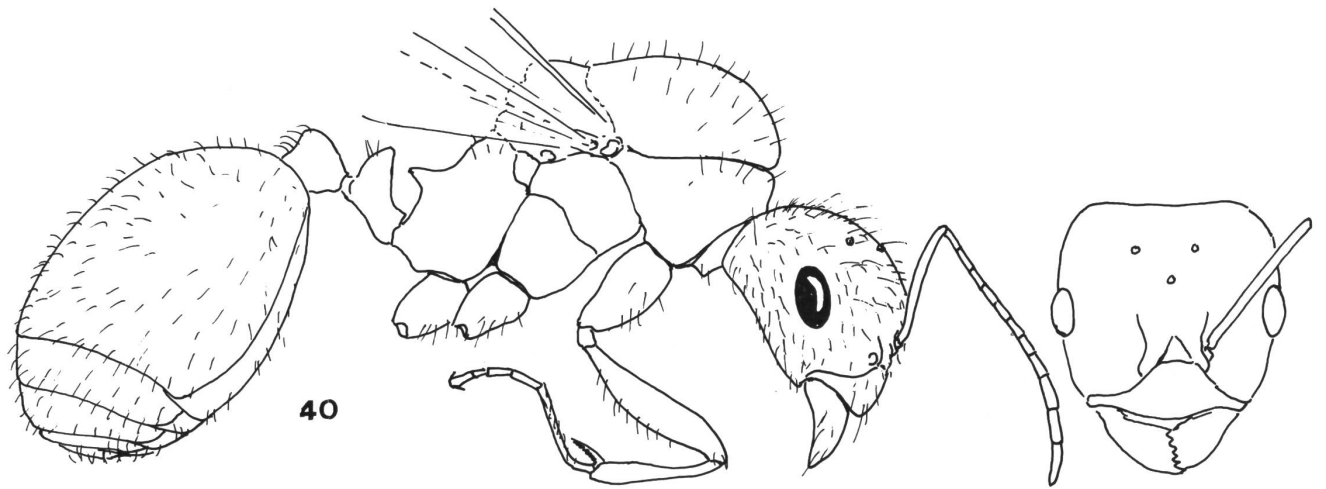
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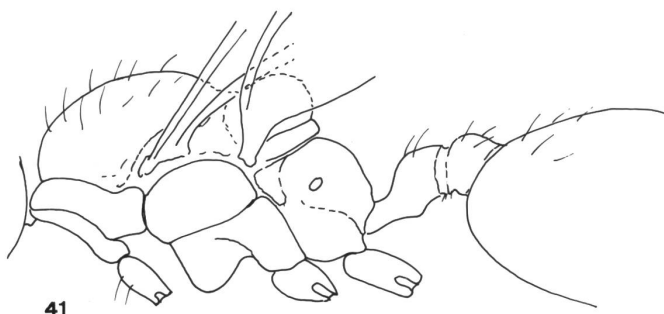


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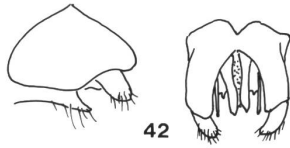




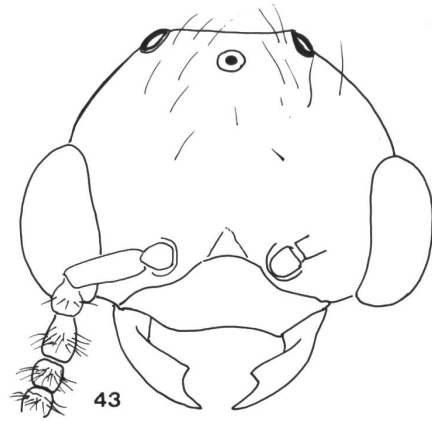


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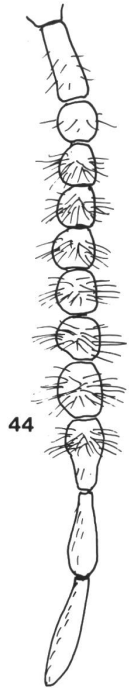
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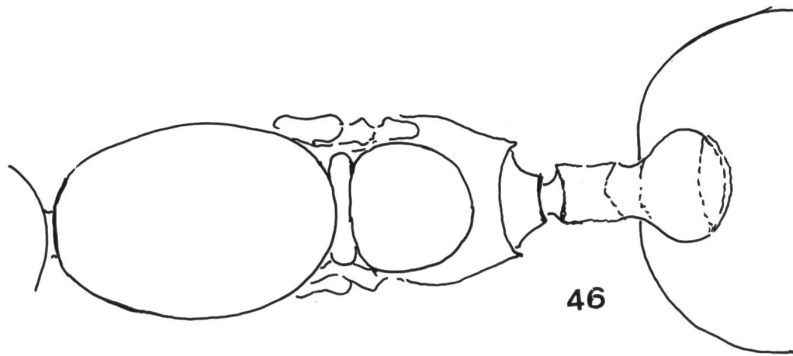
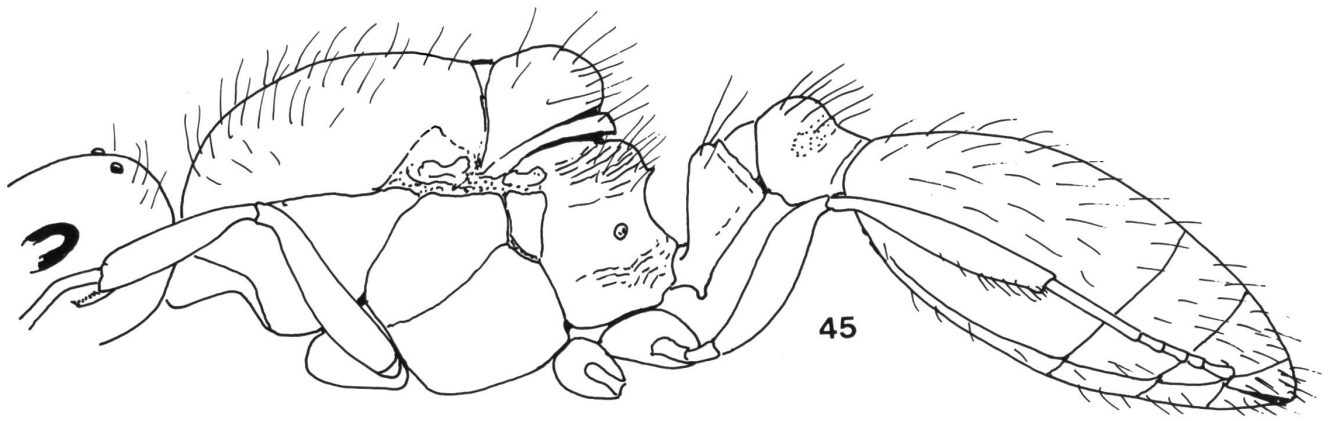
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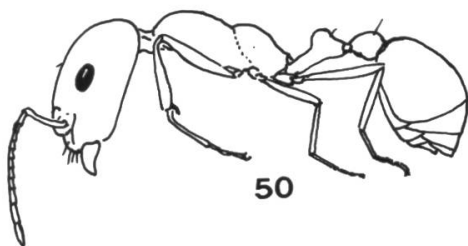
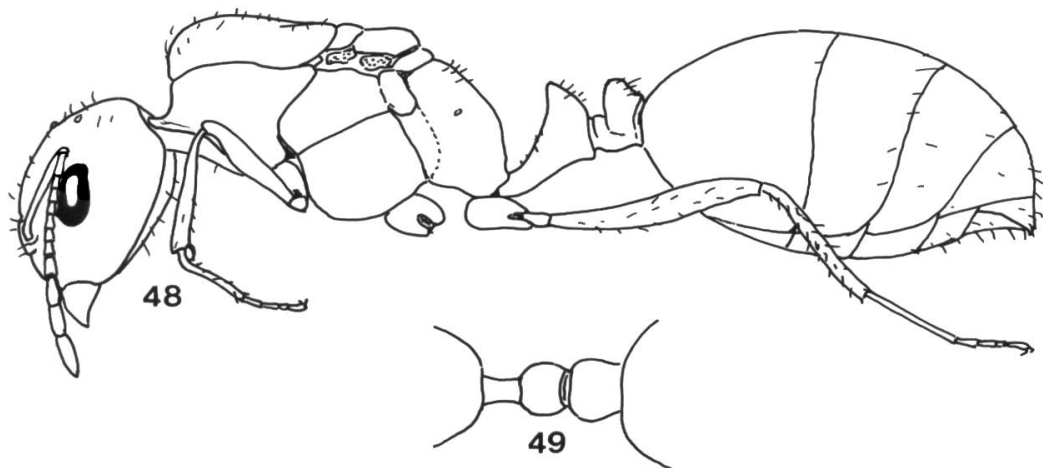
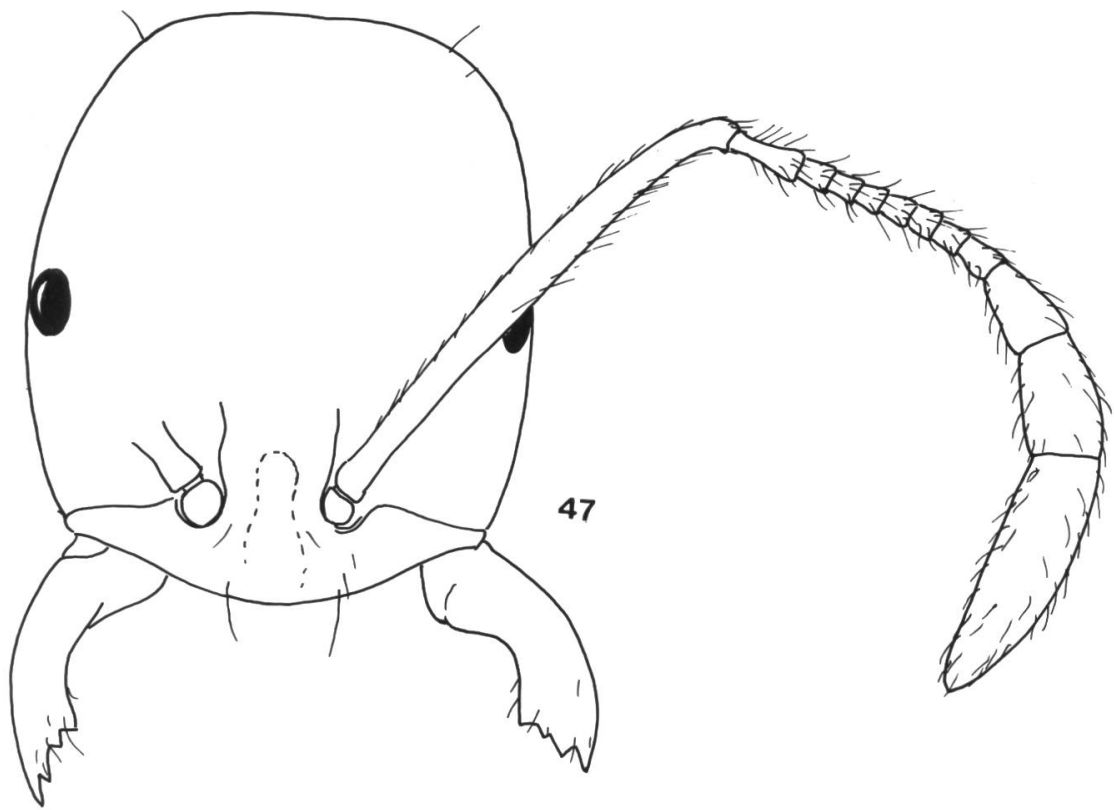


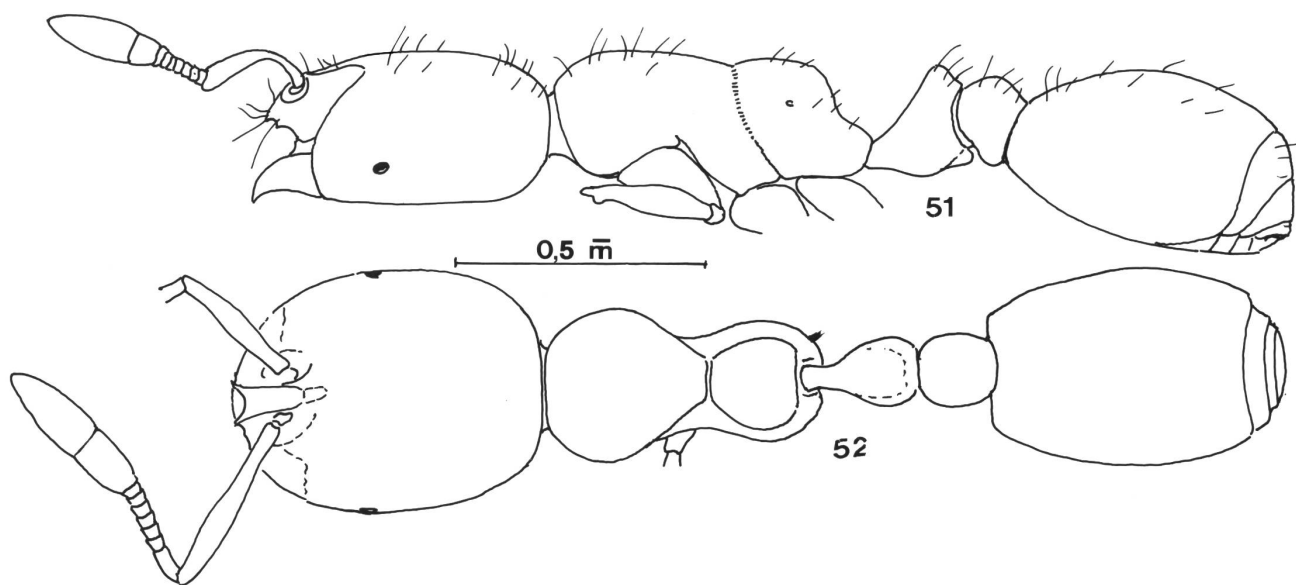
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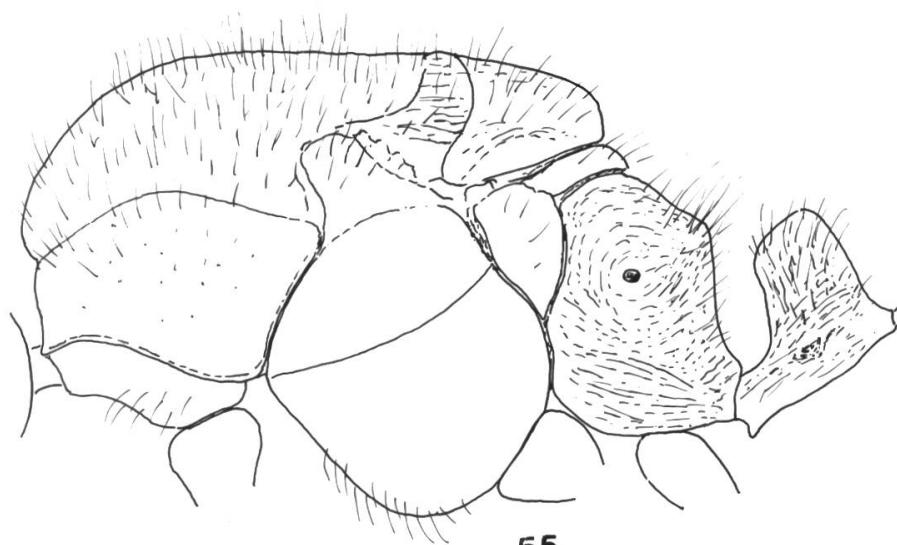
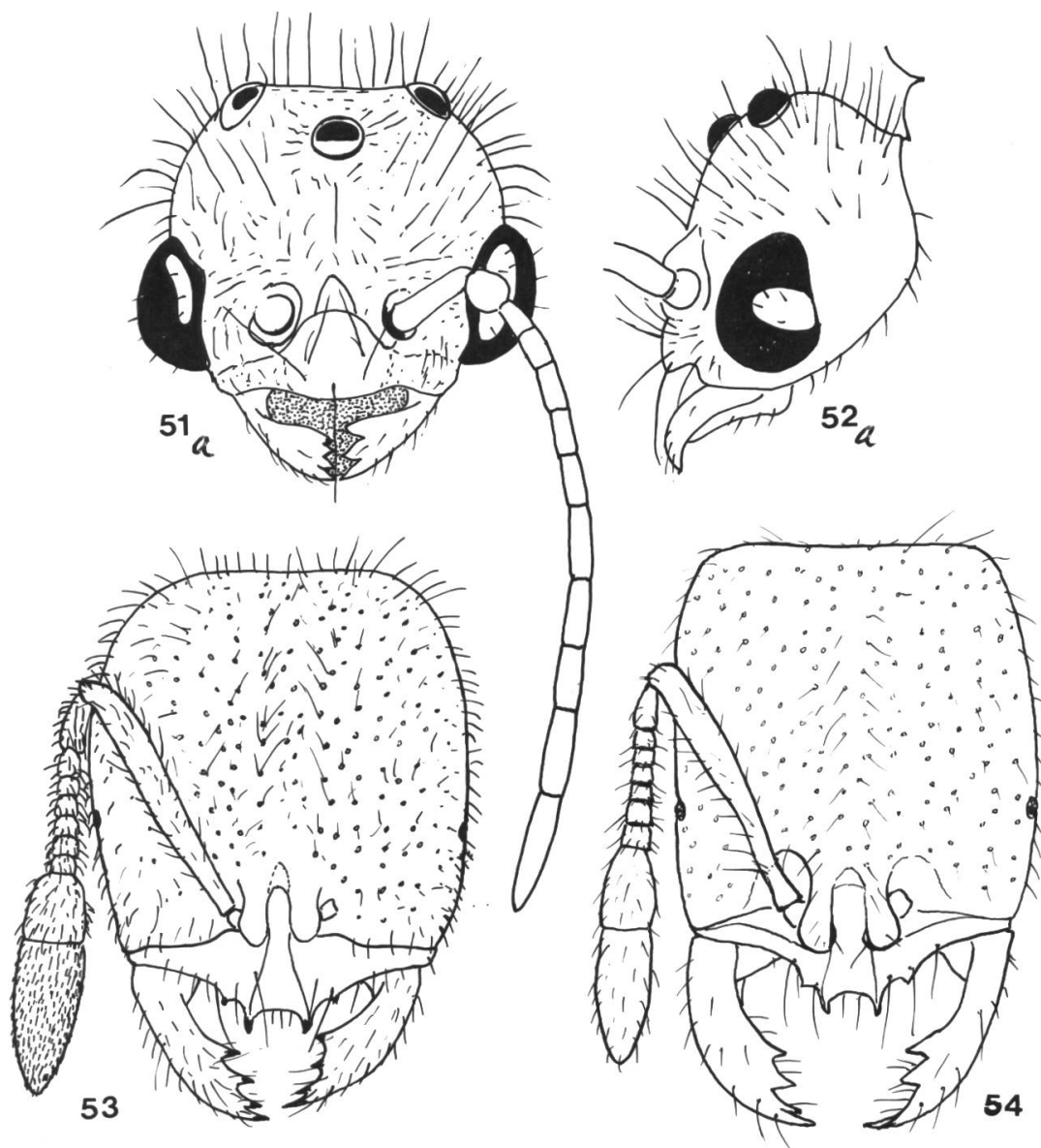


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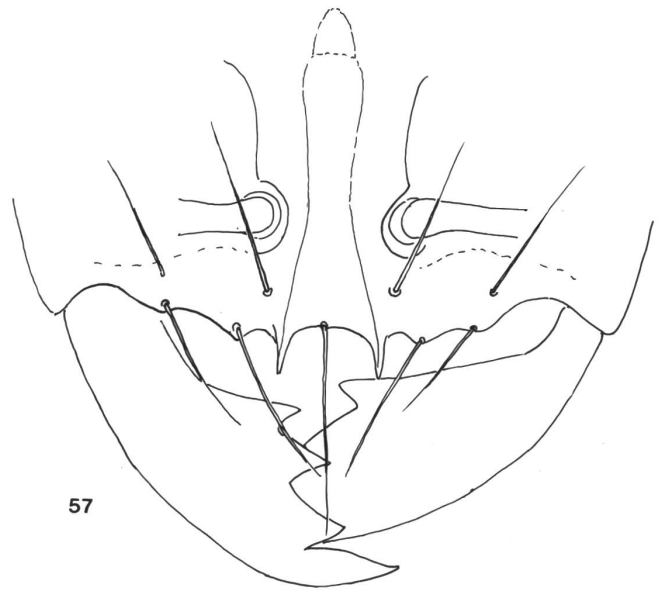
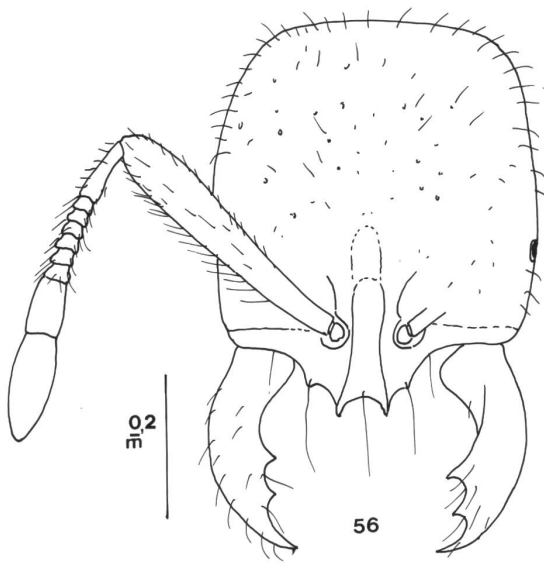




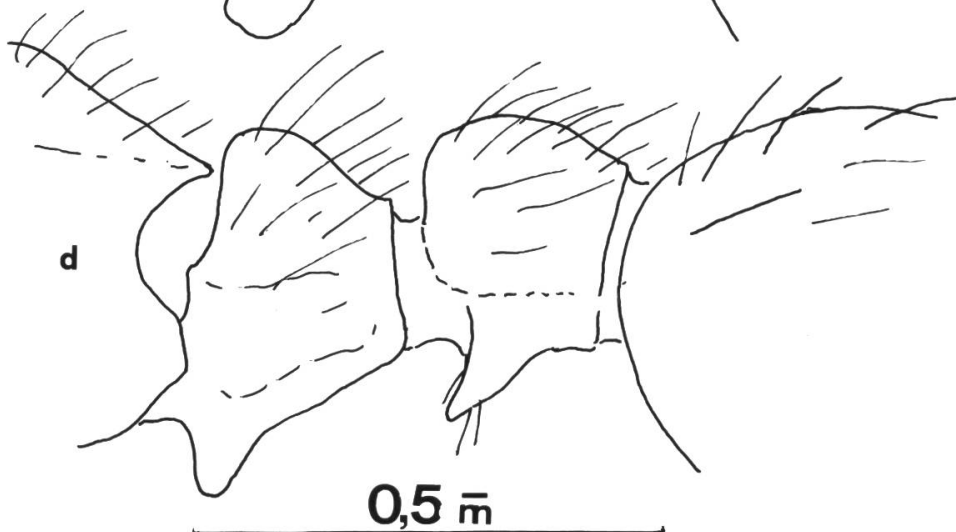
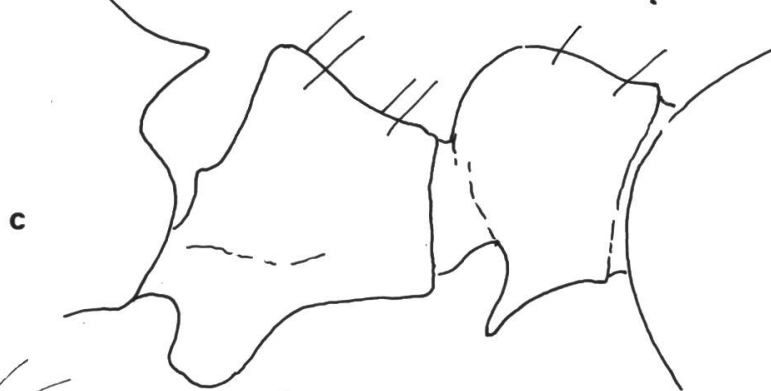
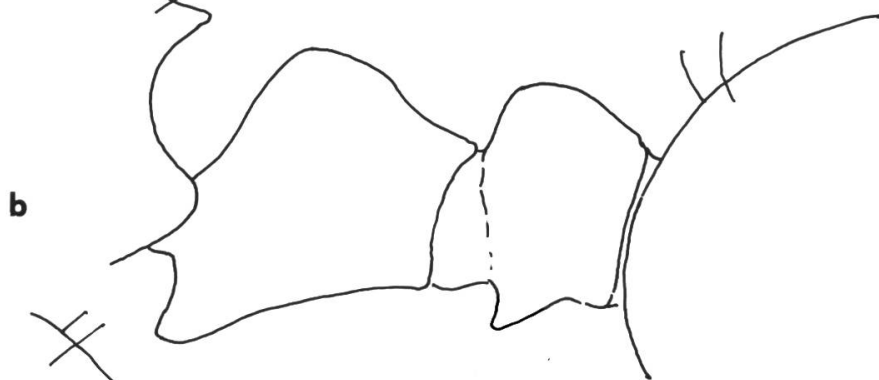
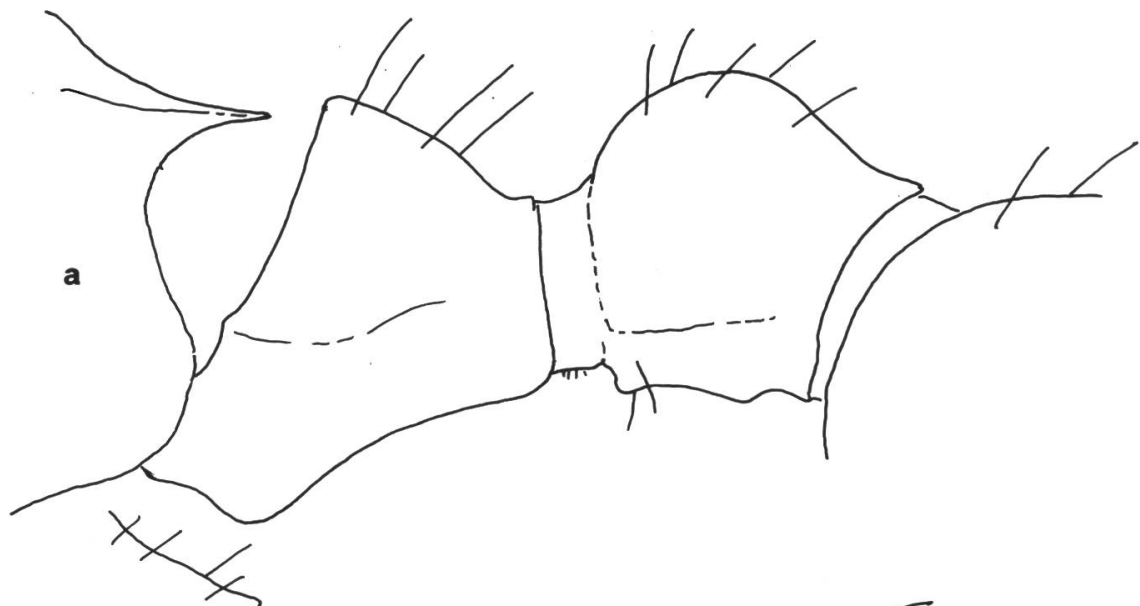


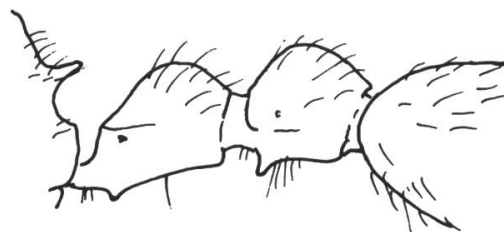
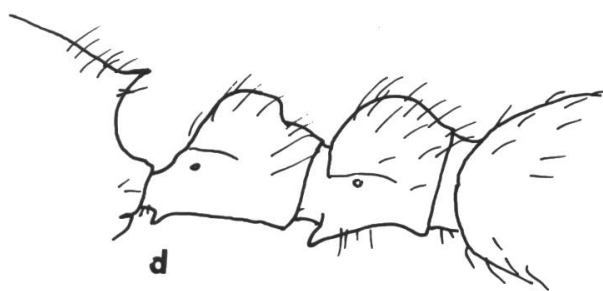
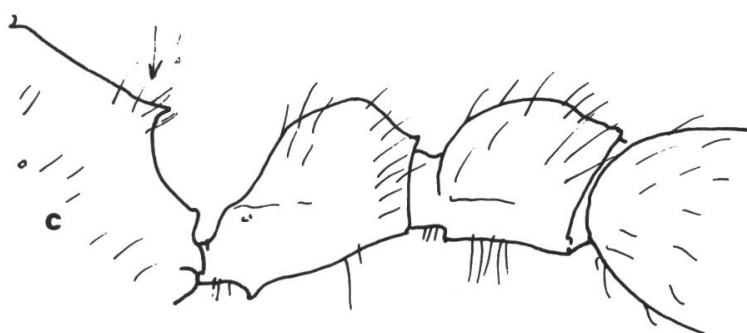
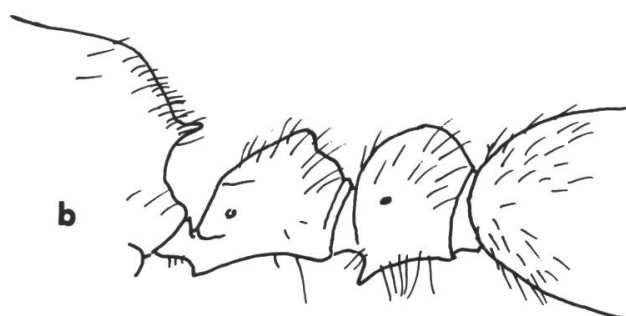
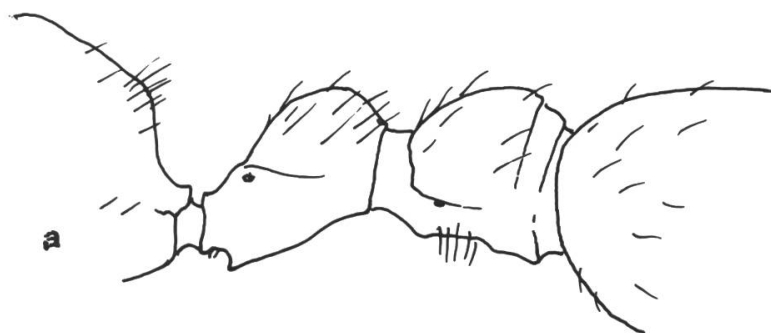
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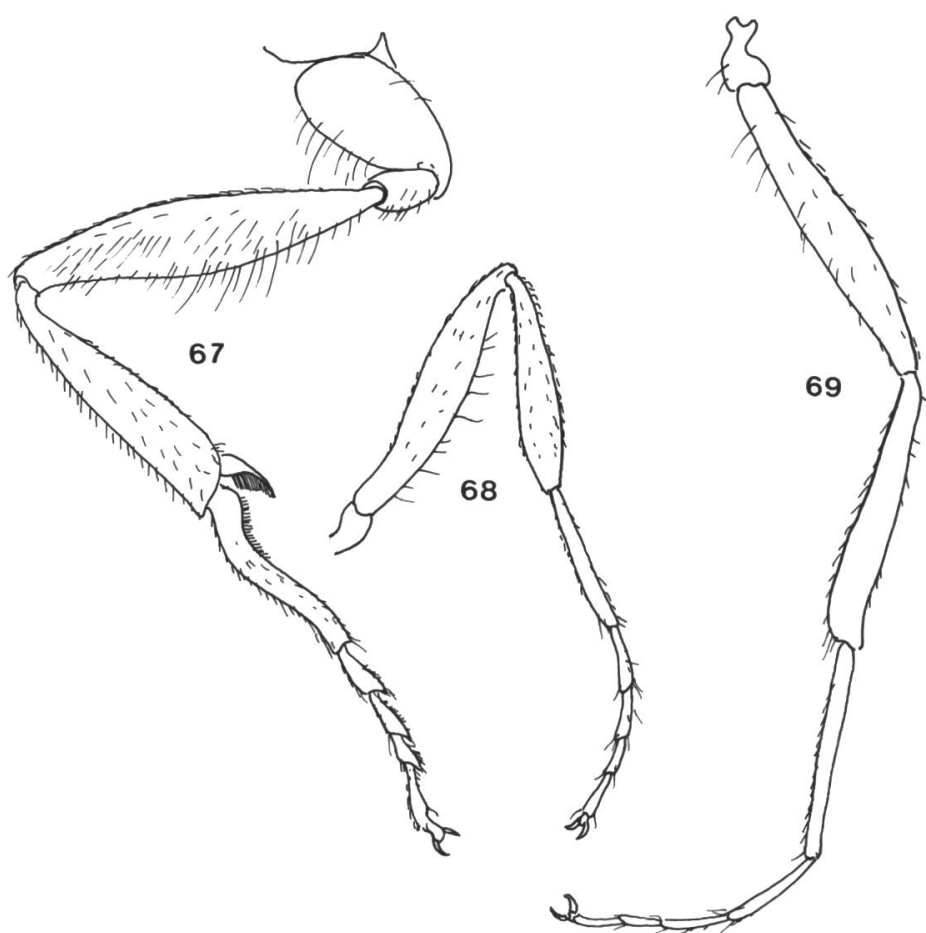
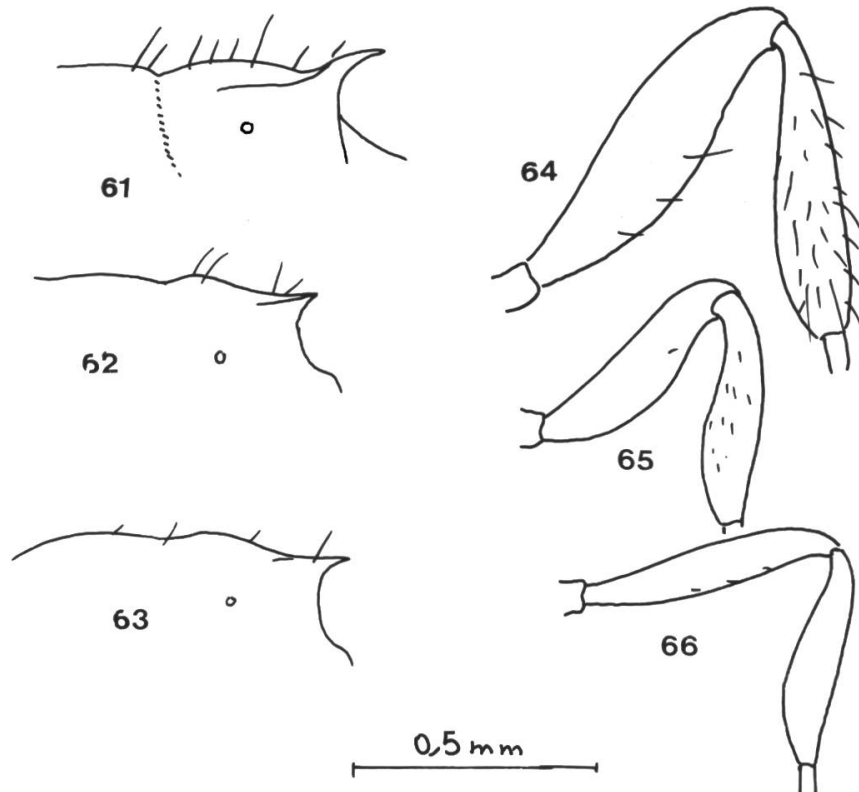
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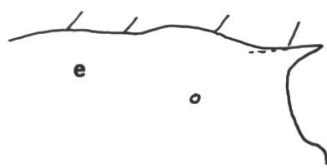
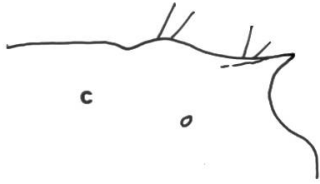
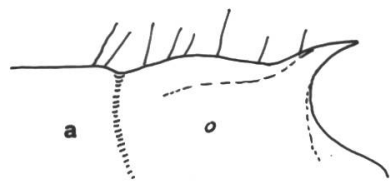




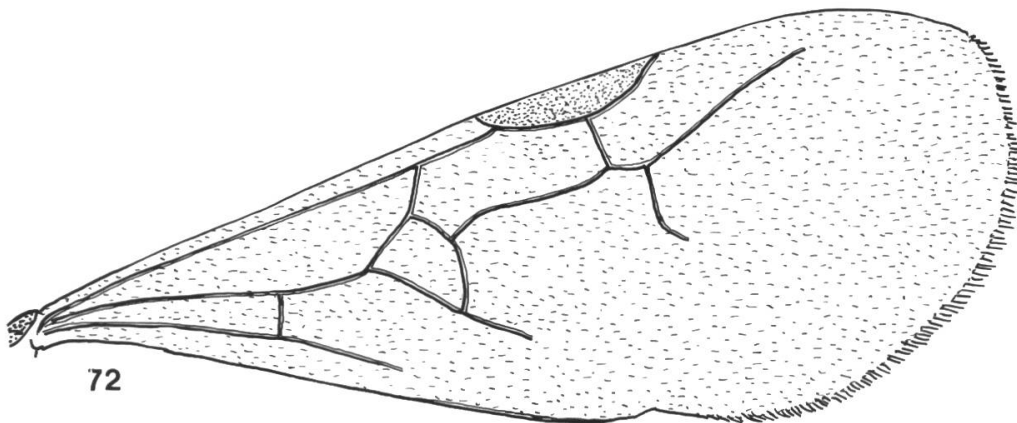
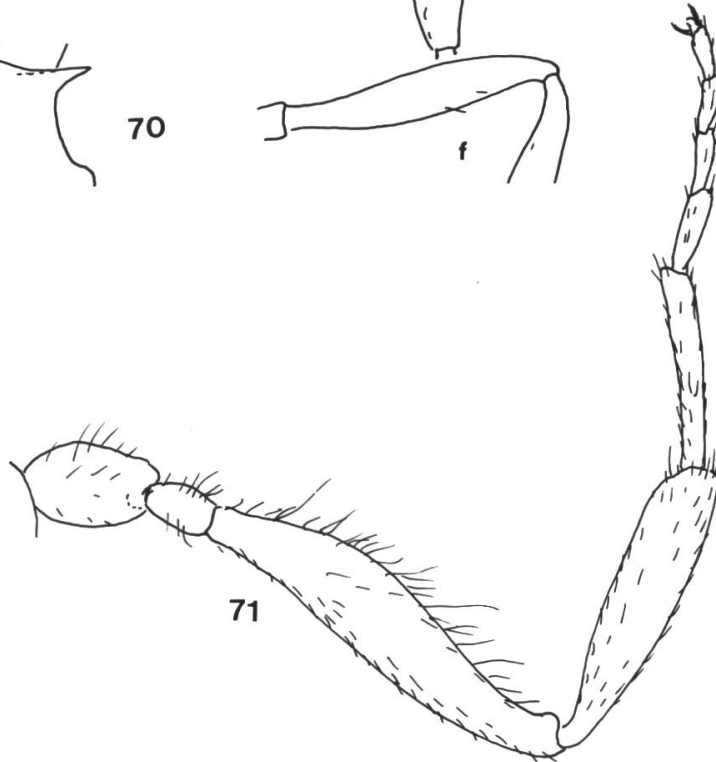
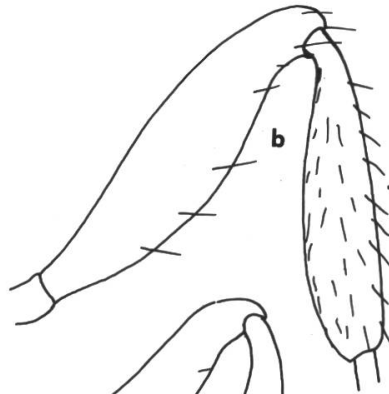




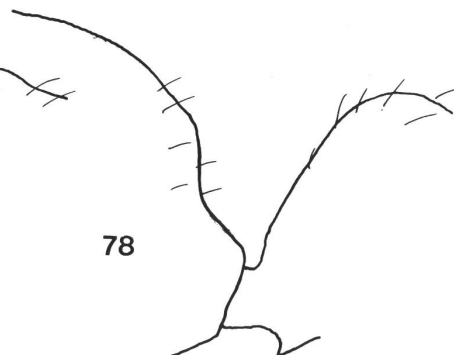
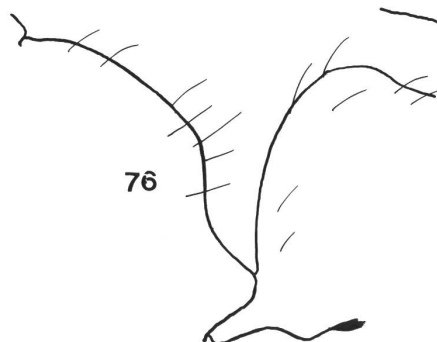
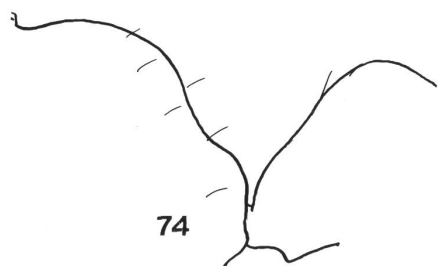
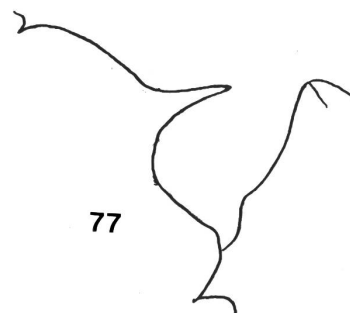
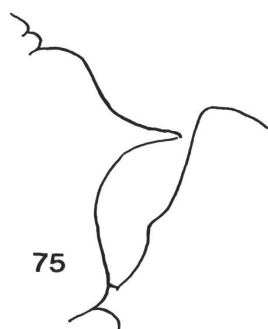
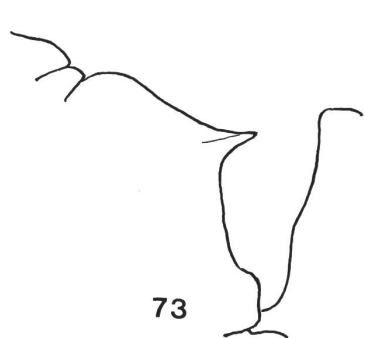


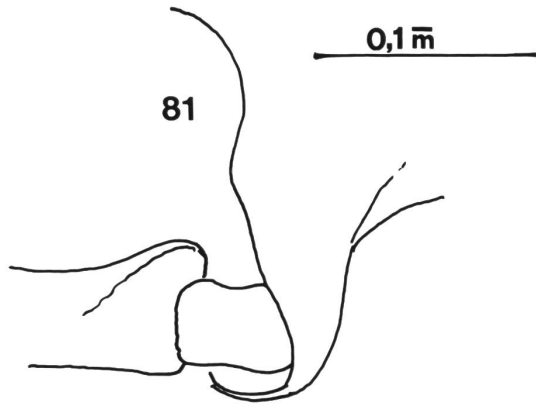
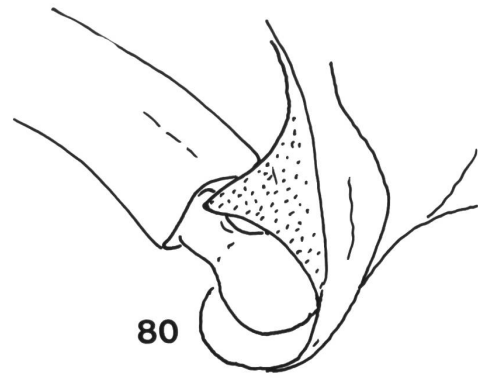
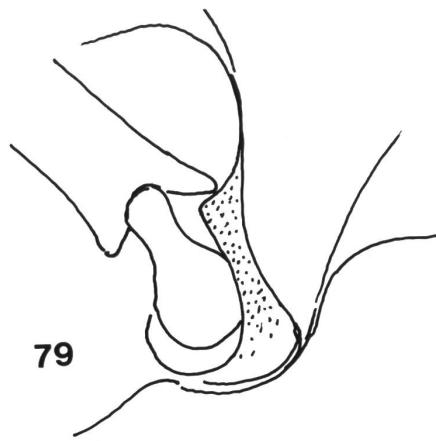


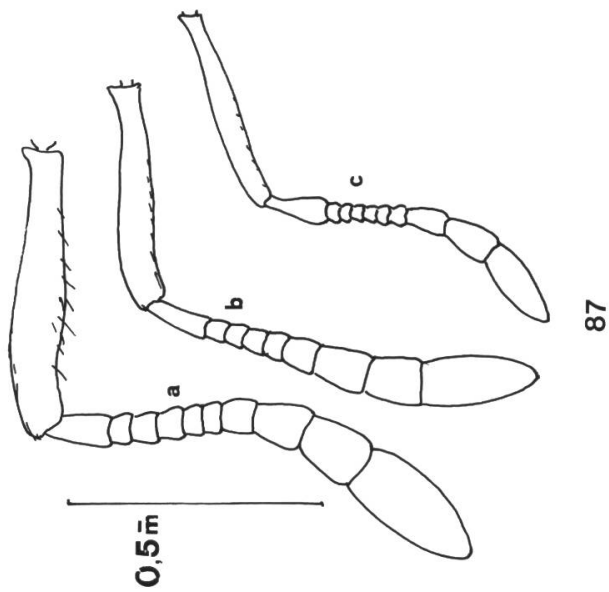
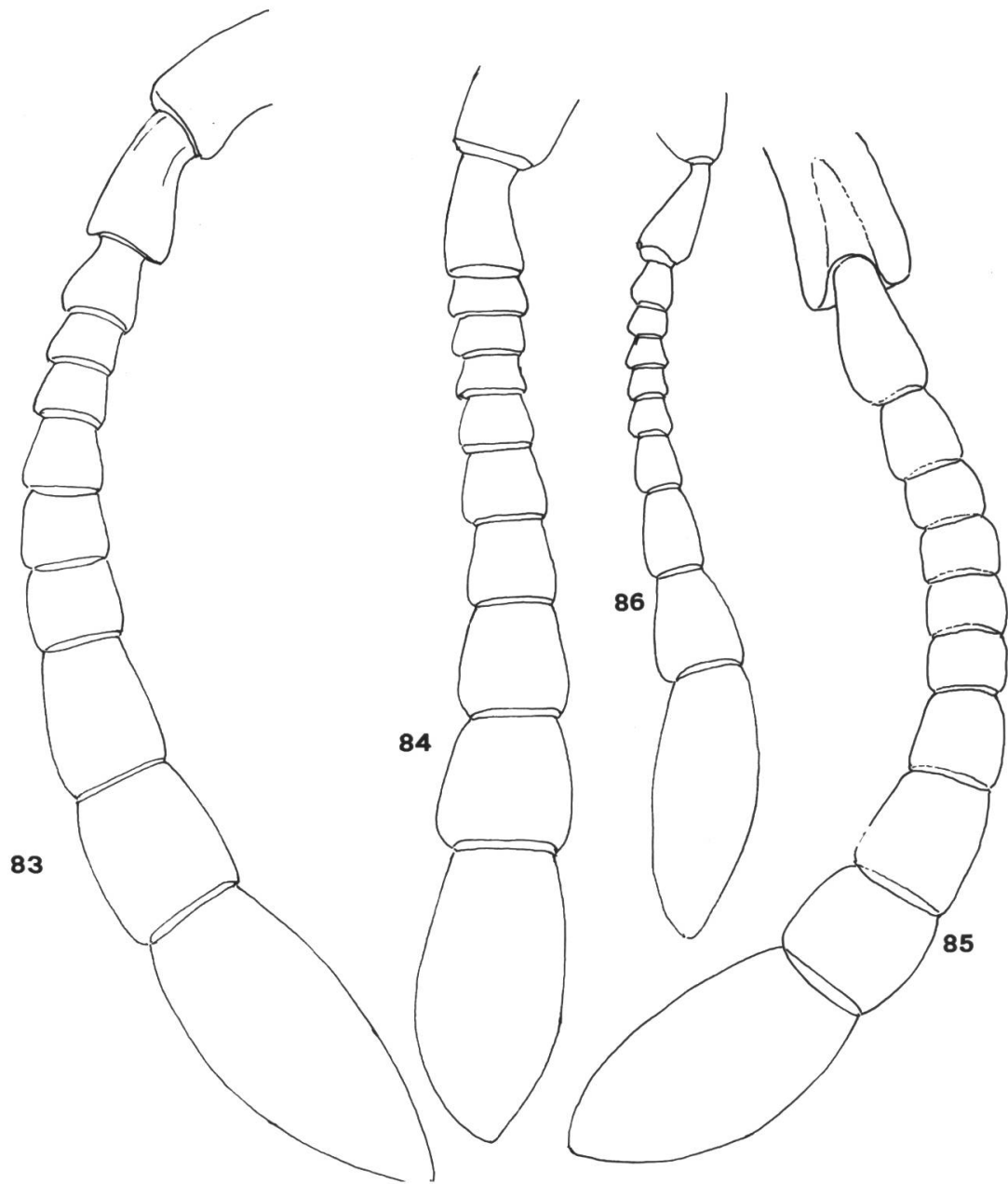
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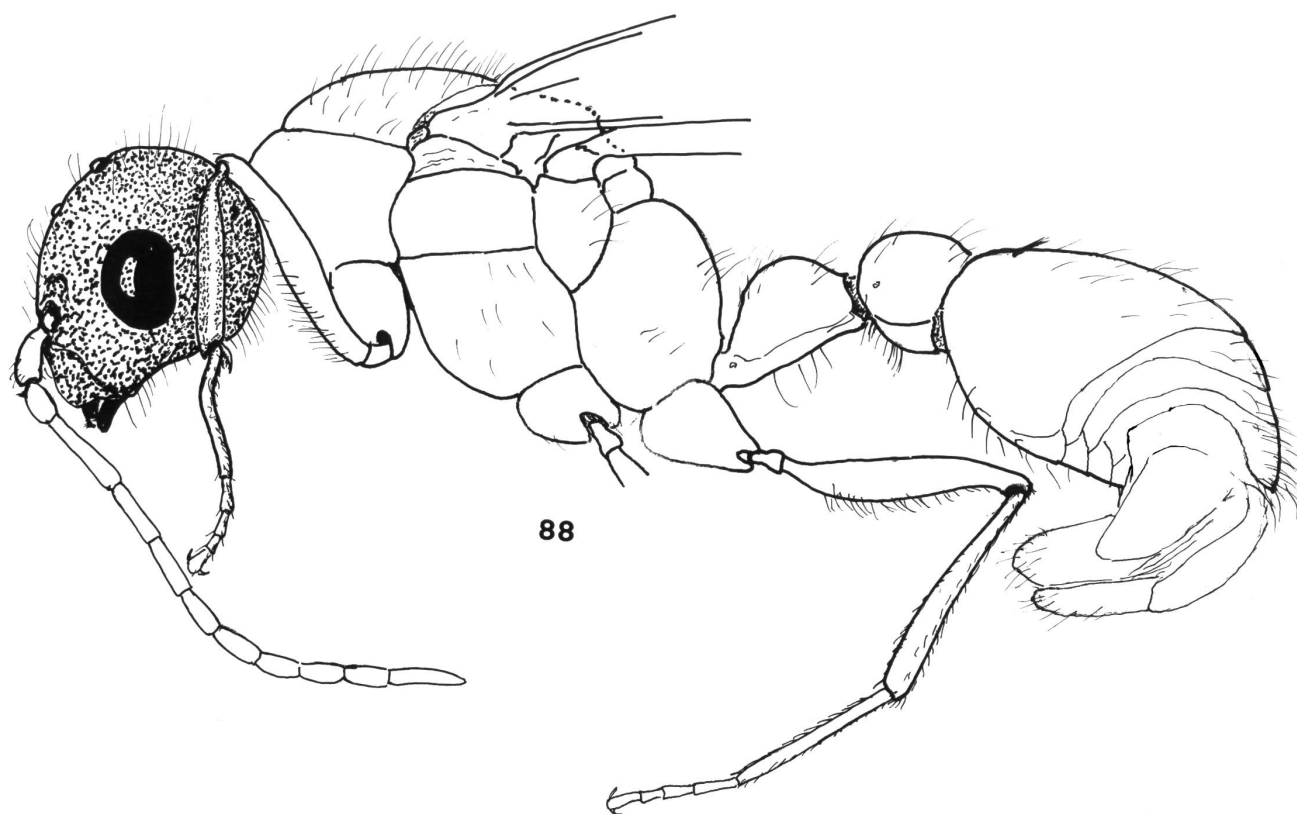


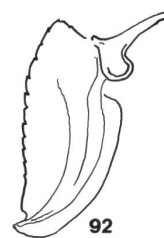
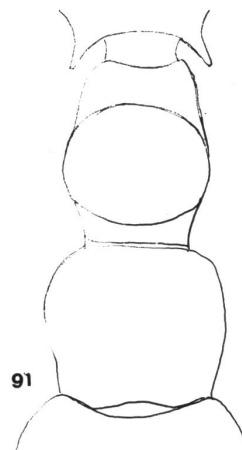
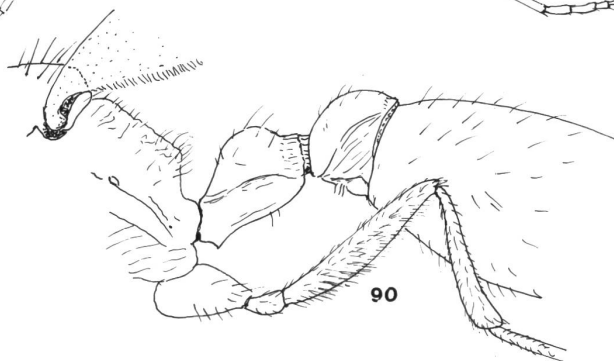
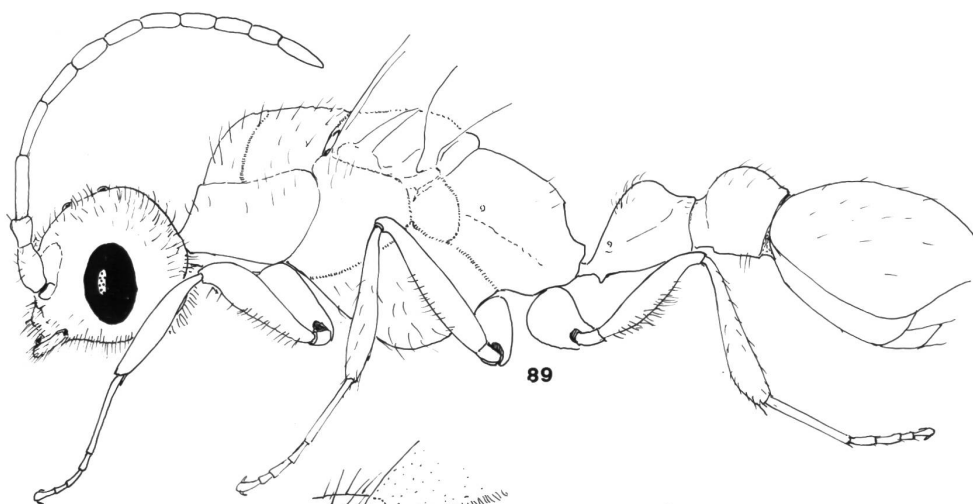
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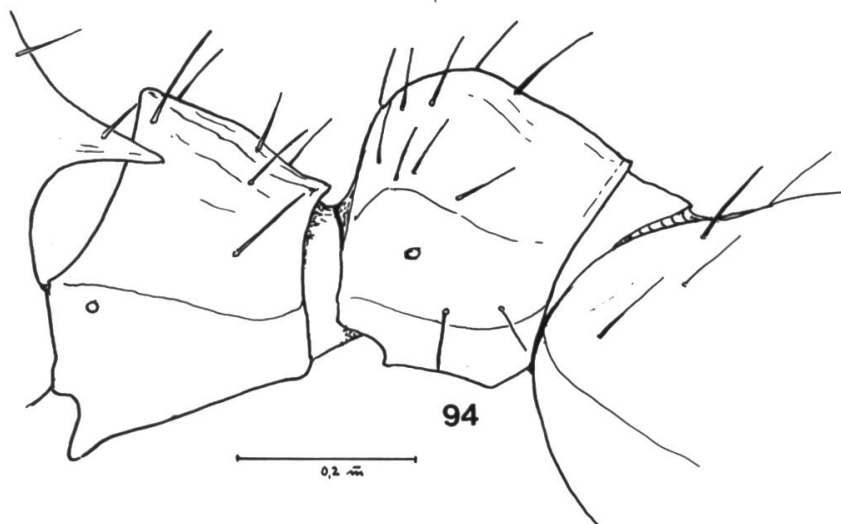
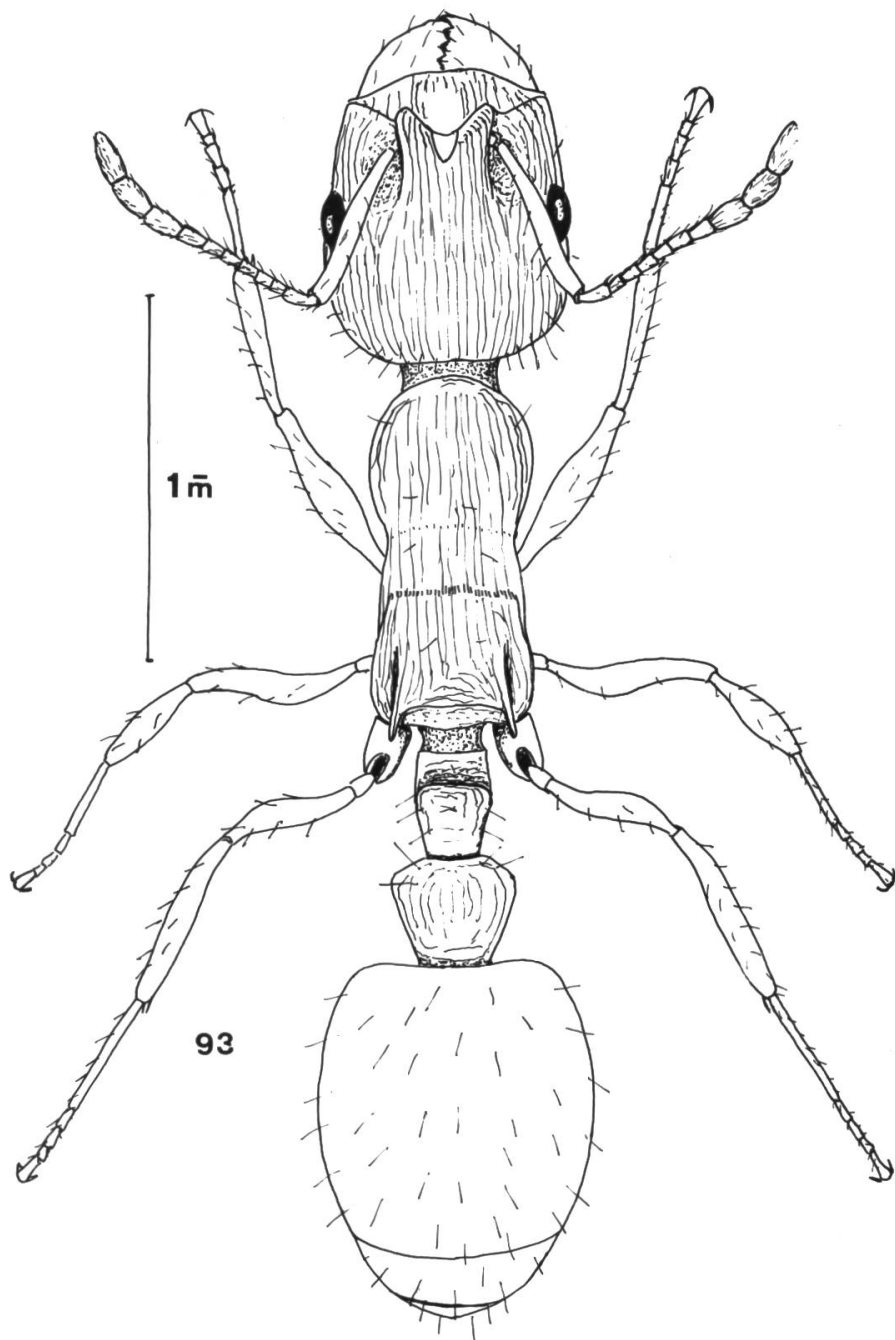


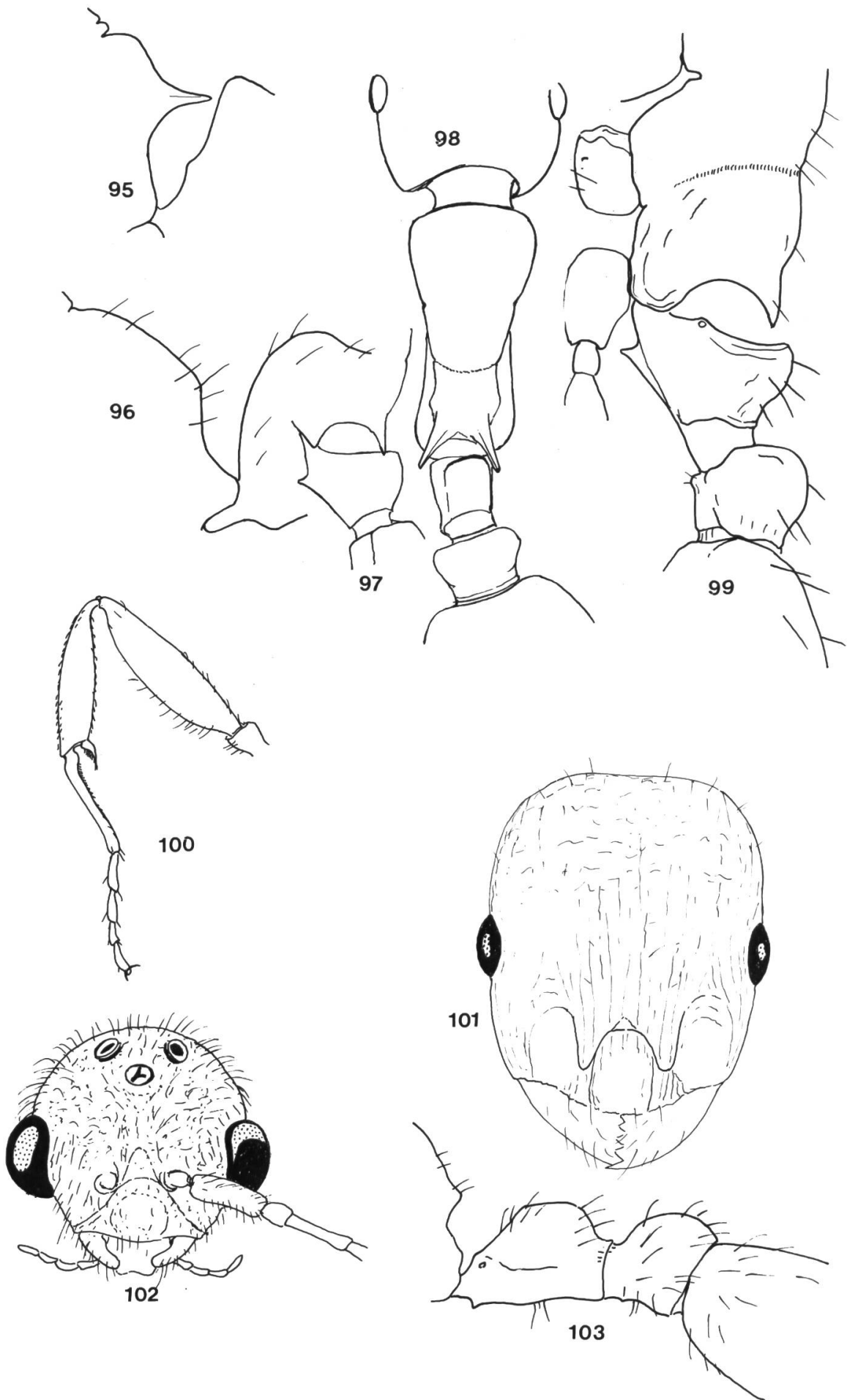


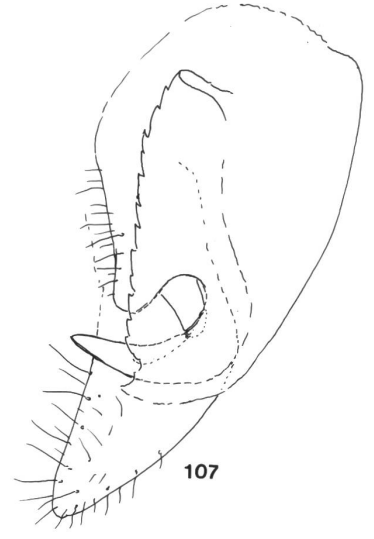
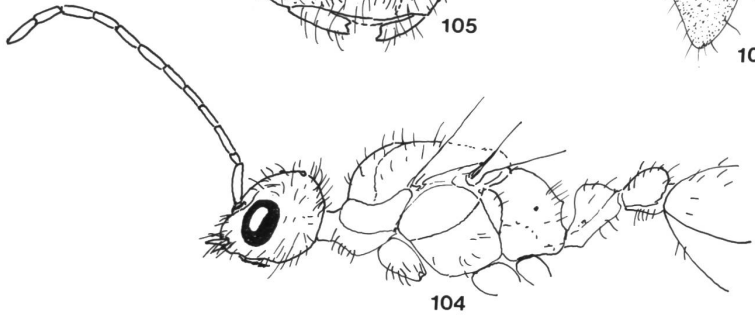
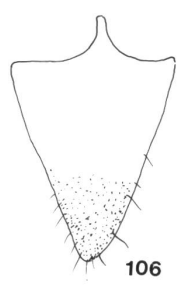
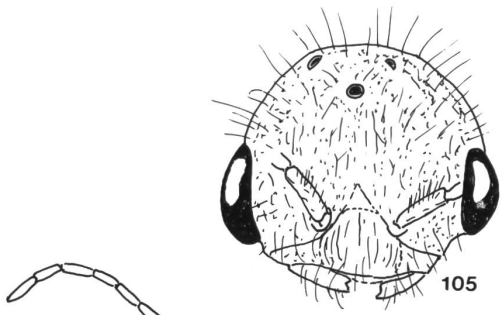


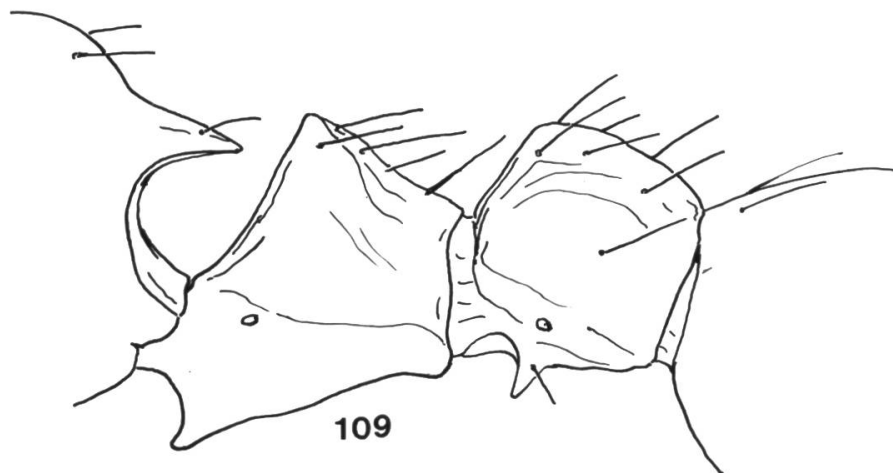
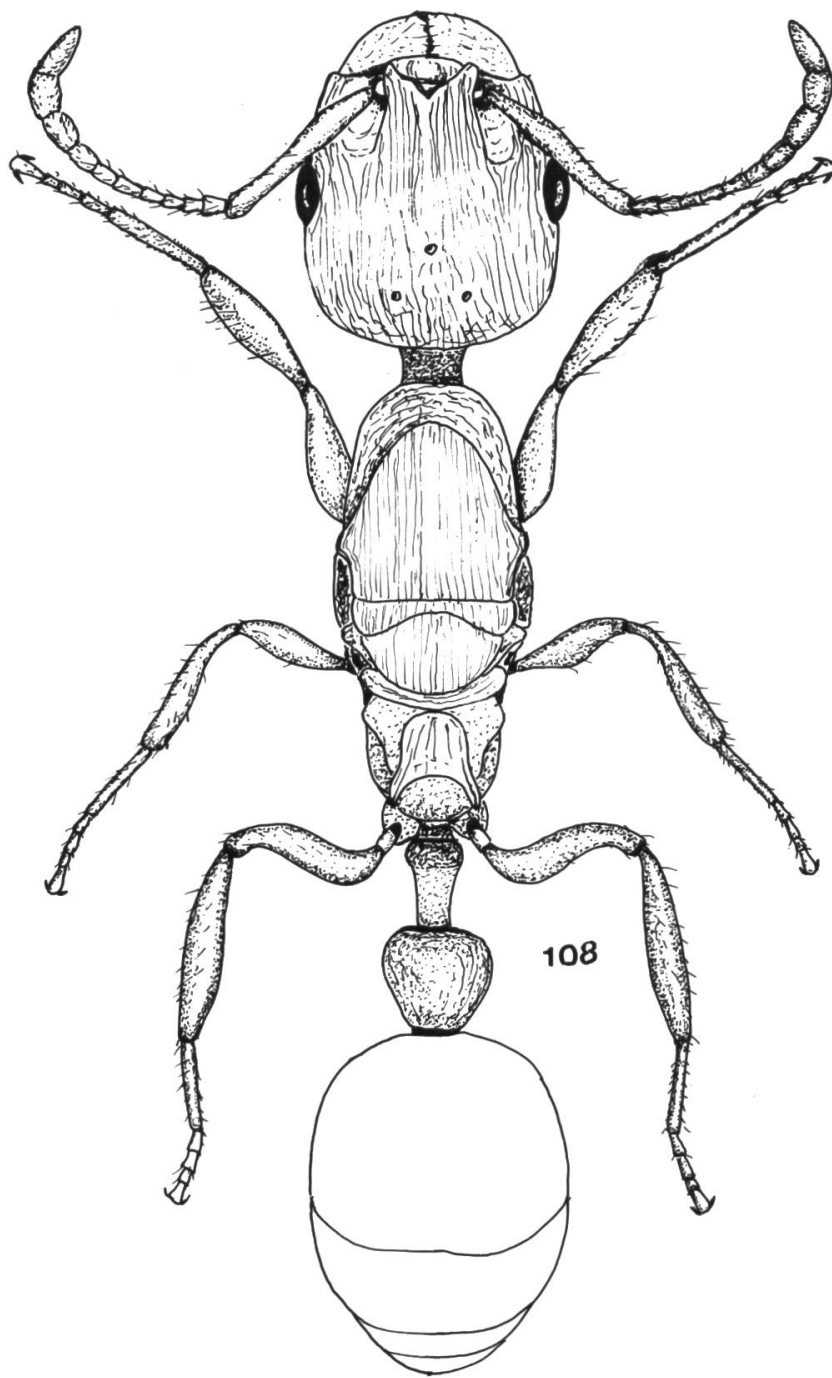


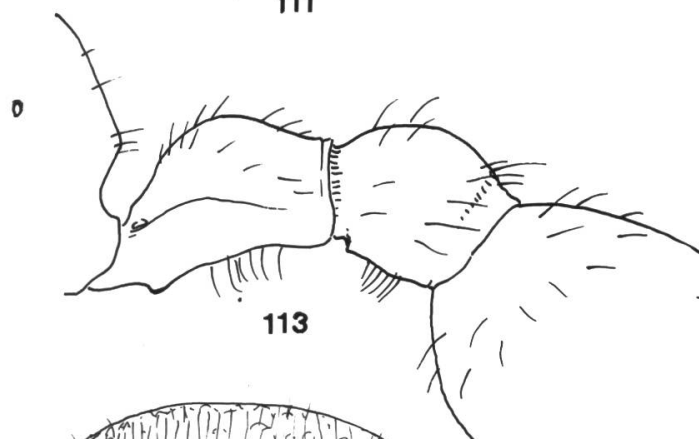
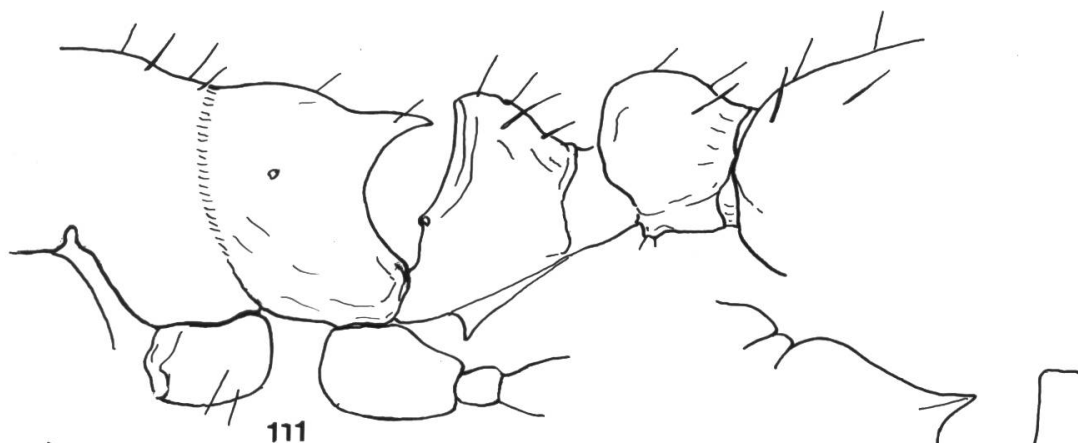
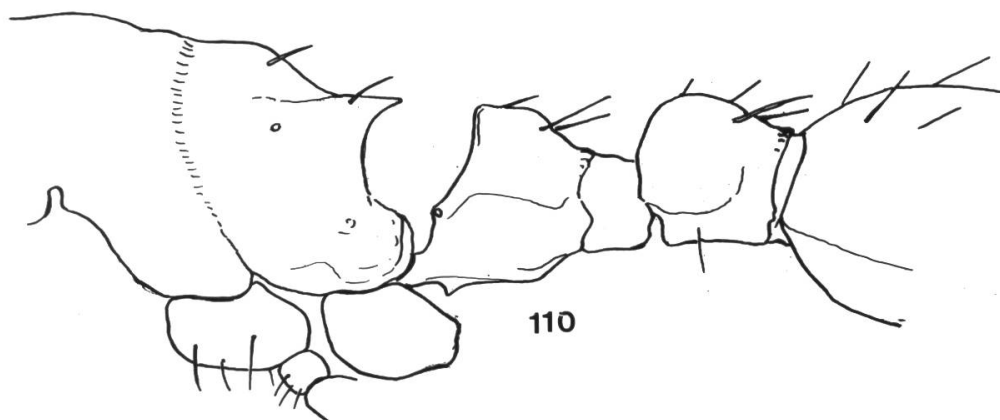






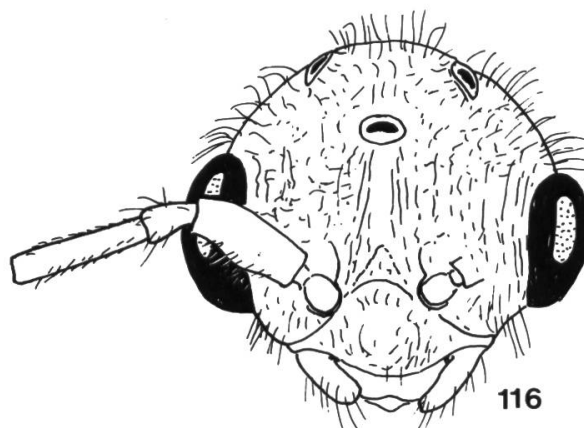
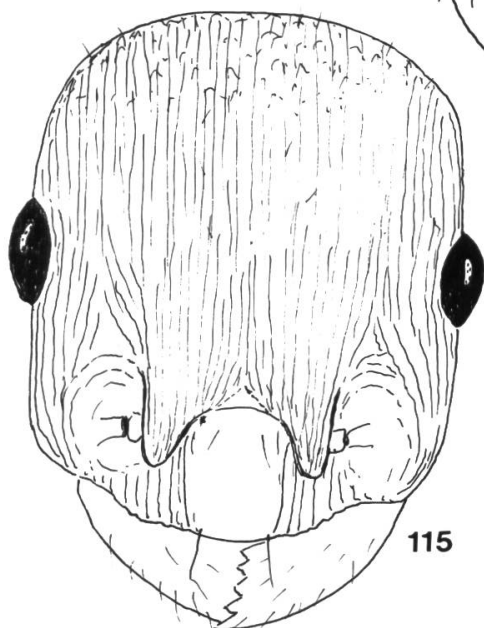


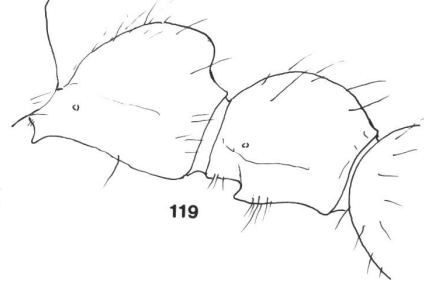
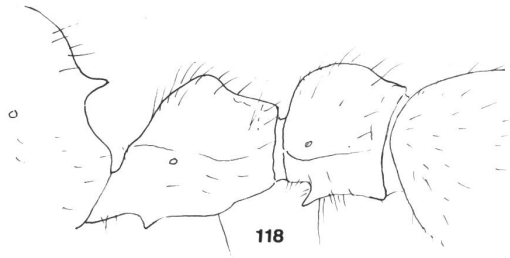
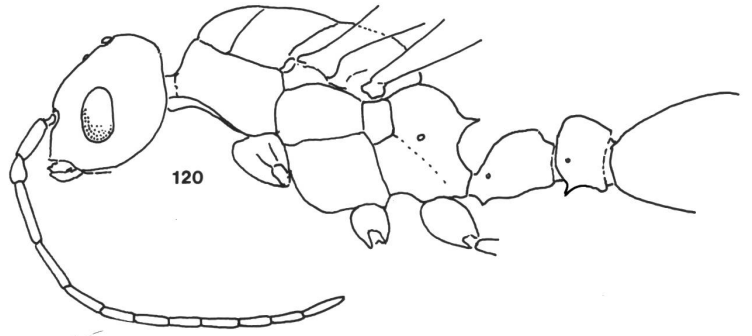
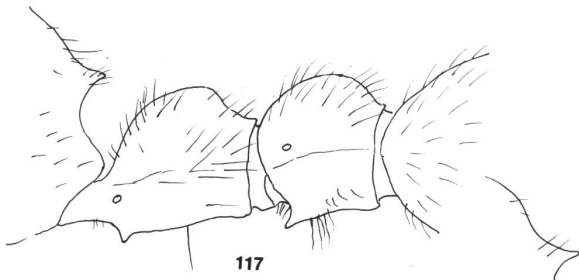


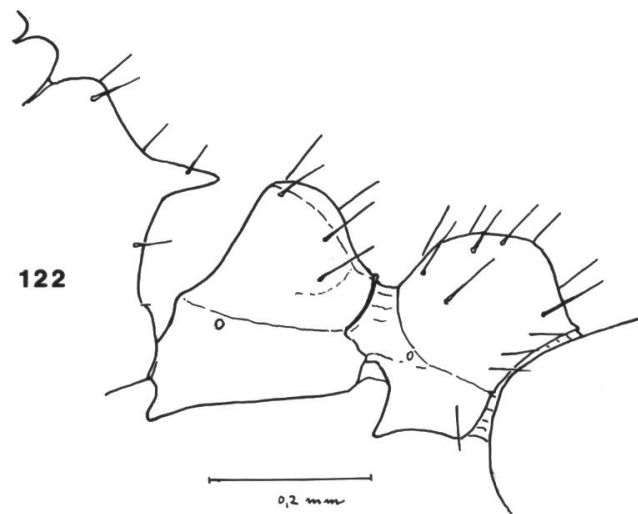
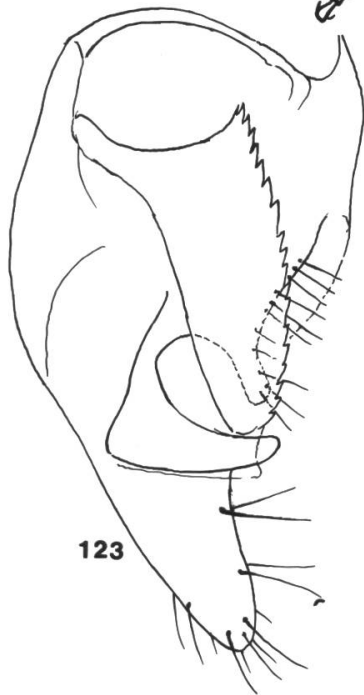
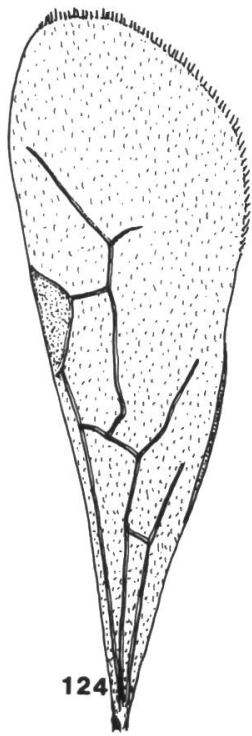
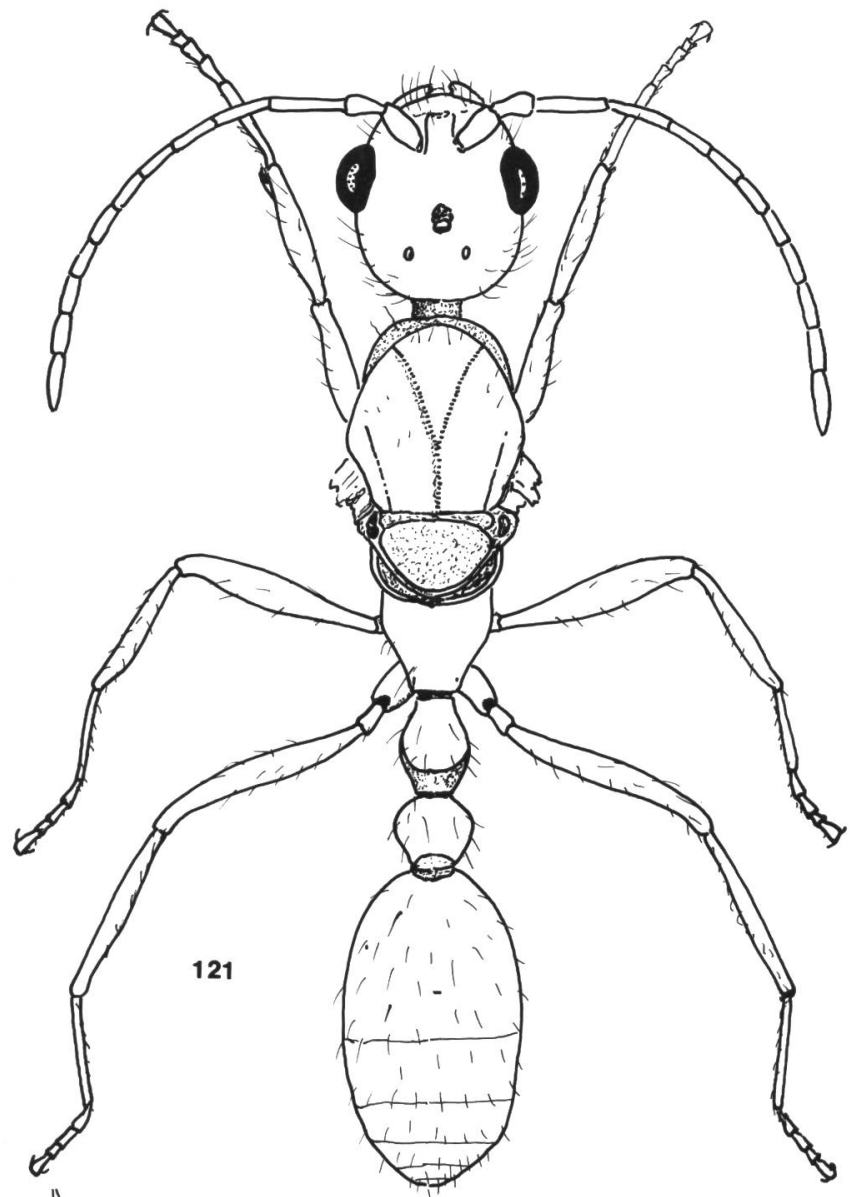


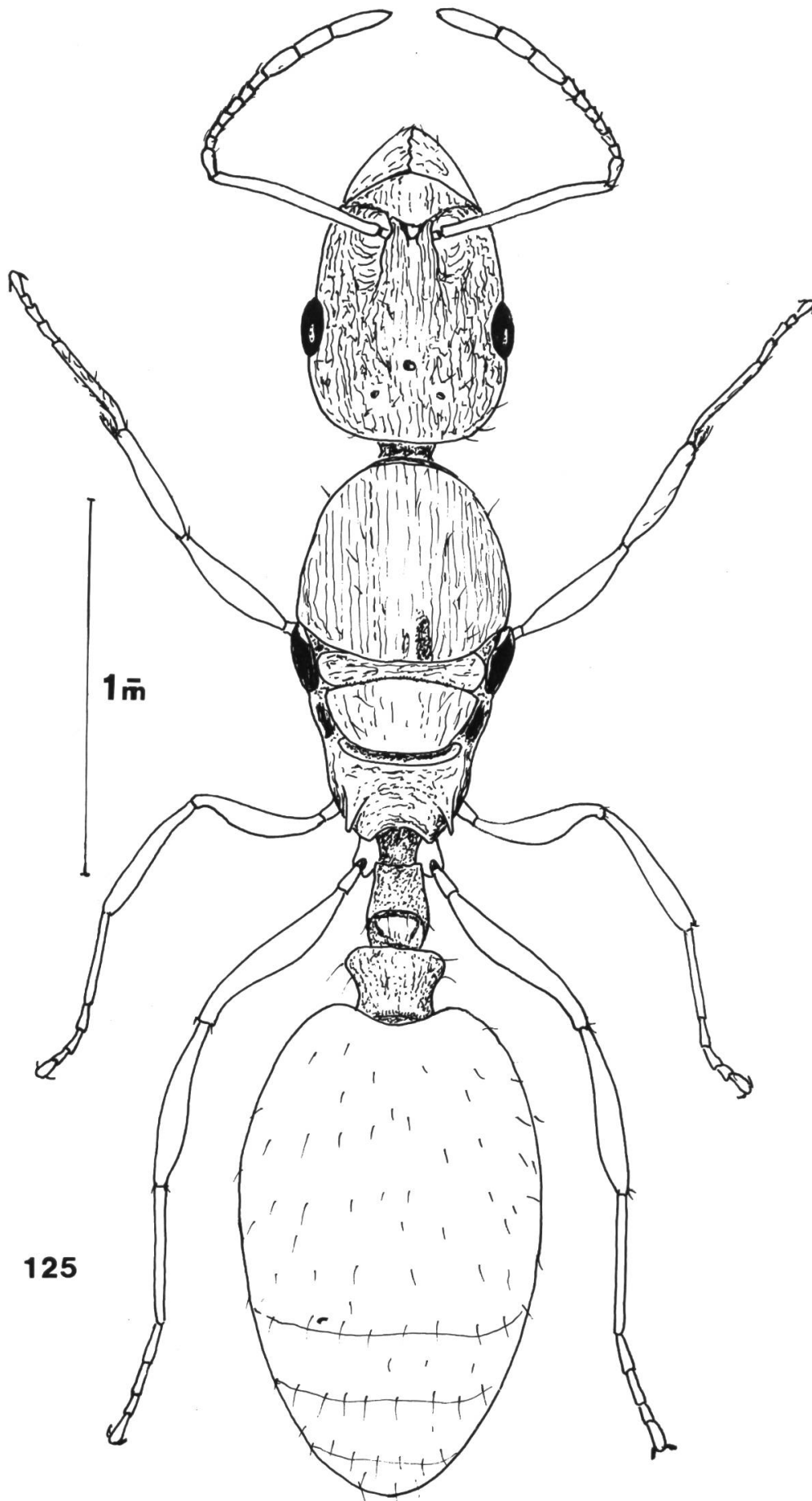
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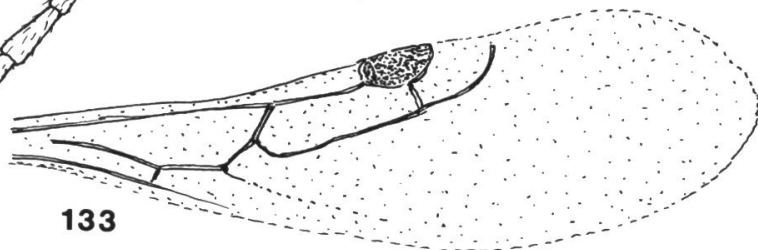
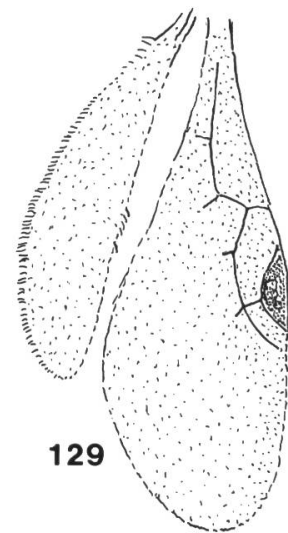
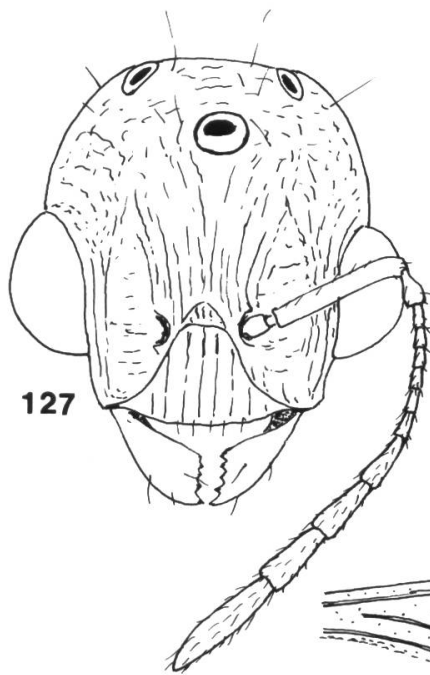
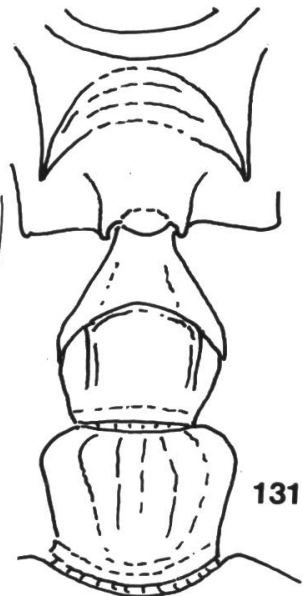
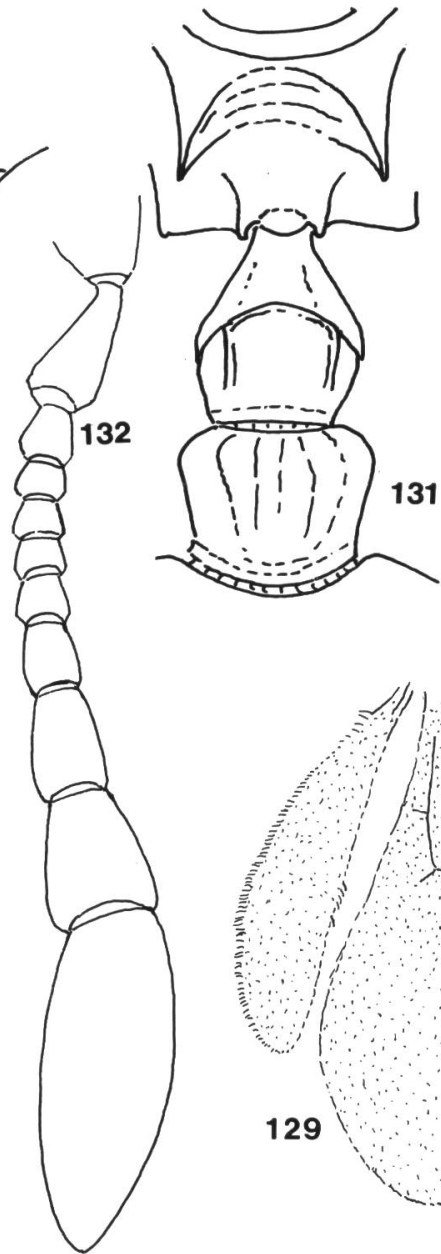
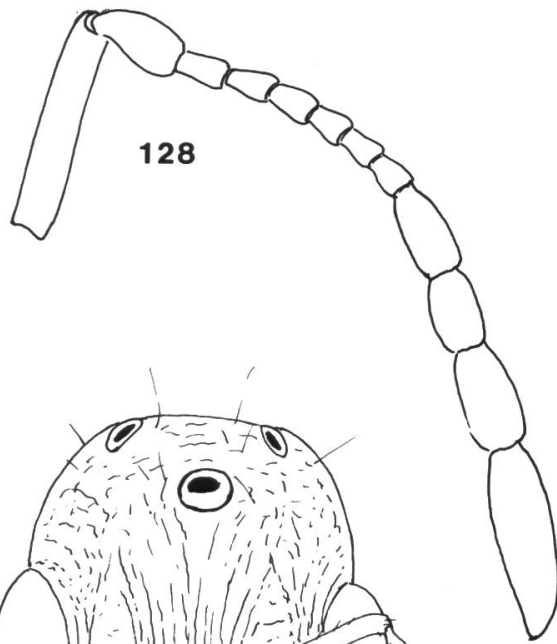
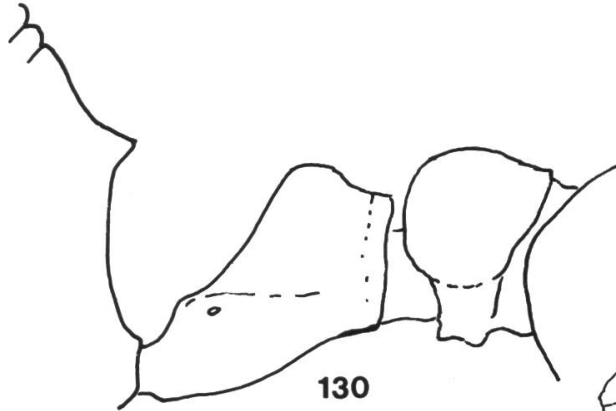
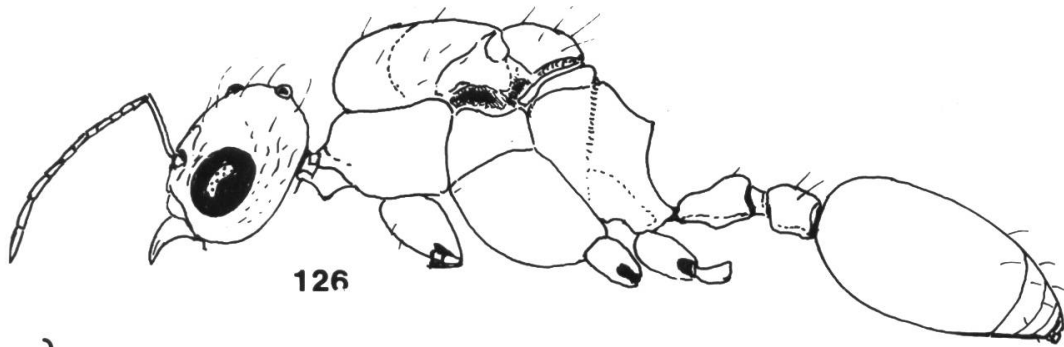
114

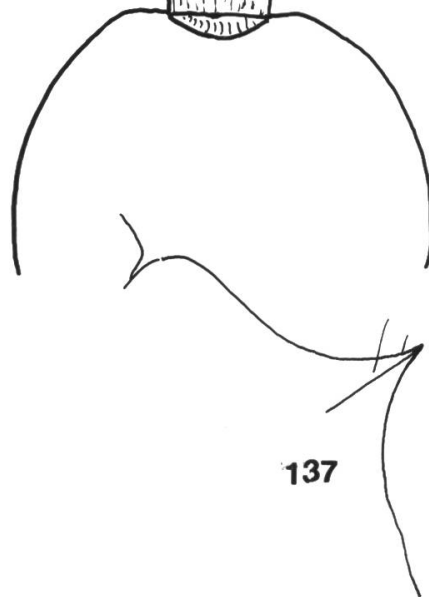
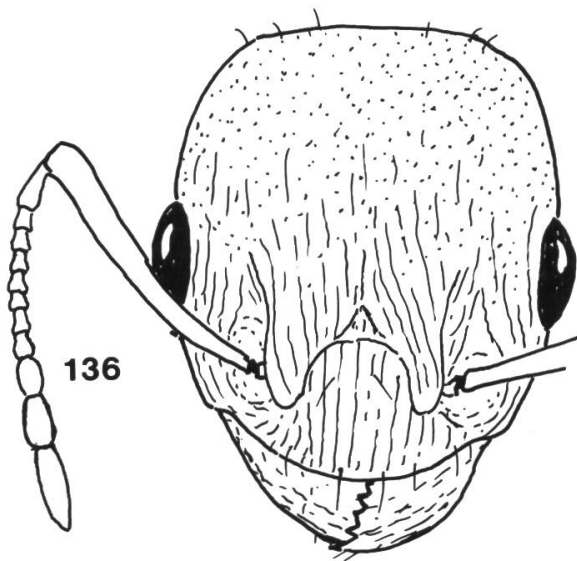
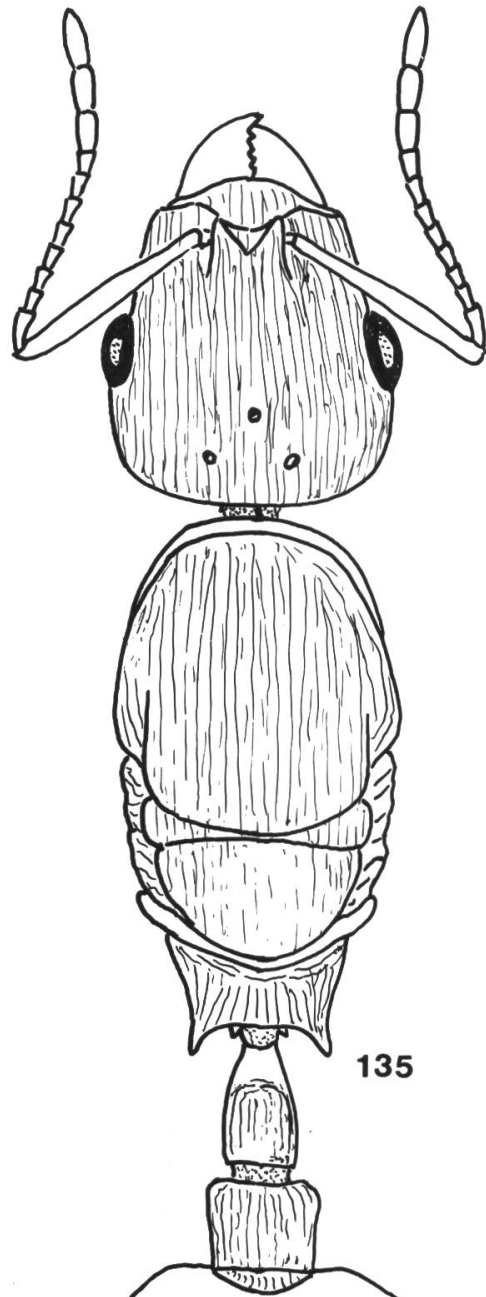
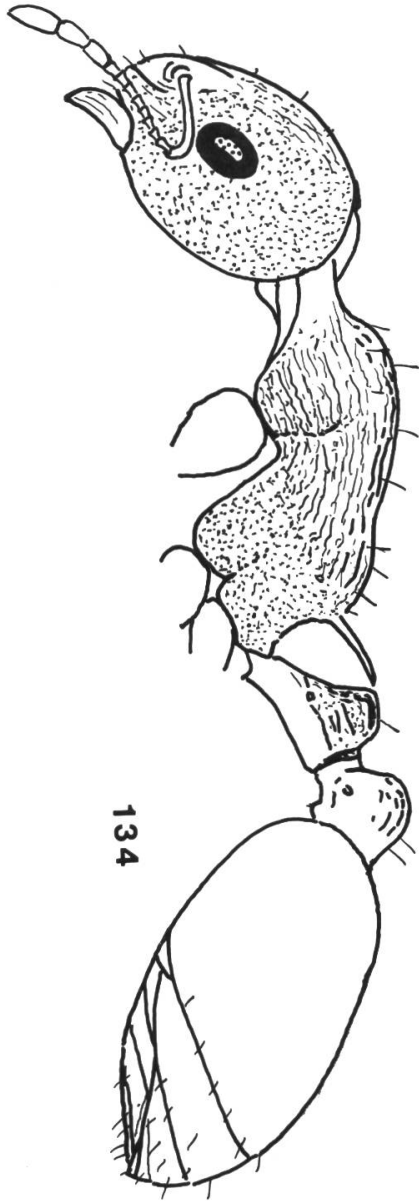


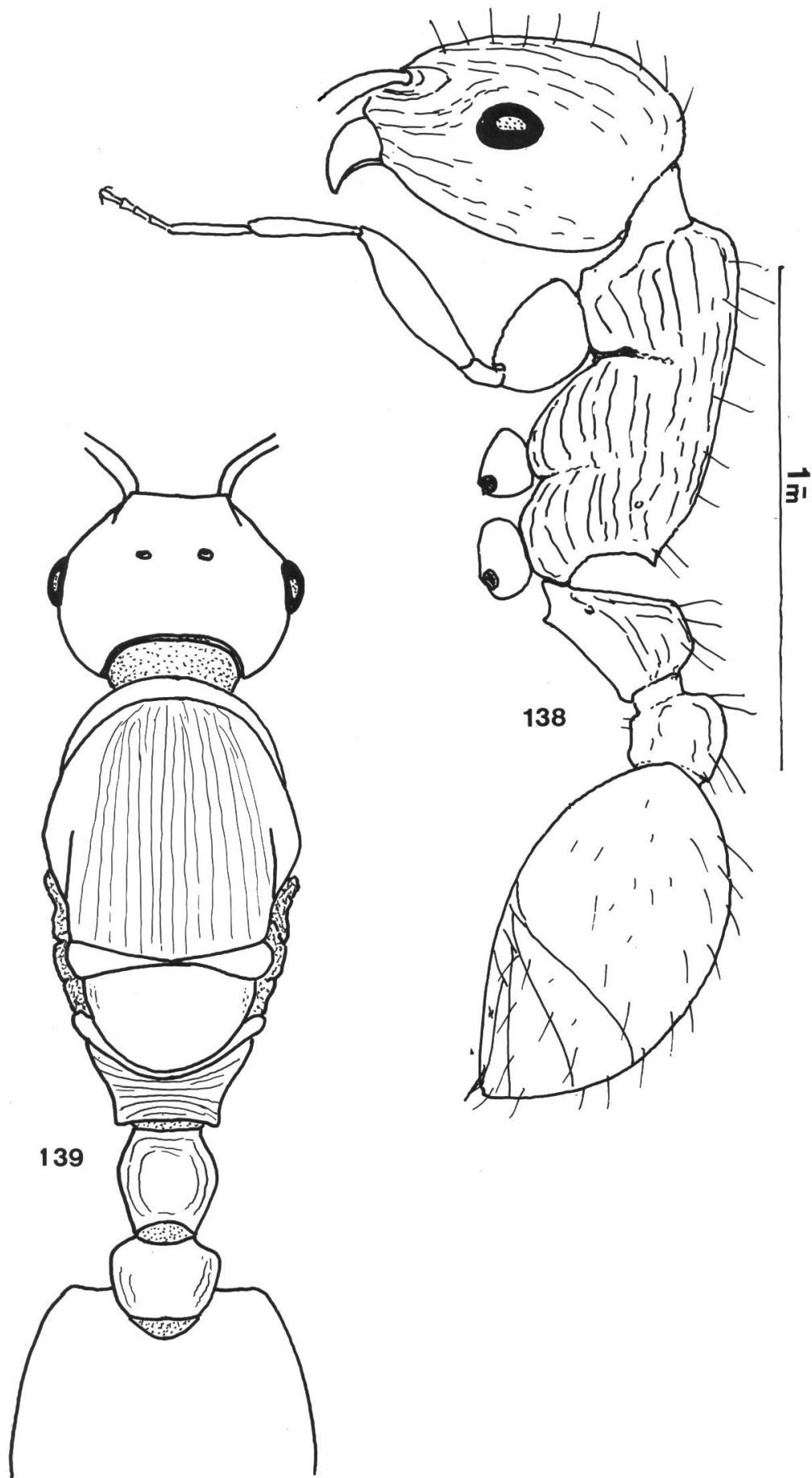


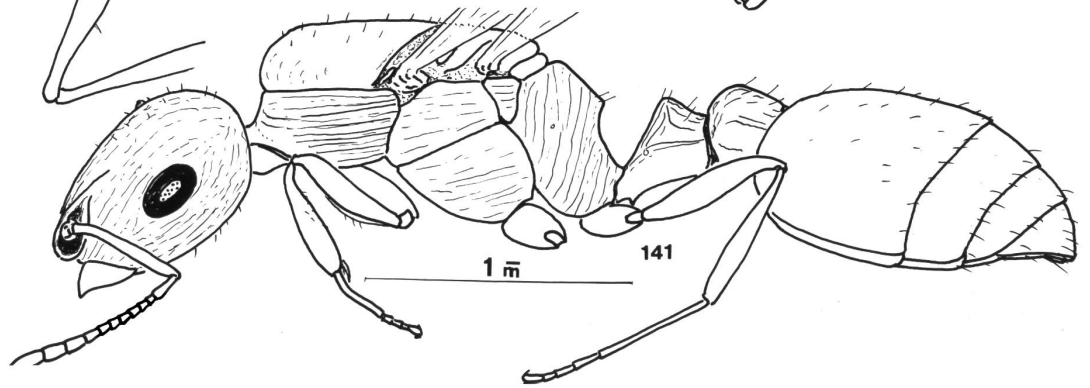
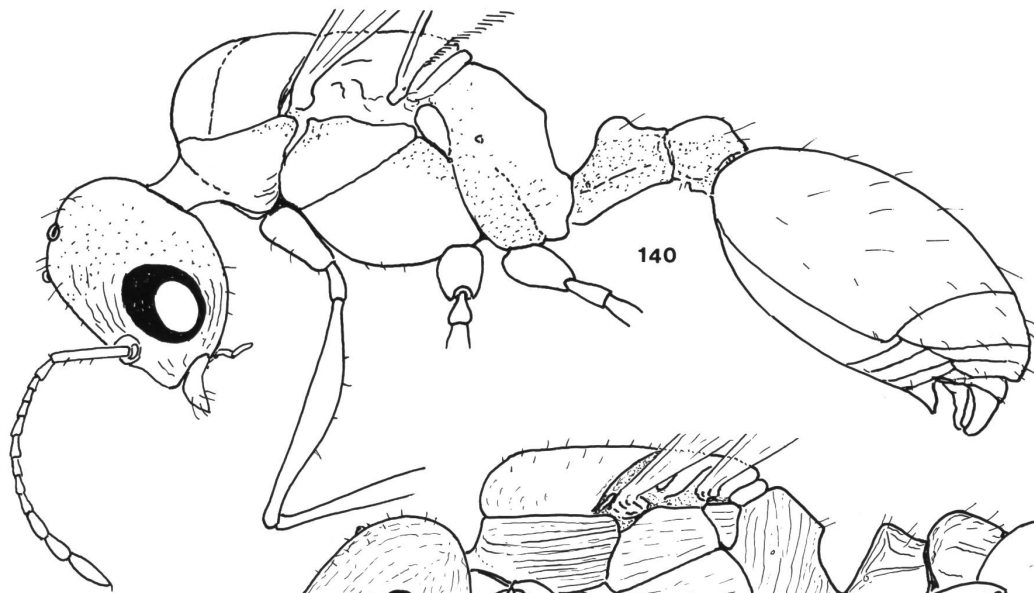


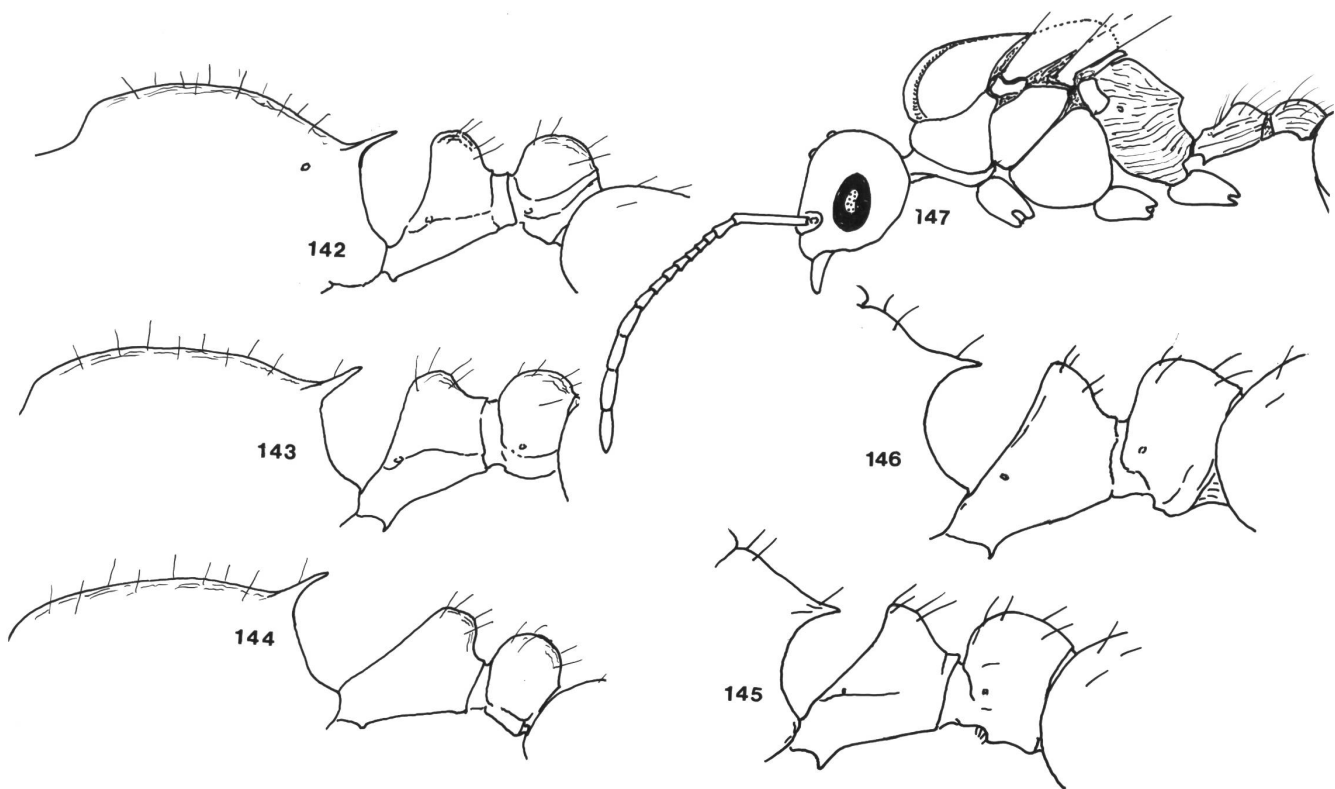


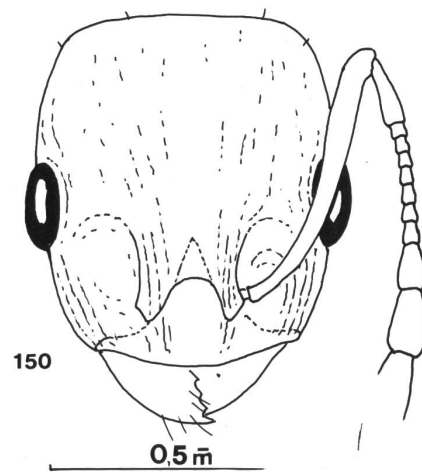
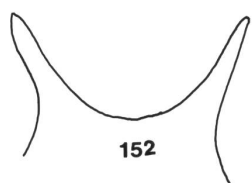
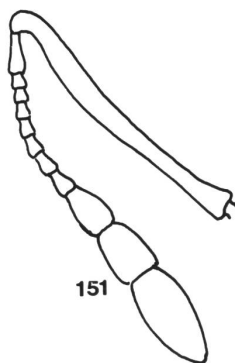
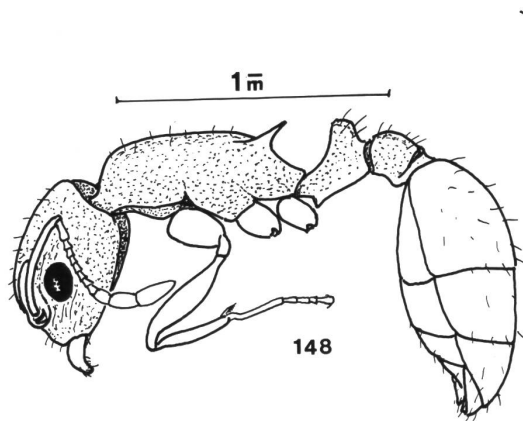


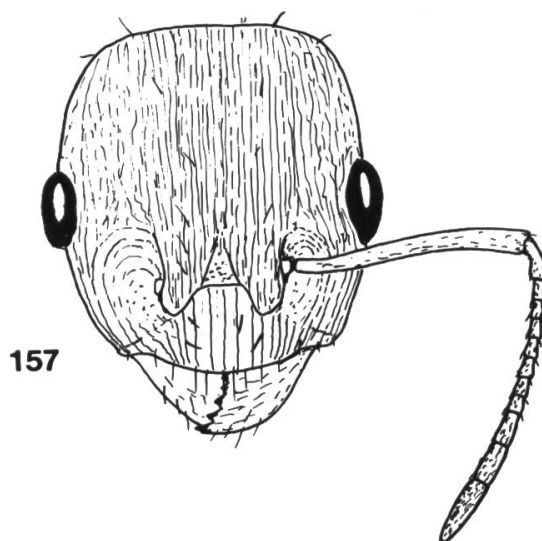
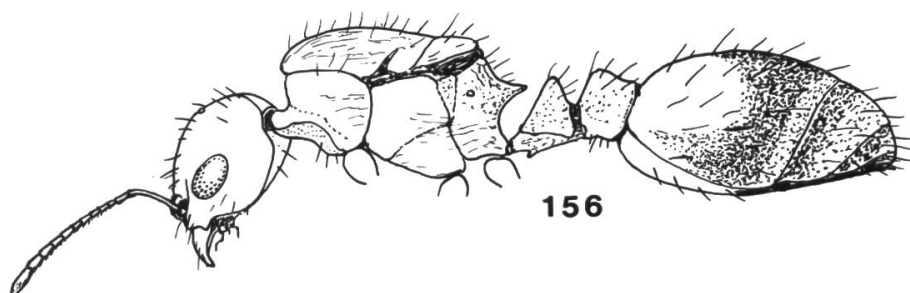
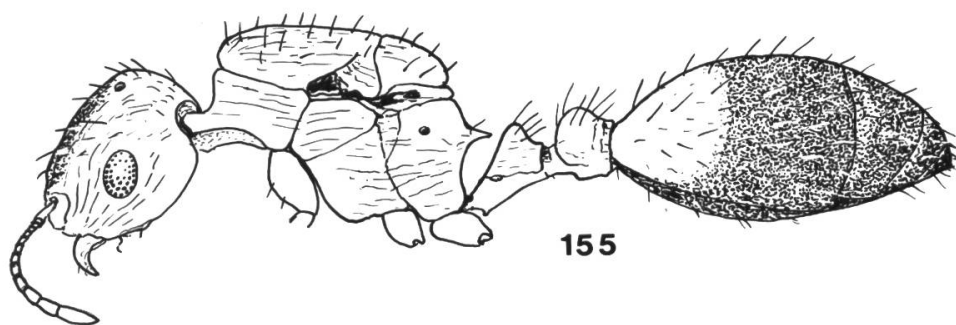
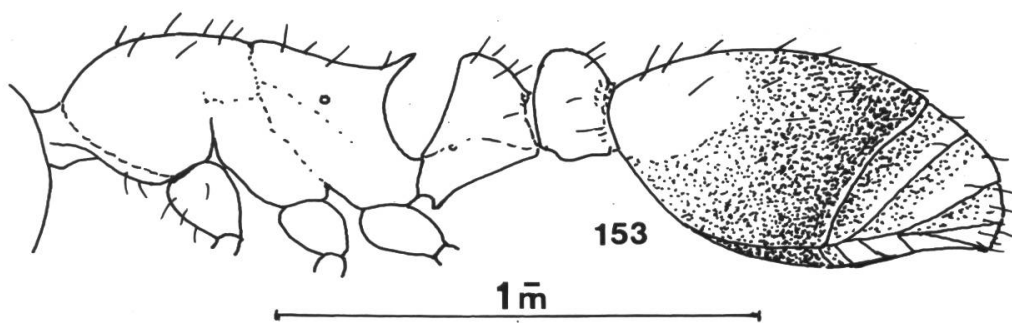


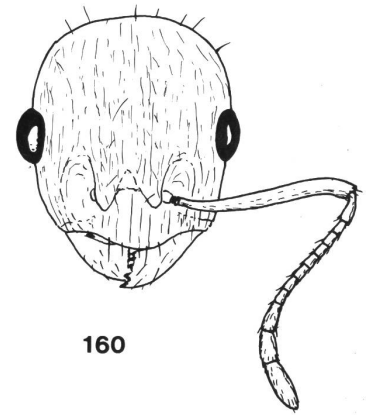
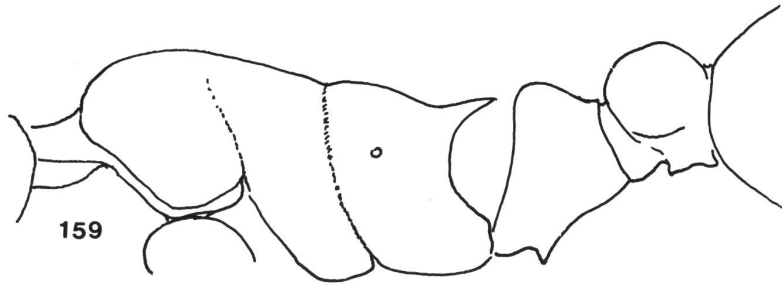
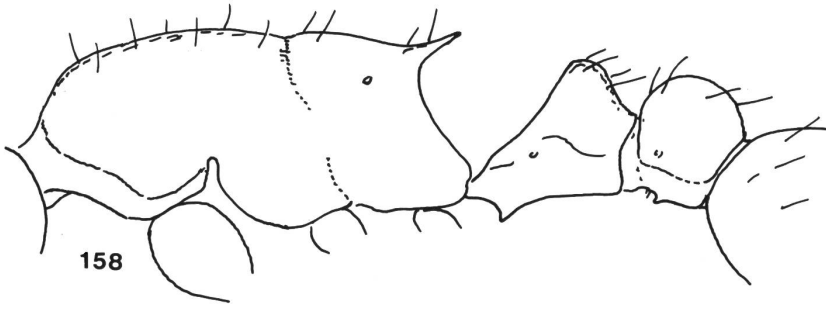


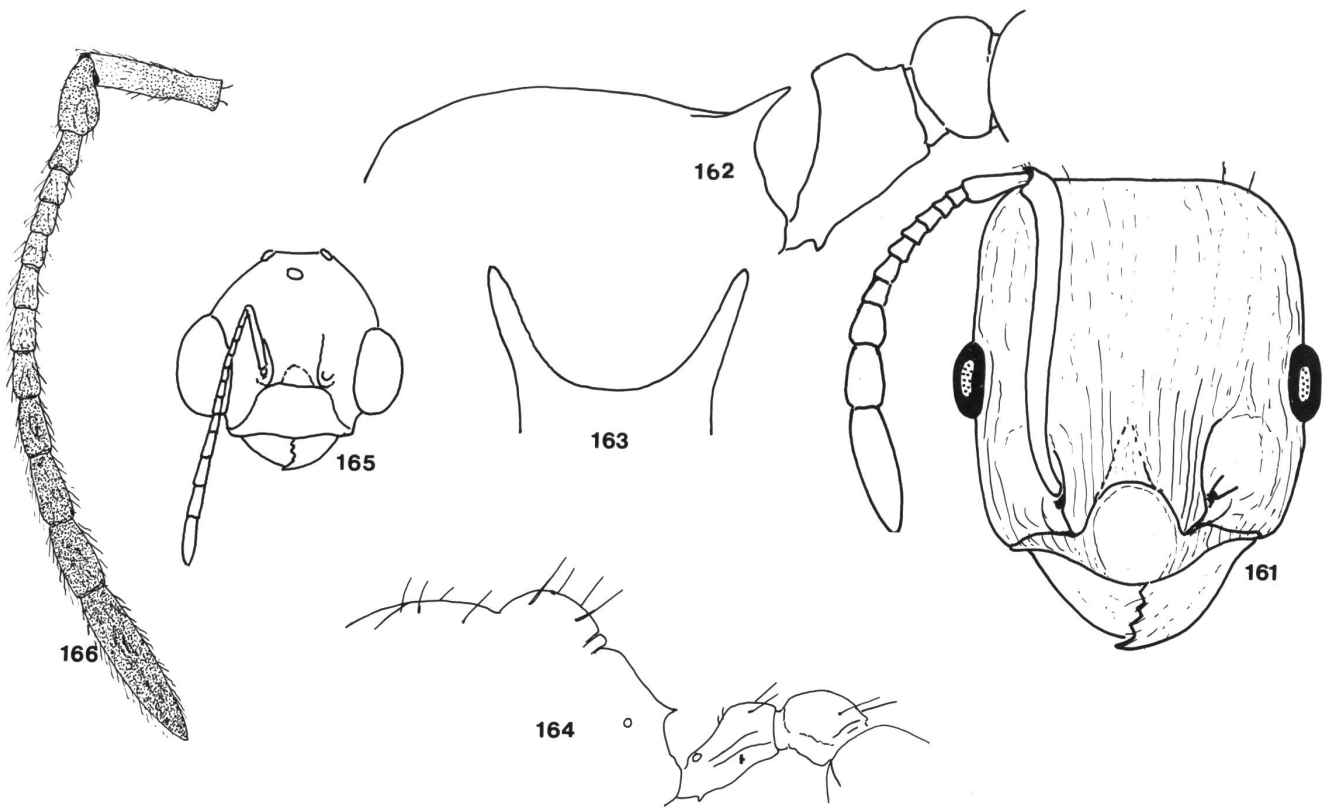


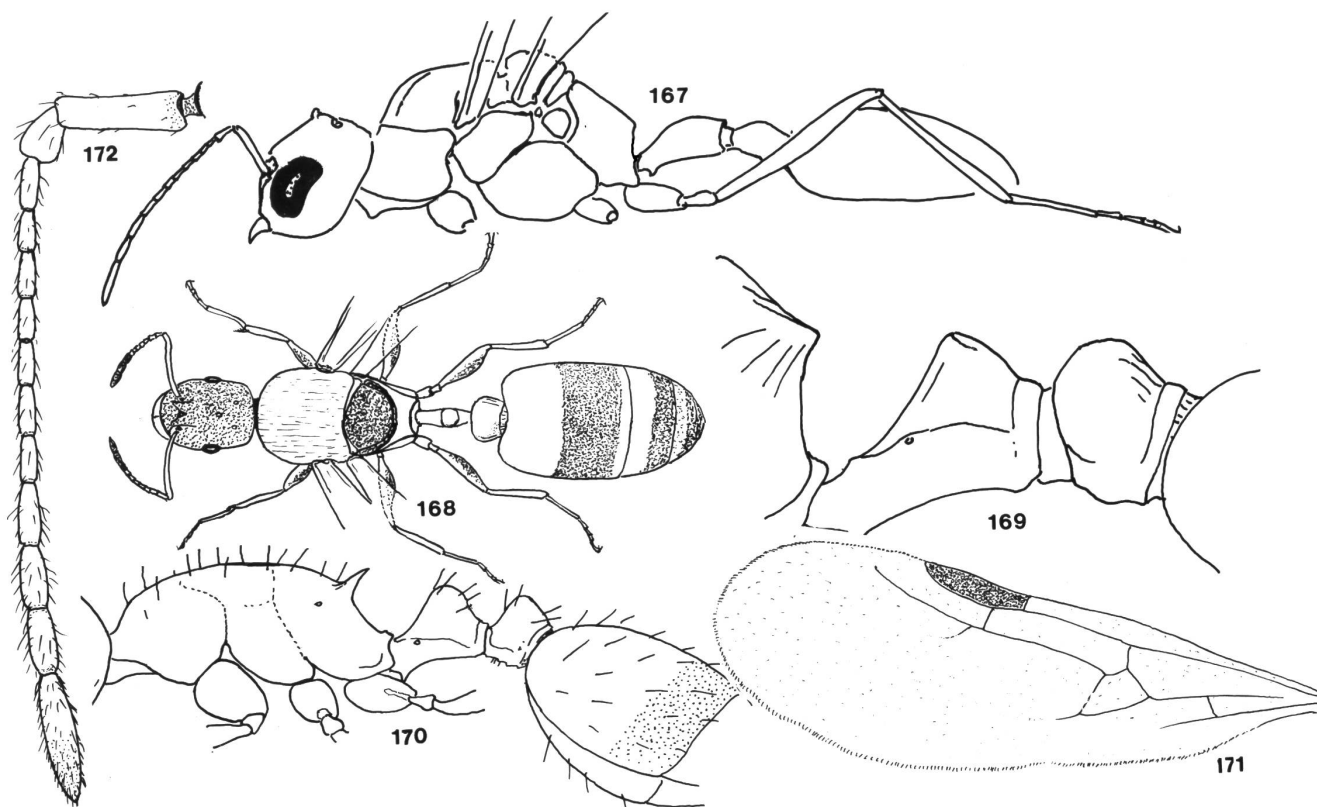


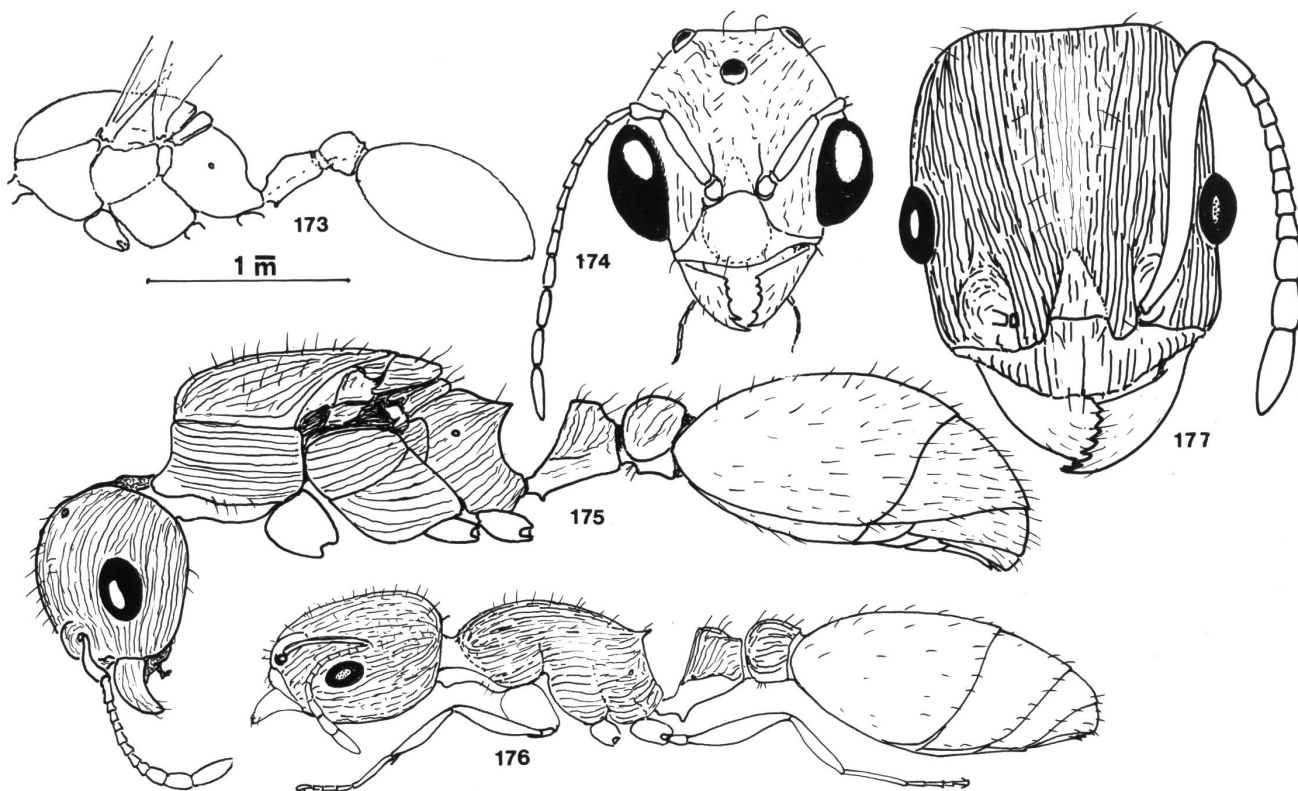


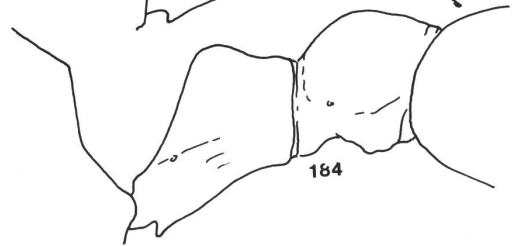
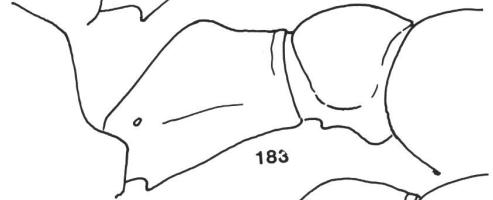
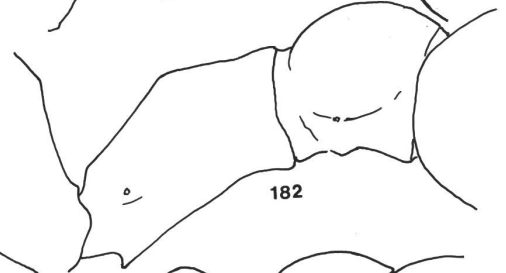
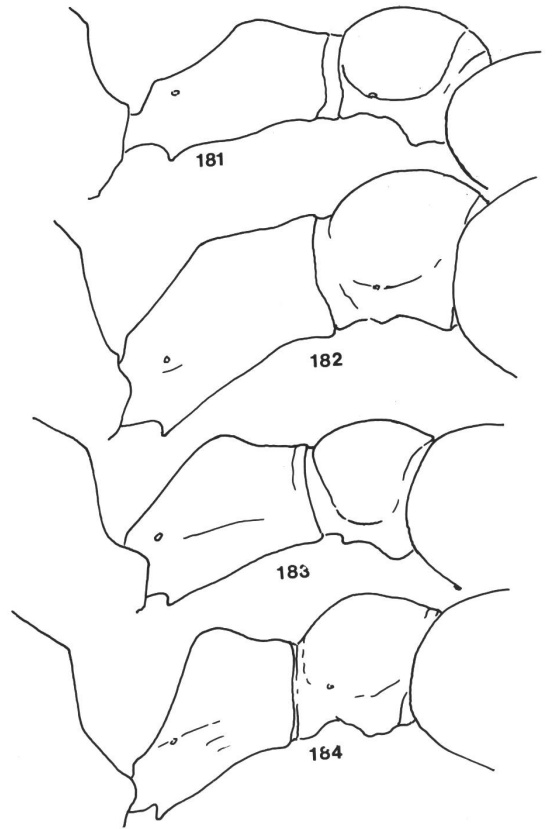
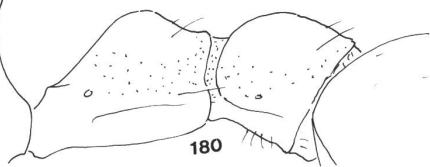
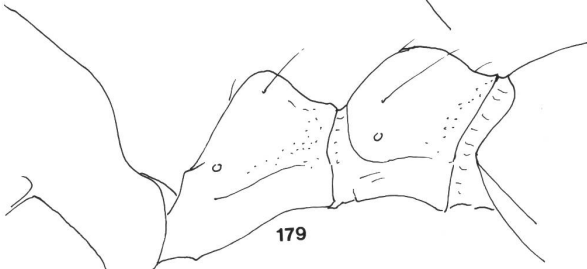
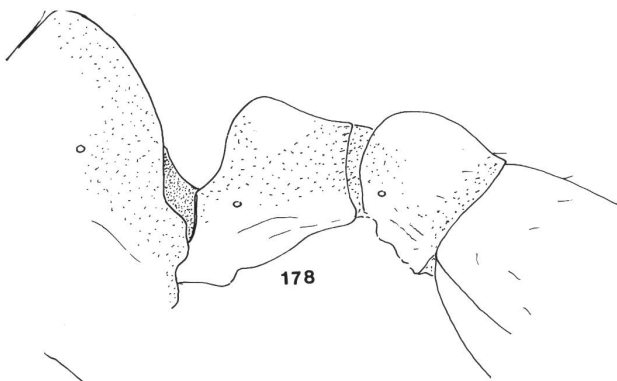


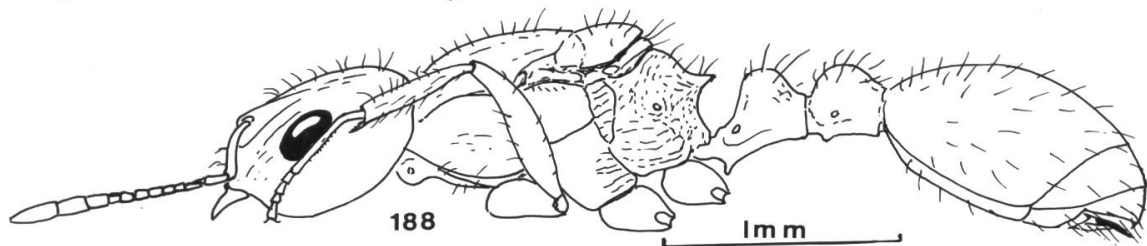
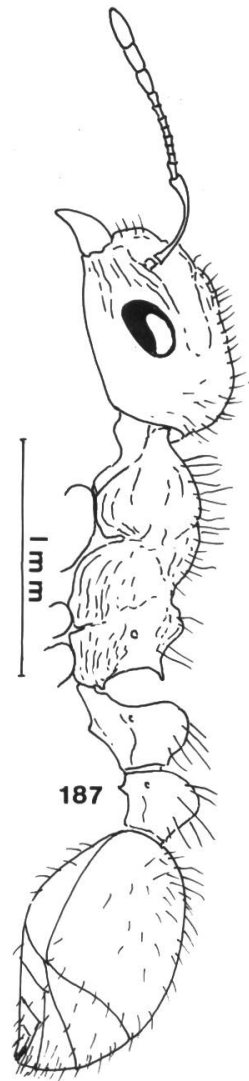
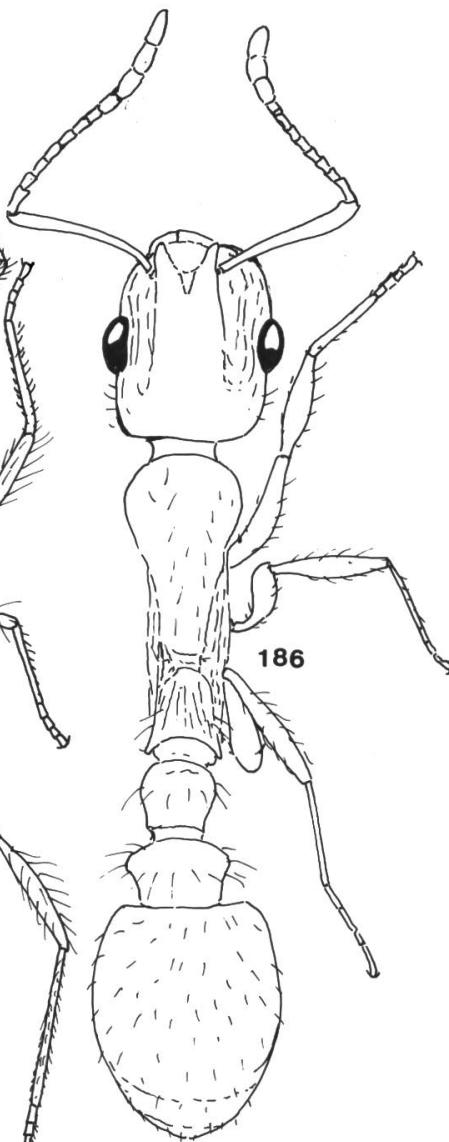
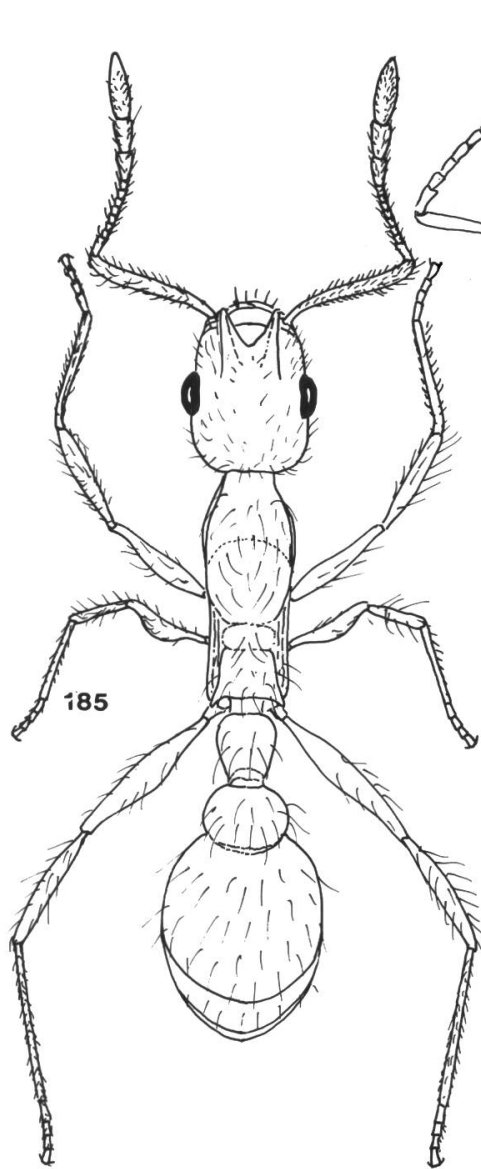




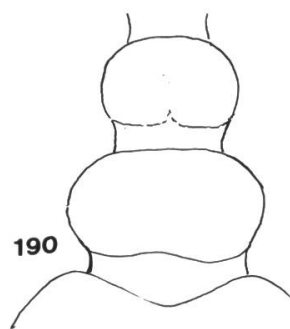
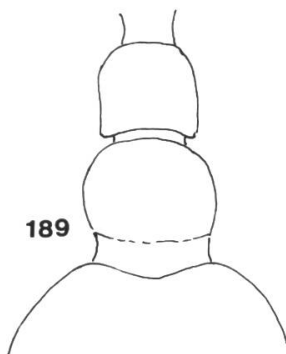


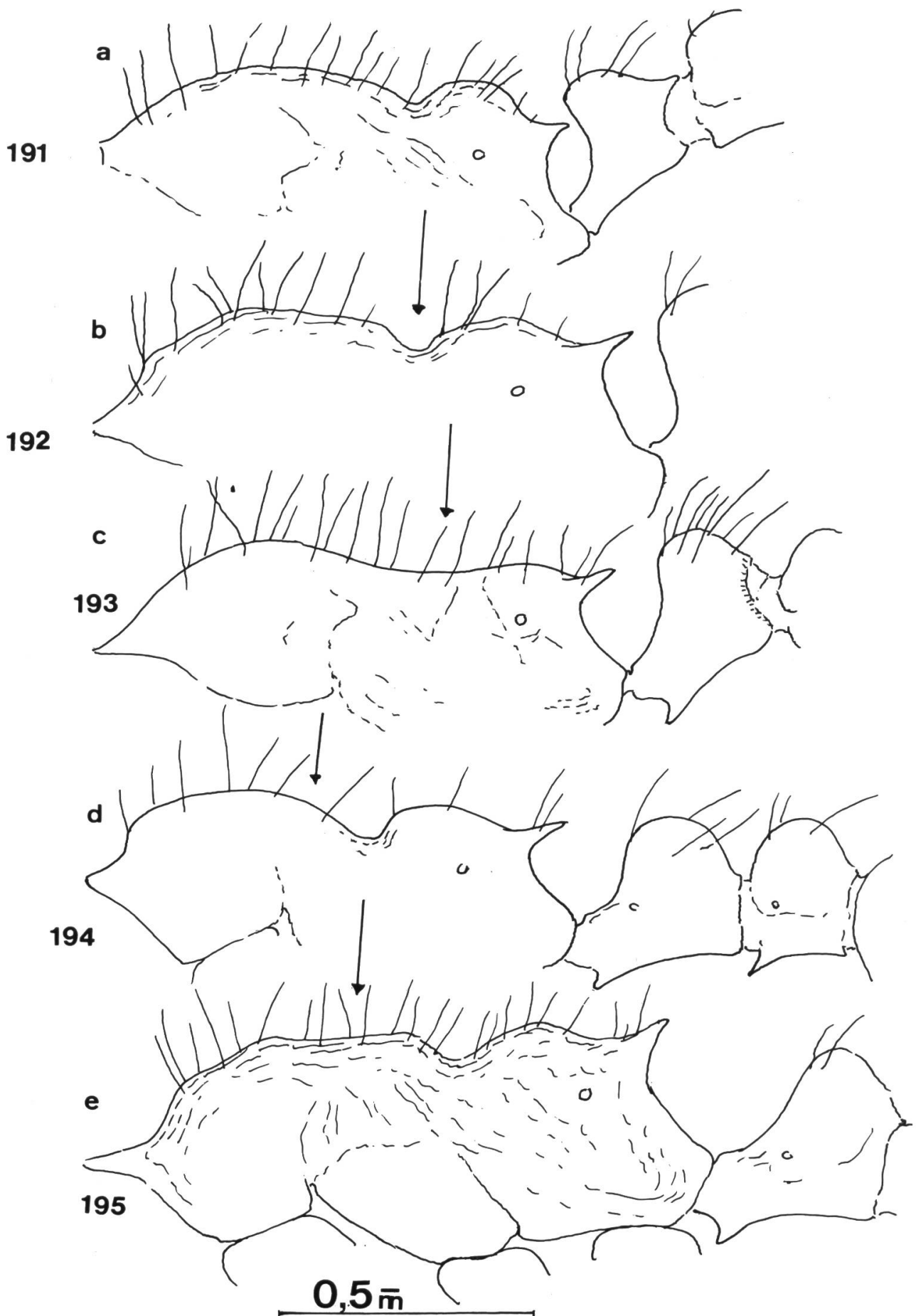


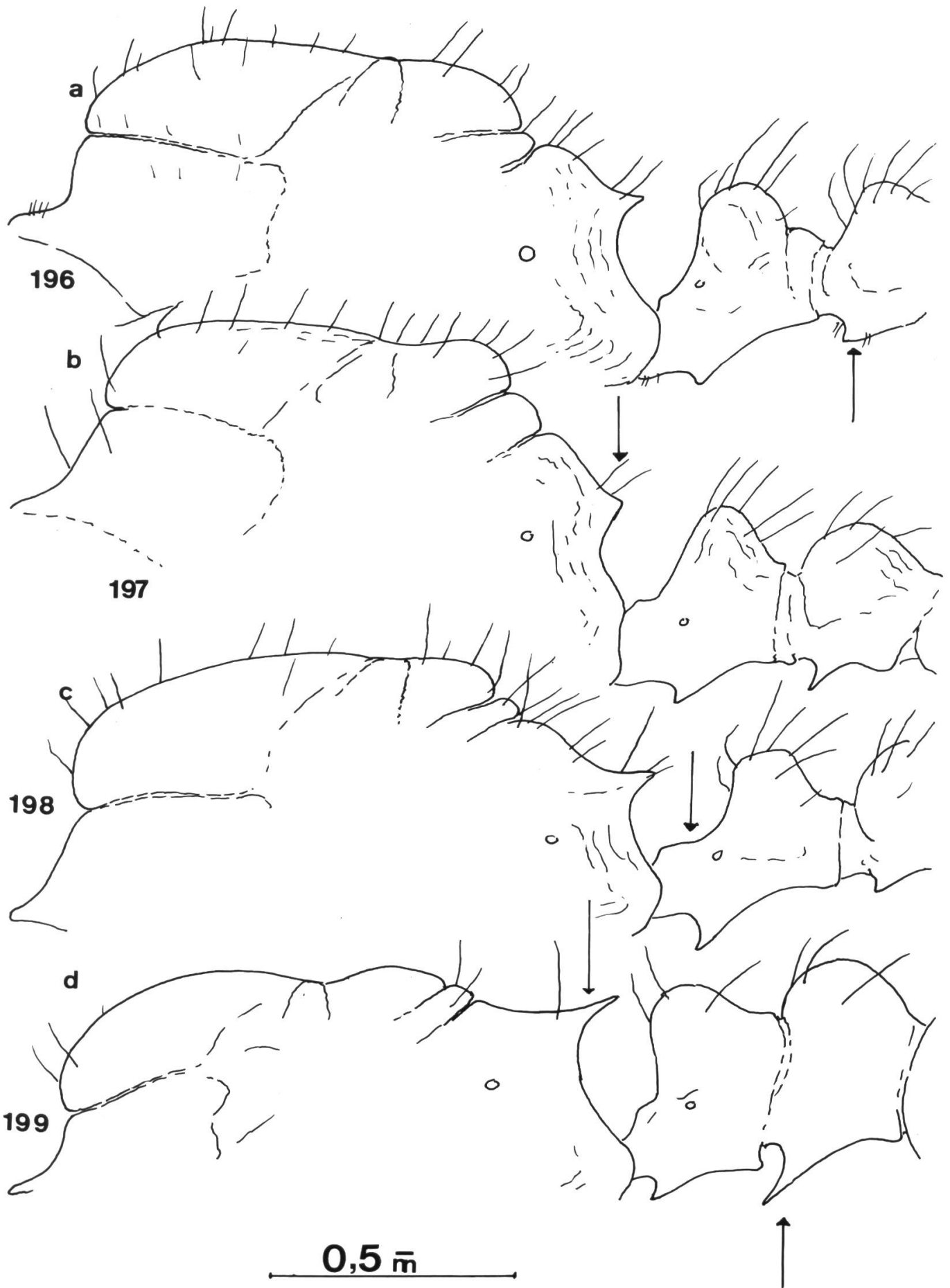


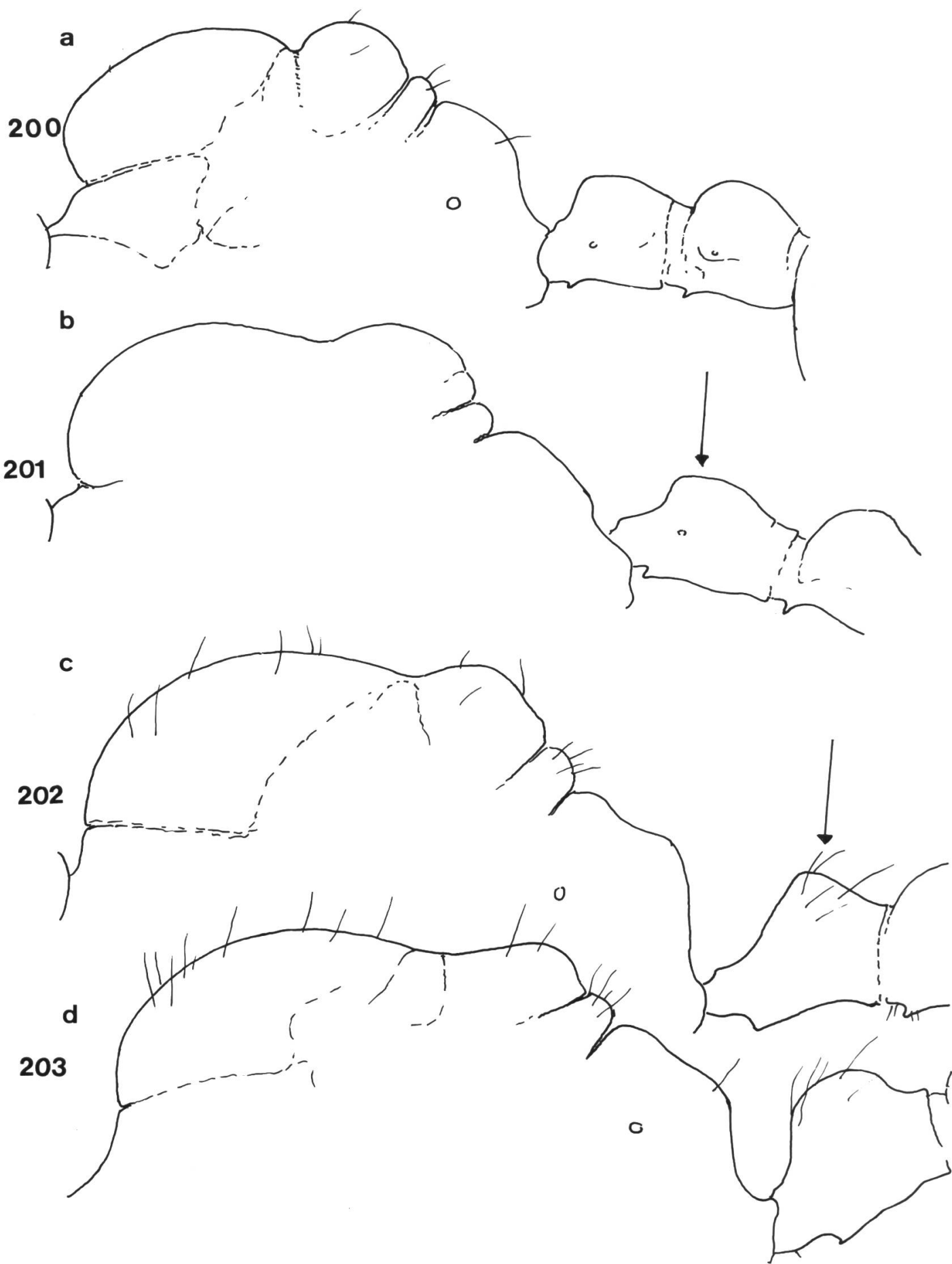


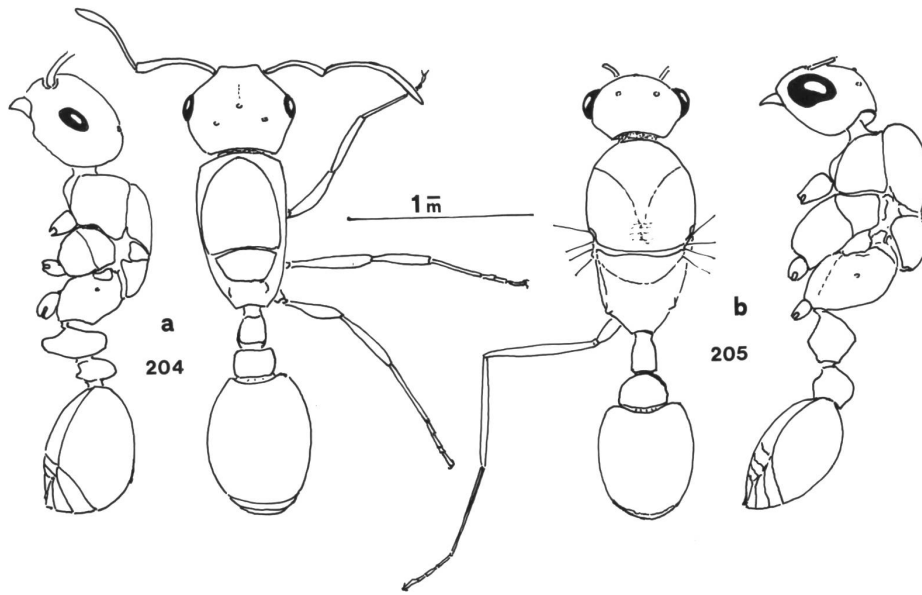
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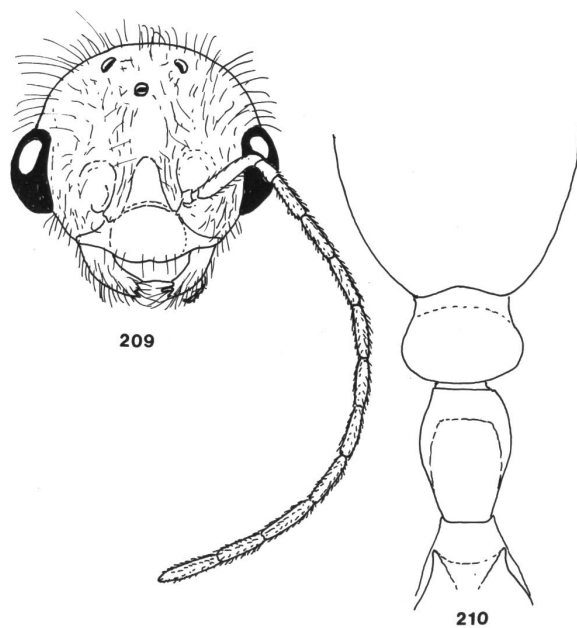
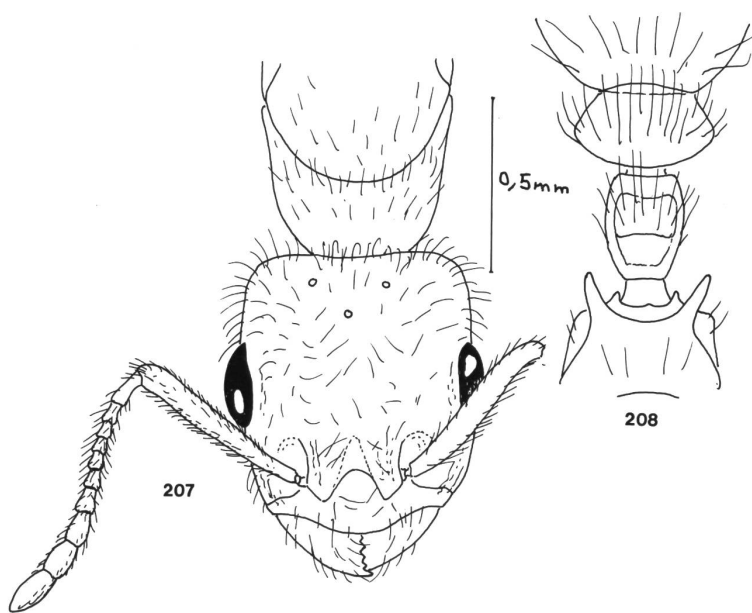


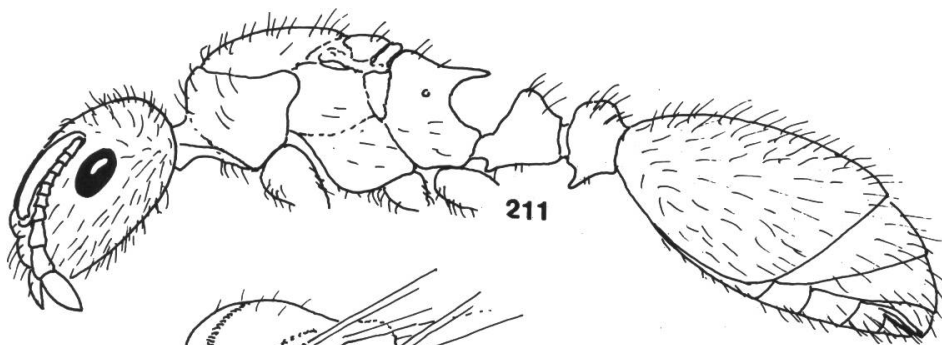




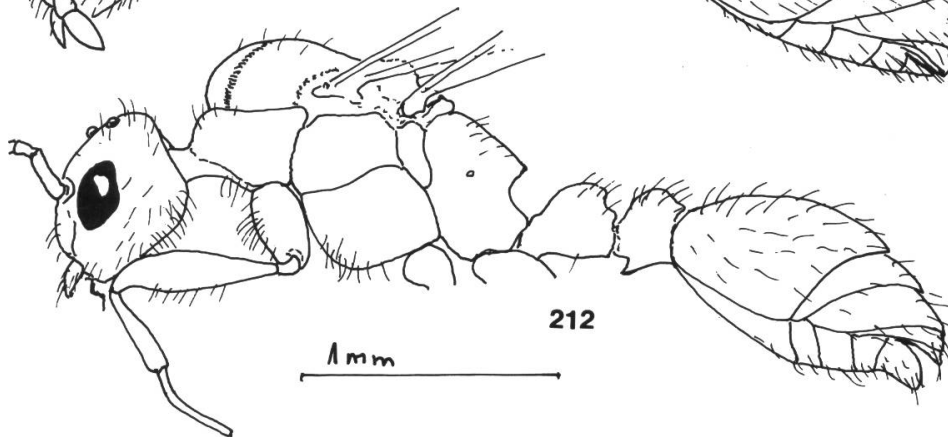






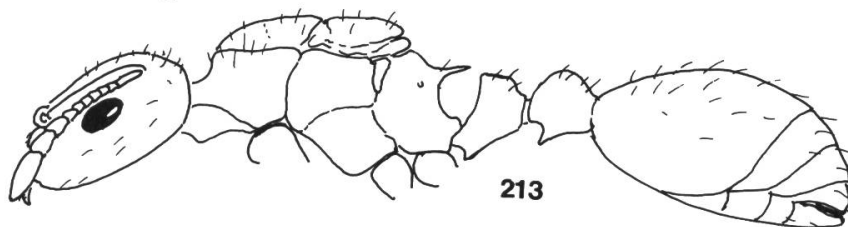


211

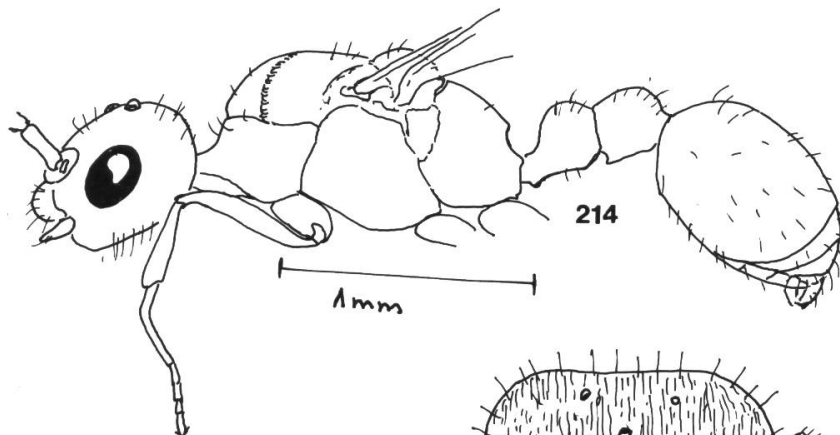


212

1 mm

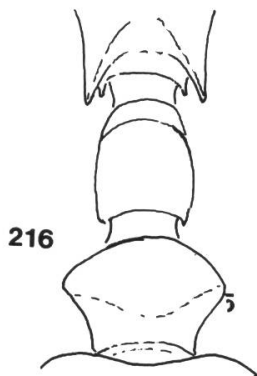


213

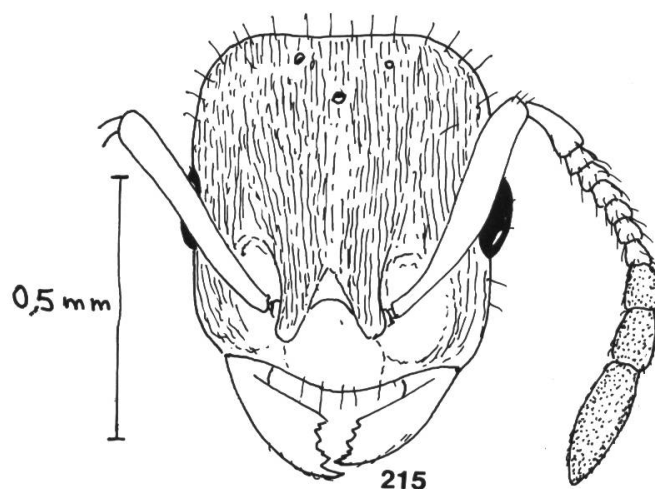


214

1 mm

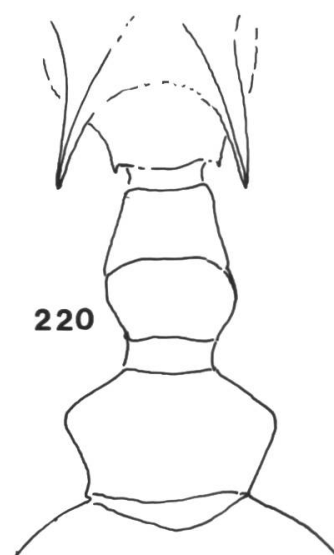
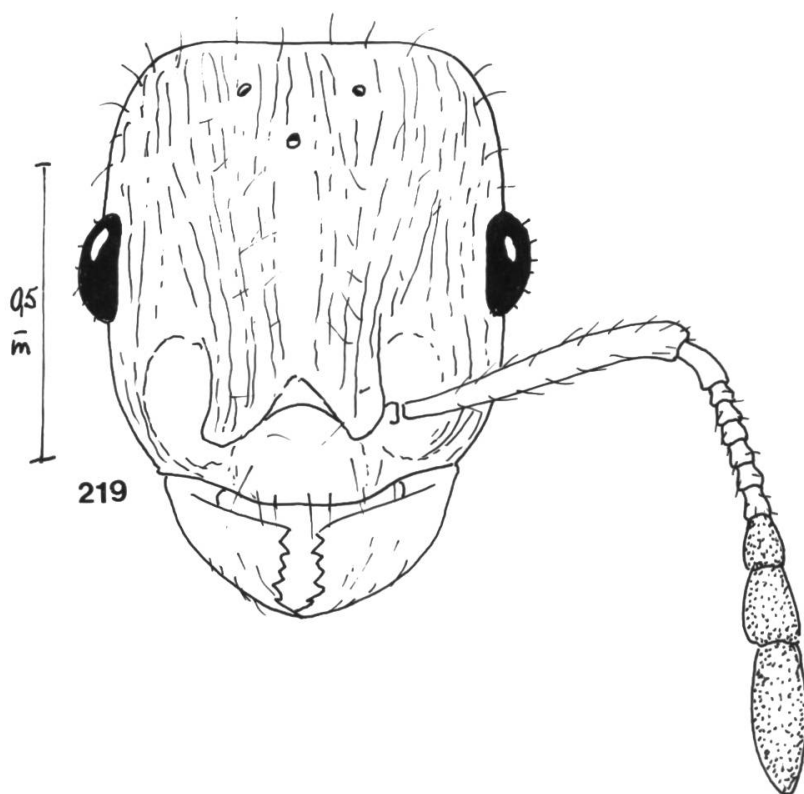
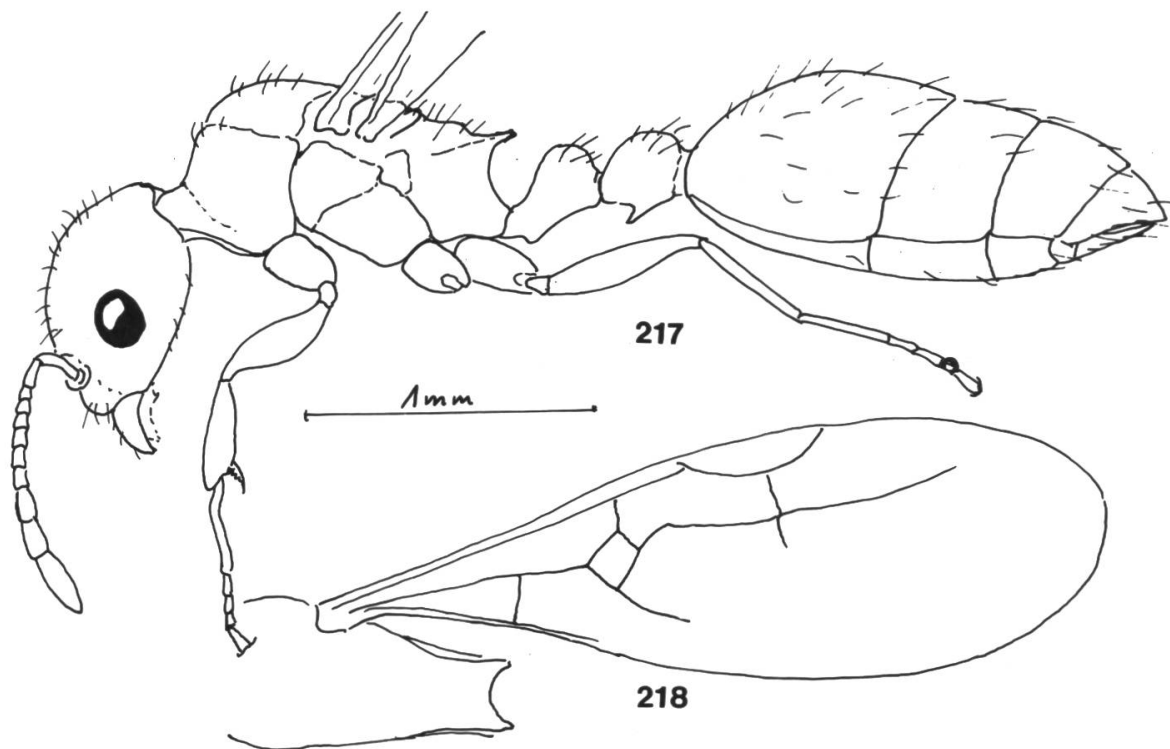


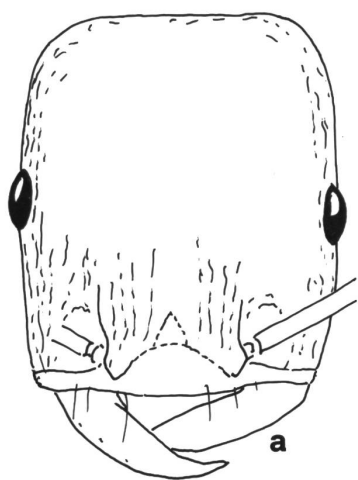
216



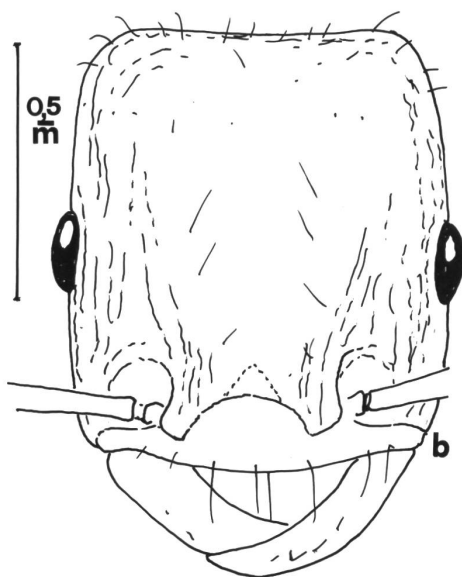
215

0,5 mm

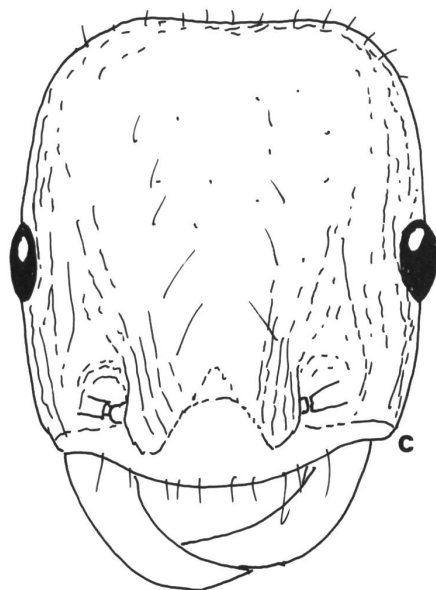




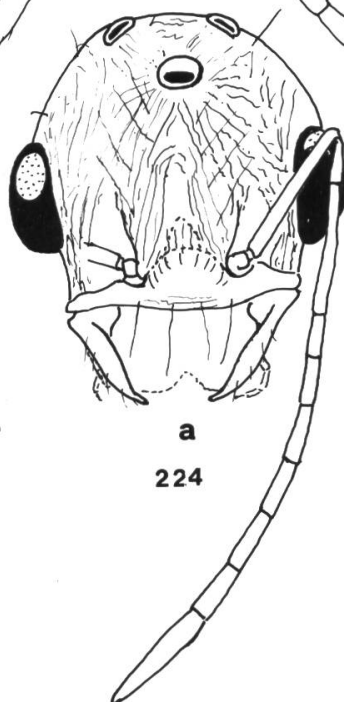
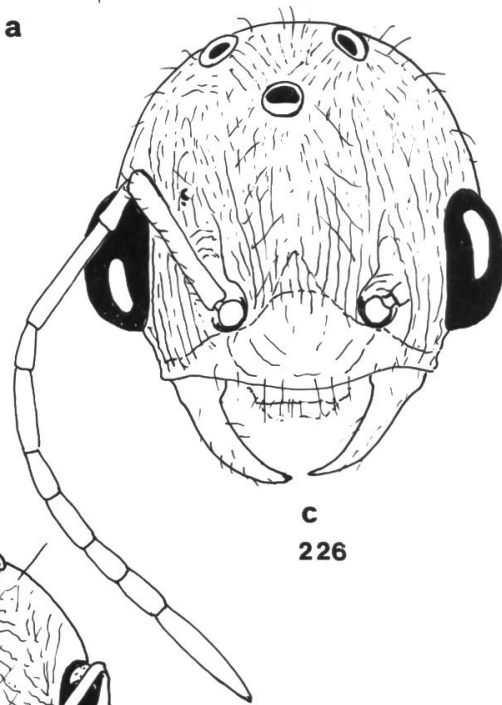
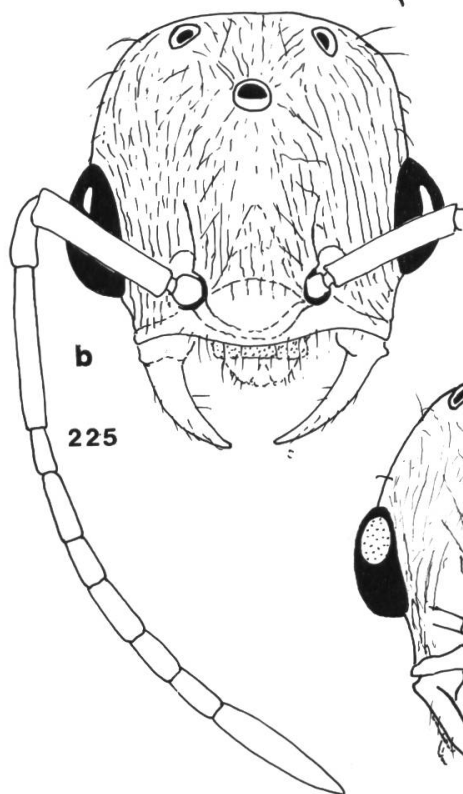
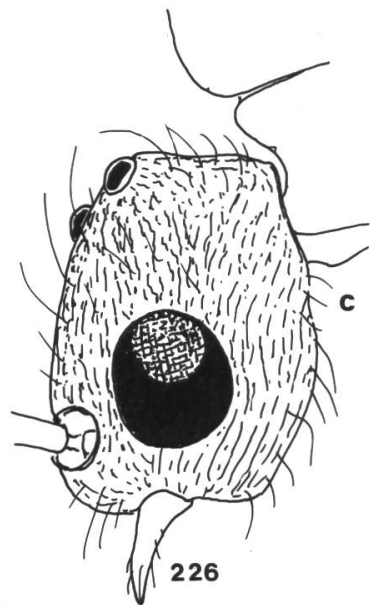
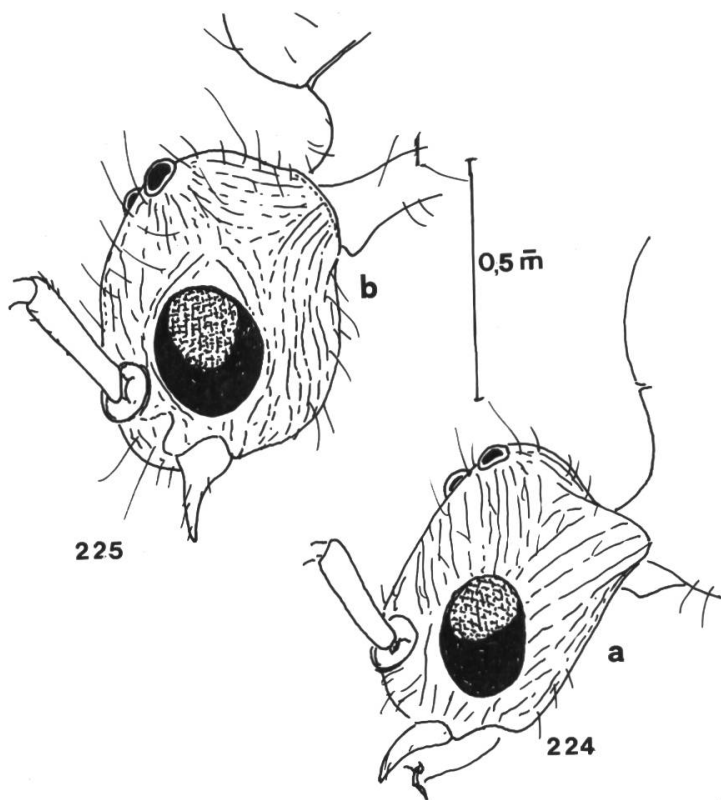
221

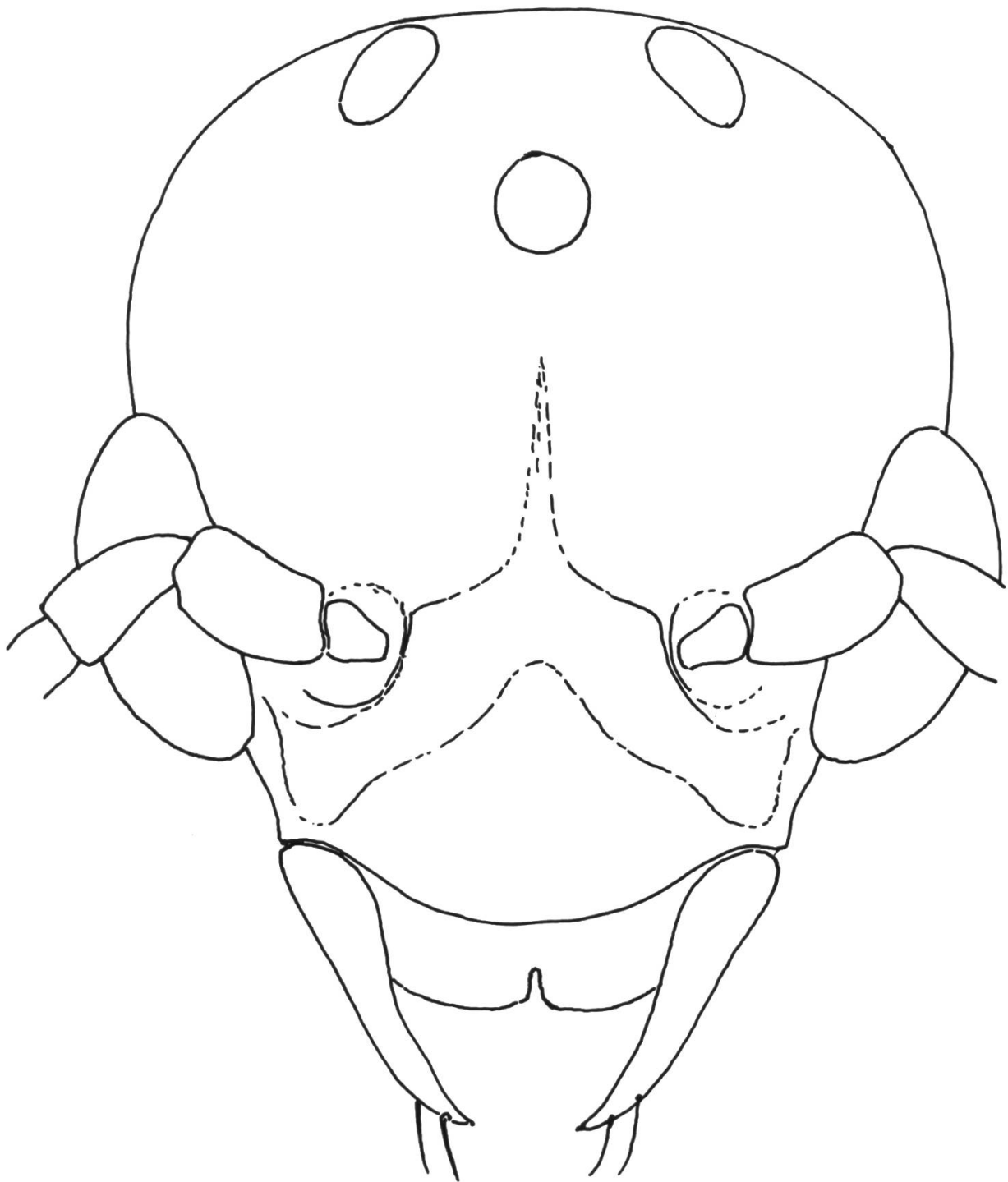


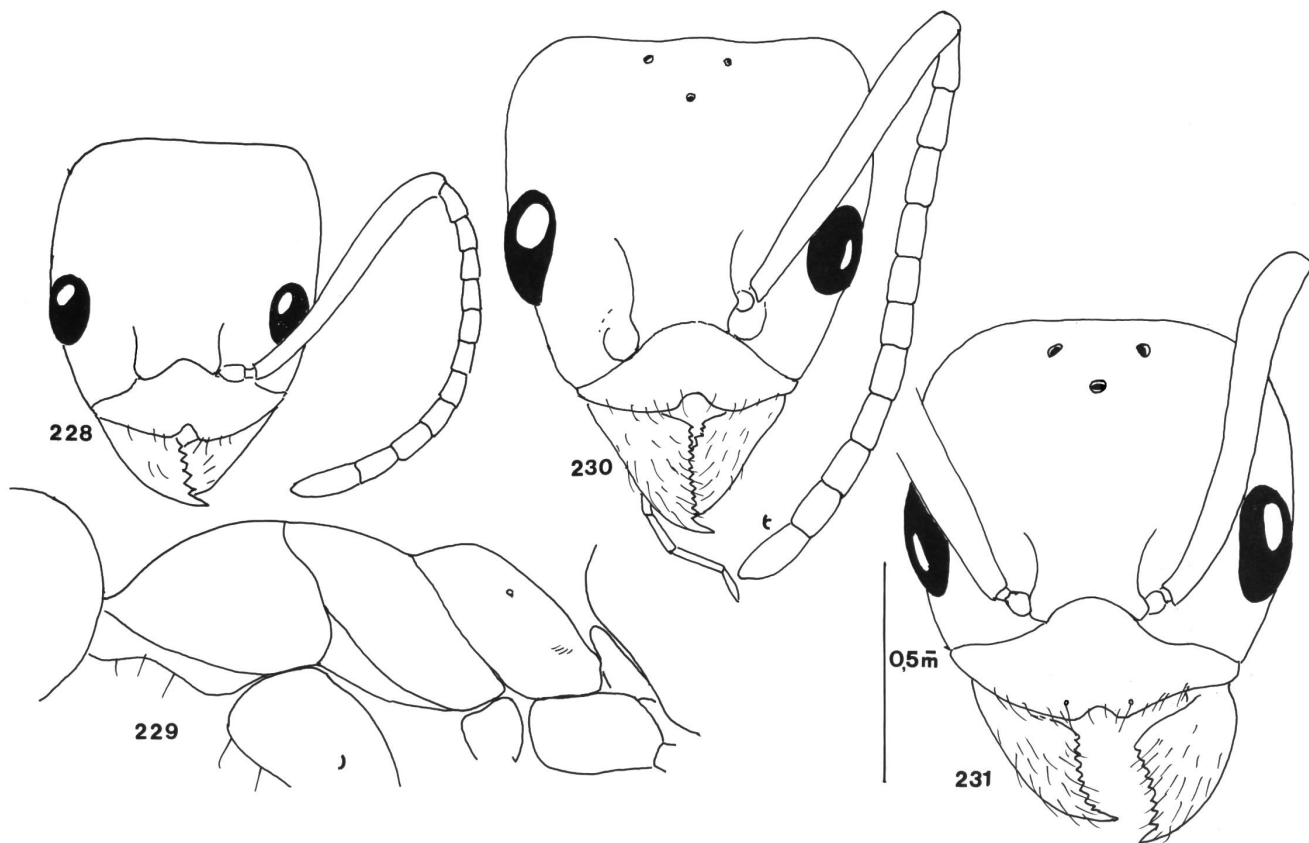
222

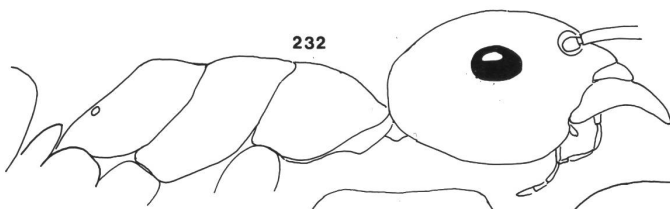


223

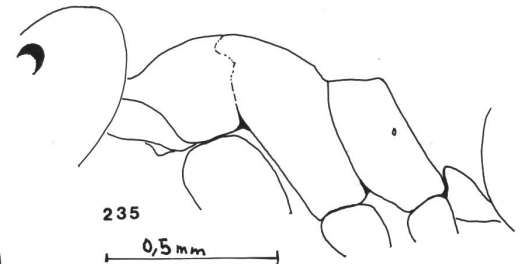
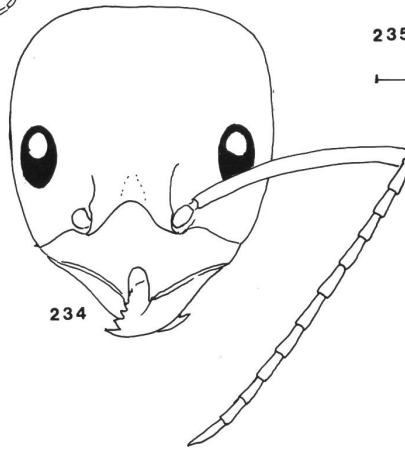
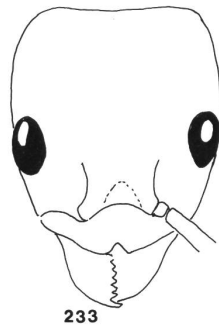




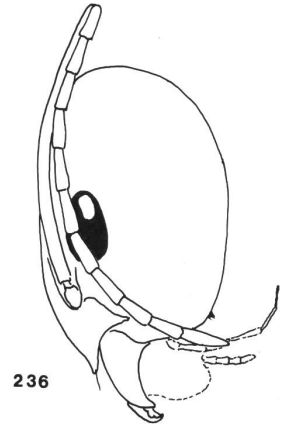


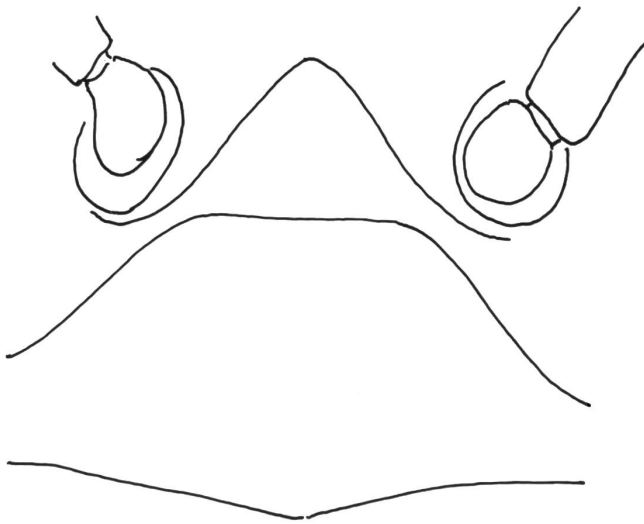


0,5 m

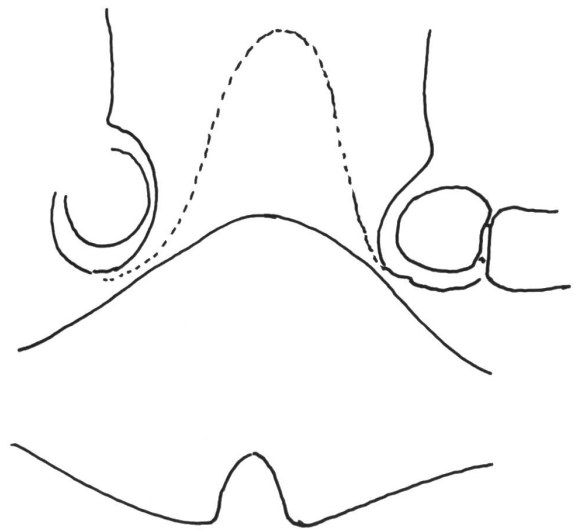


0,5 mm

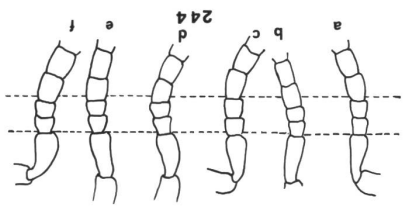
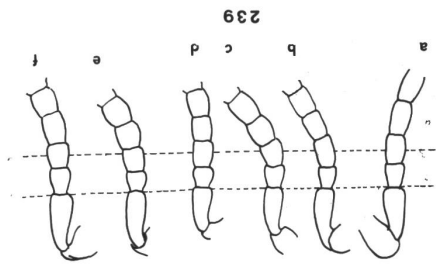
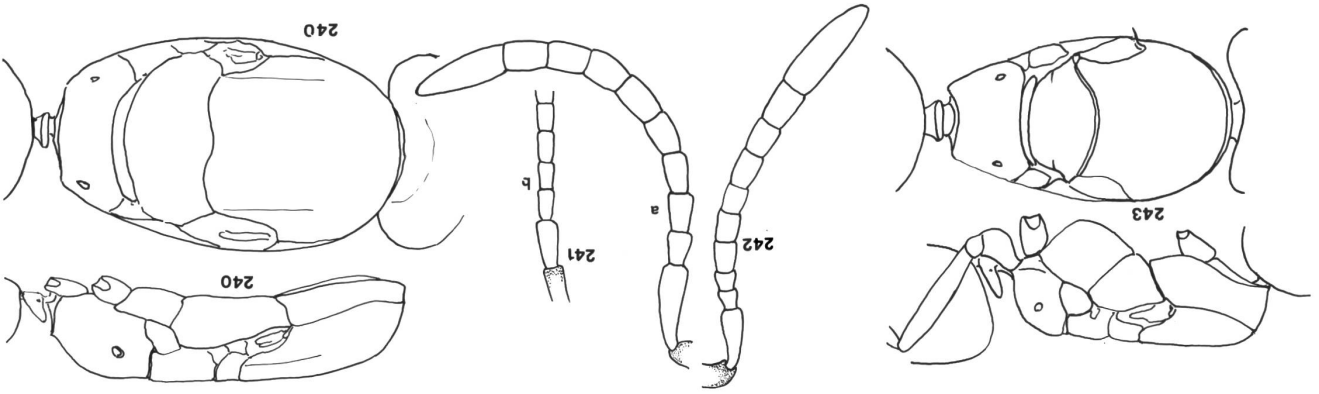


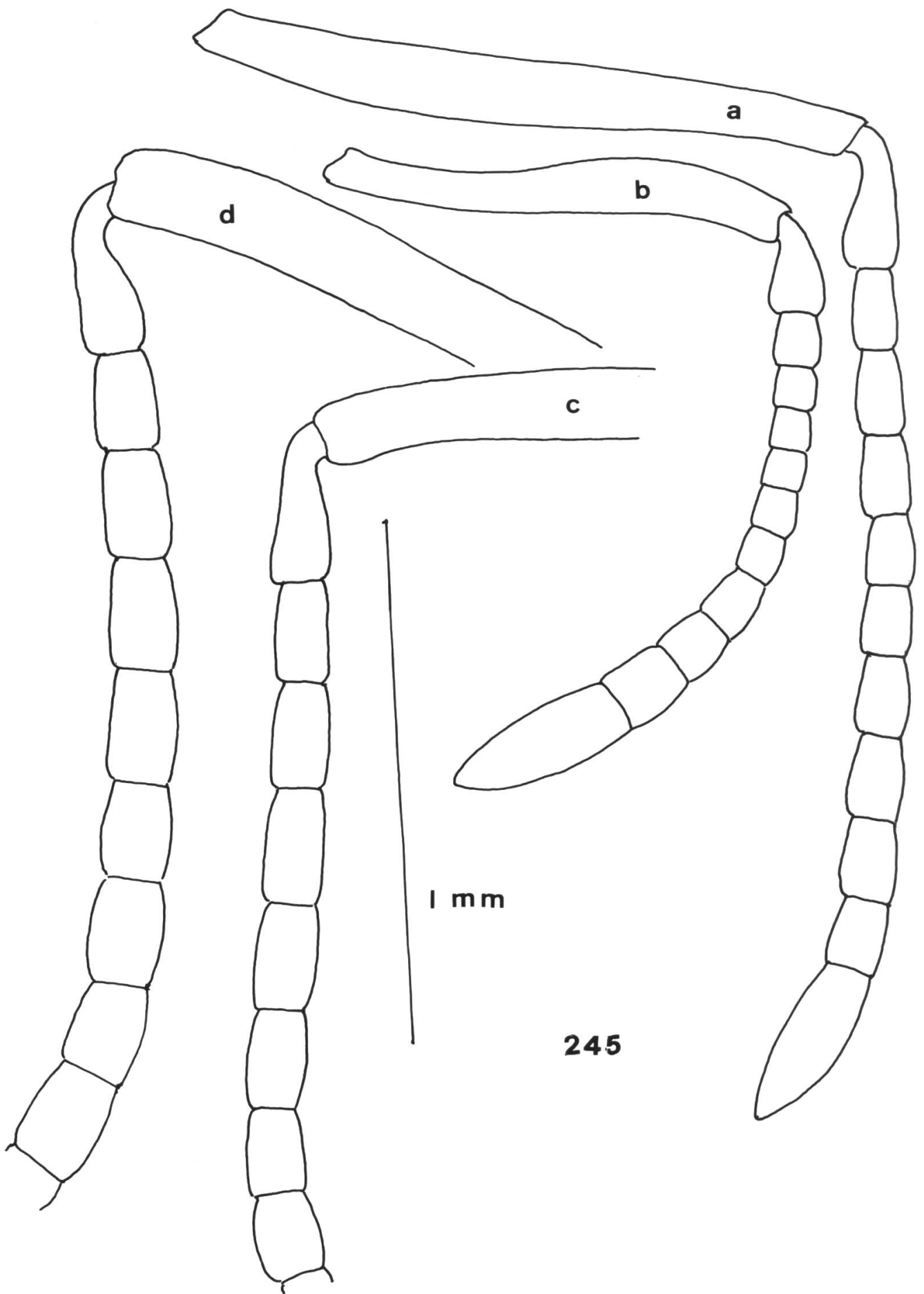


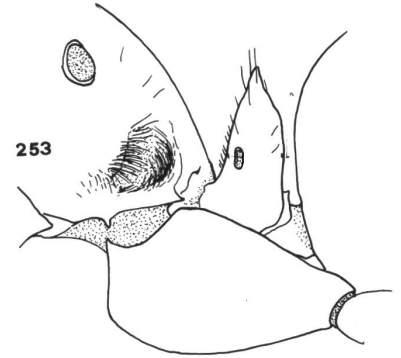
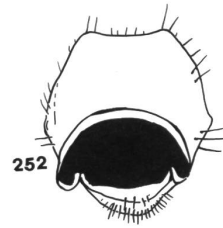
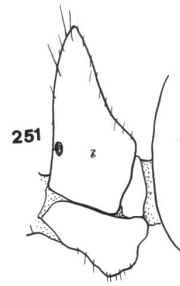
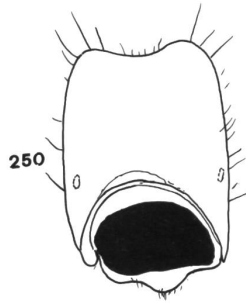
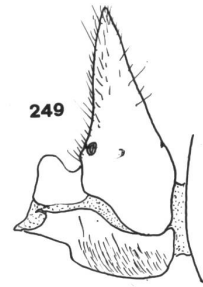
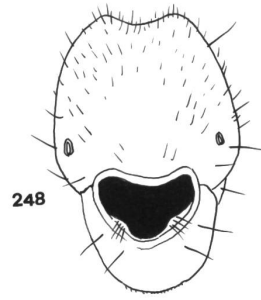
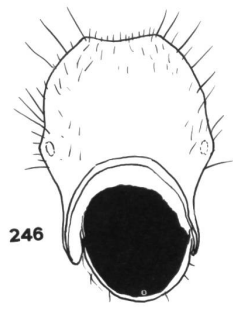
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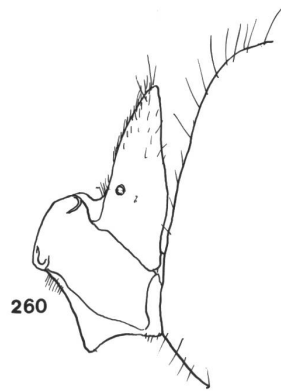
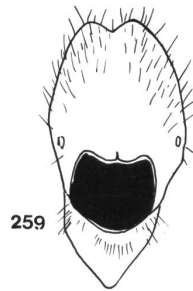
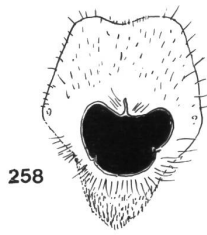
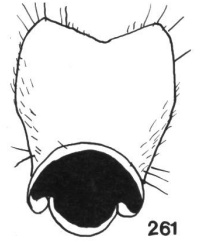
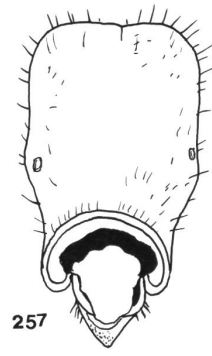
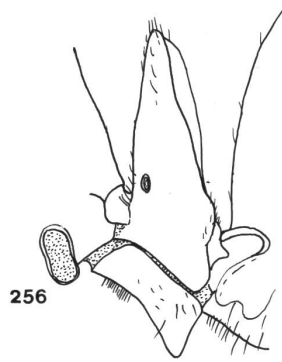
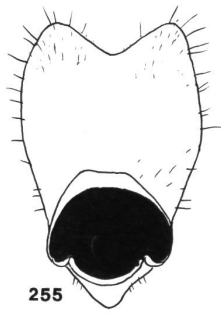


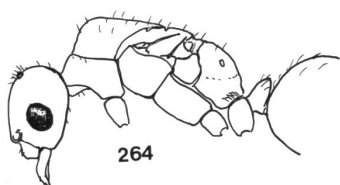
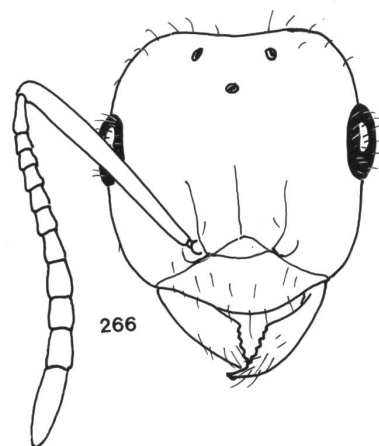
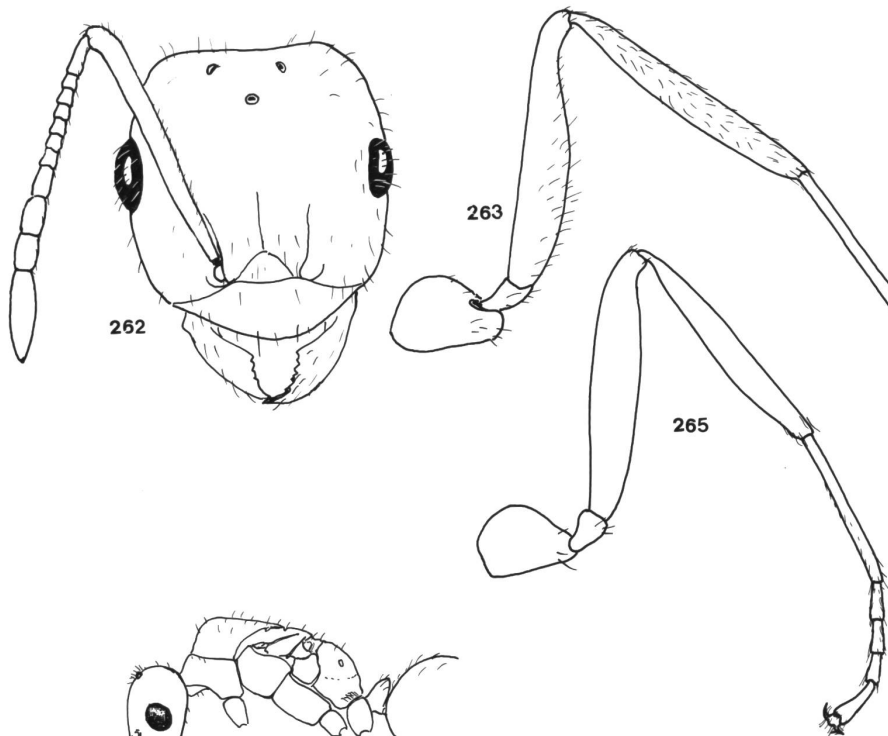
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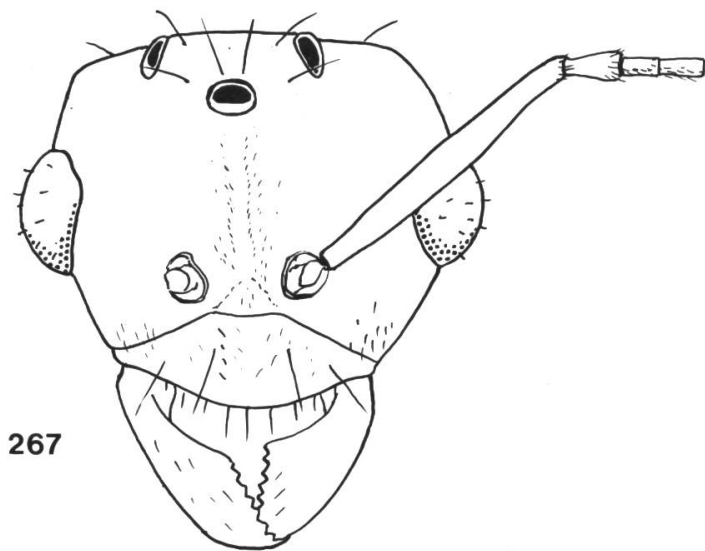




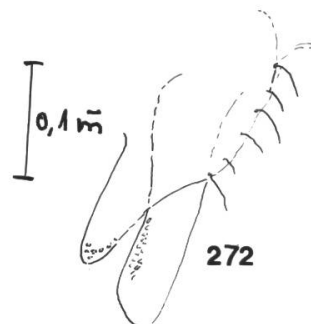




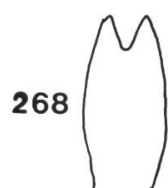




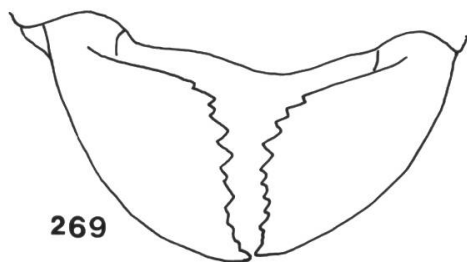
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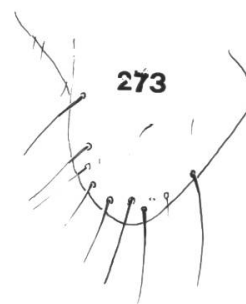
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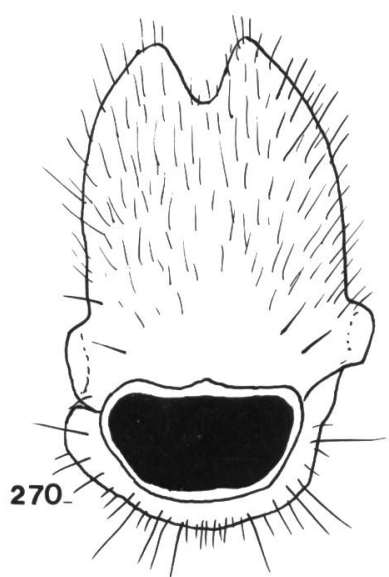
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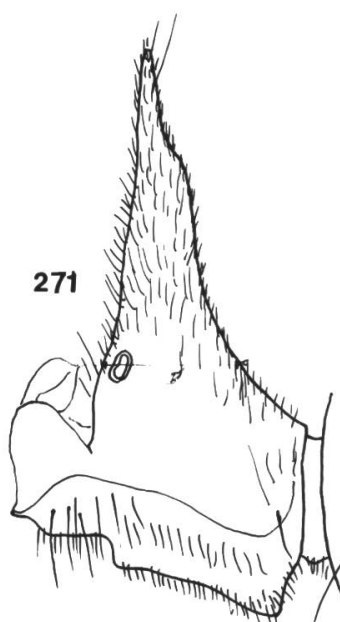
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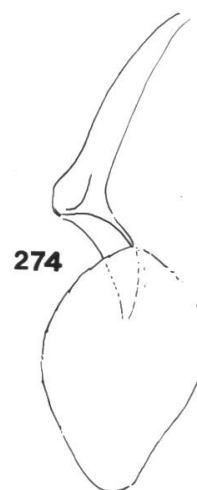
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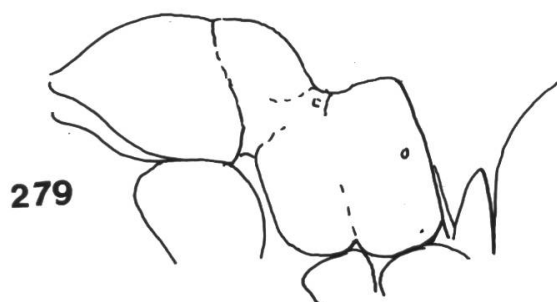
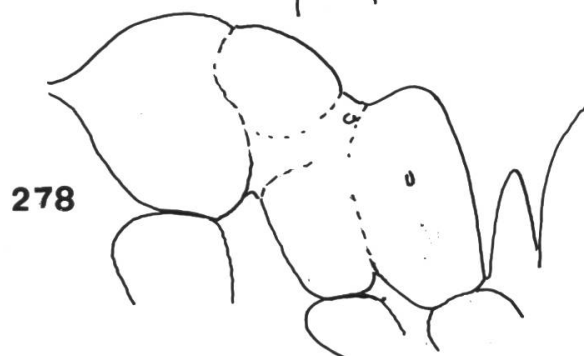
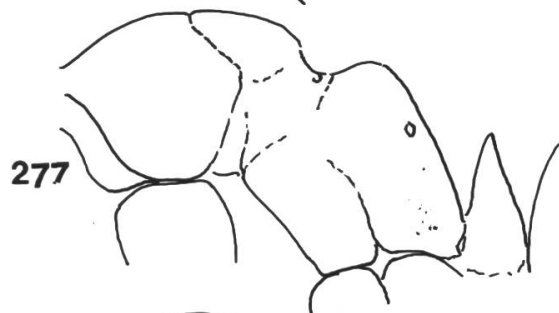
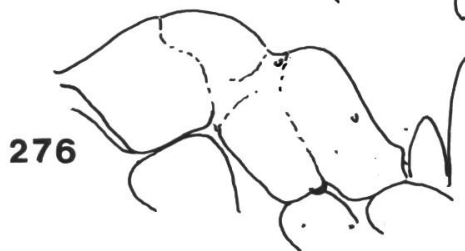
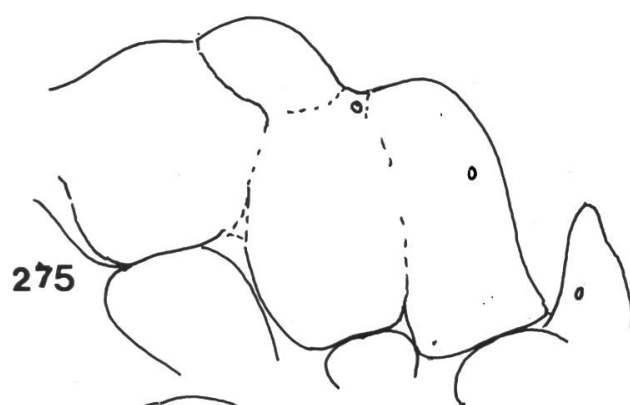
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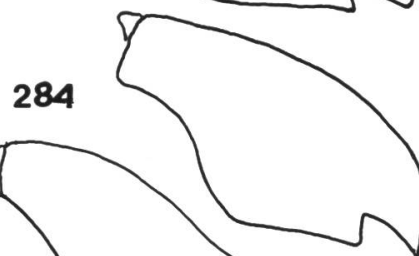
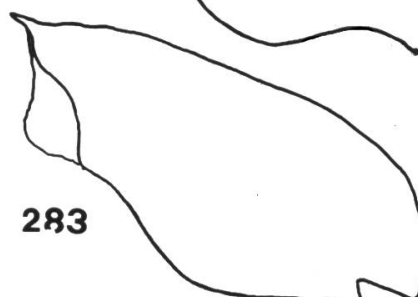
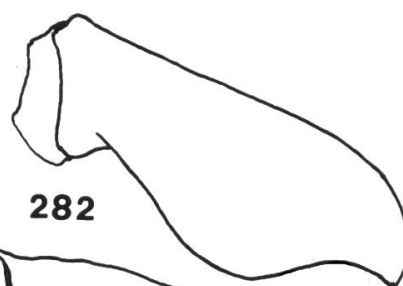
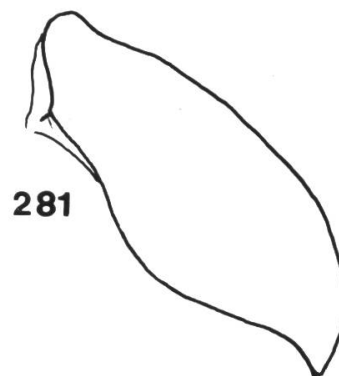
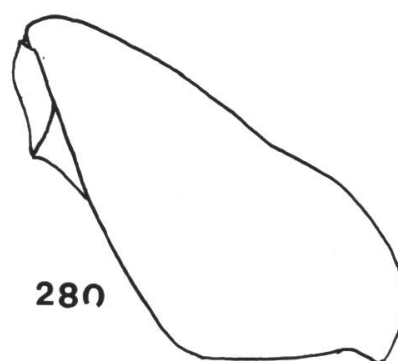
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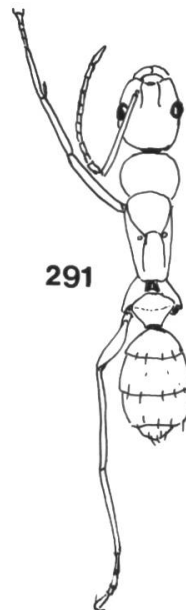
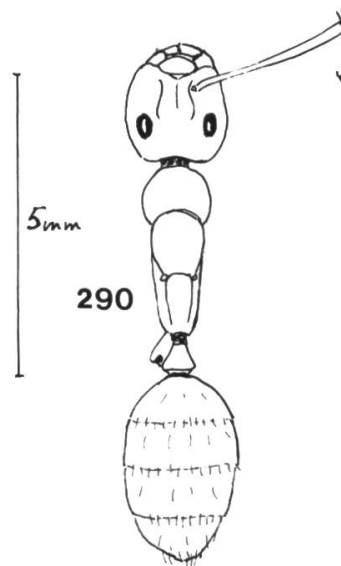
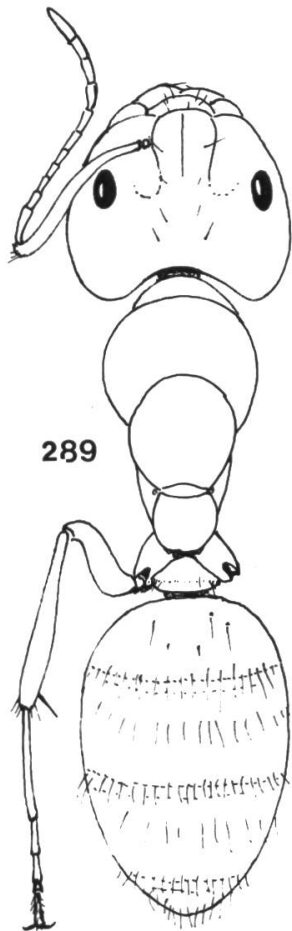
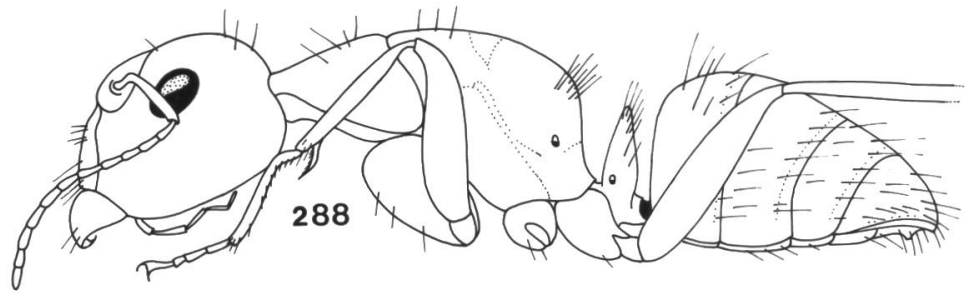
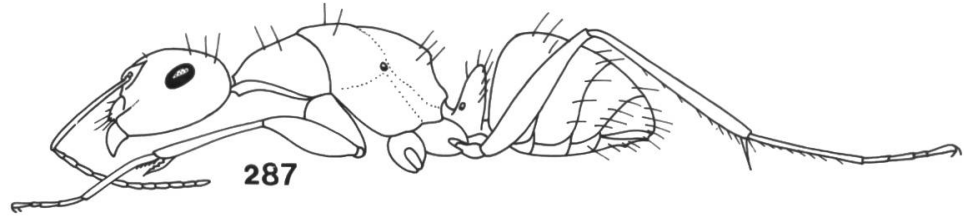
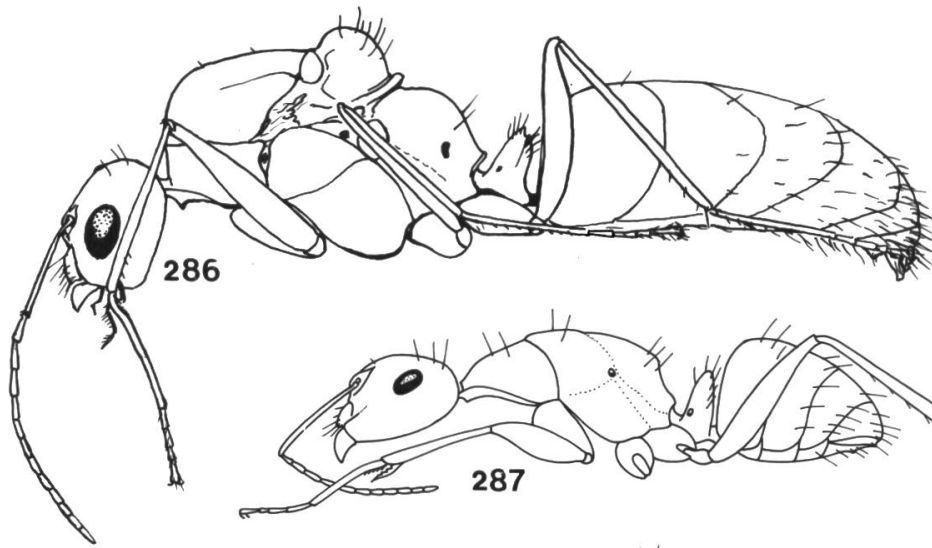


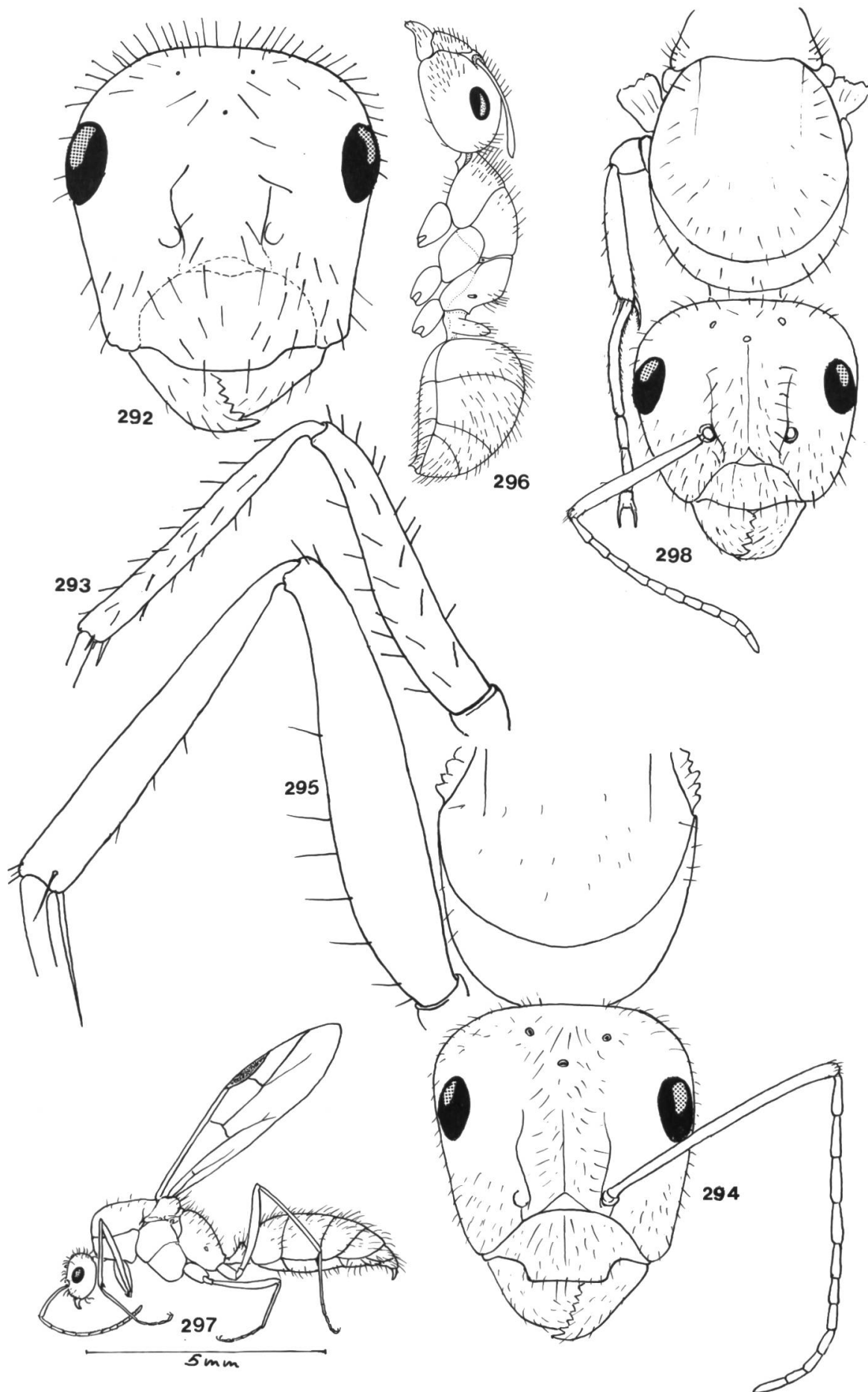
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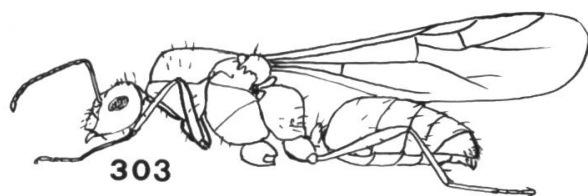
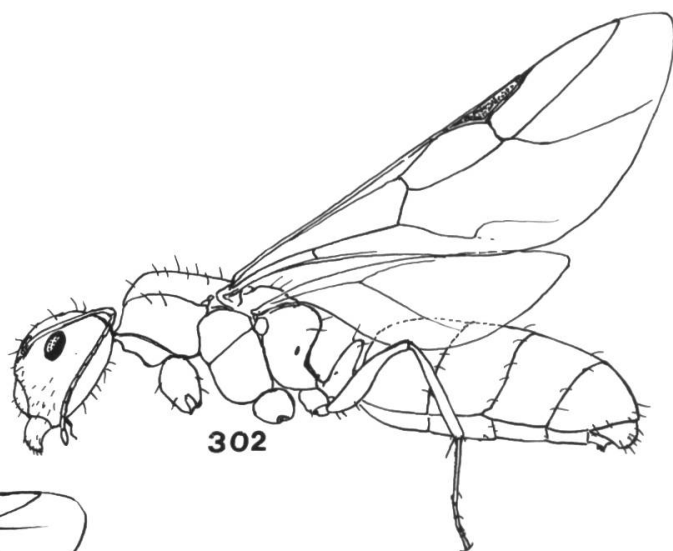
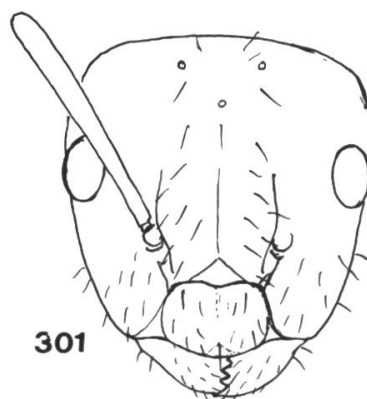
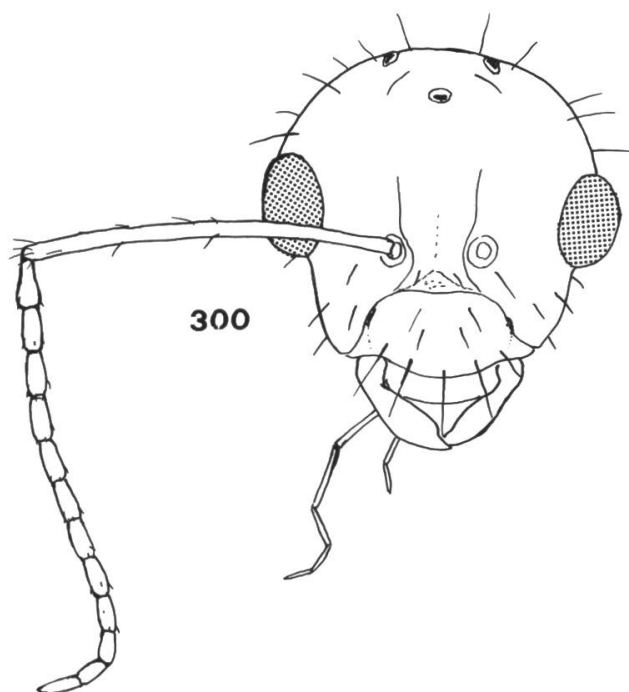
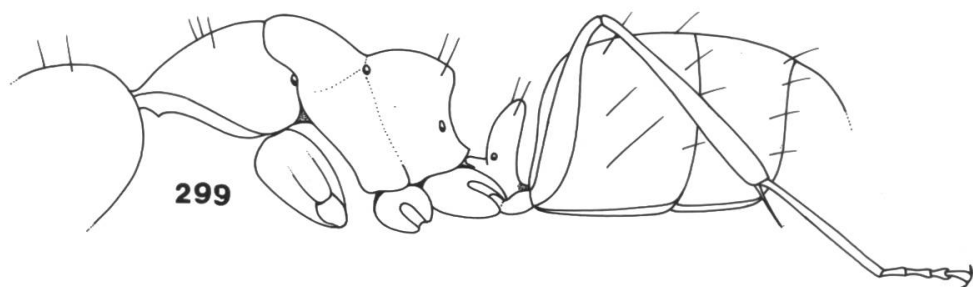


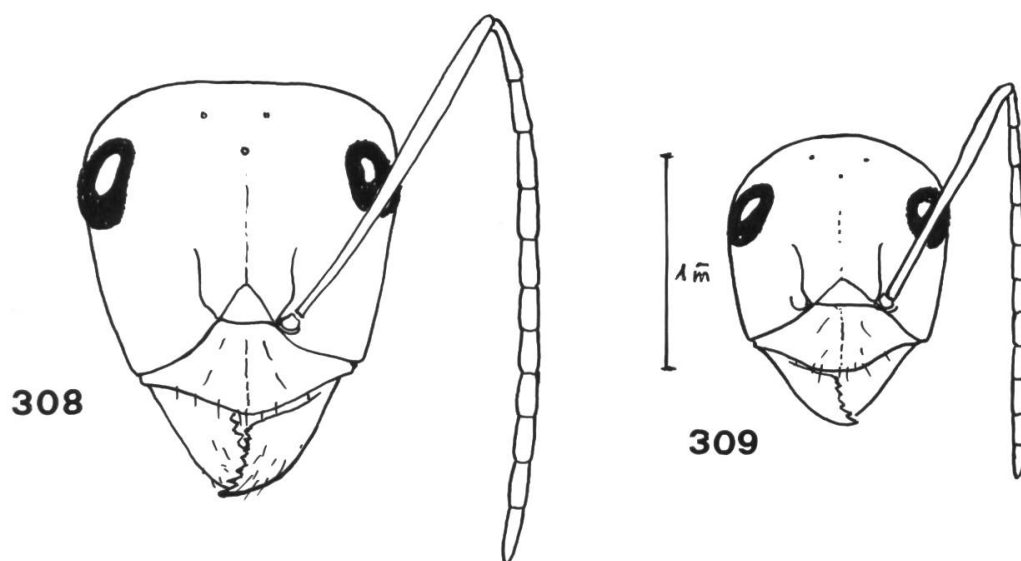
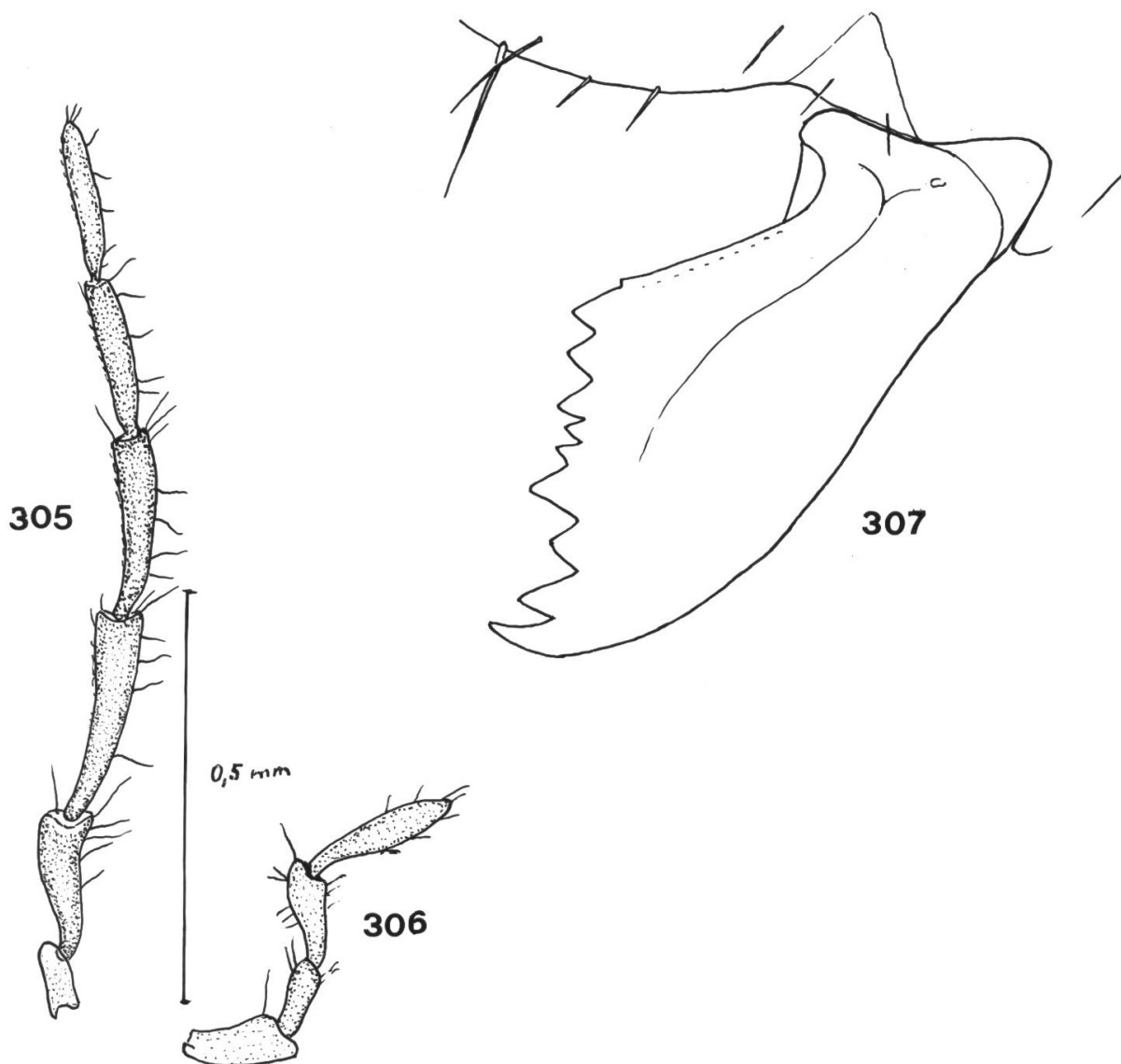
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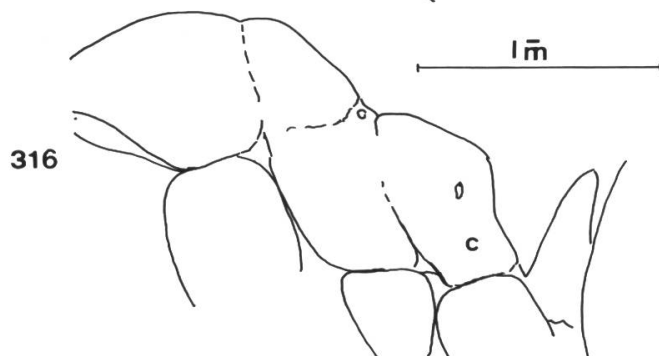
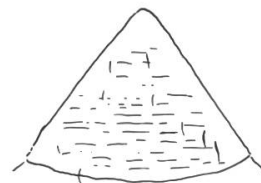
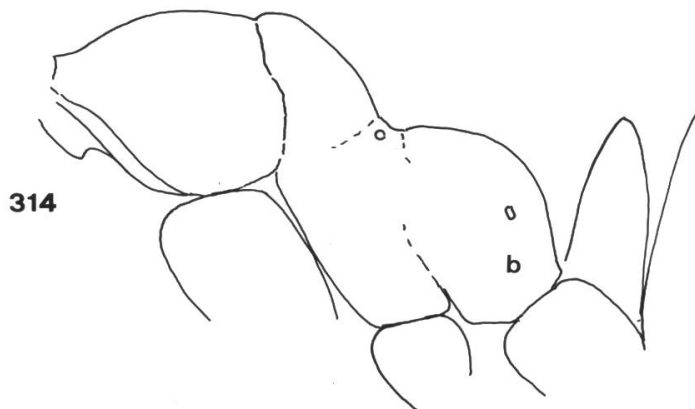
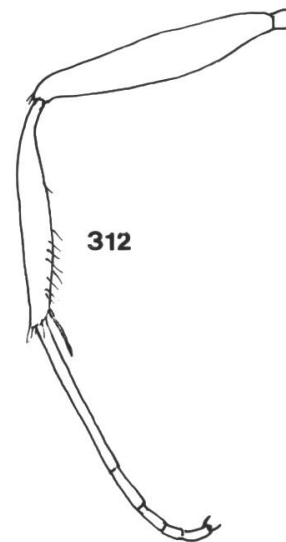
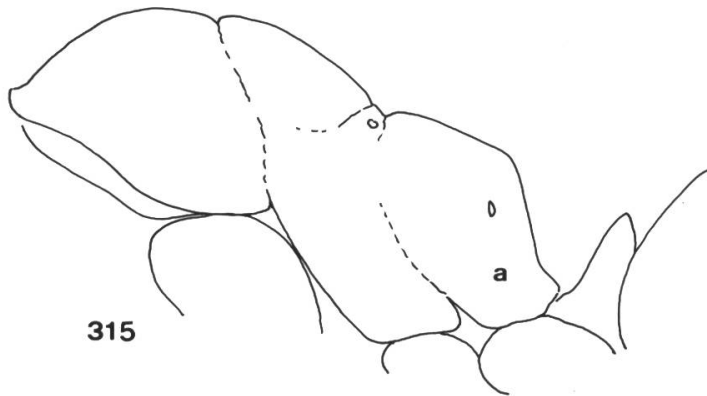
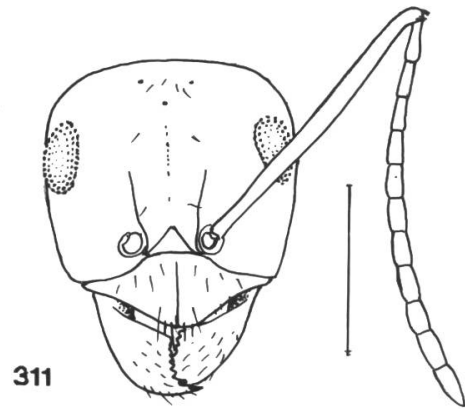
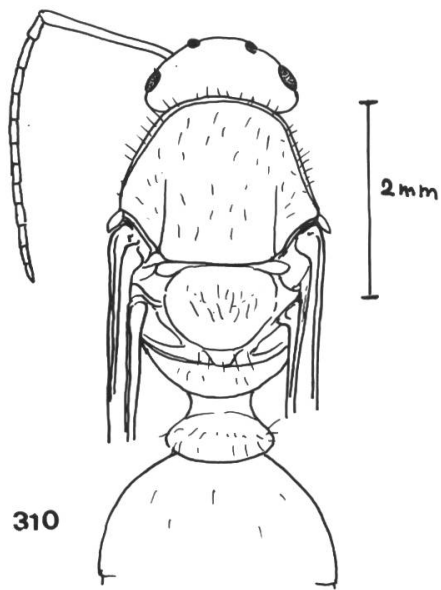


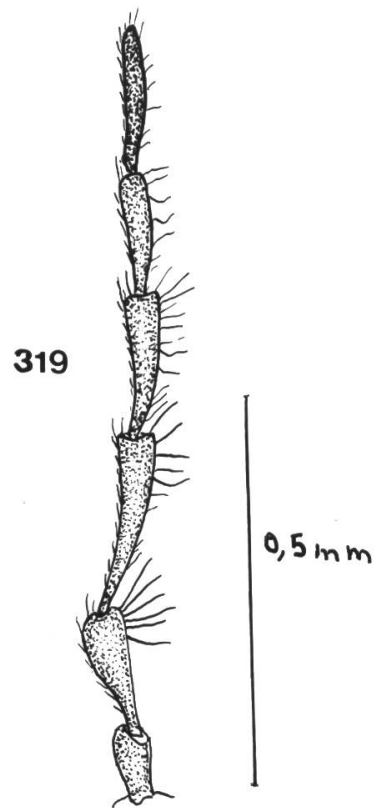
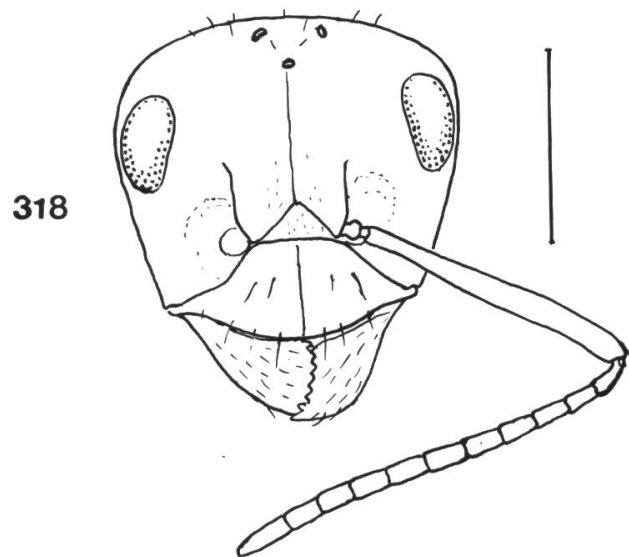
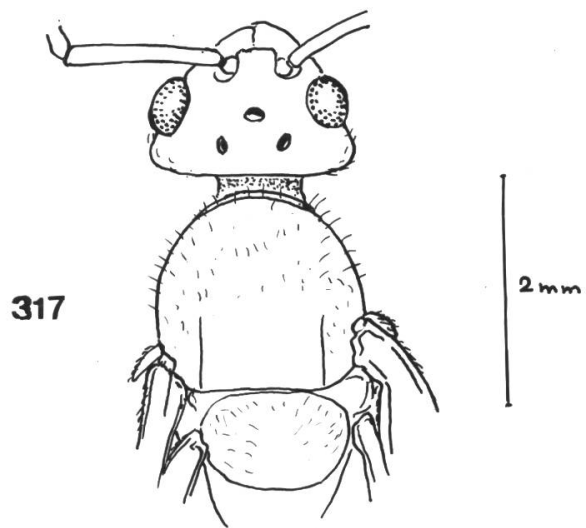


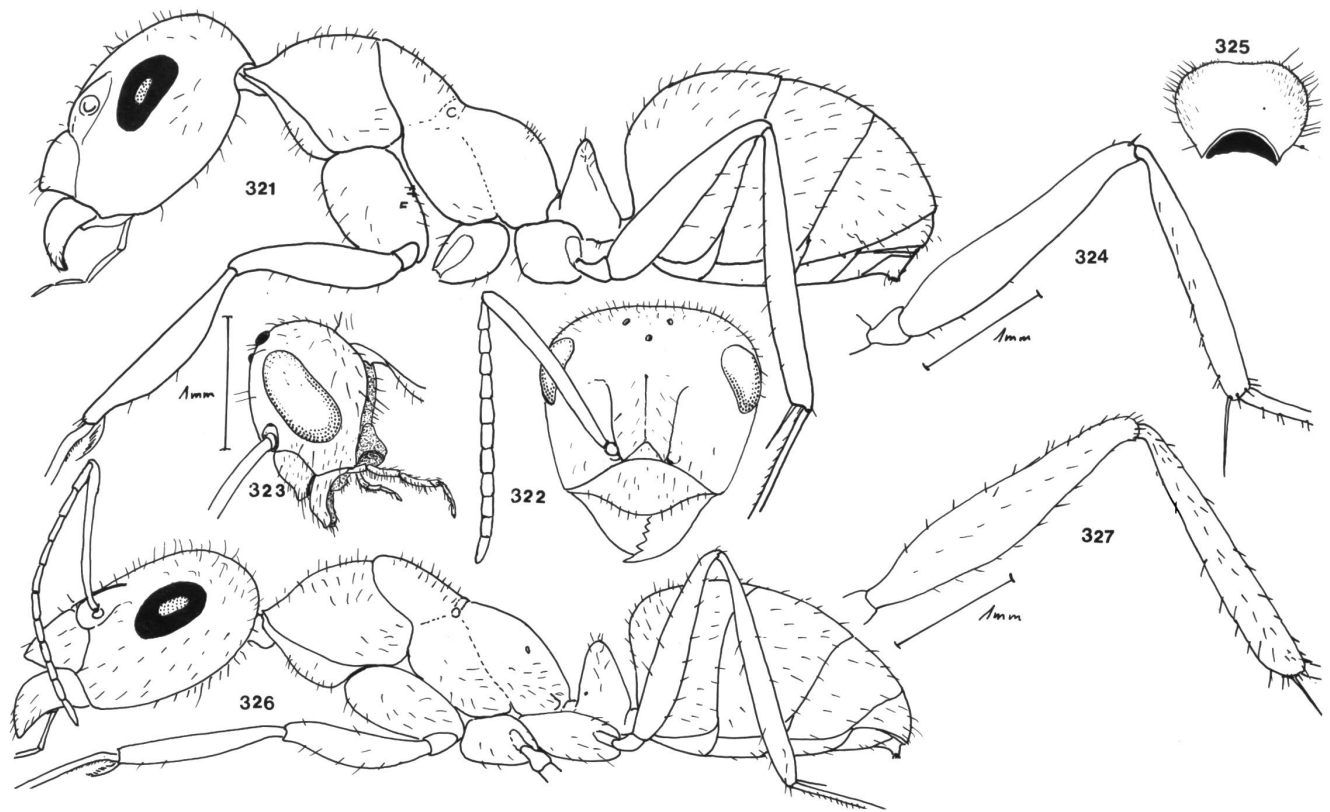


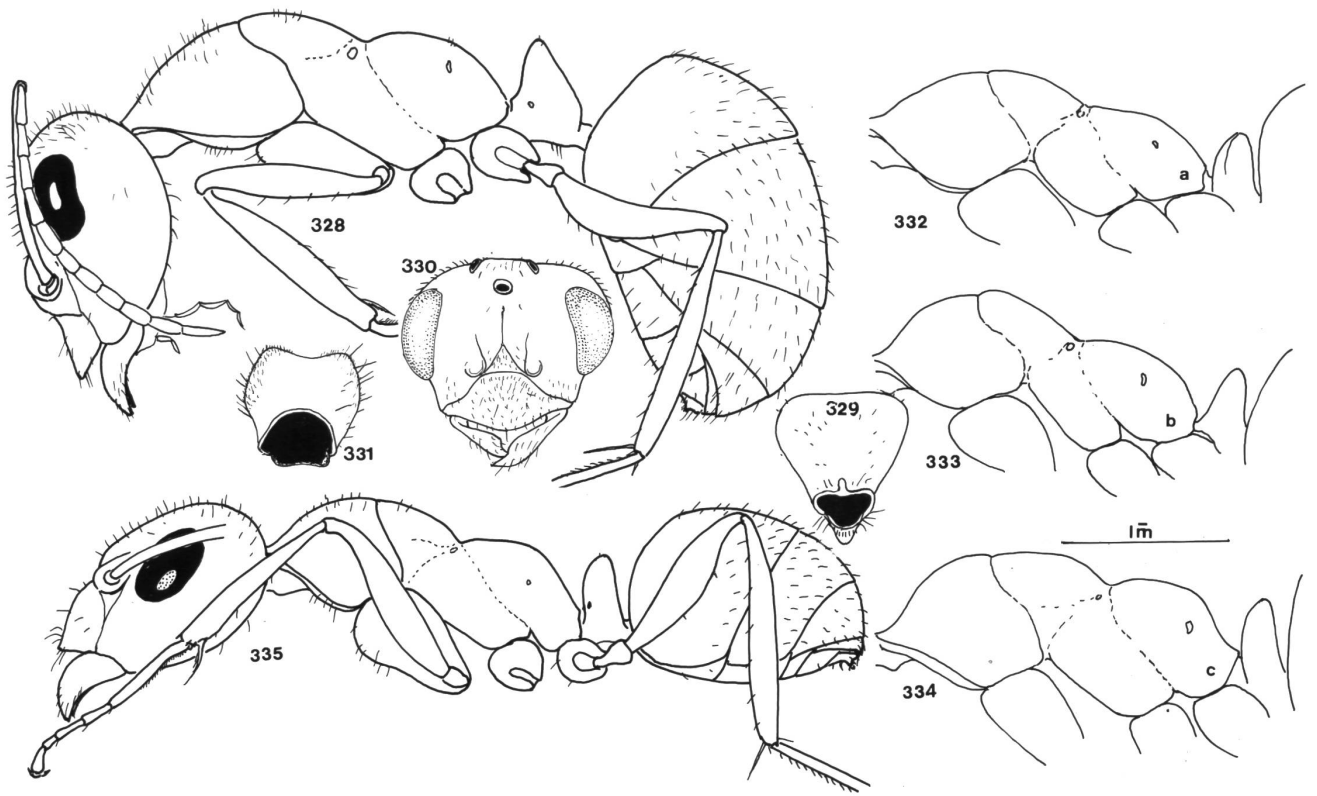


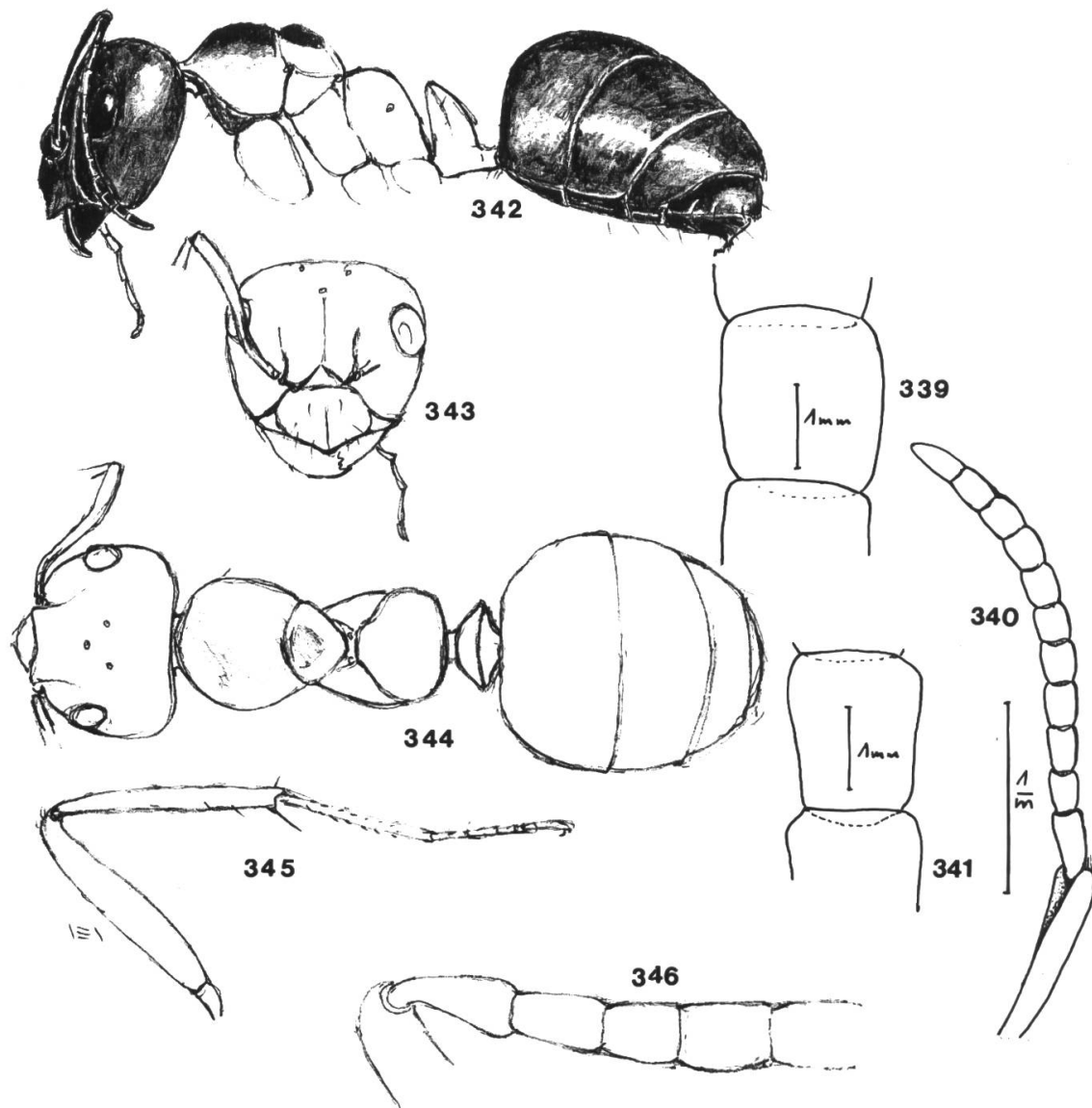
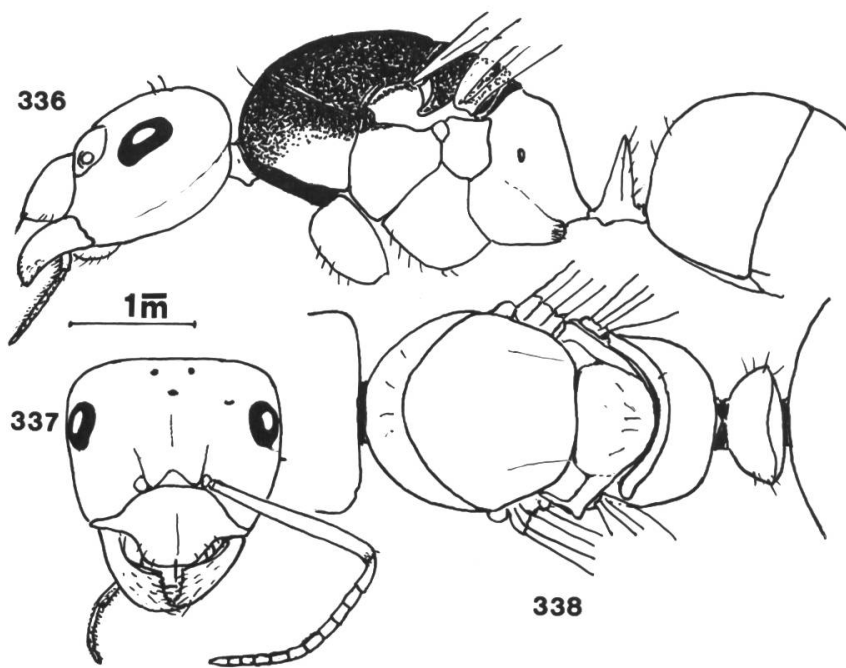


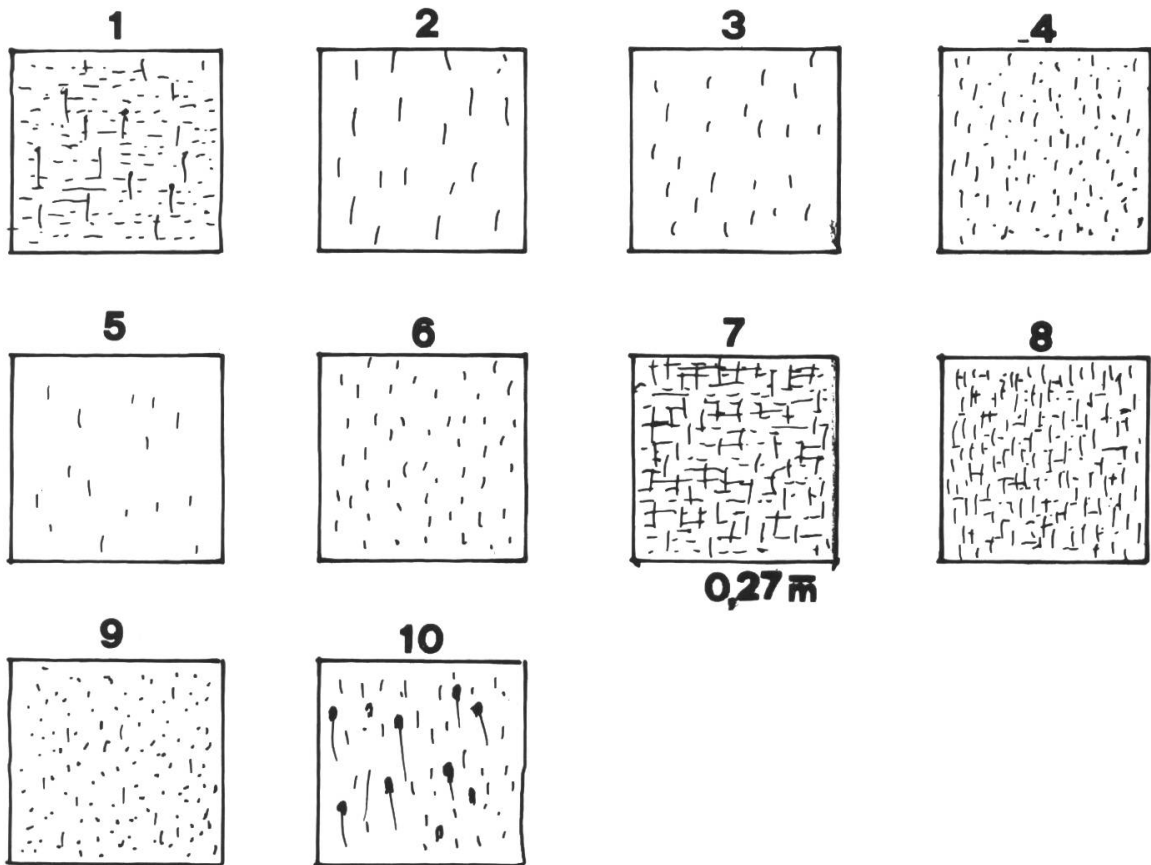






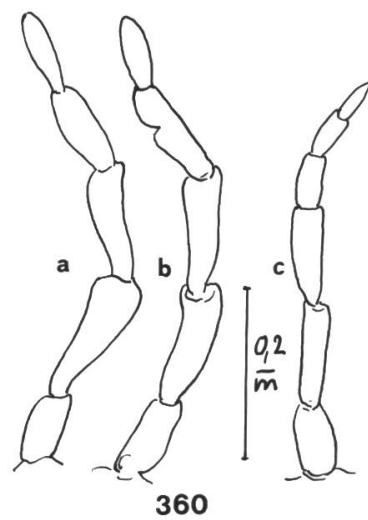
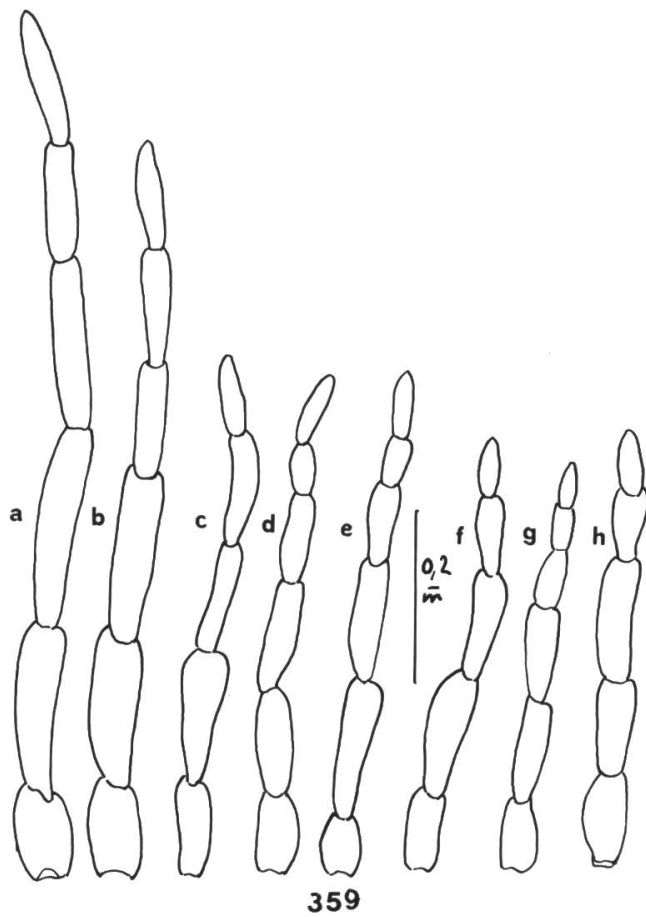
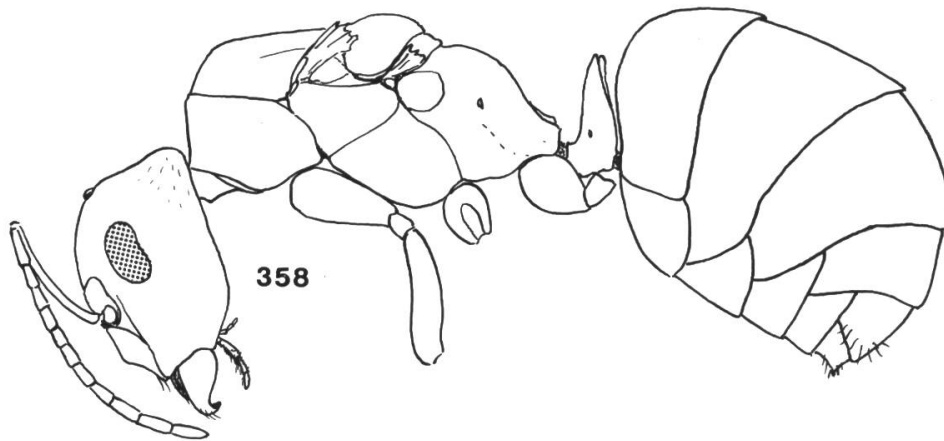
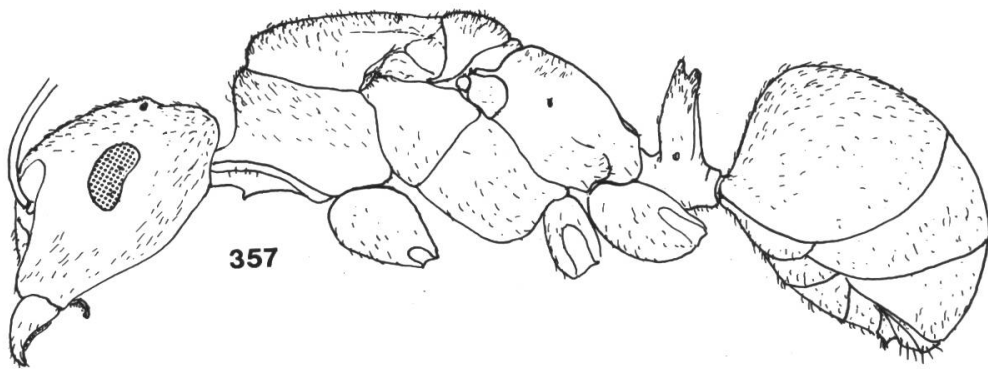


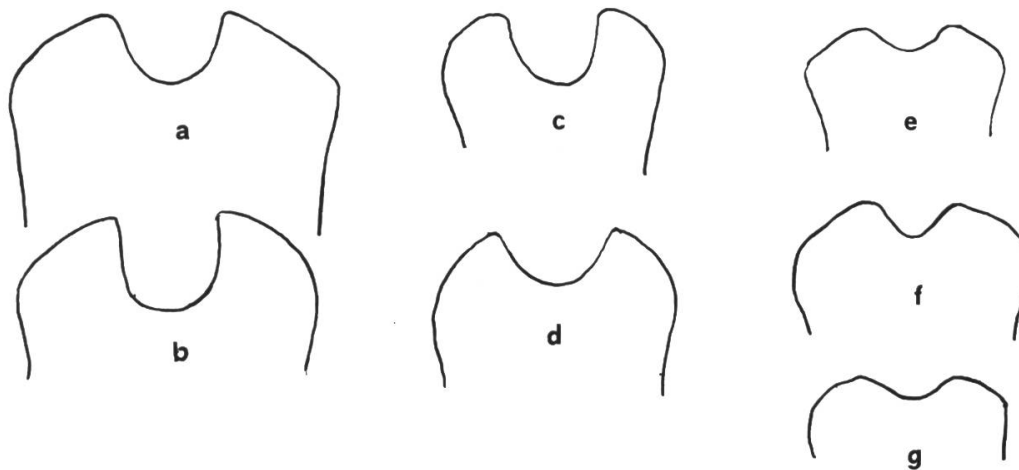
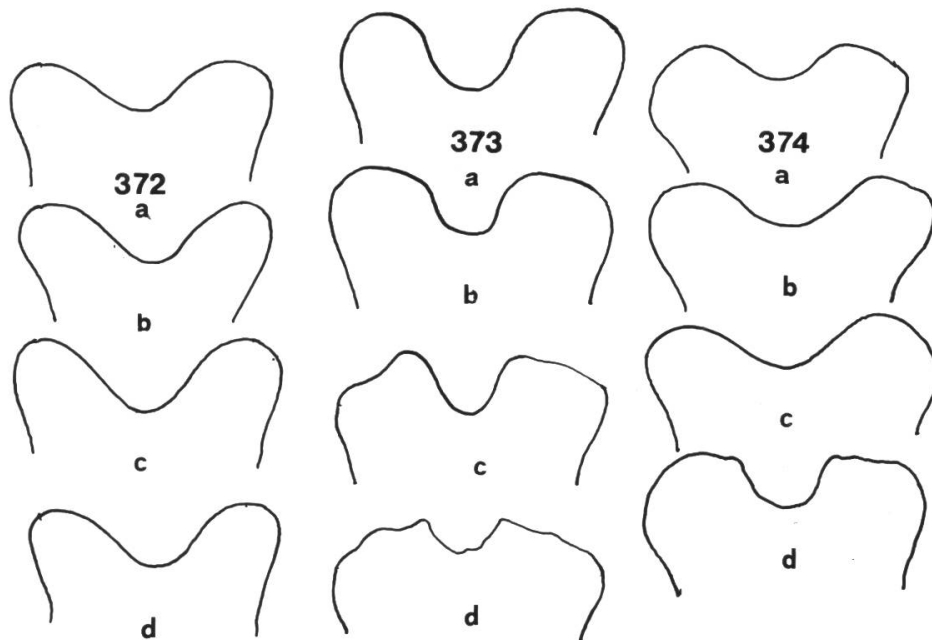
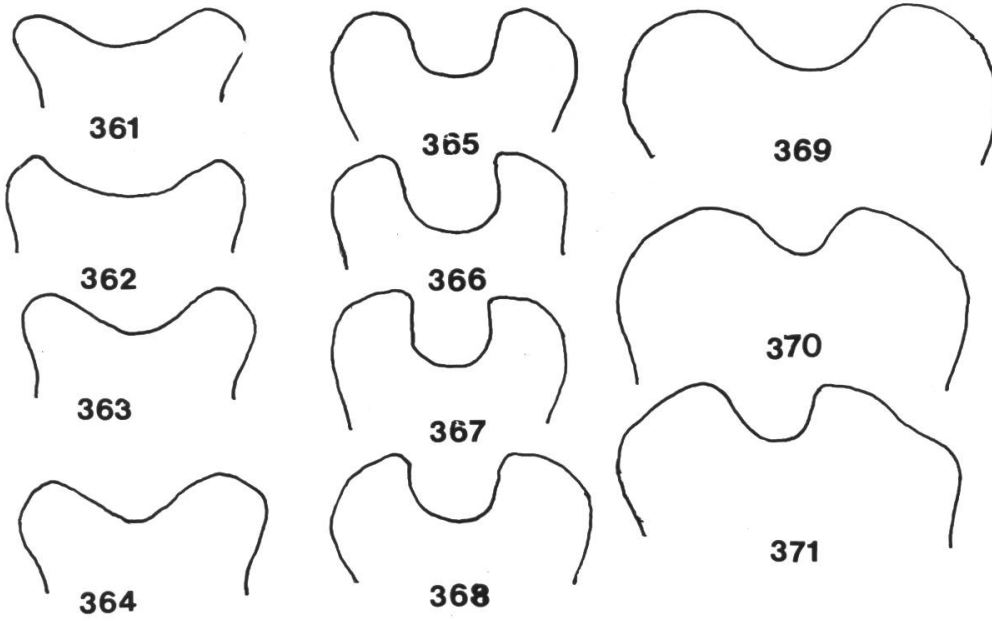


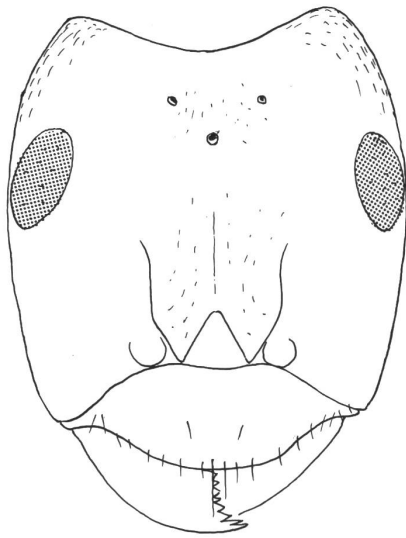


Behaarung und Skulptur auf 2. Tergit von Formica-Weibchen

- | | |
|---|---|
| 1 <i>F. uralensis</i> RUSKY | halbmatt mit feiner Querchagriniierung |
| 2 <i>F. rufa</i> L. | glänzend und mit ganz feiner Chagriniierung |
| 3 <i>F. polycтена</i> FOERST. | glänzend und glatt. Pubeszenzhaare kurz |
| 4 <i>F. aquilonia</i> YARROW | Pubeszenzhaare kurz und dicht beieinander. Fein punktiert |
| 5 <i>F. lugubris</i> ZETT. | I glatt und glänzend ± kurze Pubeszenzhärchen |
| 6 <i>F. lugubris</i> ZETT. | II Pubeszenzhärchen dichter. Gaster glatt und glänzend |
| 7 <i>F. pratensis</i> RETZ. | matt. Lange Pubeszenzhaare. Chagriniert |
| 8 <i>F. nigricans</i> EM.
(= <i>cordieri</i> BONDR.) | matt. Lange und dicht stehende Pubeszenzhaare
deutliche Querchagriniierung |
| 9 <i>F. pratensoides</i> GOESSW. | matt. Dicht punktiert, wenig pubeszent |
| 10 <i>F. truncorum</i> F. | Zweierlei Haare: sehr lange, feine und abstehende
Haare und kurze, anliegende Pubeszenzhärchen.
Halbmatt. Querchagriniierung sehr fein, eingeritzte
grosse Punkte. |



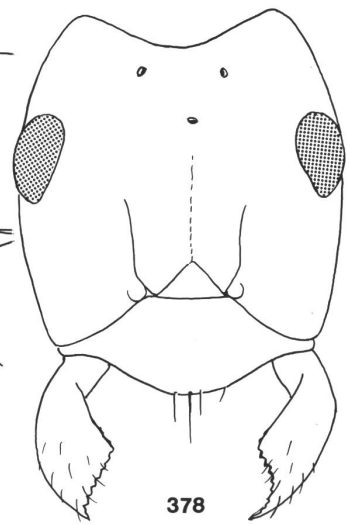




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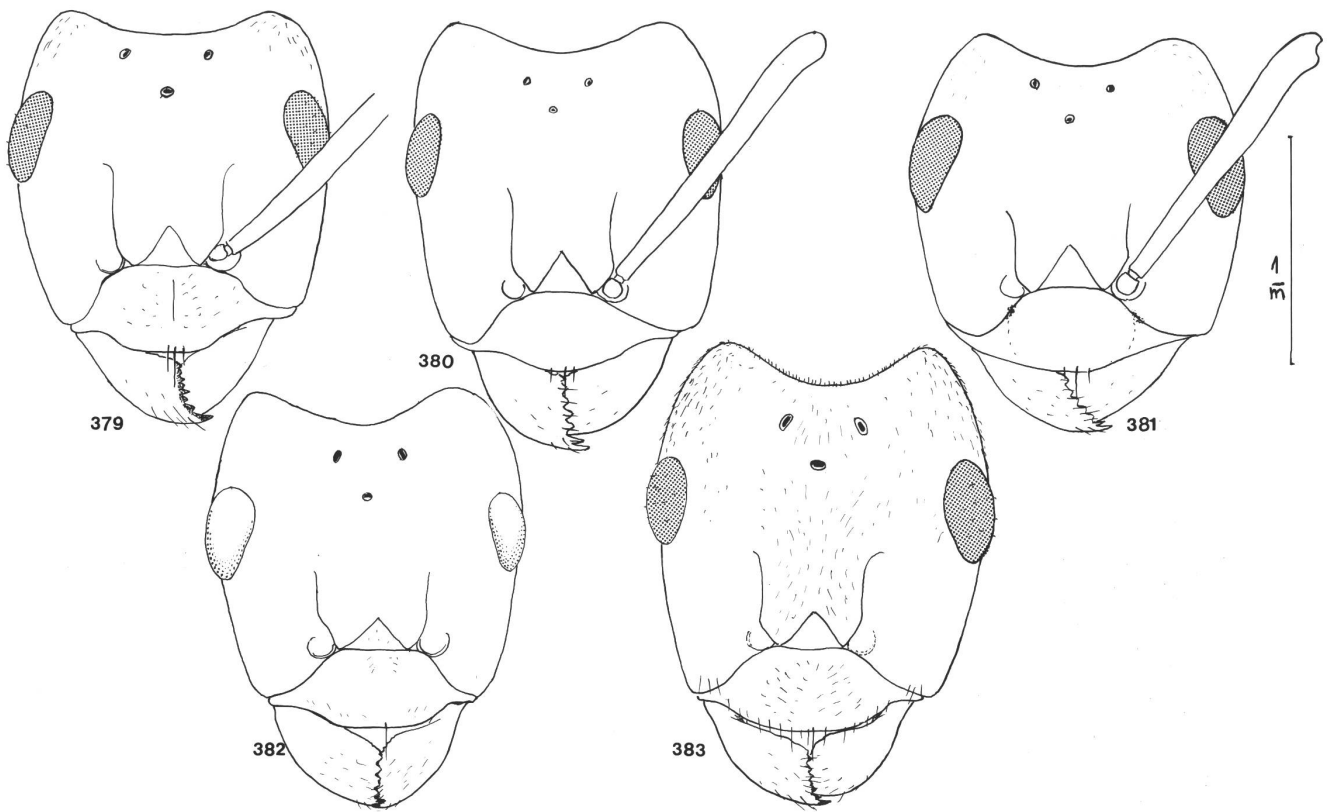


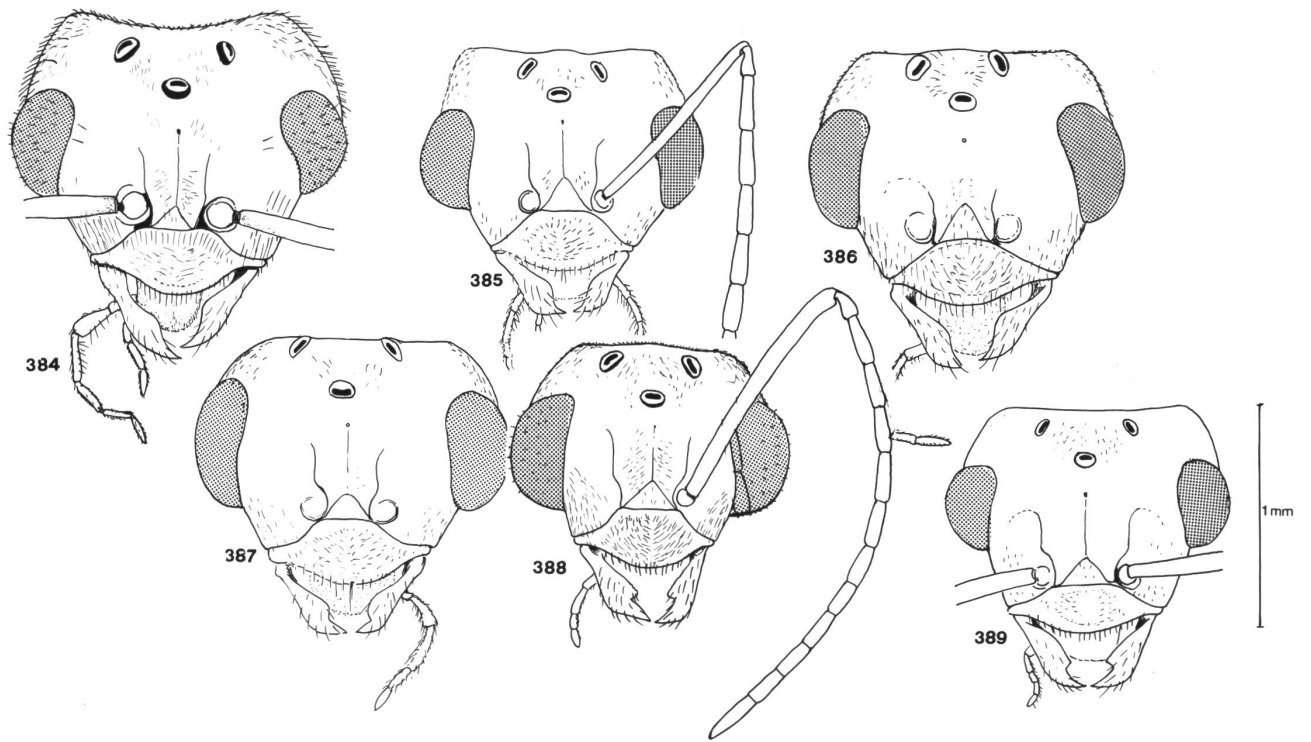
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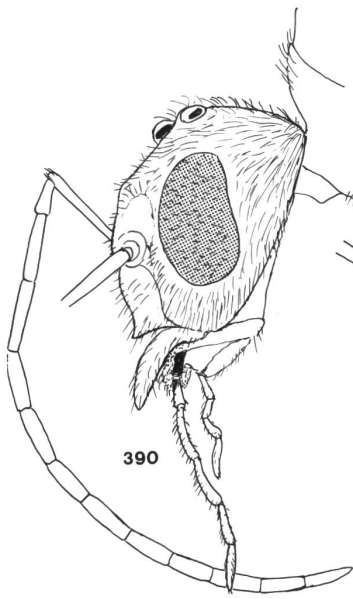


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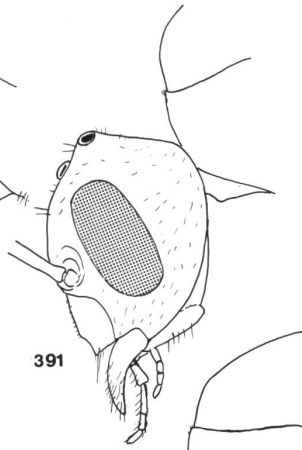




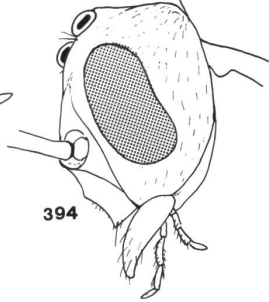




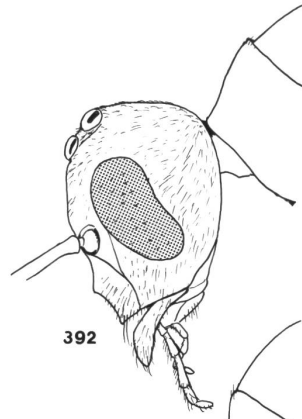
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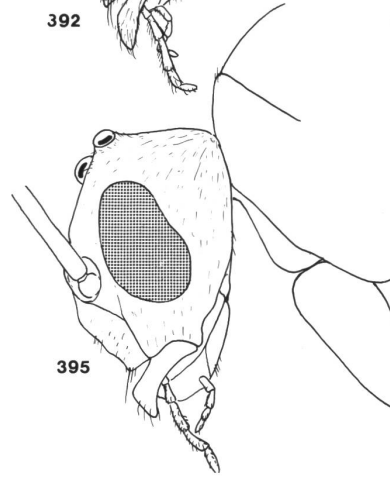
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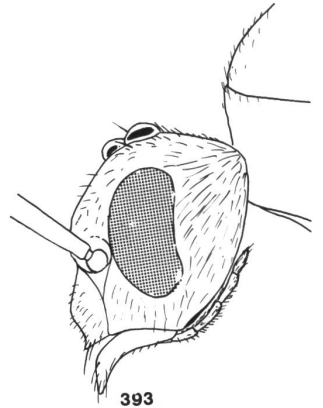
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