

Hymenoptera Formicidae [Ergänzungen zu Band 6]

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INSECTA HELVETICA

Fauna

Herausgegeben von der Schweizerischen Entomologischen Gesellschaft

Ergänzungsband

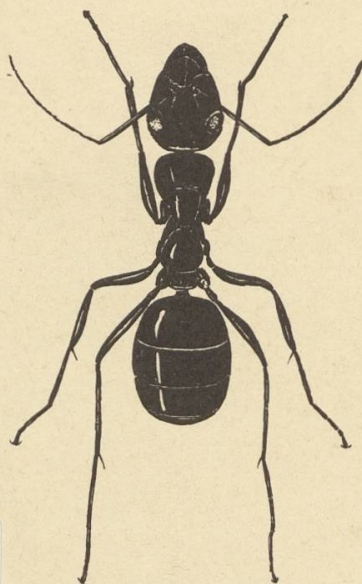
6a

HYMENOPTERA

FORMICIDAE

von

H. KUTTER



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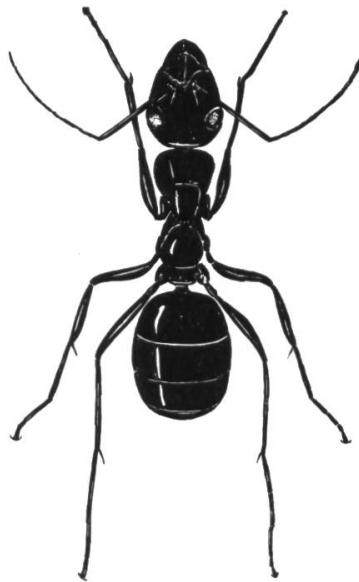
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Meinen Freunden und Fachkollegen gewidmet

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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

FIGURENVERZEICHNIS

- | | | | |
|---------|---------------------------------|---|--|
| Fig. 1 | <i>Ponera coarctata</i> | ♂ | |
| Fig. 2 | <i>Ponera coarctata</i> | ♀ | |
| Fig. 3 | <i>Ponera coarctata</i> | ♀ | |
| Fig. 4 | <i>Ponera coarctata</i> | ♀ | Kopf von vorn |
| Fig. 5 | <i>Ponera coarctata</i> | ♀ | 2. Gastertergit (= 4. Abdominalsegment) mit Reibfläche des Stridulationsapparates. In Natur vom Hinterrand des 1. Tergiten überdeckt |
| Fig. 6 | <i>Ponera coarctata</i> | ♀ | Reibfläche des Stridulationsapparates in der Mitte des Vorderrandes des 2. Tergiten |
| Fig. 7 | <i>Ponera coarctata</i> | ♀ | Stielchen von der Seite |
| Fig. 8 | <i>Ponera coarctata</i> | ♂ | Fühler |
| Fig. 9 | <i>Ponera coarctata</i> | ♀ | Fühler |
| Fig. 10 | <i>Ponera coarctata</i> | ♂ | Kopf von vorn |
| Fig. 11 | <i>Hypoponera eduardi</i> | ♂ | Kopf von vorn |
| Fig. 12 | <i>Ponera coarctata</i> | ♂ | Vorderflügel |
| Fig. 13 | <i>Hypoponera eduardi</i> | ♂ | Vorderflügel |
| Fig. 14 | <i>Cryptopone ochraceum</i> | ♀ | Tibie III mit 2 Sporen |
| Fig. 15 | <i>Hypoponera eduardi</i> | ♀ | Kopf von vorn |
| Fig. 16 | <i>Hypoponera punctatissima</i> | ♀ | Flügel |
| Fig. 17 | <i>Hypoponera punctatissima</i> | ♀ | Stielchen von der Seite |
| Fig. 18 | <i>Manica rubida</i> | ♂ | |
| Fig. 19 | <i>Manica rubida</i> | ♂ | |
| Fig. 20 | <i>Manica rubida</i> | ♂ | Flügel |
| Fig. 21 | <i>Manica rubida</i> | ♂ | Mandibel |
| Fig. 22 | Profile der ♀♀ von | | |
| | a) <i>Myrmica laevinodis</i> | | |
| | b) <i>Myrmica ruginodis</i> | | |
| | c) <i>Myrmica jacobsoni</i> | | |
| | d) <i>Myrmica rugulosa</i> | | |
| | e) <i>Myrmica sulcinodis</i> | | |
| Fig. 23 | Epinotaldornen Aufsicht von | | |
| | a) <i>Myrmica rugulosa</i> | ♀ | |
| | b) <i>Myrmica laevinodis</i> | ♀ | |
| | c) <i>Myrmica ruginodis</i> | ♀ | |
| | d) <i>Myrmica scabrinodis</i> | ♀ | |
| | e) <i>Myrmica lobicornis</i> | ♀ | |
| | f) <i>Myrmica schencki</i> | ♀ | |

- g) *Myrmica bibikoffi* ♀
h) *Myrmica bibikoffi* ♀
- Fig. 24 Sporne der Hinterbeine von
a) *Myrmica laevinodis* ♀
b) *Myrmica sulcinodis* ♀
c) *Myrmica sabuleti* ♀
d) *Myrmica vandeli* ♀
e) *Myrmica laevinodis* ♀
f) *Myrmica scabrinodis* ♀
g) *Myrmica laevinodis* ♂
h) *Myrmica scabrinodis* ♂
- Fig. 25 Stielchenglieder in Aufsicht der ♂♂ von
a) *Myrmica sabuleti*
b) *Myrmica slovaca*
c) *Myrmica scabrinodis* (*pilosiscapus* det. FINZI)
- Fig. 26 Fühlerschaft der ♀♀ von
a) *Myrmica laevinodis* Disentis
b) *Myrmica ruginodis* Alpe Cardada
c) *Myrmica rugulosa* Pradella Schuls
d) *Myrmica sulcinodis* Zermatt
e) *Myrmica jacobsoni* Holotypus
f) *Myrmica rolandi* Balearen
g) *Myrmica rugulosoides* Illnau
h) *Myrmica scabrinodis* Valbella Lenzerheide
i) *Myrmica slovaca* Ukraine
k) *Myrmica specioides* San Nazzaro
l) *Myrmica sabuleti*
m) *Myrmica vandeli* Creux-du-Van
- Fig. 27 Fühlerschaft der ♀♀ von
a) *Myrmica schencki* Saas-Fee
b) *Myrmica lobicornis* 1 Saas-Fee
c) *Myrmica lobicornis* 2 Samnaun
d) *Myrmica lobicornis* 3 Stazerwald St. Moritz
e) *Myrmica scabrinodis* (*pilosiscapus* det. FINZI) Arosa
f) *Myrmica bibikoffi* Typus
g) *Myrmica* (*striata* det. FINZI) Corteglia
h) *Myrmica lonae* STAERCKE Den Dolder
- Fig. 28 Fühlerschaft von ♀♀ von
a) *Myrmica rugulosoides*
b) *Myrmica specioides*
c) *Myrmica scabrinodis*
d) *Myrmica scabrinodis* (*pilosiscapus* det. FINZI)
e) *Myrmica vandeli*
d) *Myrmica sabuleti*

- Fig. 29 Fühlerschaft von ♀♀ von
- | | |
|-------------------------------|----------------------|
| a) <i>Myrmica laevinodis</i> | Disentis |
| b) <i>Myrmica ruginodis</i> | Alpe Cardada Locarno |
| c) <i>Myrmica jacobsoni</i> | Holotypus |
| d) <i>Myrmica rugulosa</i> | Pradella b. Schuls |
| e) <i>Myrmica sulcinodis</i> | Zermatt |
| f) <i>Myrmica scabrinodis</i> | Valbella Lenzerheide |
| g) <i>Myrmica sabuleti</i> | Pfynwald Wallis |
| h) <i>Myrmica lobicornis</i> | Saas-Fee |
- Fig. 30 Fühlerschaft von vorn, oben und hinten von
- | | |
|--|------------------|
| a) <i>Myrmica sabuleti</i> | Schuls |
| b) <i>Myrmica scabrinodis</i> | Süs Unterengadin |
| c) <i>Myrmica rugulosoides</i> | Roche |
| d) <i>Myrmica specioides</i> | San Nazzaro |
| e) <i>Myrmica pradella rugulosa</i> | Pradella Schuls |
| f) <i>Myrmica sulcinodis</i> | |
- Fig. 31 Fühlerschaft von ♀♀ von vorn, oben und hinten von
- | | |
|------------------------------|--|
| a) <i>Myrmica schencki</i> | |
| b) <i>Myrmica lobicornis</i> | |
| c) <i>Myrmica lobicornis</i> | |
| d) <i>Myrmica lobicornis</i> | |
- Fig. 32 Fühlerschaft von ♂♂ von
- | | |
|--------------------------------|-----------------------------|
| a) <i>Myrmica specioides</i> | San Nazzaro |
| b) <i>Myrmica rugulosa</i> | Brissago |
| c) <i>Myrmica rugulosoides</i> | Roche |
| d) <i>Myrmica schencki</i> | Männedorf |
| e) <i>Myrmica scabrinodis</i> | Männedorf |
| f) <i>Myrmica slovacae</i> | Ukraine |
| g) <i>Myrmica jacobsoni</i> | (mit starker Stirnrinne) |
| h) <i>Myrmica sabuleti</i> | Männedorf (ohne Stirnrinne) |
- Fig. 33 Fühlerschaft und erste Geisselglieder von ♂♂ von
- | | |
|------------------------------|--|
| a) <i>Myrmica lobicornis</i> | |
| b) <i>Myrmica bibikoffi</i> | |
| c) <i>Myrmica sabuleti</i> | |
| d) <i>Myrmica schencki</i> | |
- Fig. 34 Kopf von *Myrmica lonae* ♀
- Fig. 35 Fühlerschaft von *Myrmica lonae* AL AQUA ♀ Nufenen
- Fig. 36 *Myrmica rolandi* Balearen ♀
- Fig. 37 *Myrmica rolandi* Balearen ♀ Kopf von vorn
- Fig. 38 *Myrmica rolandi* Balearen ♀ Kopf von oben
- Fig. 39 *Stenammina petiolatum* ♂ San Nazzaro
- Fig. 40 *Aphaenogaster gibbosa* ♀ Peney bei Genf
- Fig. 41 *Cremastogaster sordidula* ♂ Thoraxprofil
- Fig. 42 *Cremastogaster sordidula* ♂ Genitalapparat von der Seite und von oben

- Fig. 43 *Cremastogaster sordidula* ♂ Kopf von vorn
 Fig. 44 *Cremastogaster sordidula* ♂ Fühler
 Fig. 45 *Cremastogaster sordidula* ♀ von der Seite
 Fig. 46 *Cremastogaster sordidula* ♀ Thorax von oben
 Fig. 47 *Monomorium pharaonis* ♀ Kopf von vorn
 Fig. 48 *Monomorium salomonis* ♀ von der Seite
 Fig. 49 *Monomorium salomonis* ♀ Stielchen von oben
 Fig. 50 *Monomorium salomonis* ♀ von der Seite
 Fig. 51 *Diplorhoptrum spec.* ♀ Pfywald von der Seite
 Fig. 52 *Diplorhoptrum spec.* ♀ Pfywald von oben
 Fig. 51_k *Diplorhoptrum spec.* ♂ San Nazzaro Kopf von vorn
 Fig. 52_k *Diplorhoptrum spec.* ♂ San Nazzaro Kopf v. d. Seite
 Fig. 53 *Diplorhoptrum spec.* ♀ San Nazzaro Kopf von vorn
 Fig. 54 *Diplorhoptrum* ♀ Männedorf Kopf von vorn
 Fig. 55 *Diplorhoptrum* ♀ Montagnola Thorax v. d. Seite
 Fig. 56 *Diplorhoptrum monticola*
 leg. BERNARD ♀ Kopf von vorn
 Fig. 57 *Diplorhoptrum spec.* ♀ San Nazzaro Vorderkopf
 Fig. 58 Profile des Epinotums und Stielchens von ♀♀ von
 a) *Leptothorax acervorum*
 b) *Leptothorax diversipilosus* aus den USA
 c) *Formicoxenus nitidulus*
 d) *Epimyrma stumperi*
 Fig. 59 Profile des Epinotums und Stielchens von ♀♀ von
 a) *Leptothorax acervorum*
 b) *Leptothorax diversipilosus* aus den USA
 c) *Formicoxenus nitidulus*
 d) *Doronomyrmex pacis*
 Fig. 60 Profile von Epinotum und Stielchen von ♂♂ von
 a) *Leptothorax acervorum* Laggintal Simplon
 b) *Leptothorax buschingeri* Laggintal Simplon
 c) *Leptothorax acervorum* Laggintal Simplon
 d) *Leptothorax buschingeri* Laggintal Simplon
 alle aus der gleichen Kolonie
 Fig. 61 *Leptothorax acervorum* ♀
 Fig. 62 *Leptothorax gredleri* ♀
 Fig. 63 *Leptothorax muscorum* ♀
 Fig. 64 *Leptothorax acervorum* ♀ Hinterbein
 Fig. 65 *Leptothorax gredleri* ♀ Hinterbein
 Fig. 66 *Leptothorax muscorum* ♀ Hinterbein
 Fig. 67 *Leptothorax gredleri* ♂ Vorderbein
 Fig. 68 *Leptothorax gredleri* ♂ Mittelbein
 Fig. 69 *Leptothorax gredleri* ♂ Hinterbein
 Fig. 70 *Leptothorax*
 a) Epinotum ♀ von *L. acervorum*

	b) Bein	♀	von <i>L. acervorum</i>	
	c) Epinotum	♀	von <i>L. muscorum</i>	
	d) Bein	♀	von <i>L. muscorum</i>	
	e) Epinotum	♀	von <i>L. gredleri</i>	
	f) Bein	♀	von <i>L. gredleri</i>	
Fig. 71	<i>Leptothorax acervorum</i>	♂	Mittelbein	
Fig. 72	<i>Leptothorax acervorum</i>	♂	Vorderflügel	
Fig. 73	<i>Leptothorax gredleri</i>	♀	Profil des Epinotums	
Fig. 74	<i>Leptothorax gredleri</i>	♂	Profil des Epinotums	
Fig. 75	<i>Leptothorax muscorum</i>	♀	Profil des Epinotums	
Fig. 76	<i>Leptothorax muscorum</i>	♂	Profil des Epinotums	
Fig. 77	<i>Leptothorax acervorum</i>	♀	Profil des Epinotums	
Fig. 78	<i>Leptothorax acervorum</i>	♂	Profil des Epinotums	
Fig. 79	<i>Epimyрма stumperi</i>	♀	Fühlerwurzel	
Fig. 80	<i>Epimyрма goesswaldi</i>	♀	Fühlerwurzel	
Fig. 81	<i>Leptothorax tuberum</i>	♀	Fühlerwurzel	
Fig. 82	<i>Formicoxenus nitidulus</i>	♀	Fühlerwurzel	
Fig. 83	<i>Leptothorax acervorum</i>	♀	Fühlergeißel	
Fig. 84	<i>Leptothorax muscorum</i>	♀	Fühlergeißel	Pradella
Fig. 85	<i>Leptothorax gredleri</i>	♀	Fühlergeißel	Würzburg
Fig. 86	<i>Leptothorax flavicornis</i>	♀	Fühlergeißel	
Fig. 87	<i>Leptothorax</i>	♀♀	Fühlergeißeln von	
	a) <i>Leptothorax acervorum</i>			
	b) <i>Leptothorax muscorum</i>			
	c) <i>Leptothorax flavicornis</i>			
Fig. 88	<i>Leptothorax goesswaldi</i>	♂		
Fig. 89	<i>Leptothorax acervorum</i>	♂	Eggerhorn	
Fig. 90	<i>Leptothorax acervorum</i>	♂	Saas-Fee	
Fig. 91	<i>Leptothorax acervorum</i>	♂	Disentis, Stielchen von oben	
Fig. 92	<i>Leptothorax acervorum</i>	♂	Sagitta	
Fig. 93	<i>Leptothorax acervorum</i>	♀		
Fig. 94	<i>Leptothorax acervorum</i>	♀	Profil des Stielchens	
Fig. 95	<i>Leptothorax muscorum</i>	♀	Profil des Epinotums	
Fig. 96	<i>Leptothorax muscorum</i>	♂	Profil des Epinotums	
Fig. 97	<i>Leptothorax muscorum</i>	♀	Profil des Petiolus	
Fig. 98	<i>Leptothorax muscorum</i>	♀	Thorax von oben	
Fig. 99	<i>Leptothorax muscorum</i>	♀	Würzburg von der Seite	
Fig. 100	<i>Leptothorax muscorum</i>	♂	Vorderbein	
Fig. 101	<i>Leptothorax muscorum</i>	♀	Würzburg, Kopf von vorn	
Fig. 102	<i>Leptothorax muscorum</i>	♂	Kopf von vorn	
Fig. 103	<i>Leptothorax muscorum</i>	♀	Profil des Stielchens	
Fig. 104	<i>Leptothorax goesswaldi</i>	♂	Bellwald, von der Seite	
Fig. 105	<i>Leptothorax goesswaldi</i>	♂	Kopf von vorn	
Fig. 106	<i>Leptothorax goesswaldi</i>	♂	Subgenitalplatte	
Fig. 107	<i>Leptothorax goesswaldi</i>	♂	Genitalapparat	

Fig. 108 <i>Leptothorax goesswaldi</i>	♀ Saas-Fee
Fig. 109 <i>Leptothorax goesswaldi</i>	♀ Saas-Fee, Stielchenprofil
Fig. 110 <i>Leptothorax gredleri</i>	♀ Würzburg, Profil
Fig. 111 <i>Leptothorax muscorum</i>	♀ Würzburg, Profil
Fig. 112 <i>Leptothorax gredleri</i>	♀ Profil des Epinotums
Fig. 113 <i>Leptothorax gredleri</i>	♂ Profil des Stielchens
Fig. 114 <i>Leptothorax gredleri</i>	♂ Profil des Epinotums
Fig. 115 <i>Leptothorax gredleri</i>	♀ Kopf von vorn
Fig. 116 <i>Leptothorax gredleri</i>	♂ Kopf von vorn
Fig. 117 <i>Leptothorax buschingeri</i>	♂ Profil d. Stielchens Holotypus
Fig. 118 <i>Leptothorax buschingeri</i>	♂ Paratypus I
Fig. 119 <i>Leptothorax buschingeri</i>	♂ Paratypus II
Fig. 120 <i>Leptothorax buschingeri</i>	♂ Profil
Fig. 121 <i>Leptothorax kutteri</i>	♂
Fig. 122 <i>Leptothorax kutteri</i>	♂ Profil von Epinotum und Stielchen
Fig. 123 <i>Leptothorax kutteri</i>	♂ Geschlechtsapparat
Fig. 124 <i>Leptothorax kutteri</i>	♂ Vorderflügel
Fig. 125 <i>Leptothorax flavicornis</i>	♀ San Nazzaro TI
Fig. 126 <i>Leptothorax flavicornis</i>	♂
Fig. 127 <i>Leptothorax flavicornis</i>	♂ Kopf von vorn
Fig. 128 <i>Leptothorax flavicornis</i>	♂ Fühler
Fig. 129 <i>Leptothorax flavicornis</i>	♂ Flügelpaar
Fig. 130 <i>Leptothorax flavicornis</i>	♀ Profil des Stielchens
Fig. 131 <i>Leptothorax flavicornis</i>	
Fig. 132 <i>Leptothorax flavicornis</i>	♀ Fühler
Fig. 133 <i>Leptothorax flavicornis</i>	♀ Vorderflügel
Fig. 134 <i>Leptothorax affinis</i>	♀
Fig. 135 <i>Leptothorax affinis</i>	♀
Fig. 136 <i>Leptothorax affinis</i>	♀ Kopf von vorn
Fig. 137 <i>Leptothorax affinis</i>	♀ Epinotaldorn
Fig. 138 <i>Leptothorax nadigi</i>	♀ Chur
Fig. 139 <i>Leptothorax nadigi</i>	♀
Fig. 140 <i>Leptothorax corticalis</i>	♂
Fig. 141 <i>Leptothorax corticalis</i>	♀
Fig. 142 <i>Leptothorax interruptus</i>	♀ Thoraxprofil, Zürichberg
Fig. 143 <i>Leptothorax interruptus</i>	♀ Thoraxprofil, Pfynwald
Fig. 144 <i>Leptothorax interruptus</i>	♀ Thoraxprofil, Chasseral
Fig. 145 <i>Leptothorax interruptus</i>	♀ Thoraxprofil, Pfynwald
Fig. 146 <i>Leptothorax interruptus</i>	♀ Thoraxprofil, Würzburg
Fig. 147 <i>Leptothorax interruptus</i>	♂ Thoraxprofil
Fig. 148 <i>Leptothorax luteus</i>	♀ Profil
Fig. 149 <i>Leptothorax luteus</i>	♀ Epinotum und Stielchen im Profil
Fig. 150 <i>Leptothorax luteus</i>	♀ Kopf von vorn

Fig. 151 <i>Leptothorax luteus</i>	♀ Fühler
Fig. 152 <i>Leptothorax luteus</i>	♀ Epinotaldornen von oben
Fig. 153 <i>Leptothorax nylanderi</i>	♀ Bözingen, Thoraxprofil
Fig. 154 <i>Leptothorax parvulus</i>	♀ Pfynwald, Thoraxprofil
Fig. 155 <i>Leptothorax nylanderi</i>	♀ Thoraxprofil
Fig. 156 <i>Leptothorax parvulus</i>	♀ Pfynwald
Fig. 157 <i>Leptothorax nylanderi</i>	♀ Bözingen, Kopf von vorn
Fig. 158 <i>Leptothorax parvulus</i>	♀ Pfynwald, Thoraxprofil
Fig. 159 <i>Leptothorax parvulus</i>	♀ Saas-Fee, Thoraxprofil
Fig. 160 <i>Leptothorax parvulus</i>	♀ Pfynwald, Kopf von vorn
Fig. 161 <i>Leptothorax racovitzai</i>	♀ Kopf von vorn
Fig. 162 <i>Leptothorax racovitzai</i>	♀ Thorax im Profil
Fig. 163 <i>Leptothorax racovitzai</i>	♀ Epinotaldornen von oben
Fig. 164 <i>Leptothorax racovitzai</i>	♂ Soussillon VS, Thorax im Profil
Fig. 165 <i>Leptothorax racovitzai</i>	♂ Kopf von vorn
Fig. 166 <i>Leptothorax racovitzai</i>	♂ Fühler
Fig. 167 <i>Leptothorax unifasciatus</i>	♂ Mesocco, Profil
Fig. 168 <i>Leptothorax unifasciatus</i>	♀ Alpe Cardada, von oben
Fig. 169 <i>Leptothorax unifasciatus</i>	♀ Alpe Cardada, Stielchen im Profil
Fig. 170 <i>Leptothorax unifasciatus</i>	♀ Thorax im Profil
Fig. 171 <i>Leptothorax unifasciatus</i>	Vorderflügel
Fig. 172 <i>Leptothorax unifasciatus</i>	♂ Fühler
Fig. 173 <i>Leptothorax tuberum</i>	♂ Thorax im Profil
Fig. 174 <i>Leptothorax tuberum</i>	♂ Kopf von vorn, Zermatt
Fig. 175 <i>Leptothorax tuberum</i>	♀ im Profil, Pfynwald
Fig. 176 <i>Leptothorax tuberum</i>	♀ im Profil, Saas-Fee
Fig. 177 <i>Leptothorax tuberum</i>	♀ Kopf von vorn, Pfynwald
Fig. 178 <i>Leptothorax corticalis</i>	♂ Stielchen im Profil
Fig. 179 <i>Leptothorax nylanderi</i>	♂ Stielchen im Profil
Fig. 180 <i>Leptothorax parvulus</i>	♂ Stielchen im Profil
Fig. 181 <i>Leptothorax unifasciatus</i>	♂ Stielchen im Profil
Fig. 182 <i>Leptothorax tuberum</i>	♂ Stielchen im Profil
Fig. 183 <i>Leptothorax nigriceps</i>	♂ Stielchen im Profil
Fig. 184 <i>Leptothorax interruptus</i>	♂ Stielchen im Profil
Fig. 185 <i>Chalepoxenus siciliensis</i>	♀
Fig. 186 <i>Chalepoxenus muellerianus</i>	♀ von oben
Fig. 187 <i>Chalepoxenus muellerianus</i>	♀ im Profil
Fig. 188 <i>Chalepoxenus siciliensis</i>	♀ im Profil
Fig. 189 <i>Chalepoxenus muellerianus</i>	♂ Stielchen von oben
Fig. 190 <i>Chalepoxenus insubricus</i>	♂ Stielchen von oben
Fig. 191 <i>Chalepoxenus muellerianus</i>	♀ Thoraxprofil
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>Epimyрма stumperi</i>	♀	Profil und Obersicht
Fig. 205 <i>Epimyрма stumperi</i>	♂	Profil und Obersicht
Fig. 206 <i>Epimyрма 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 *Tapinoma* sp ? ♀ St. Luc, im Profil
 Fig. 236 *Tapinoma* sp ? ♀ St. Luc, im Profil
 Fig. 237 *Formicinae* (*Lasius umbratus*) ♂ Clypeus vor den Fühlerwurzeln
 Fig. 238 *Dolichoderinae* (*Tapinoma erraticum*) ♂ Clypeus zwischen den Fühlerwurzeln
 Fig. 239 *Plagiolepis vindobonensis* ♀ Fühlerformeln von a-f (6 Tieren), Bözingerberg
 Fig. 240 *Plagiolepis vindobonensis* ♀ Thorax im Profil und von oben Bellinzona
 Fig. 241 *Plagiolepis vindobonensis* a) vom ♀ Fühler (Mosel leg. v. BOVEN)
 b) vom ♂ Fühler (Mosel leg. v. BOVEN)
 Fig. 242 *Plagiolepis pygmaea* ♀ Fühler, Monte Bré
 Fig. 243 *Plagiolepis pygmaea* ♀ Thorax im Profil und von oben, Brissago
 Fig. 244 *Plagiolepis pygmaea* ♀ Fühlerformeln von 6 Tieren (a-f)
 Fig. 245 Fühler von ♀♀ von
 a) *Lasius fuliginosus*
 b) *Lasius flavus*
 c) *Formica fusca*
 d) *Formica polyctena*
 Fig. 246 *Lasius umbratus* ♂ Schuppe von hinten, Zermatt
 Fig. 247 *Lasius umbratus* ♂ Schuppe von der Seite
 Fig. 248 *Lasius mixtus* ♂ Schuppe von vorn, Männedorf
 Fig. 249 *Lasius mixtus* ♂ Schuppe von der Seite
 Fig. 250 *Lasius rabaudi* ♂ Schuppe von hinten, Tschamutt GR
 Fig. 251 *Lasius rabaudi* ♂ Schuppe von der Seite Tschamutt GR
 Fig. 252 *Lasius flavus* ♂ Schuppe von hinten
 Fig. 253 *Lasius brunneus* ♂ Epinotum und Schuppe von der Seite
 Fig. 254 *Lasius umbratus* ♀ Schuppe von der Seite
 Fig. 255 *Lasius umbratus* ♀ Schuppe von hinten
 Fig. 256 *Lasius rabaudi* ♀ Schuppe von der Seite
 Fig. 257 *Lasius rabaudi* ♀ Schuppe von vorn (?)
 Fig. 258 *Lasius mixtus* ♀ Schuppe von vorn, Flawil
 Fig. 259 *Lasius affinis* ♀ Schuppe von vorn, Triest (leg. FINZI)
 Fig. 260 *Lasius affinis* ♀ Schuppe von der Seite, Triest (leg. FINZI)
 Fig. 261 *Lasius brunneus* ♀ Schuppe von hinten, Moncherant

Fig. 262	<i>Lasius carniolicus</i>	♀	Kopf von vorn, Pfywald	
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*

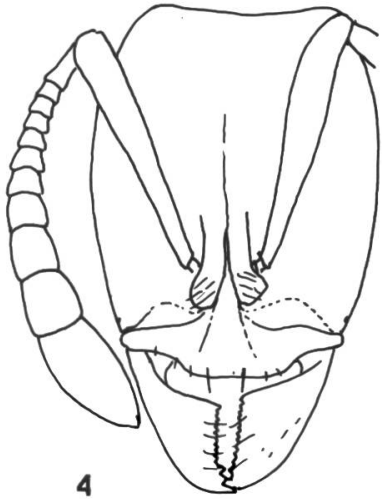
- a) *exsecta*
- b) *forsslundi*
- c) *naefi*
- d) *foreli* (?)
- e) *pressilabris*
- f) *foreli*
- g) *bruni*
- h) *foreli*

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

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

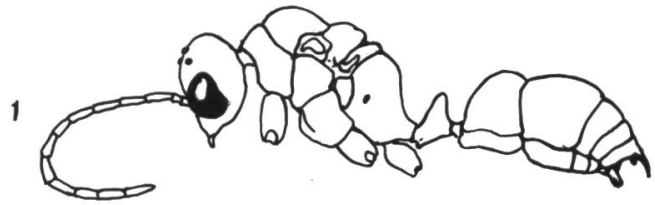
Fig. 361	<i>Coptoformica pressilabris</i>	♀	Schuppenoberrand, Binn	
Fig. 362	<i>Coptoformica pressilabris</i>	♀	Schuppenoberrand, Binn	
Fig. 363	<i>Coptoformica pressilabris</i>	♀	Schuppenoberrand, Binn	
Fig. 364	<i>Coptoformica pressilabris</i>	♀	Schuppenoberrand, Zinal	
Fig. 365	<i>Coptoformica forsslundi</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

31.5



1



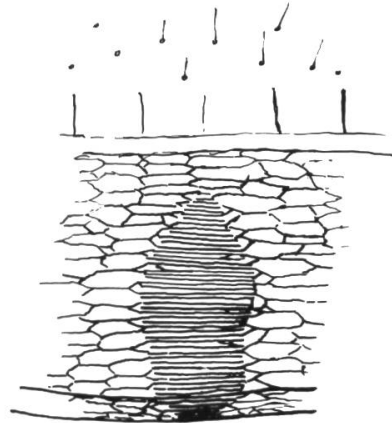
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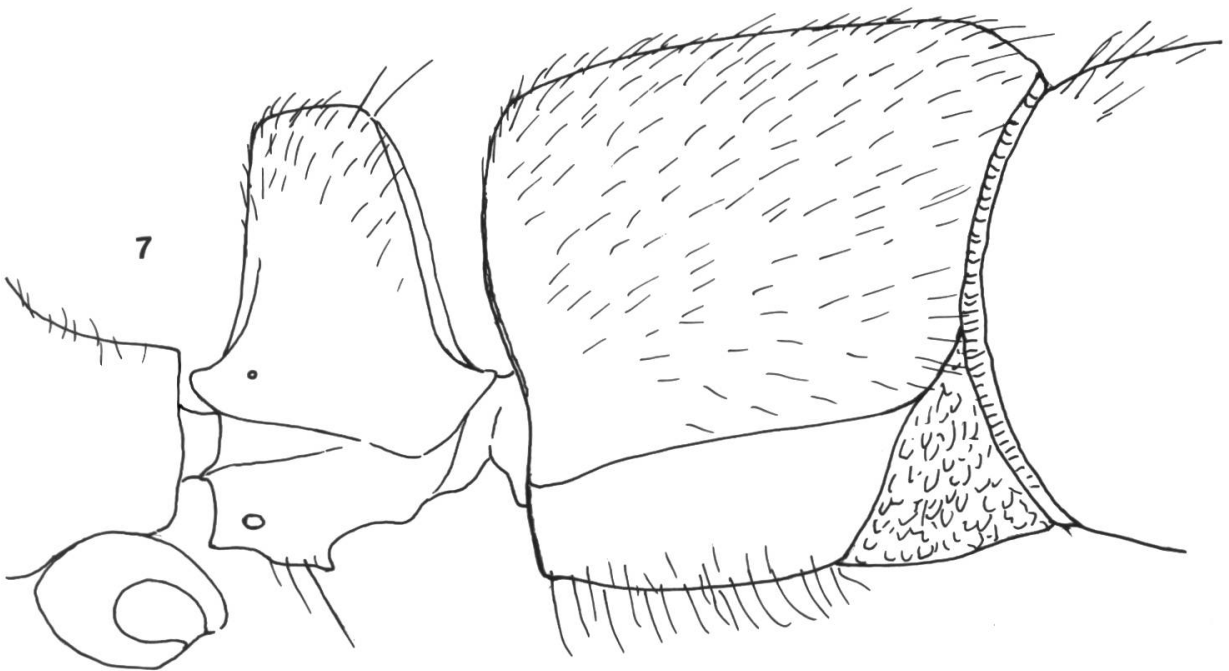
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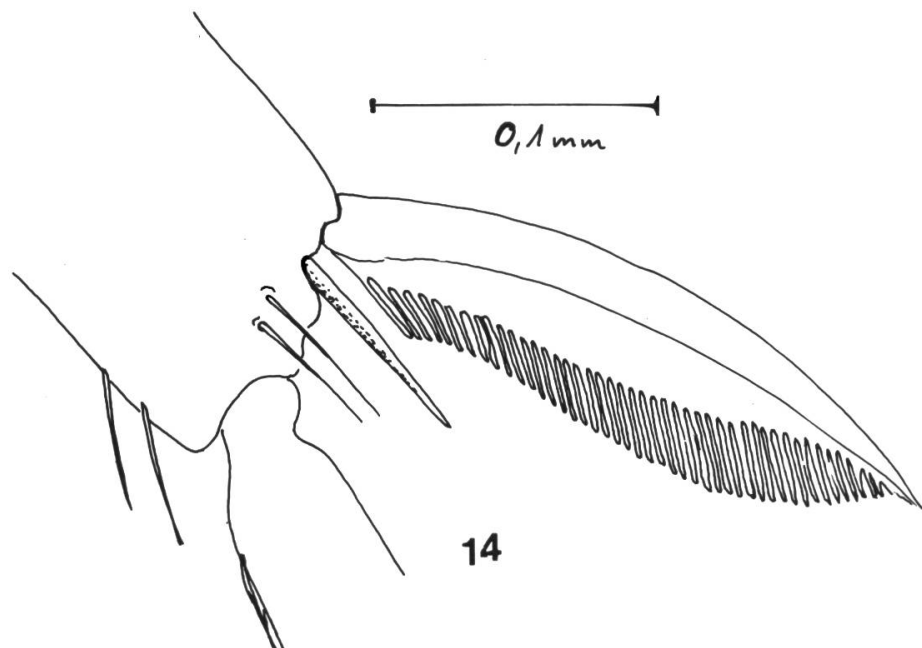
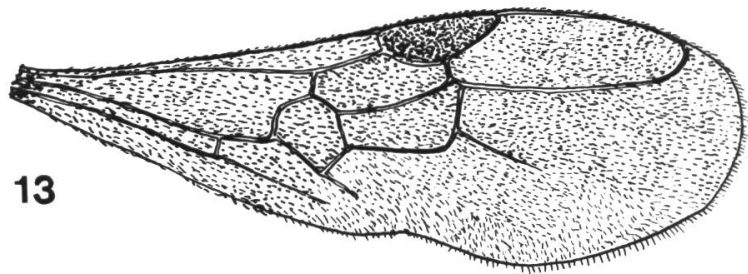
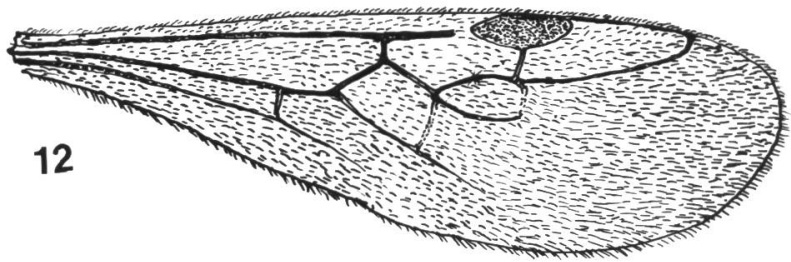
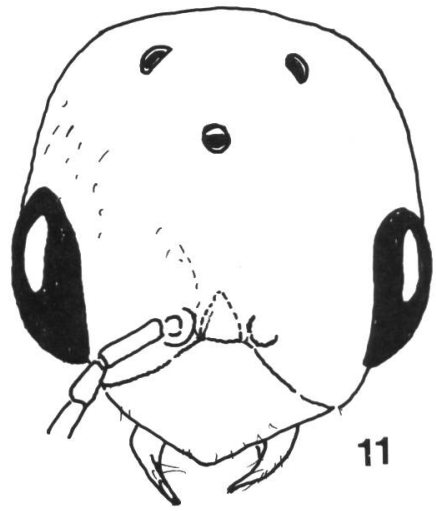
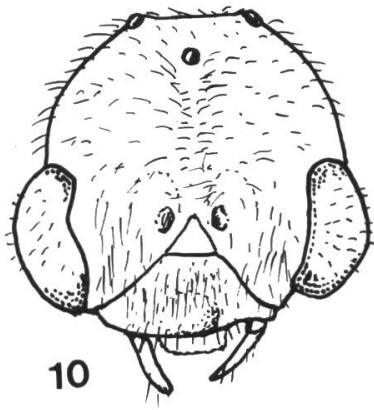
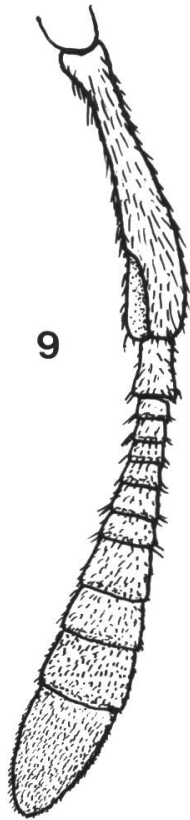
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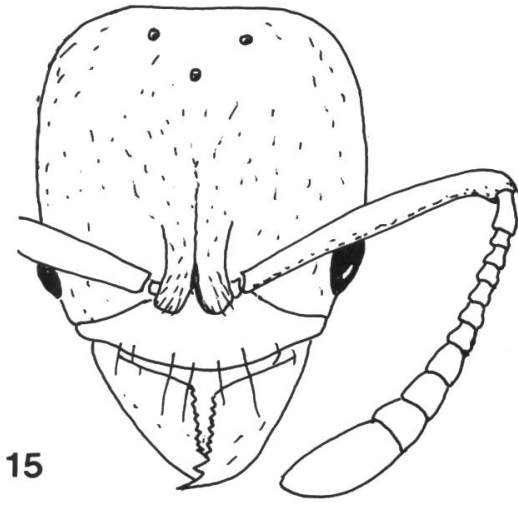
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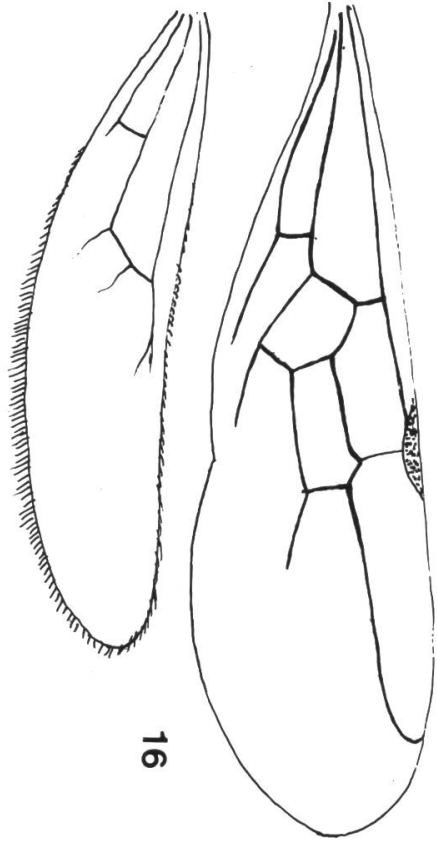
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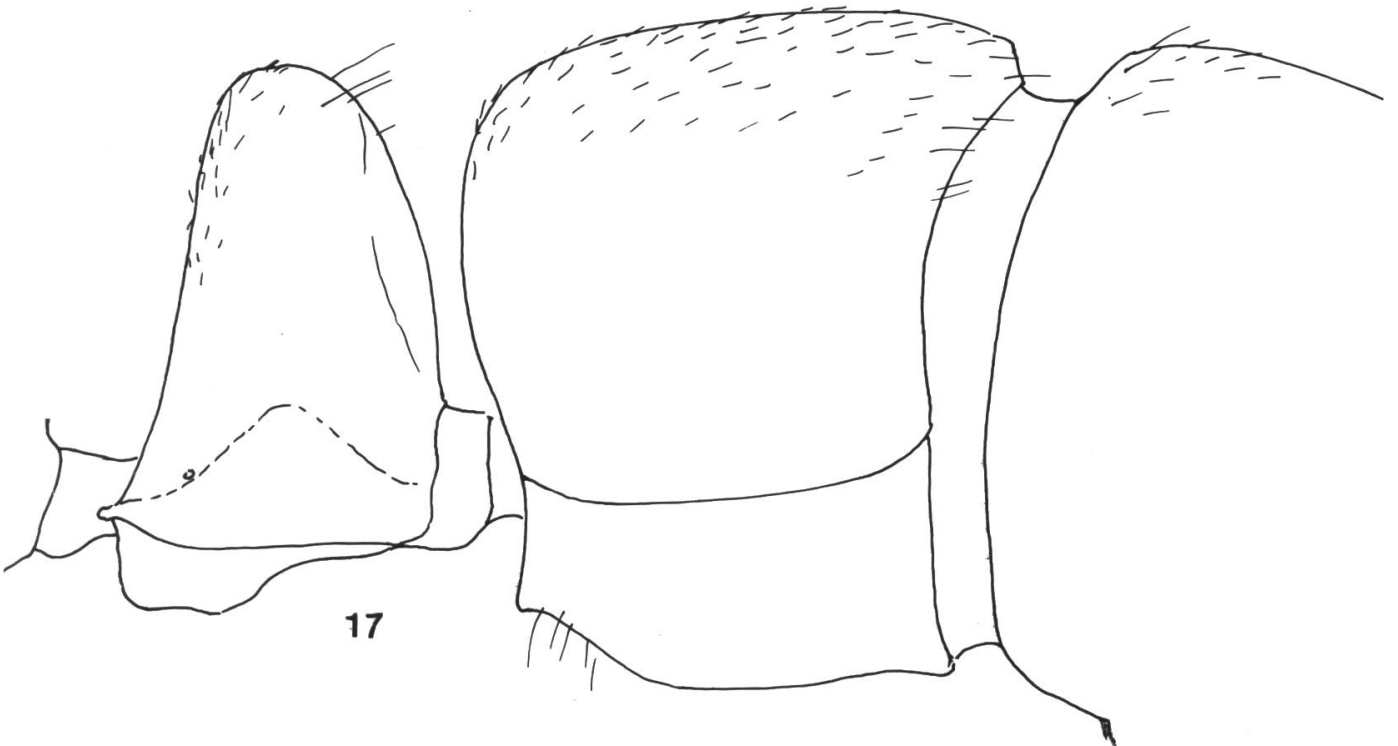
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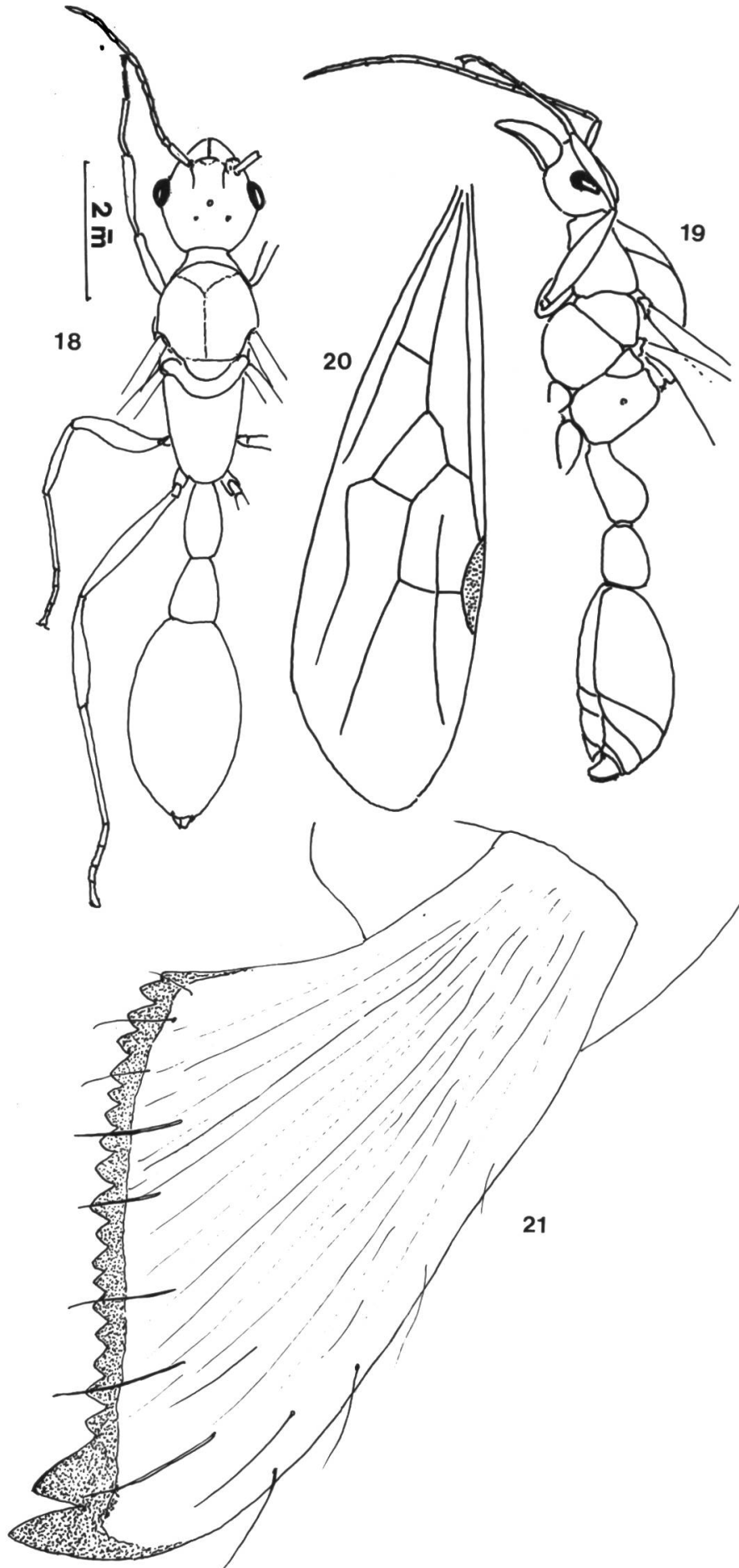
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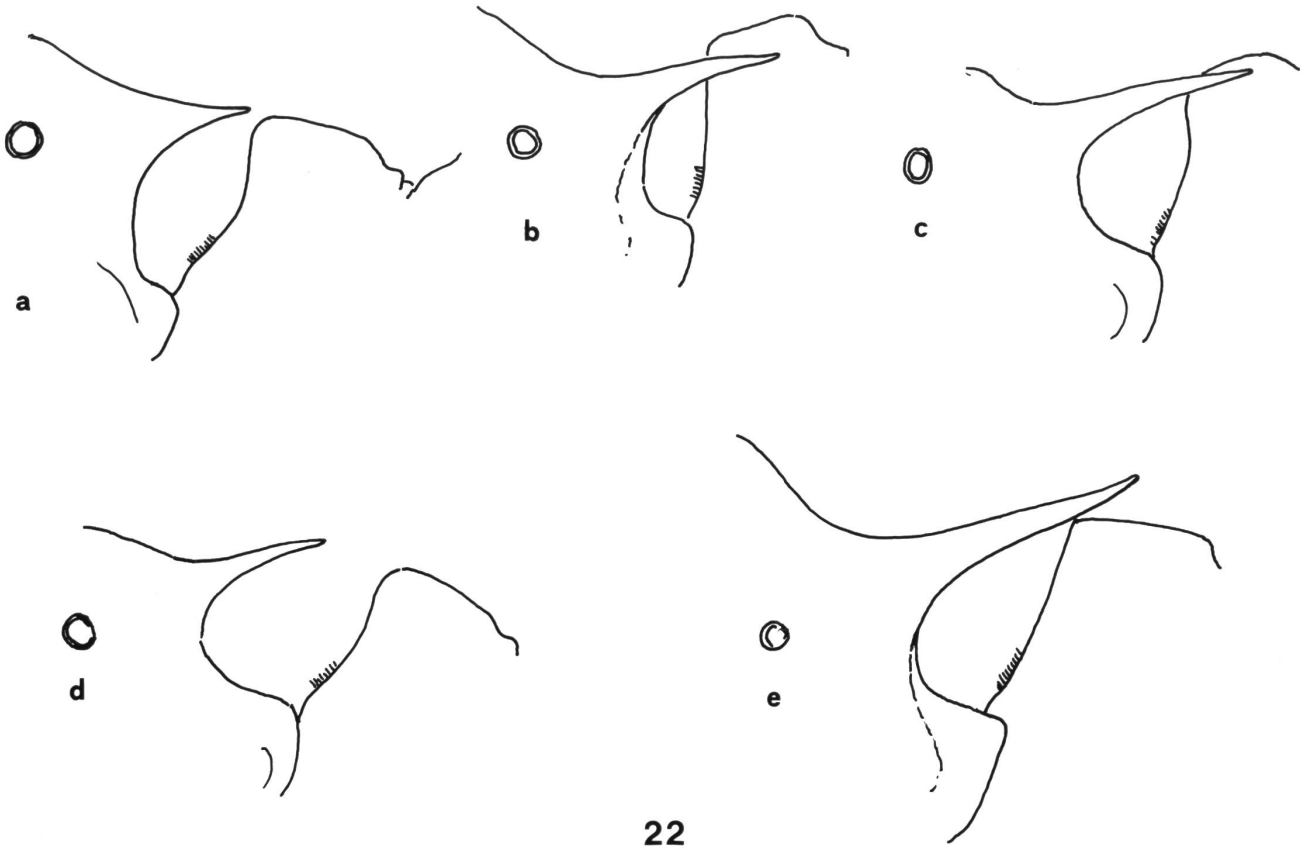


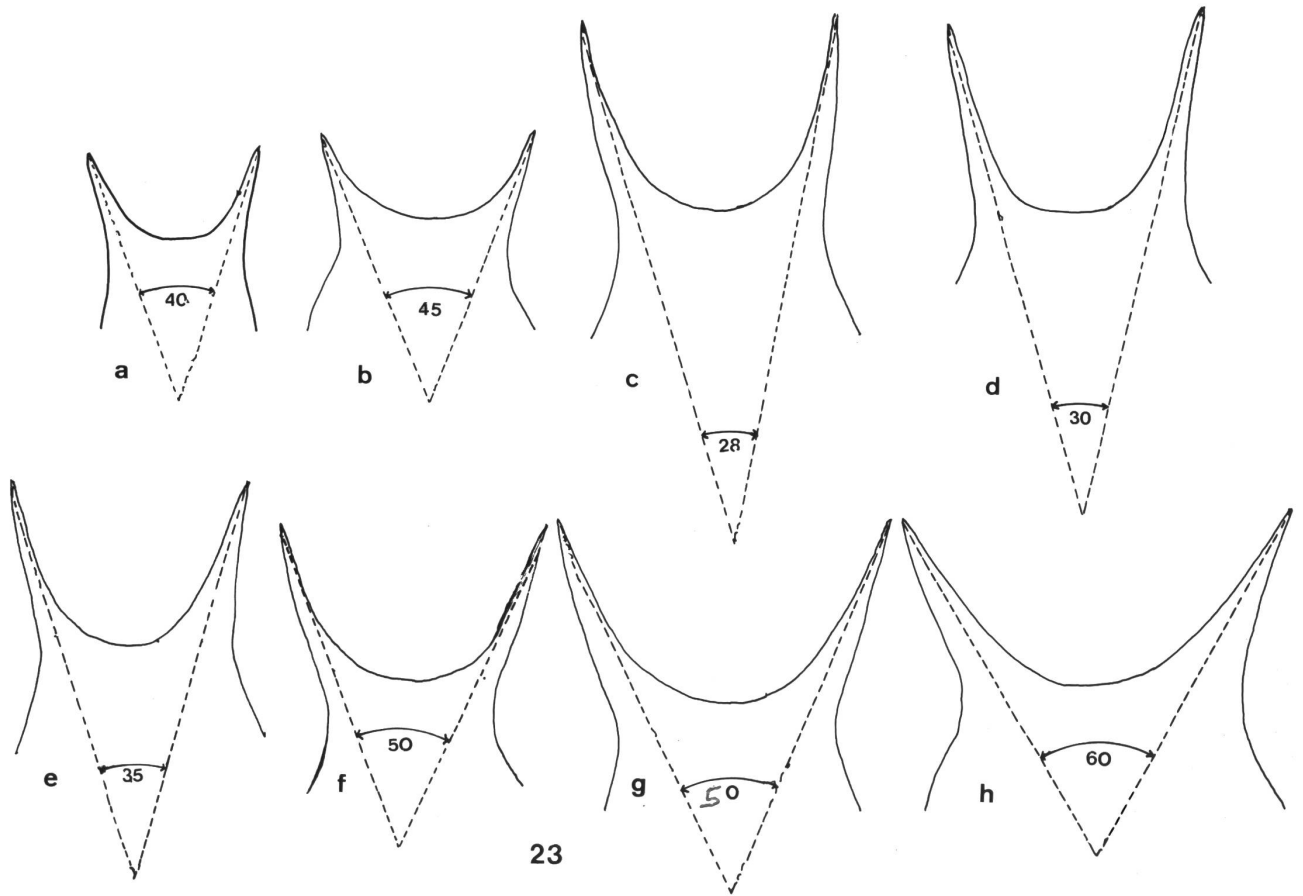
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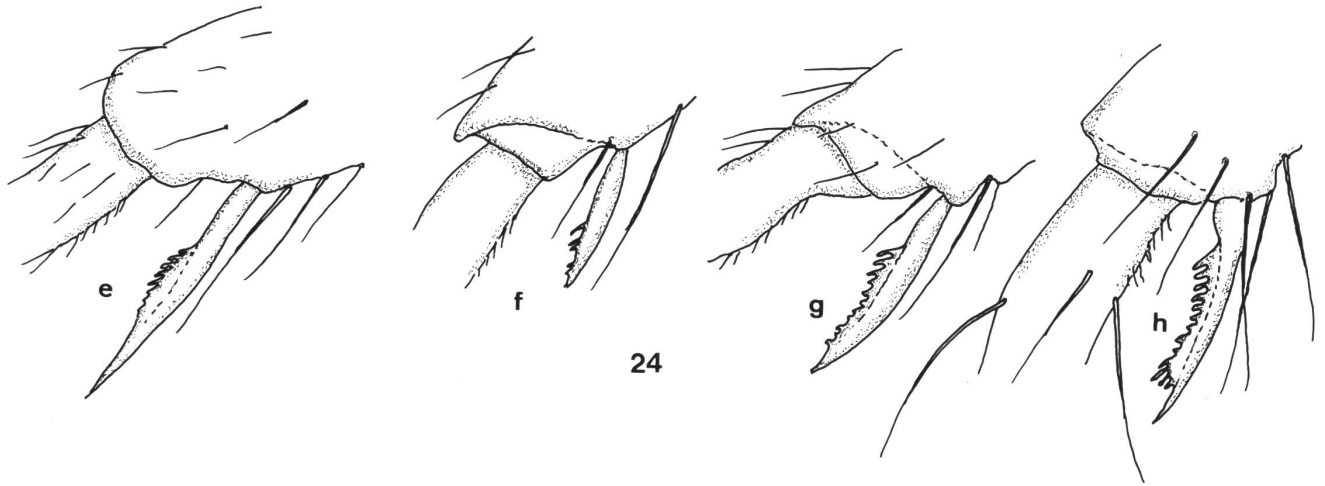
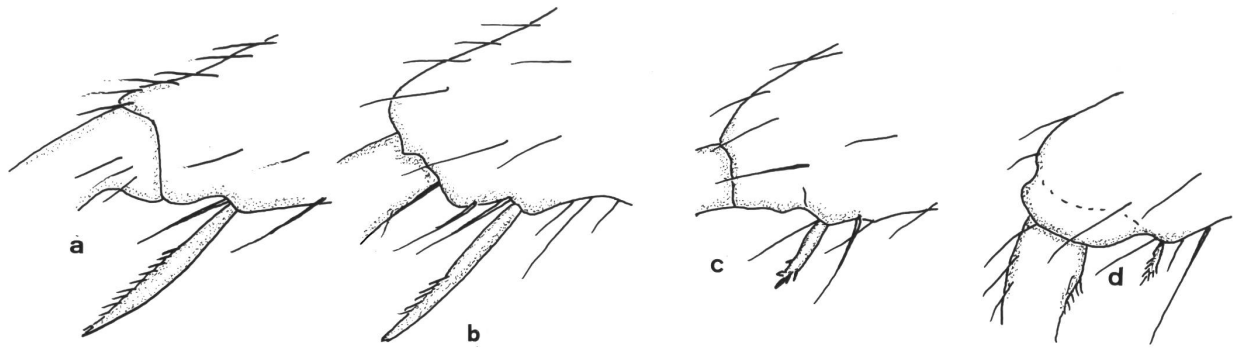


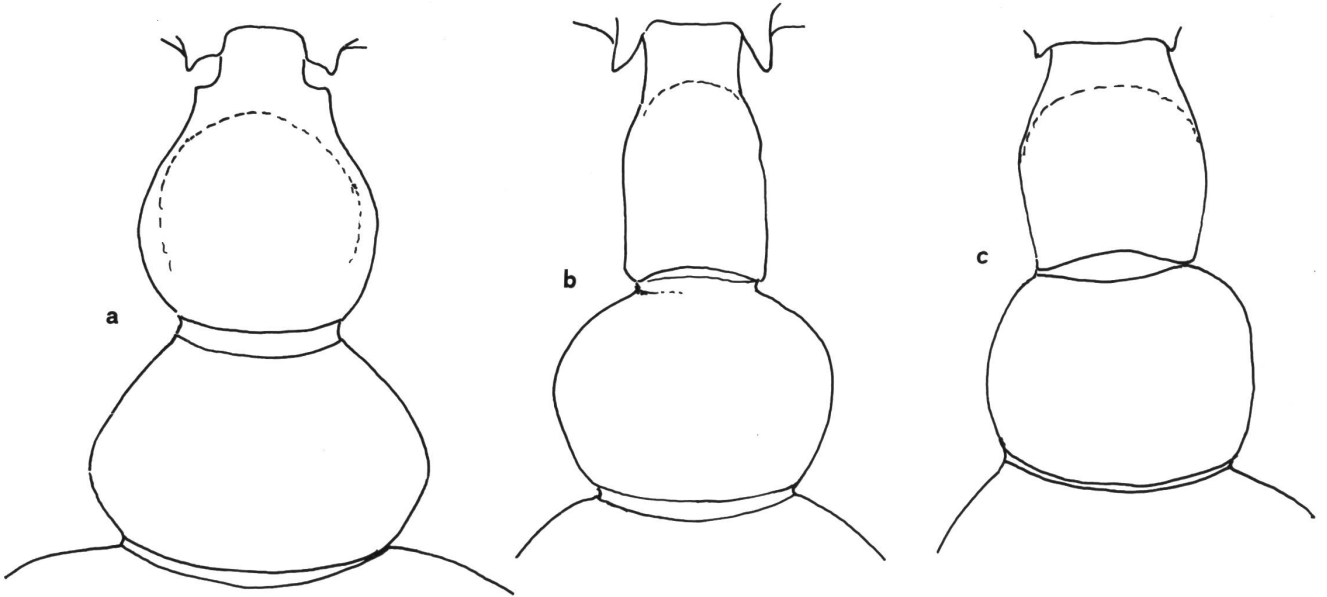
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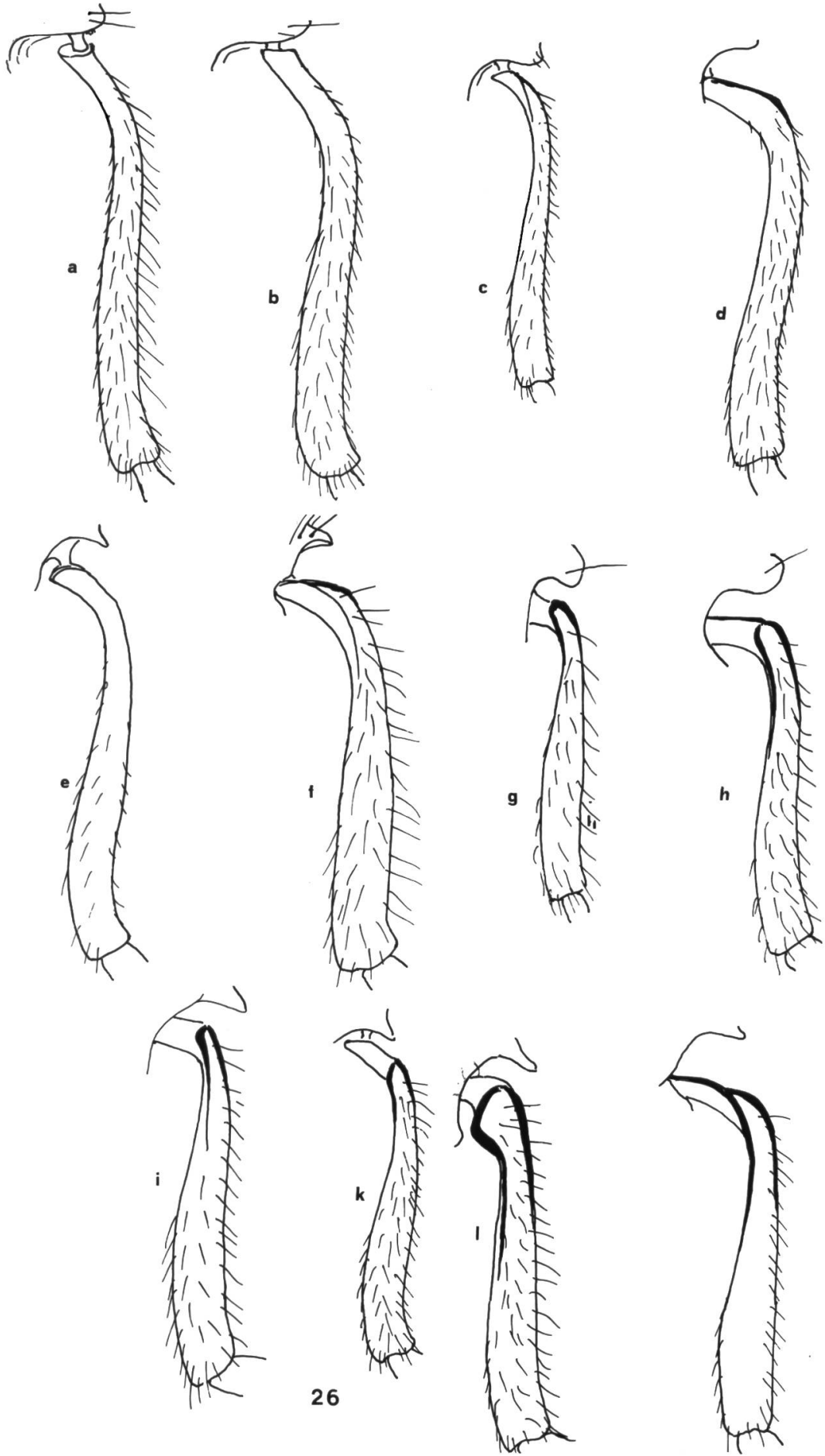


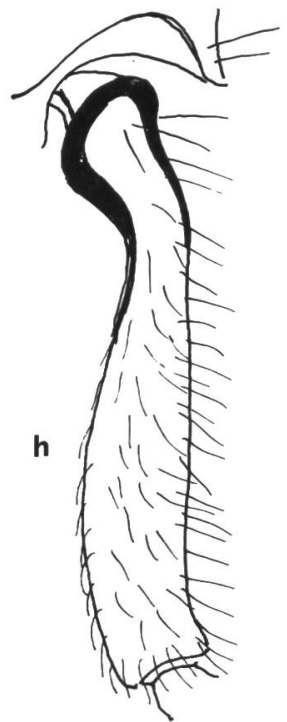
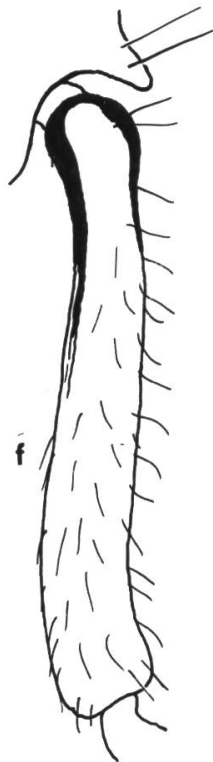
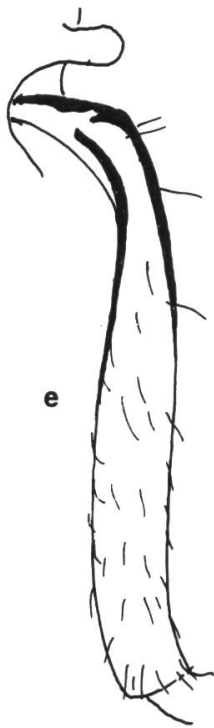
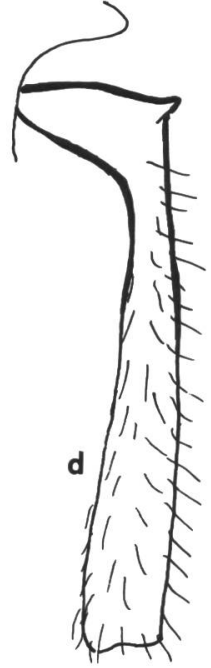
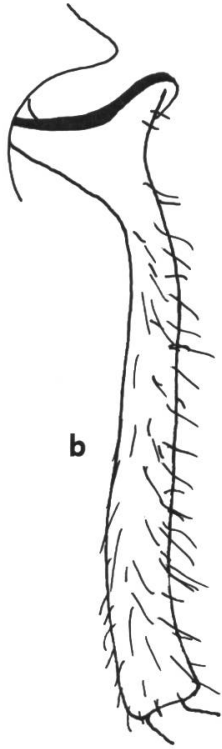
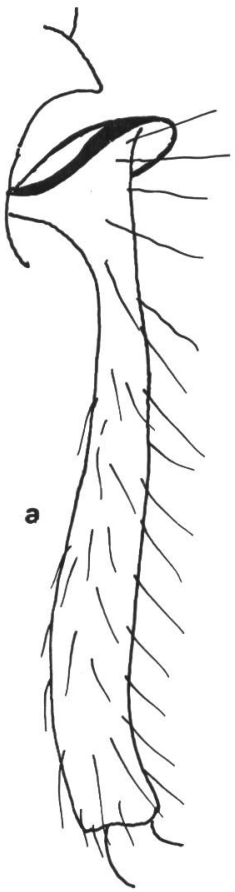


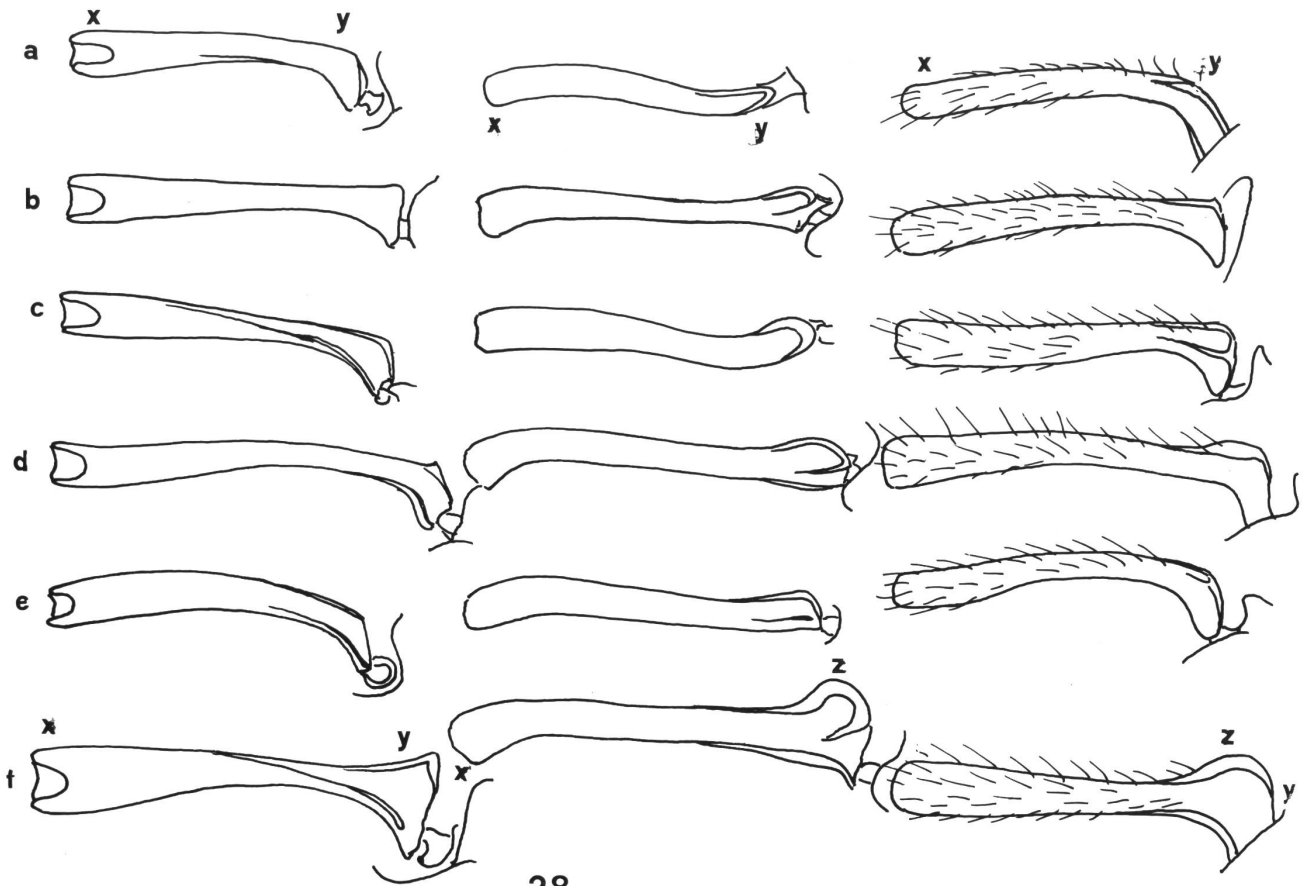


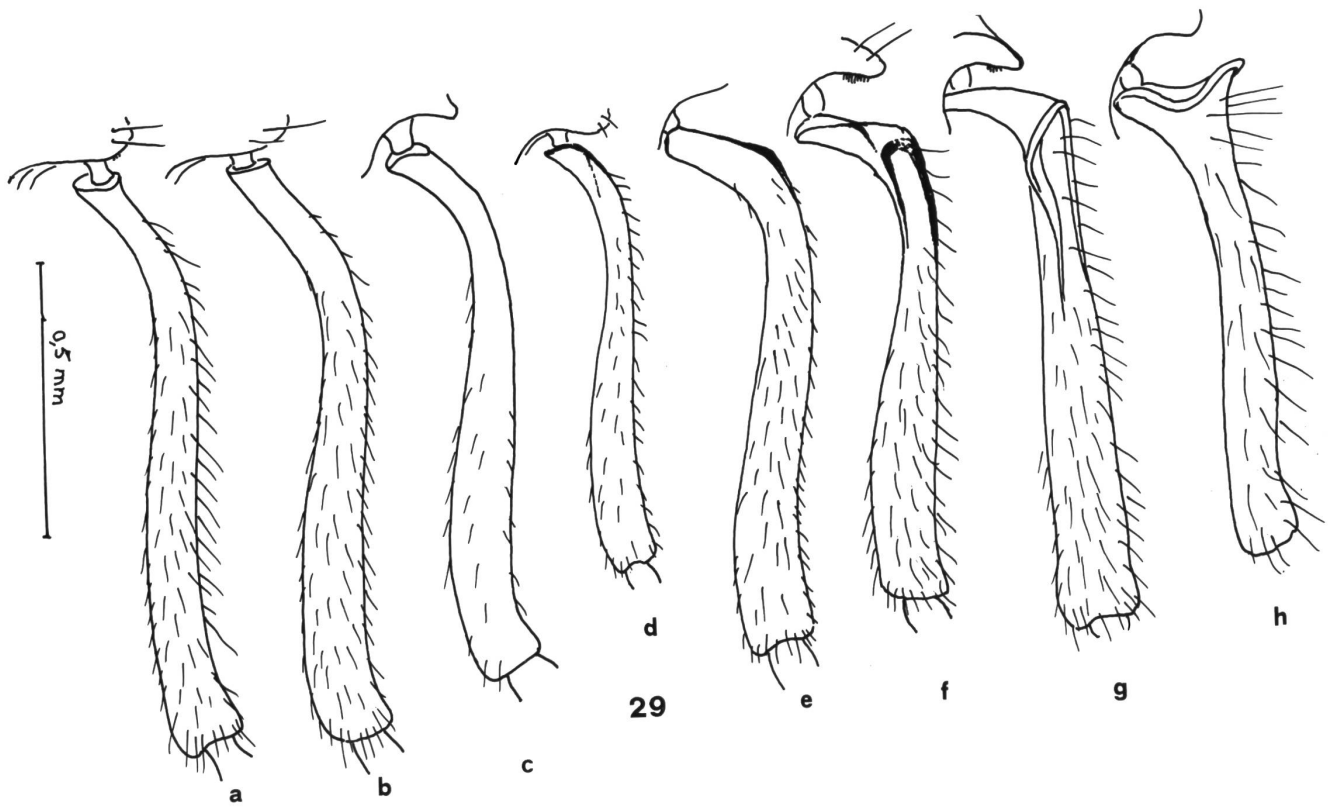


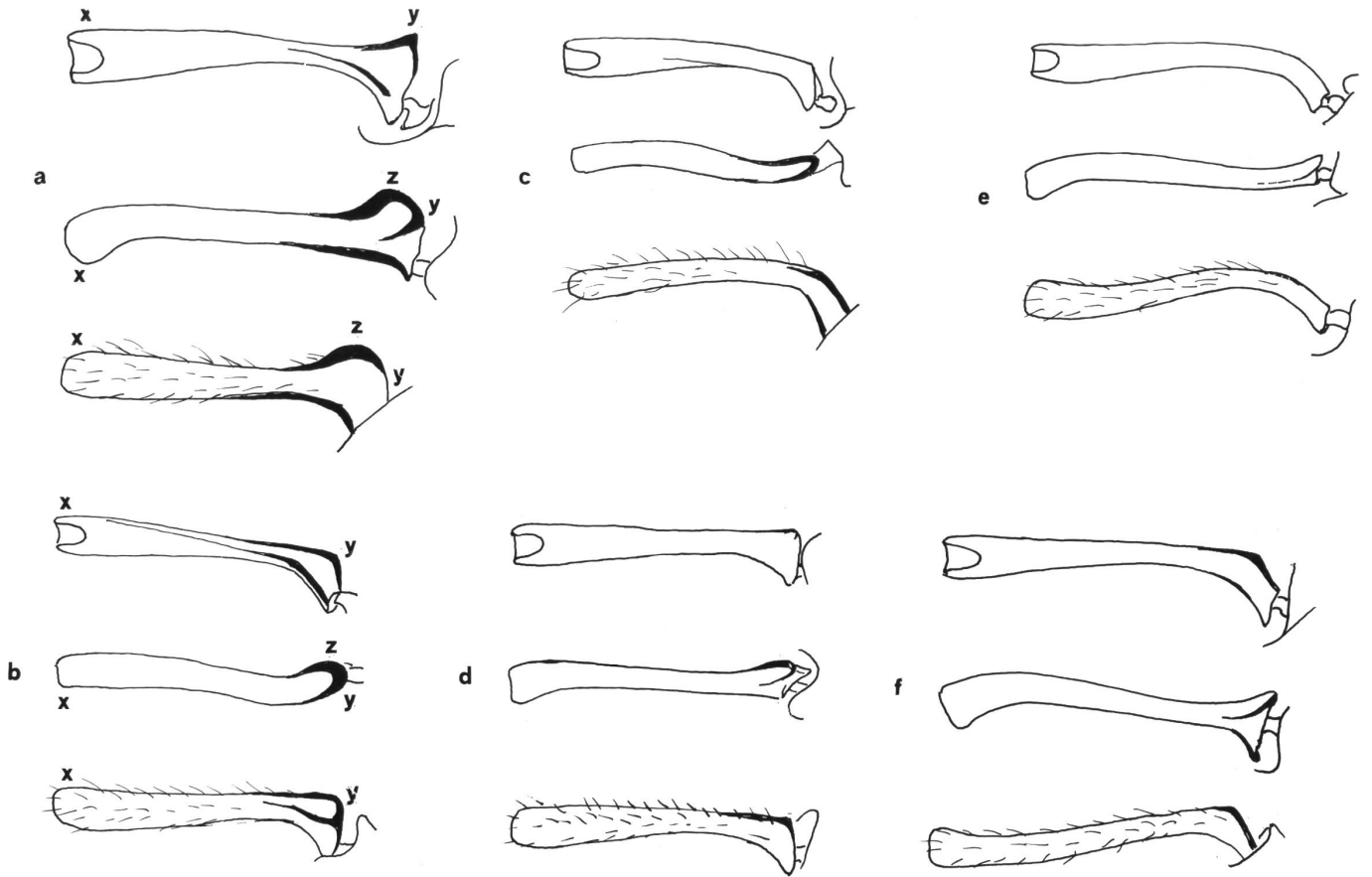


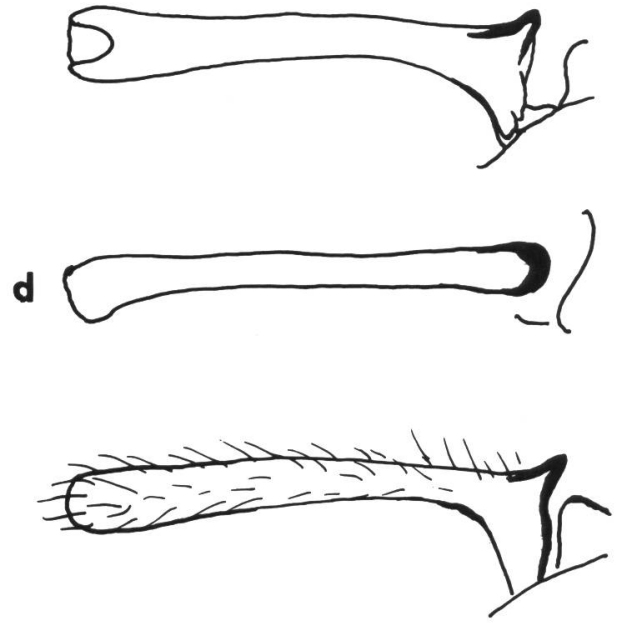
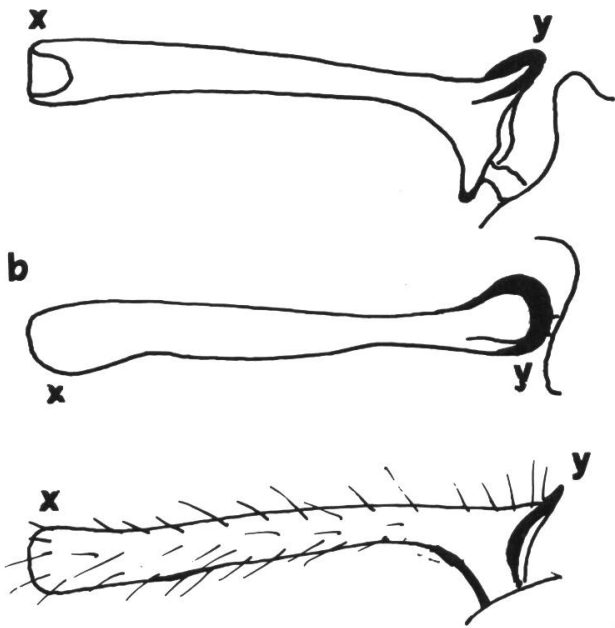
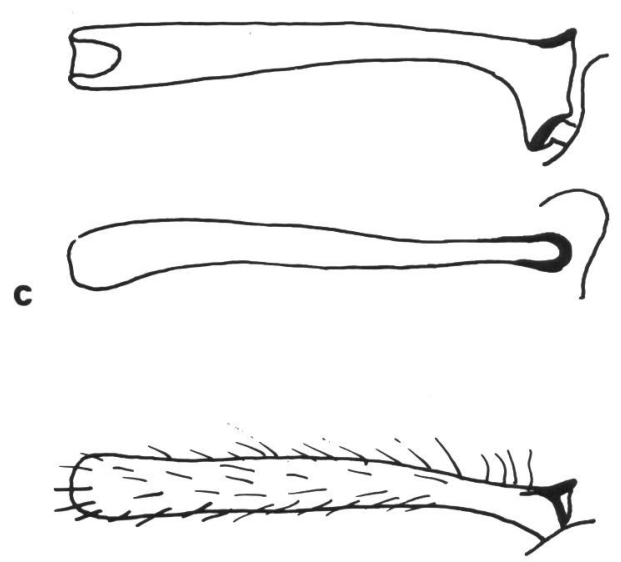
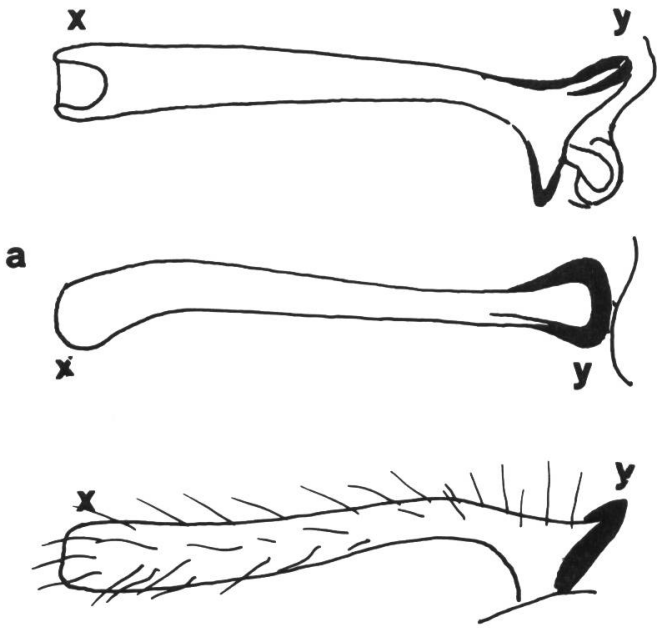


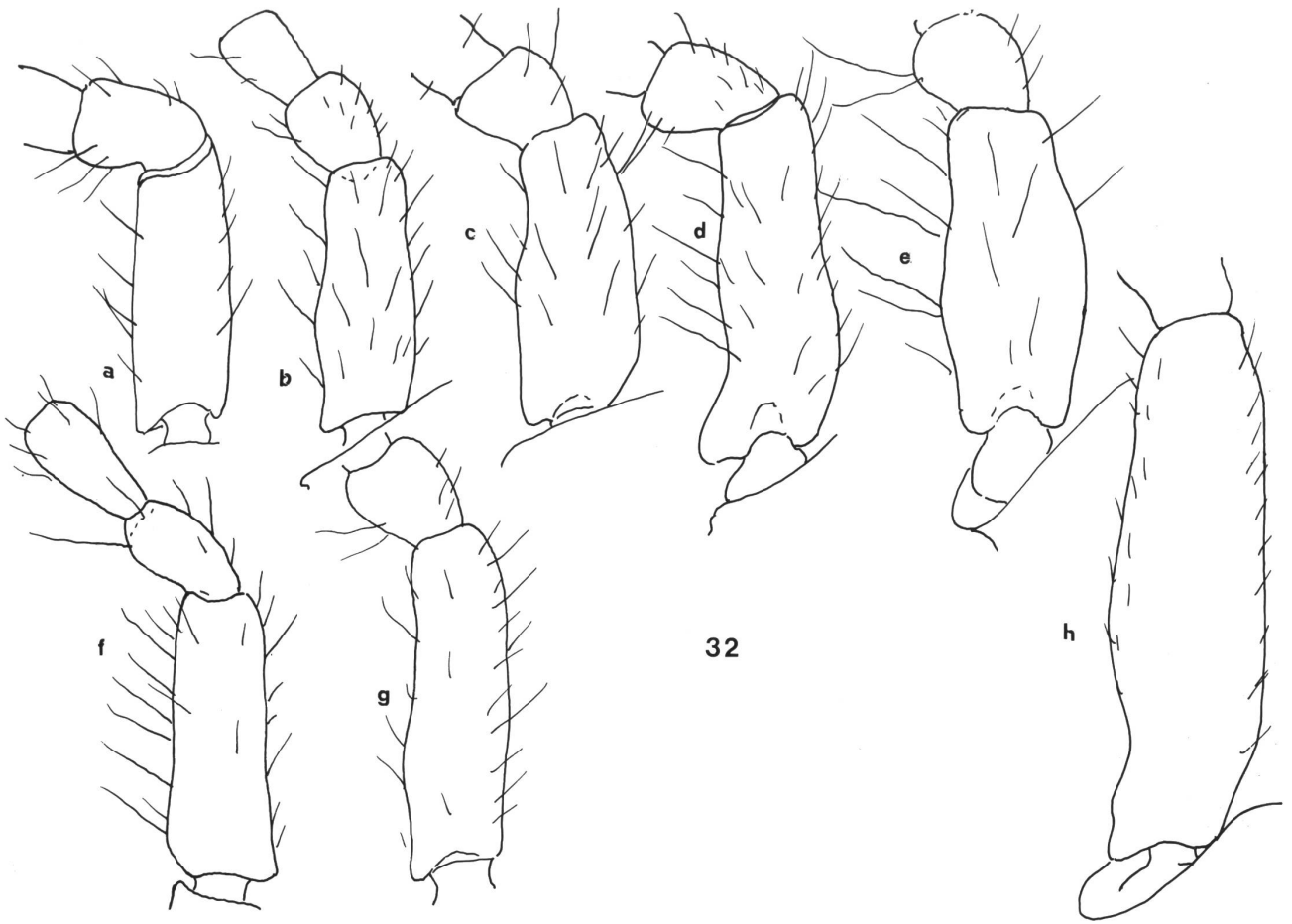


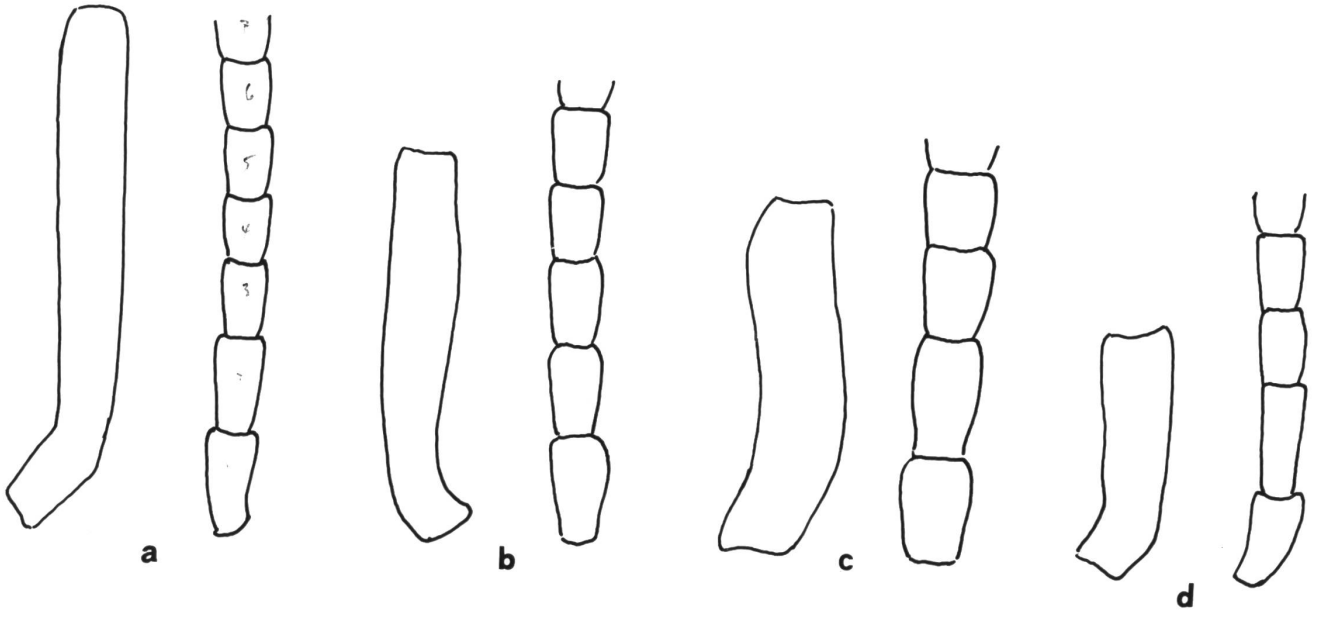


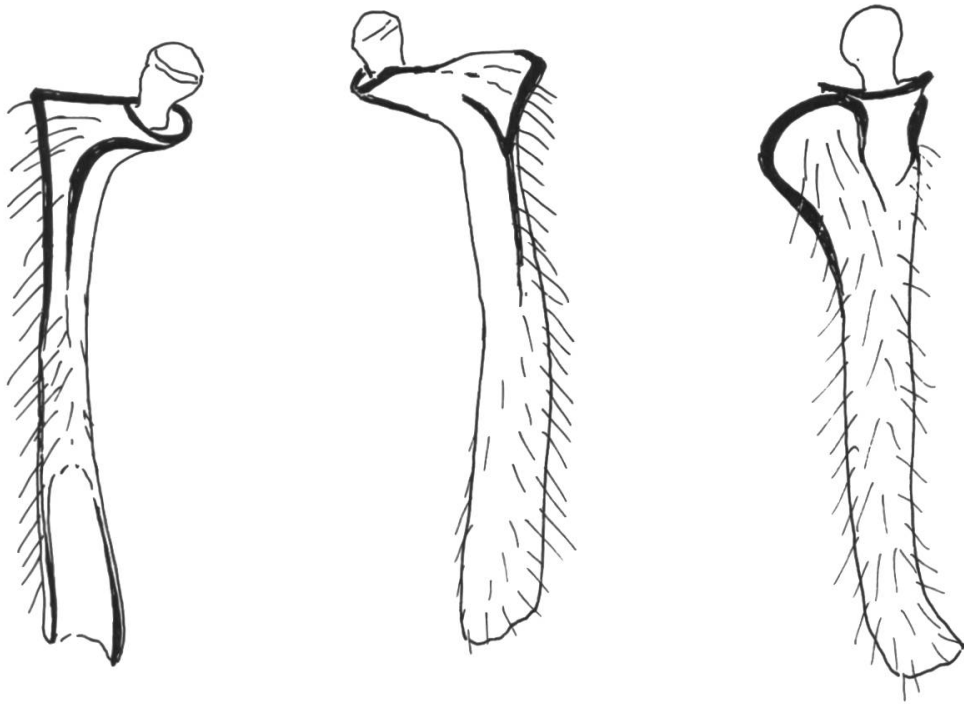




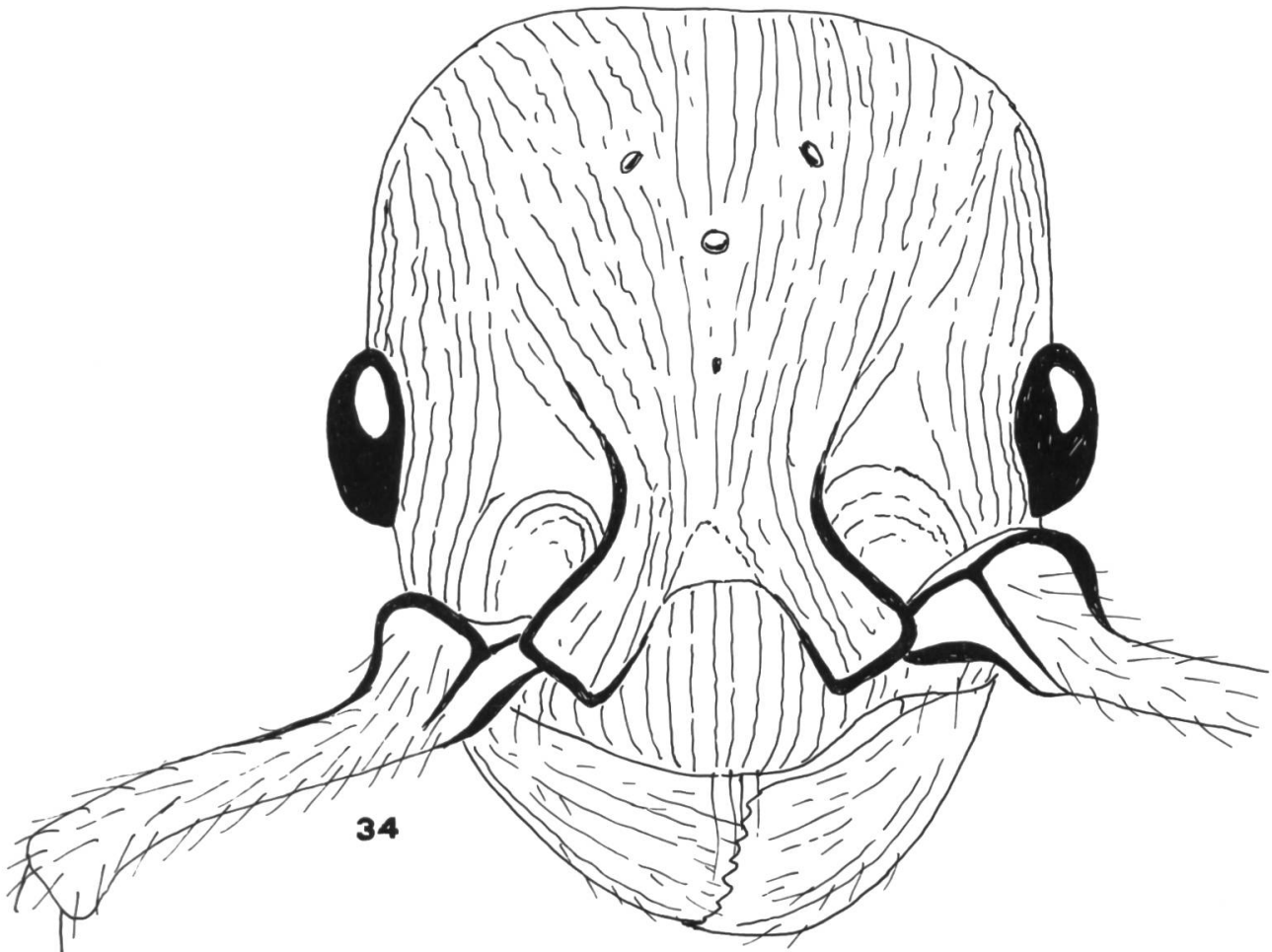




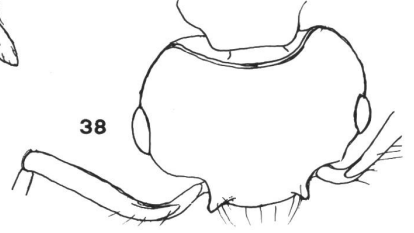
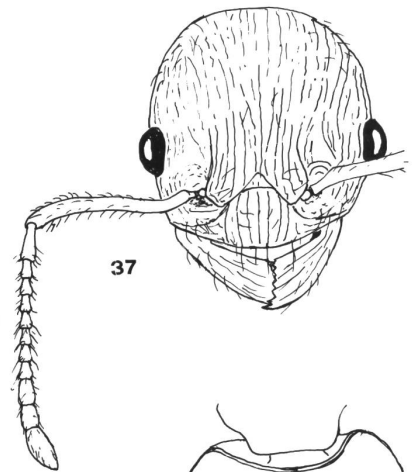
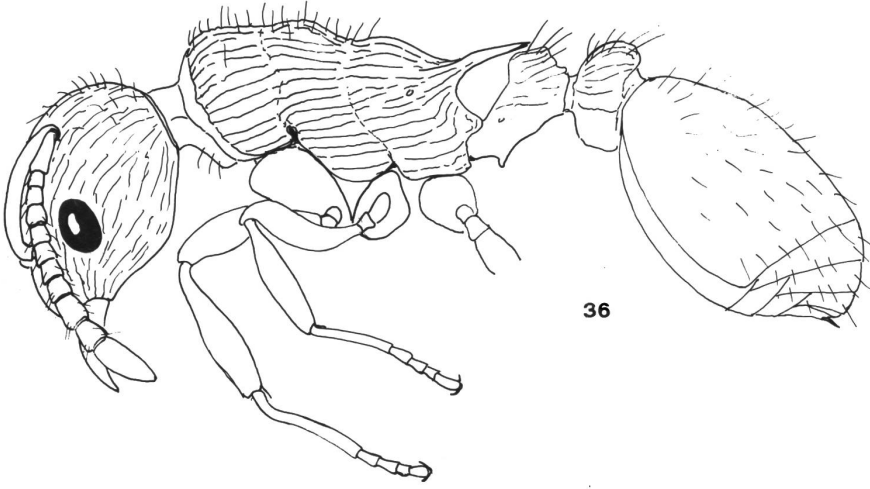


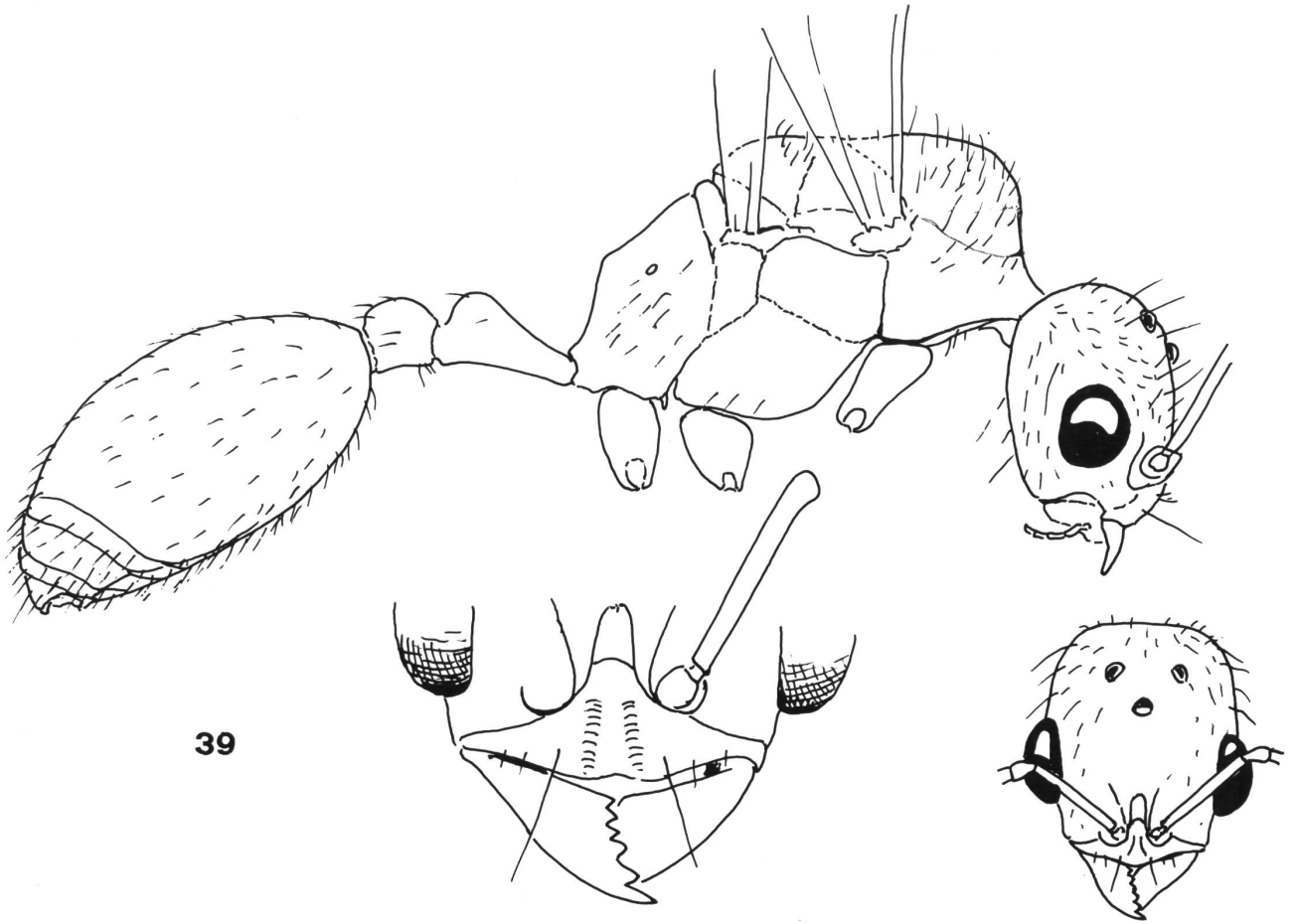


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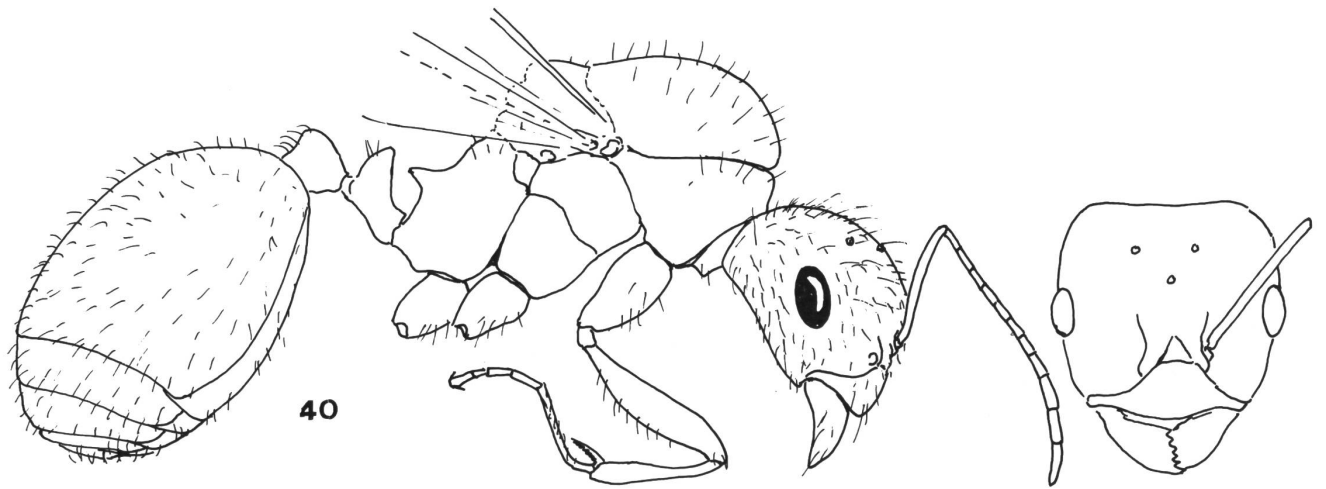


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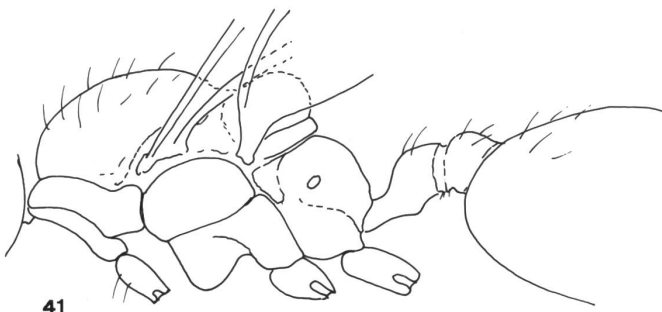




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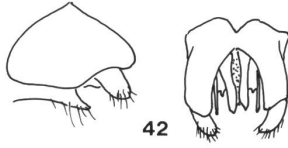


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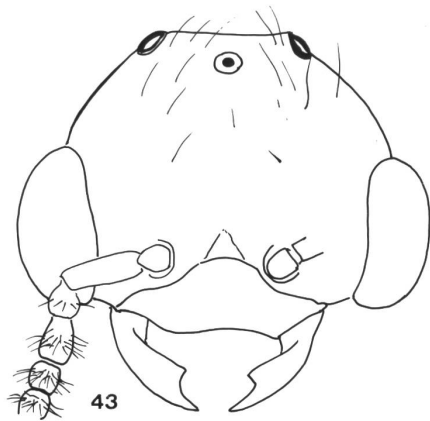


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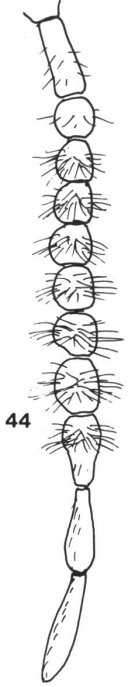
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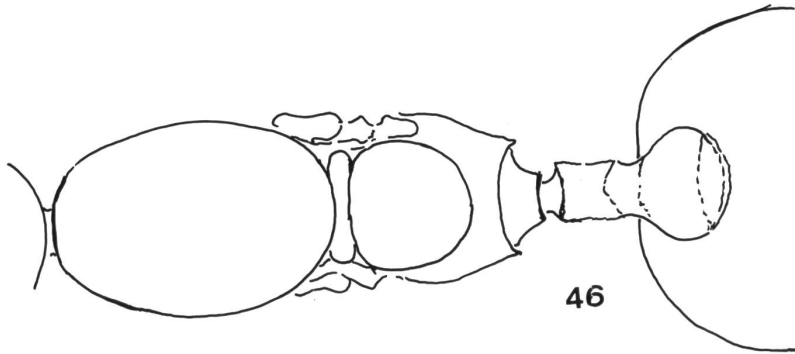
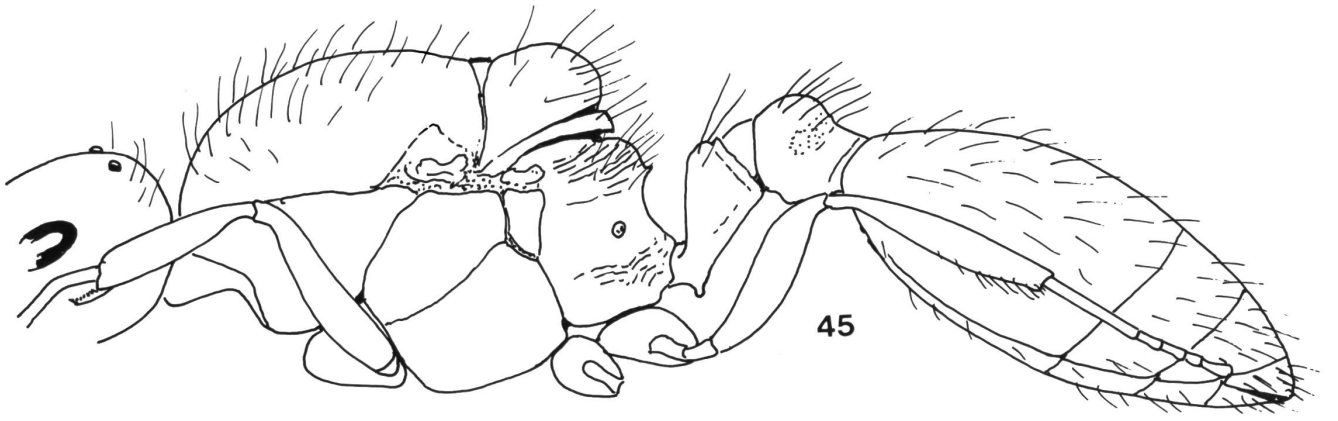
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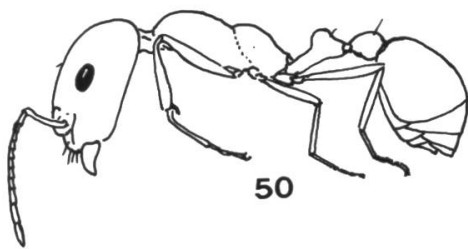
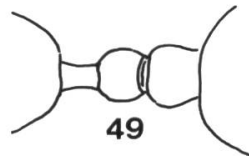
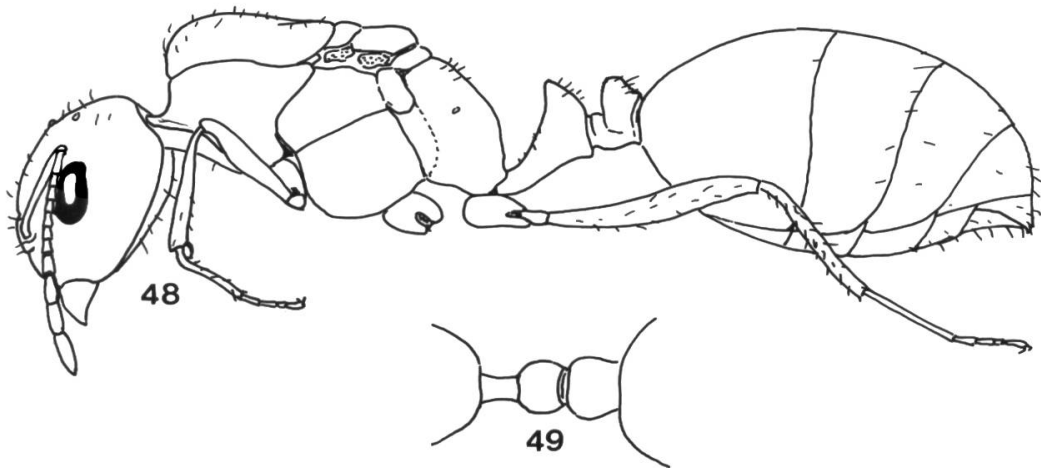
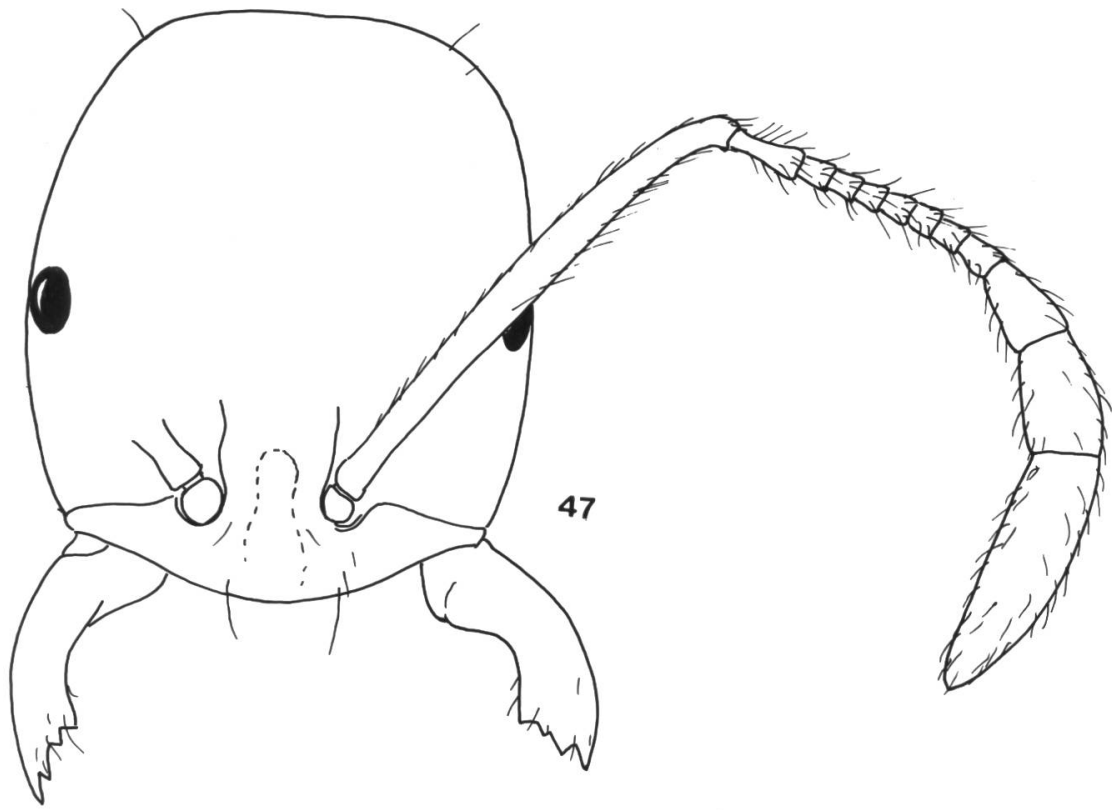


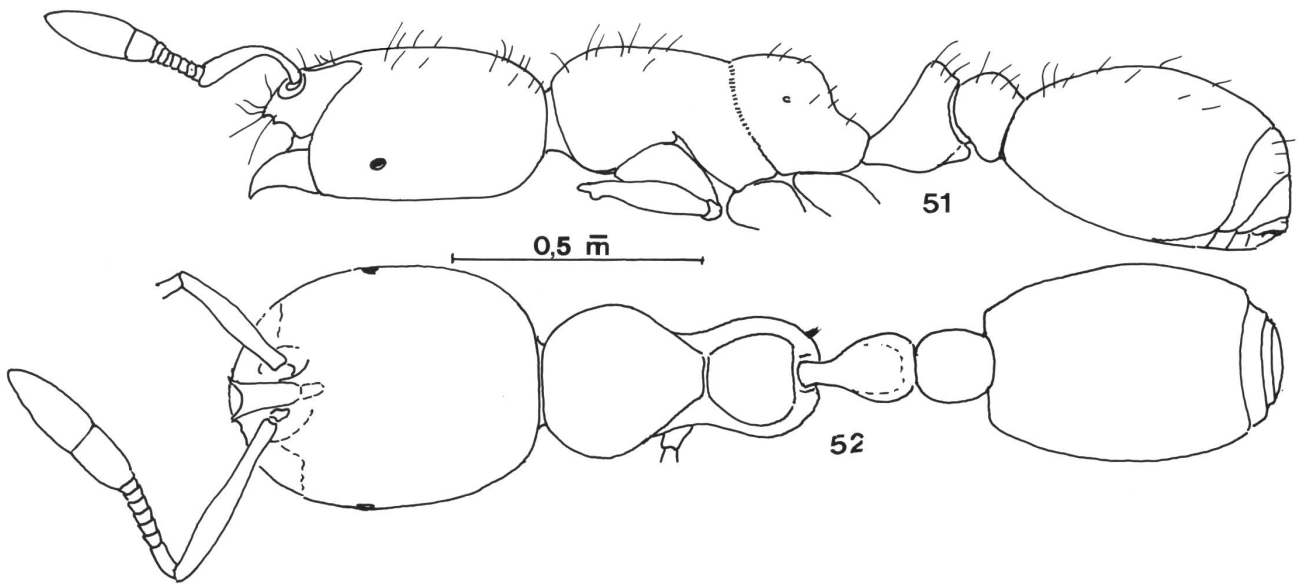
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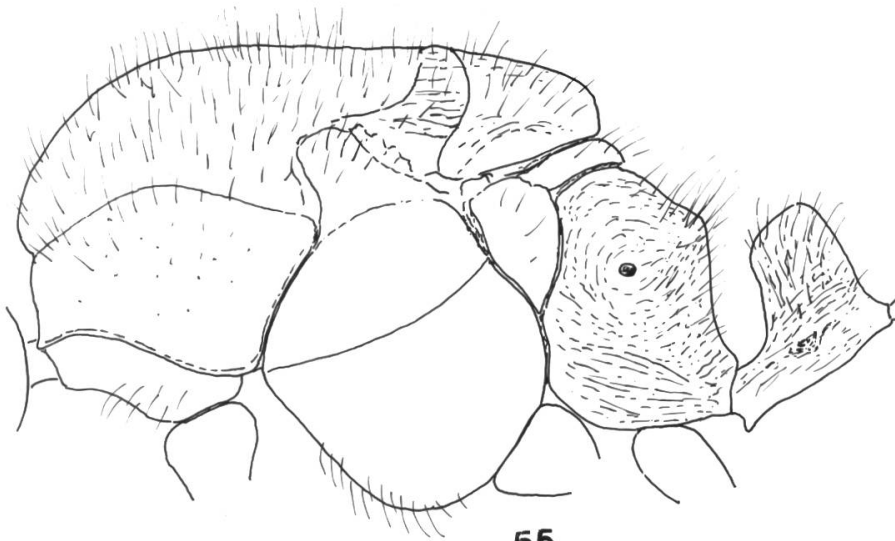
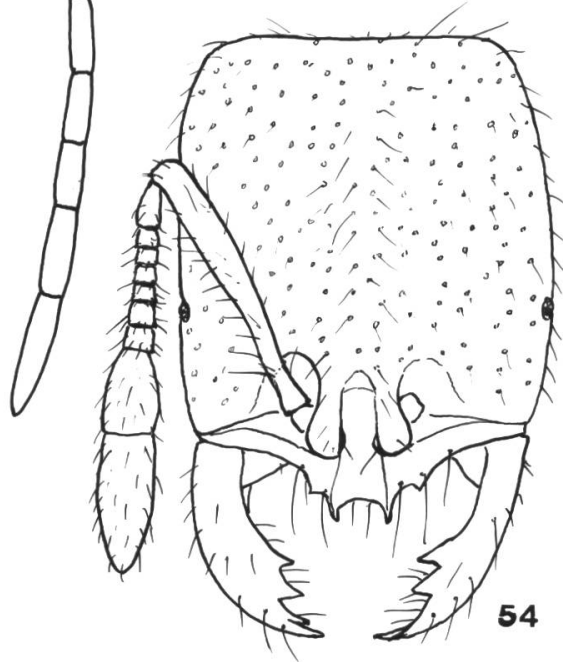
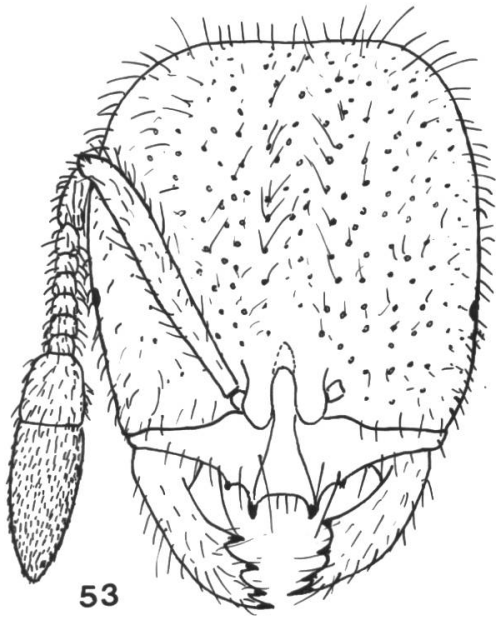
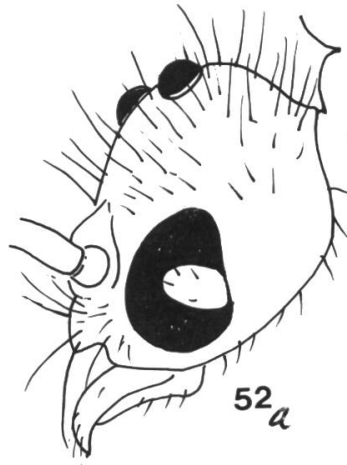
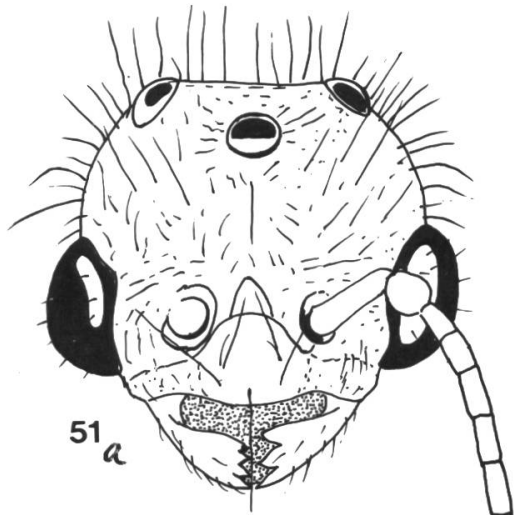


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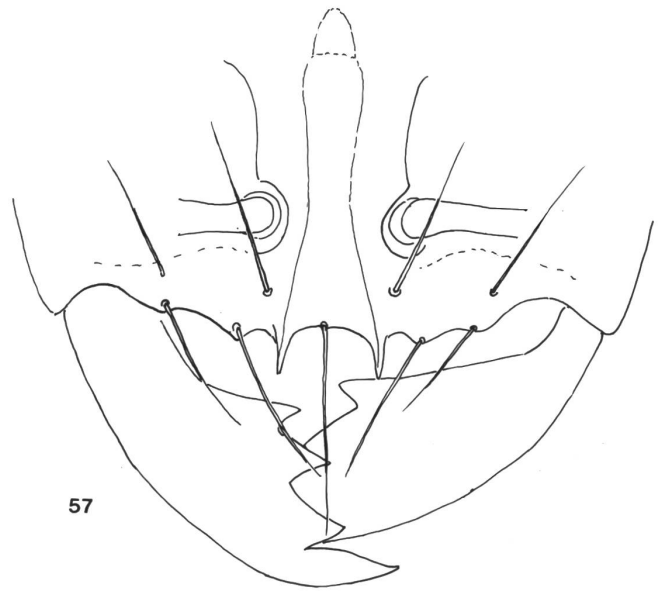
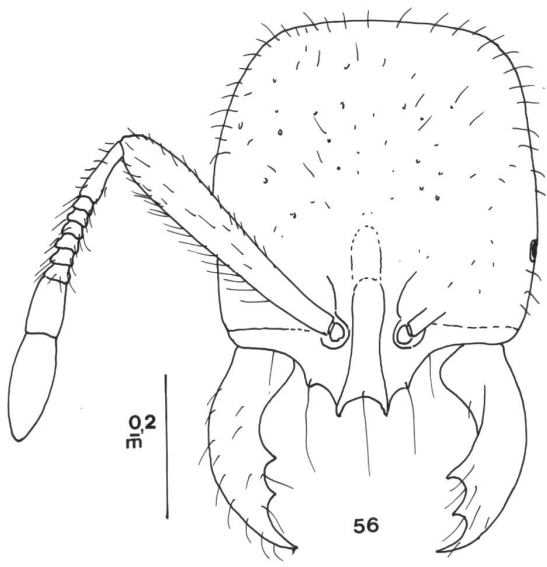


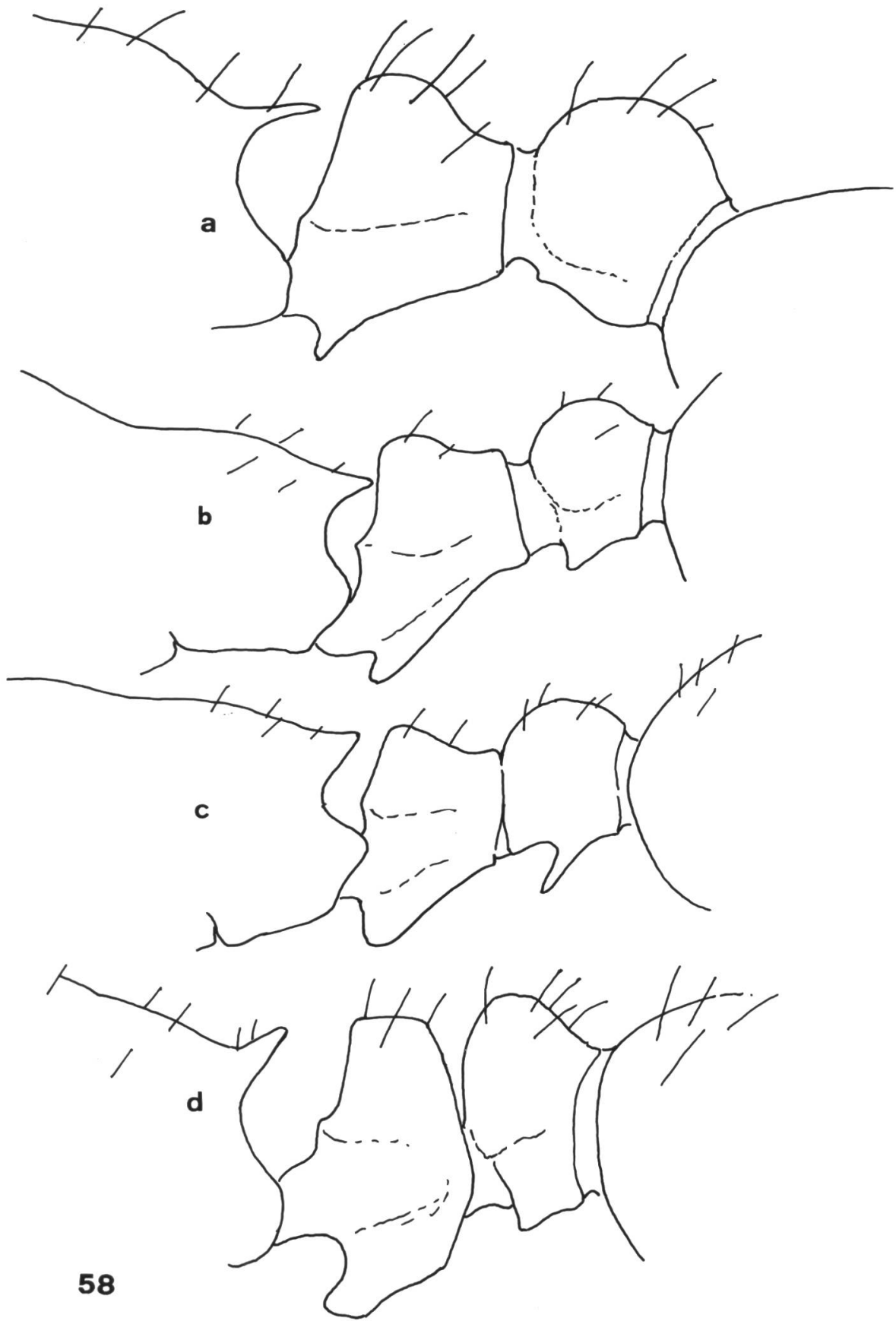






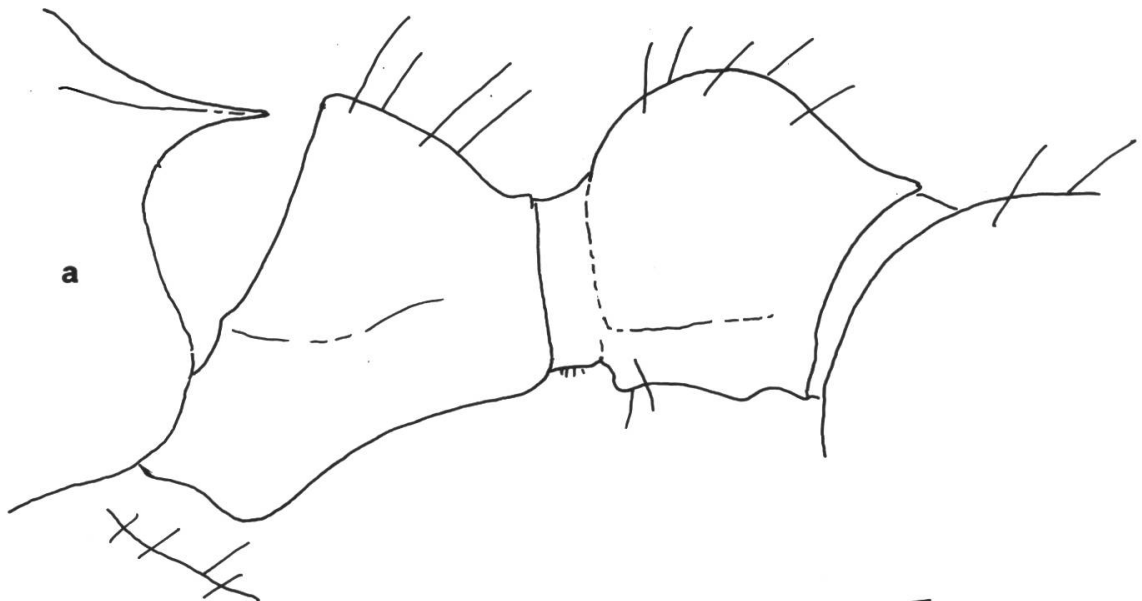
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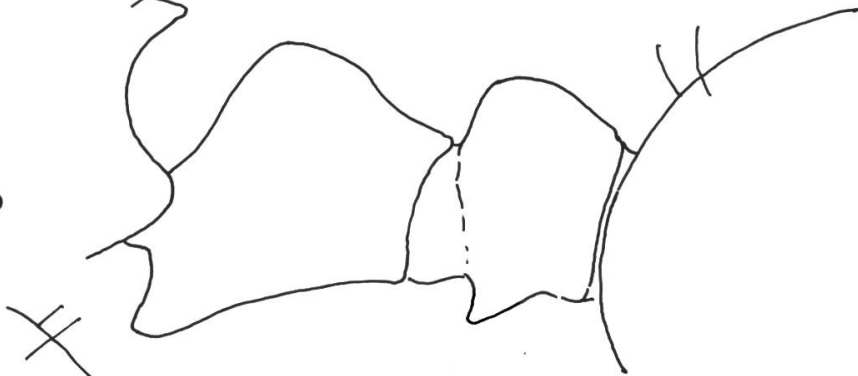


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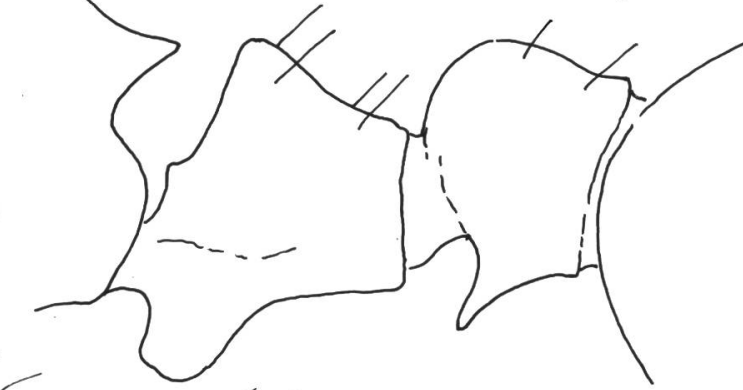
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a



b



c

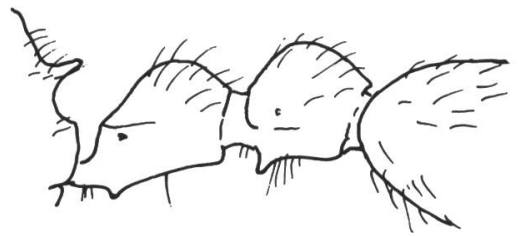
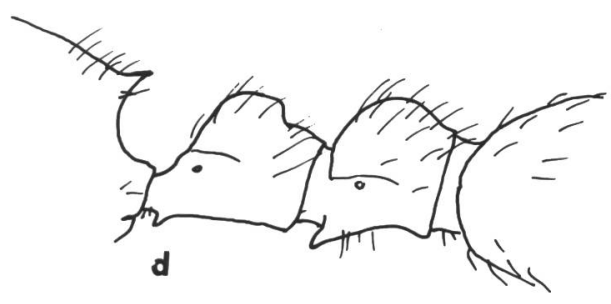
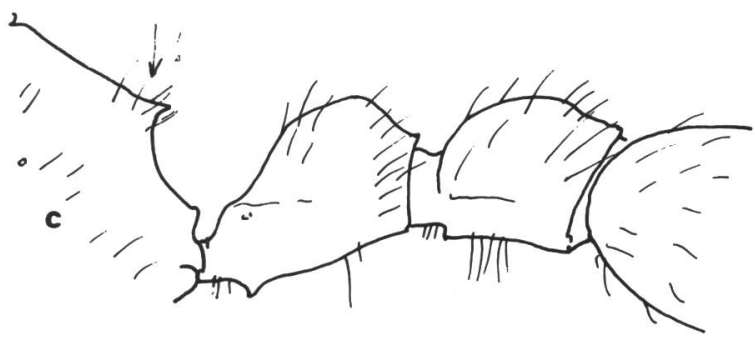
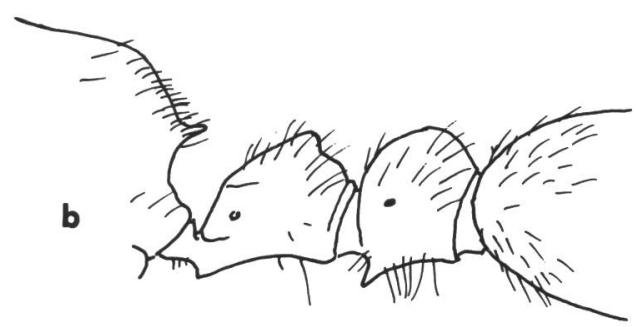
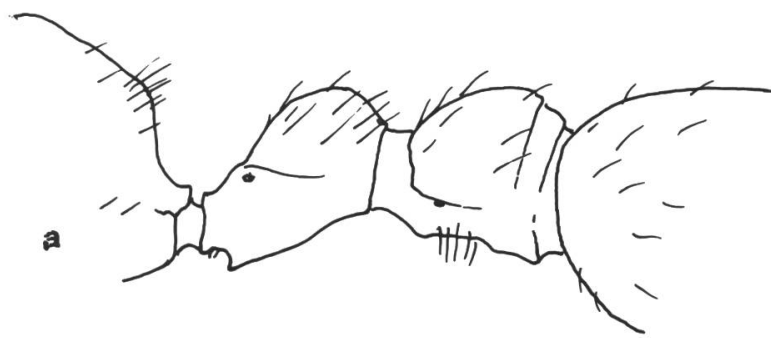


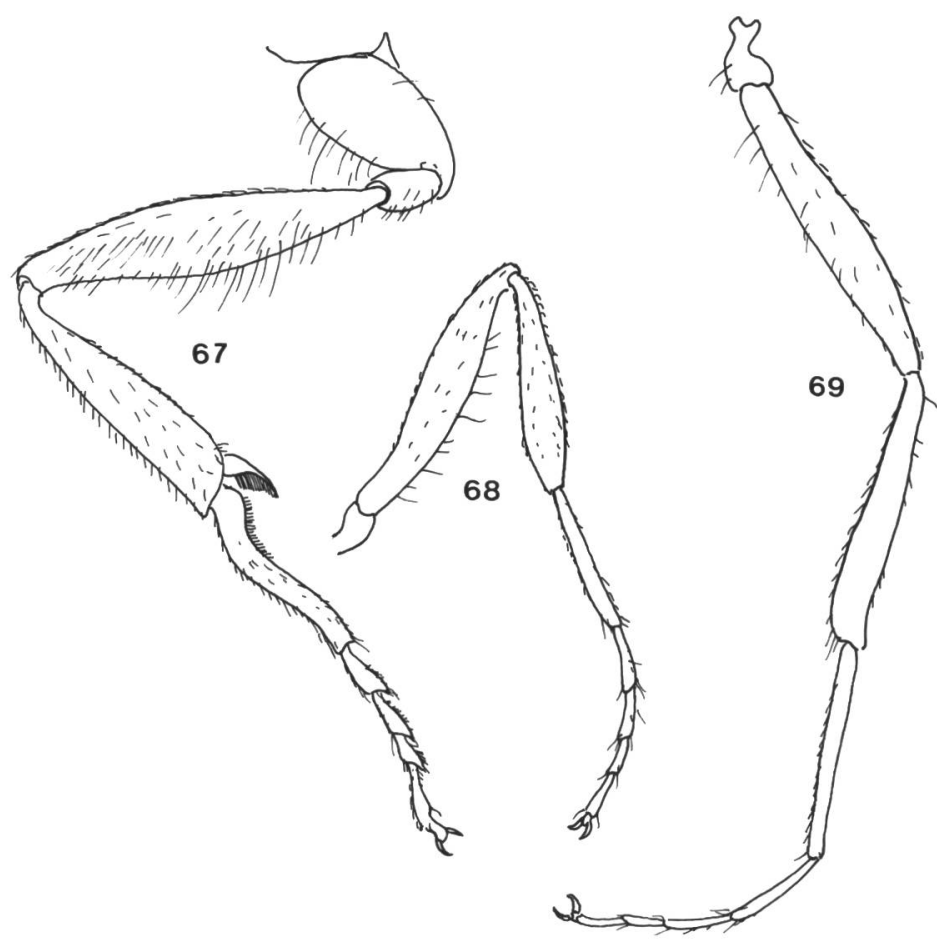
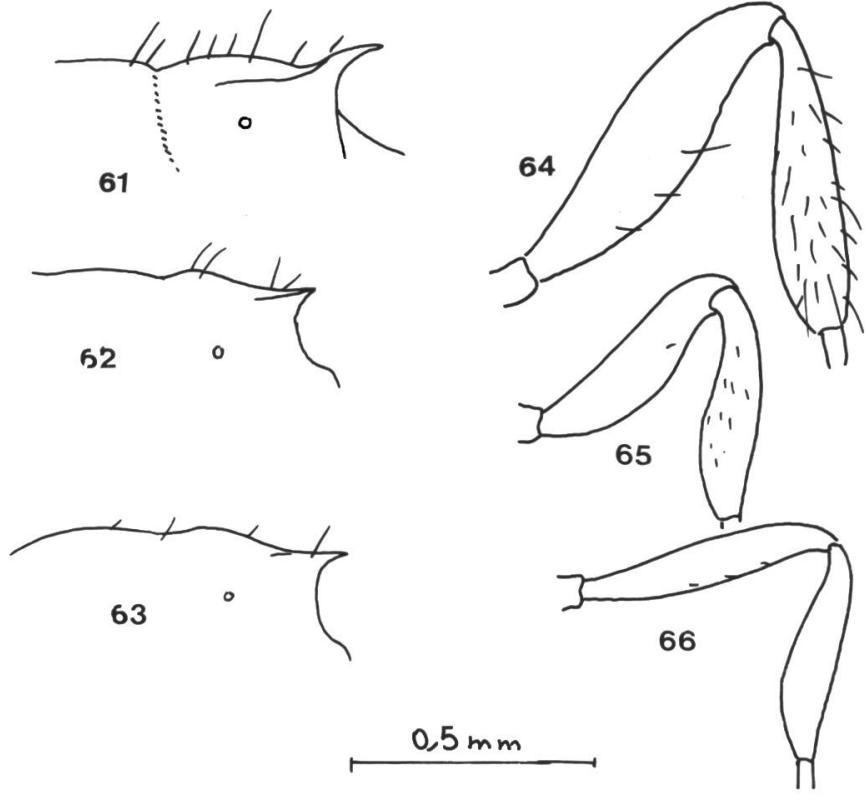
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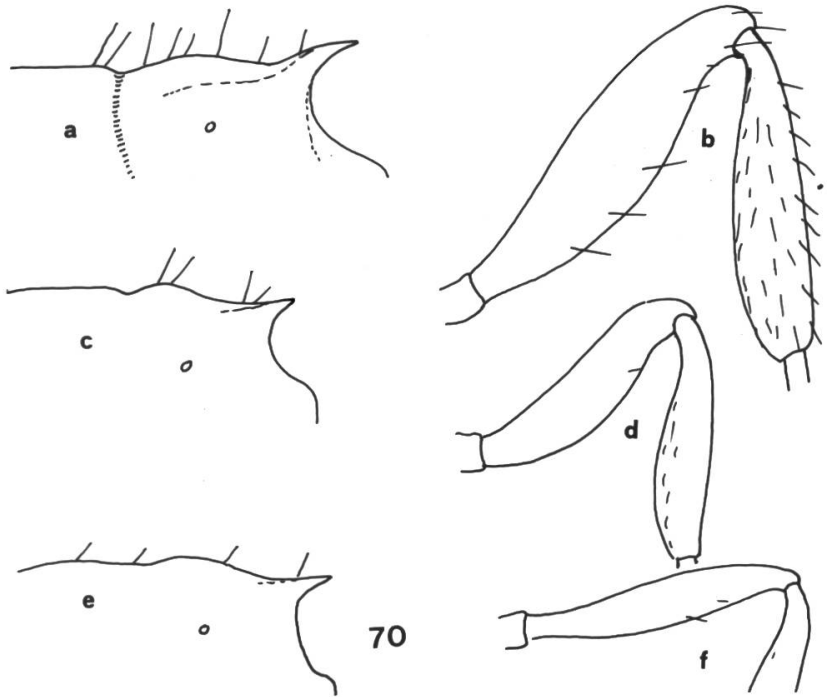
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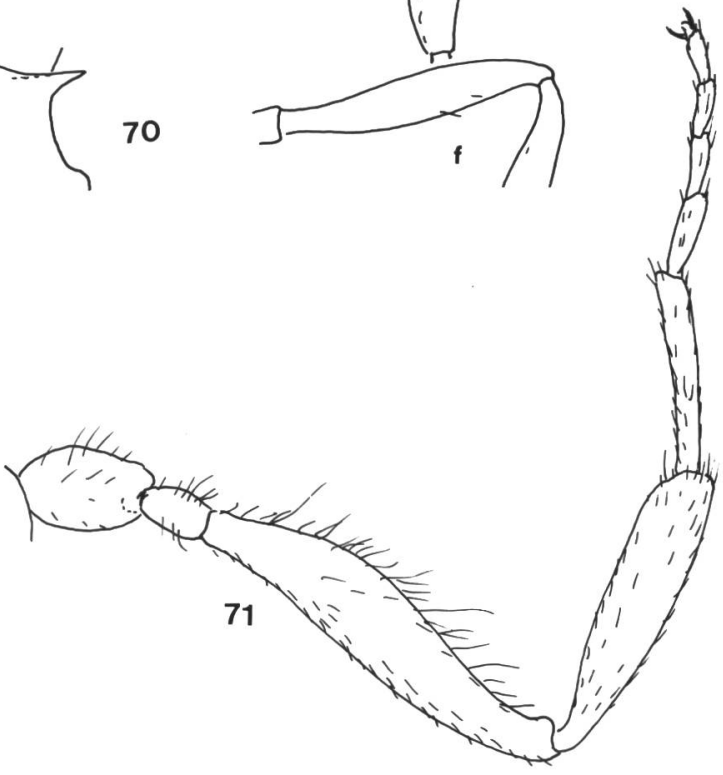




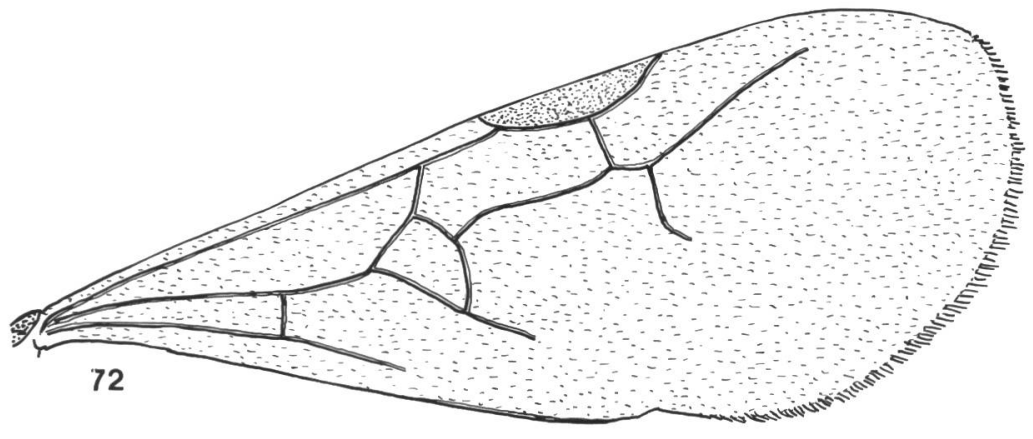




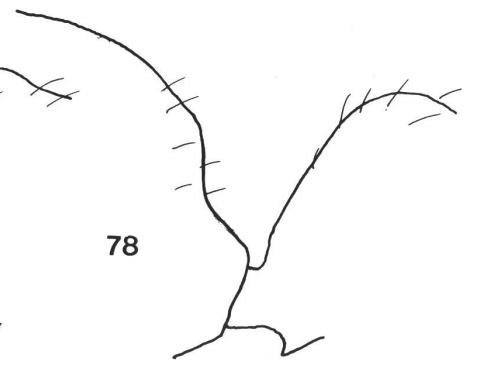
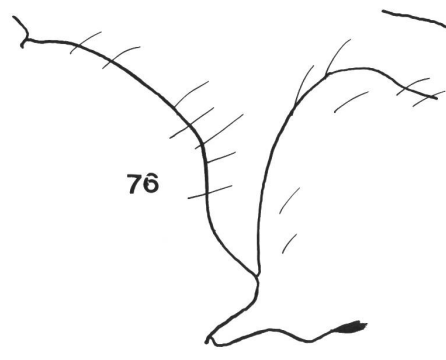
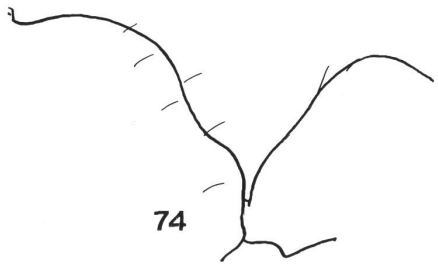
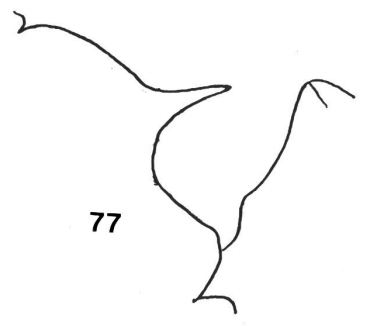
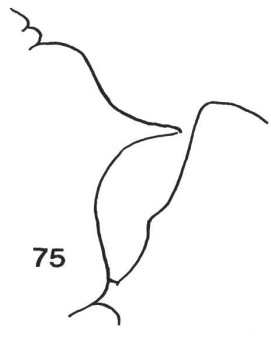
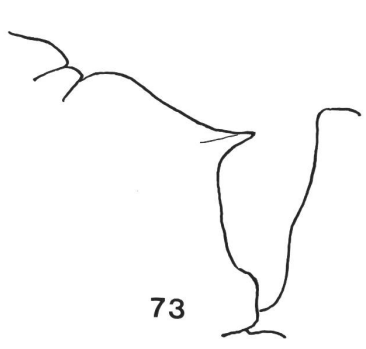
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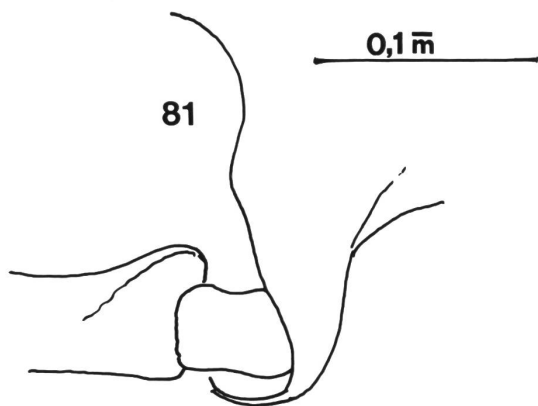
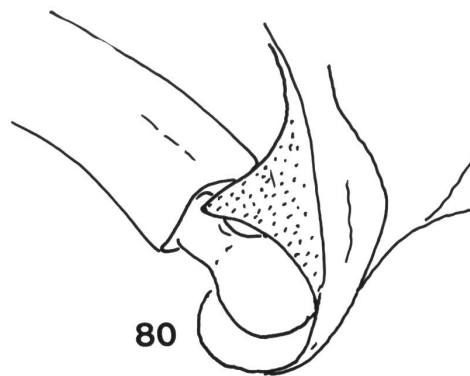
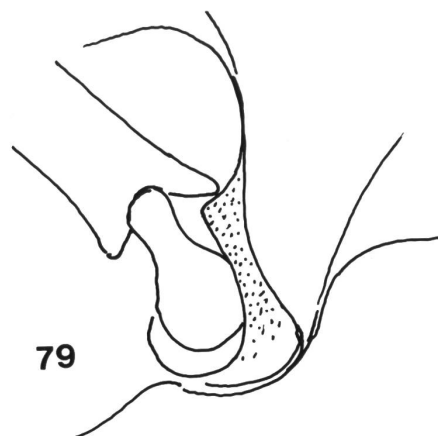


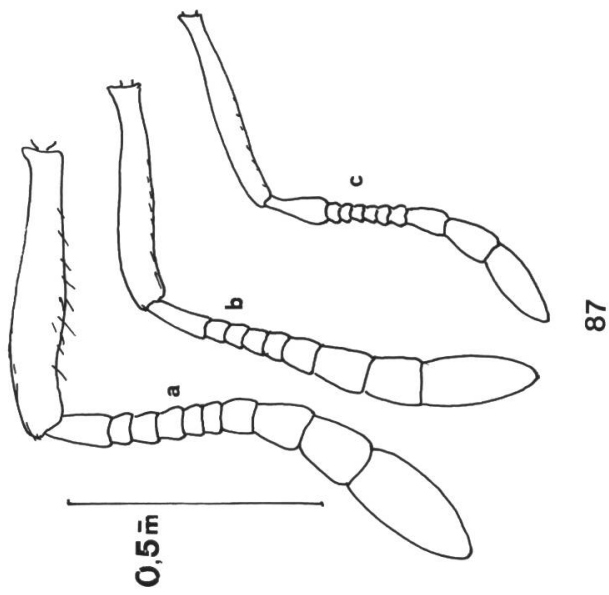
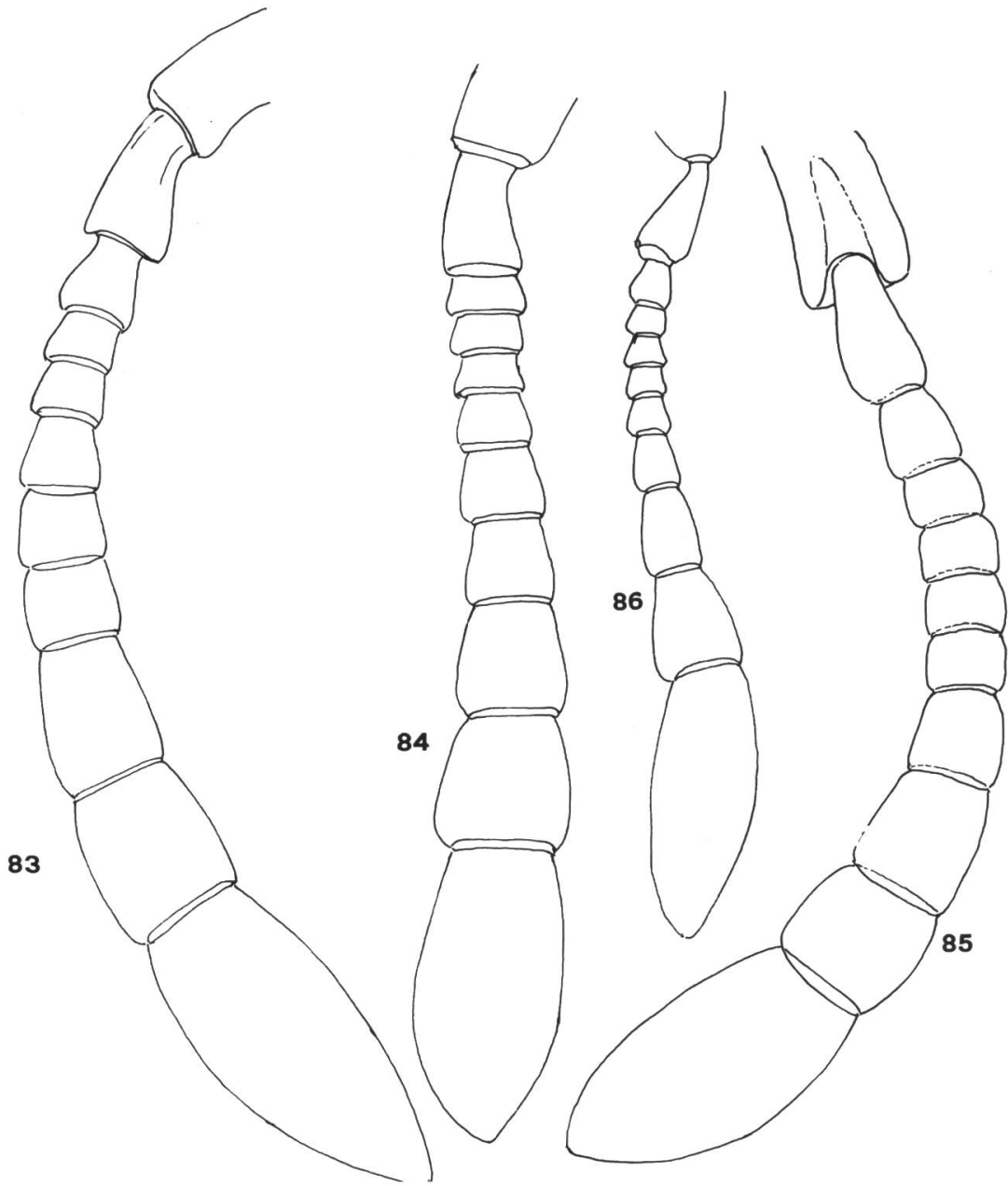
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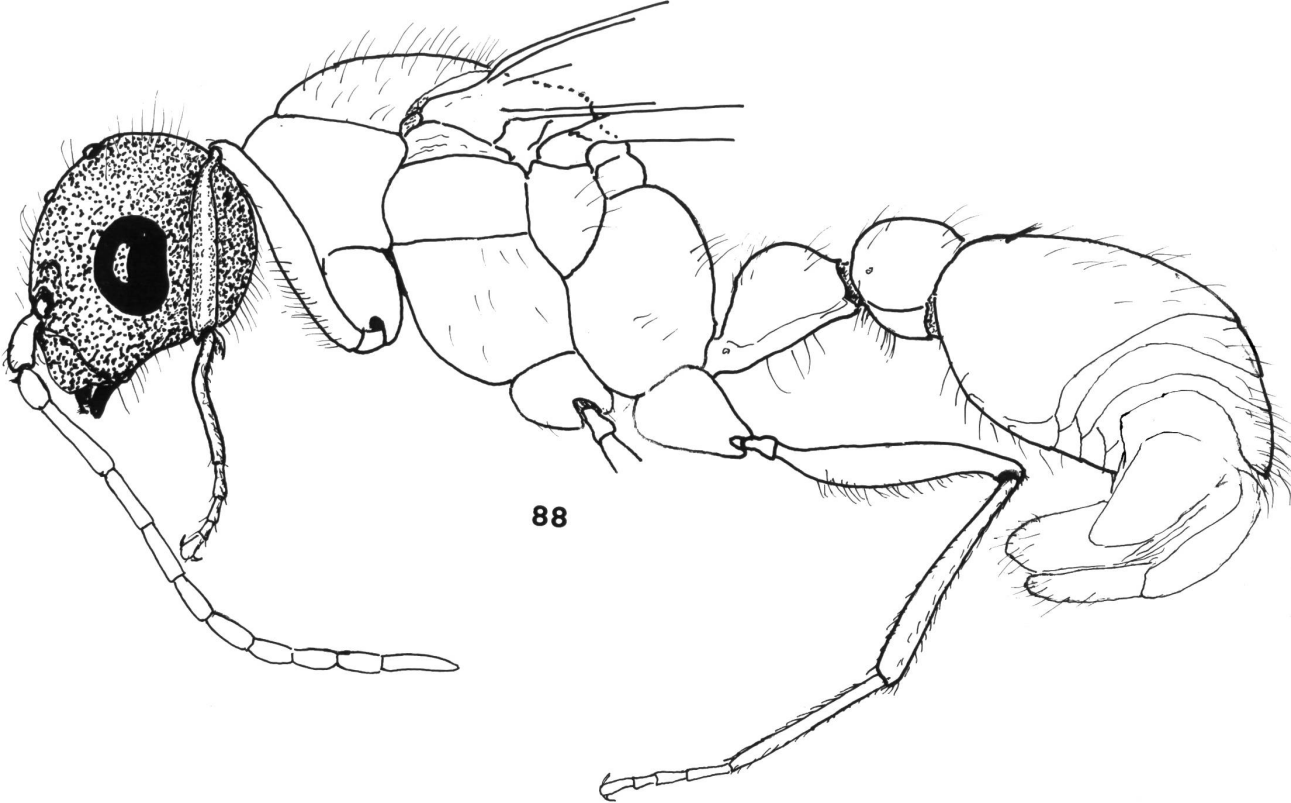


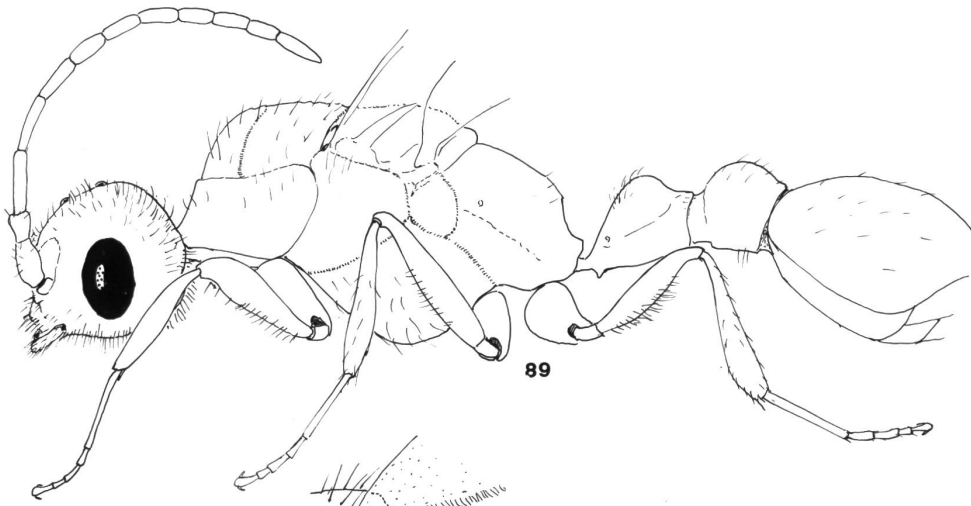
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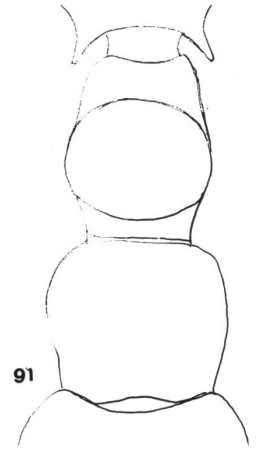




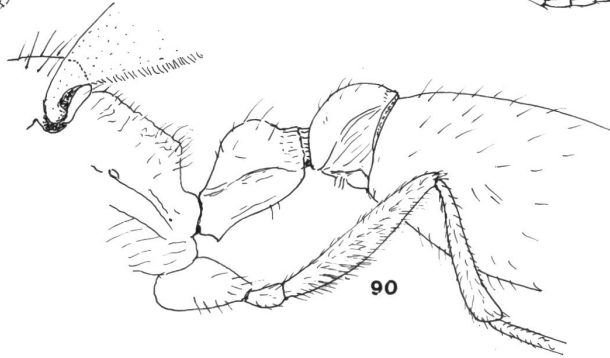




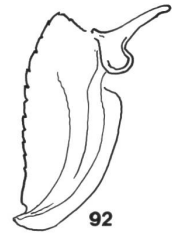
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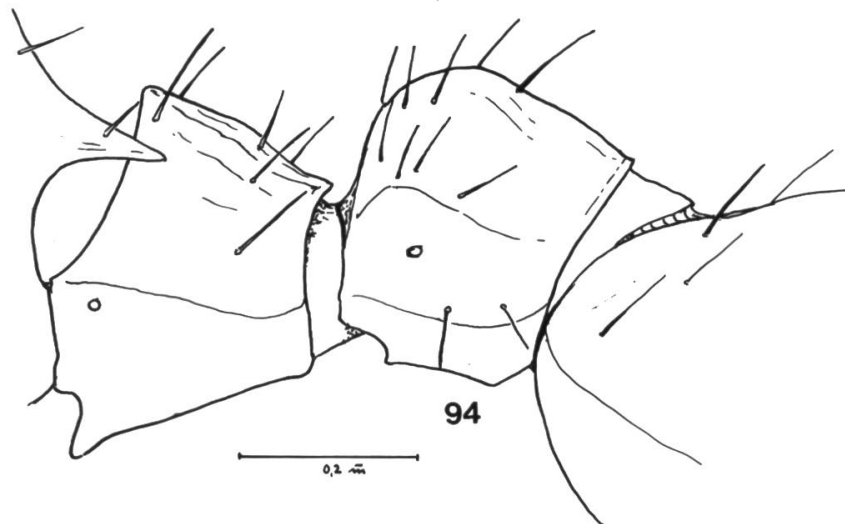
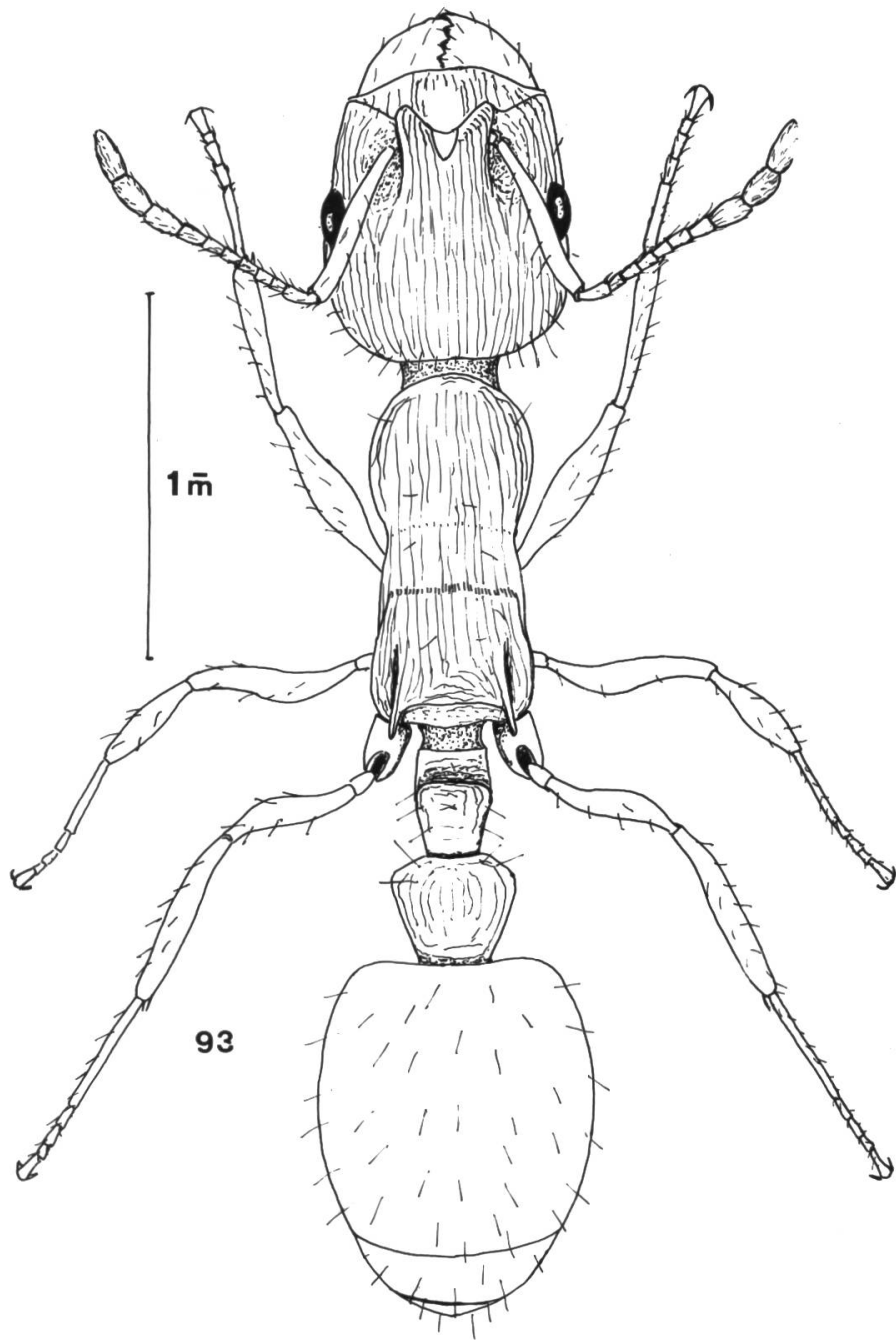
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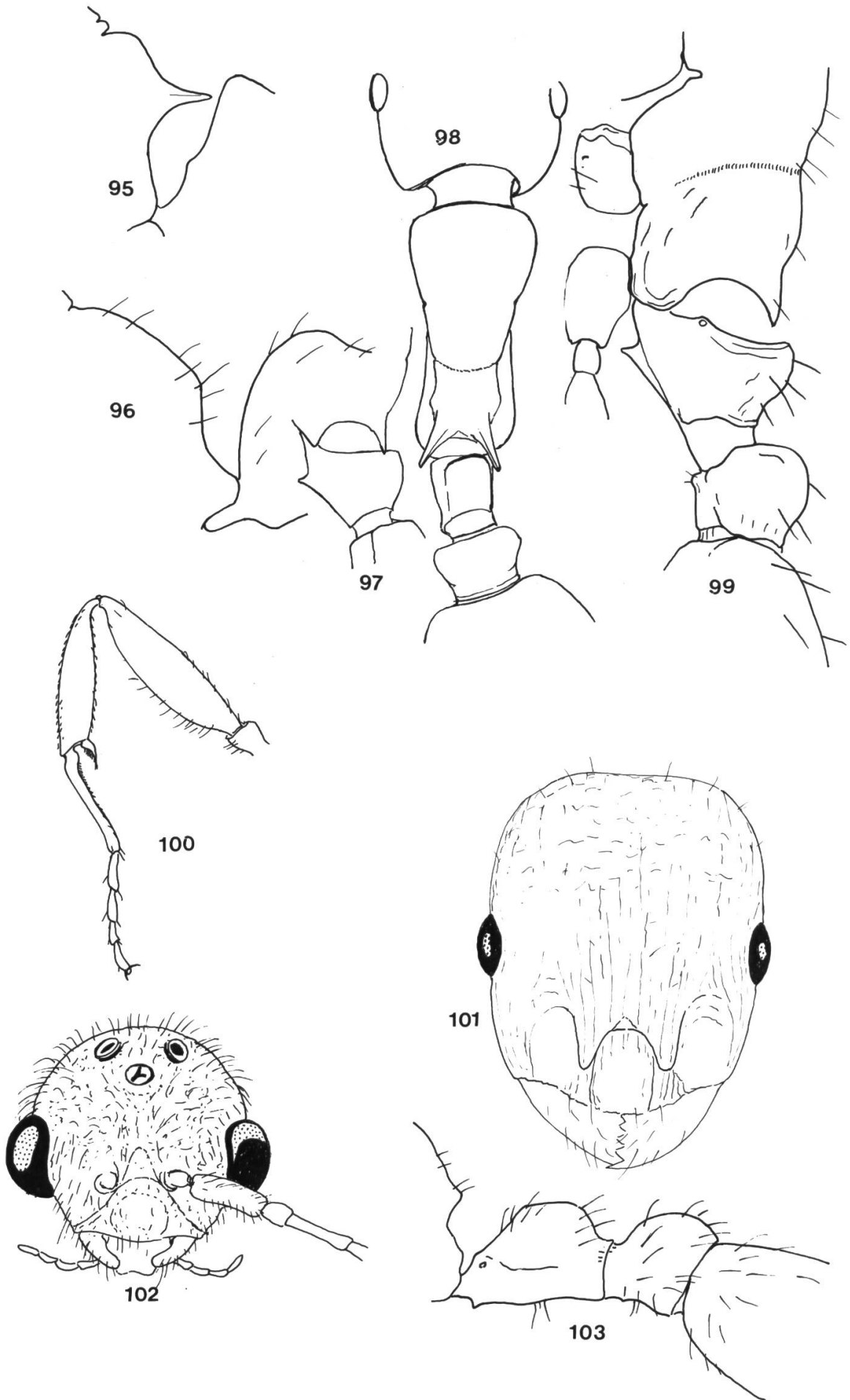


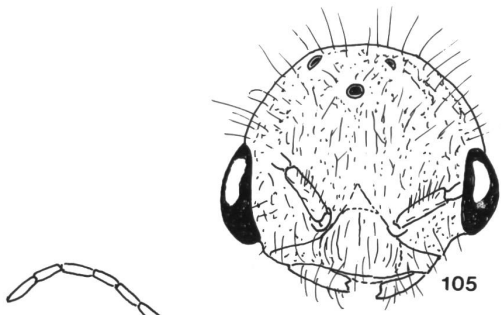
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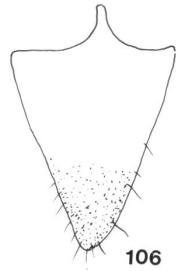
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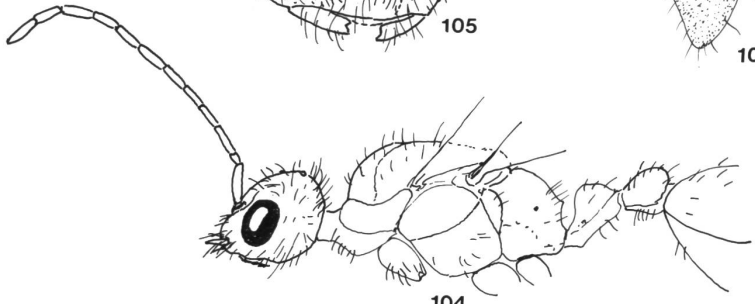




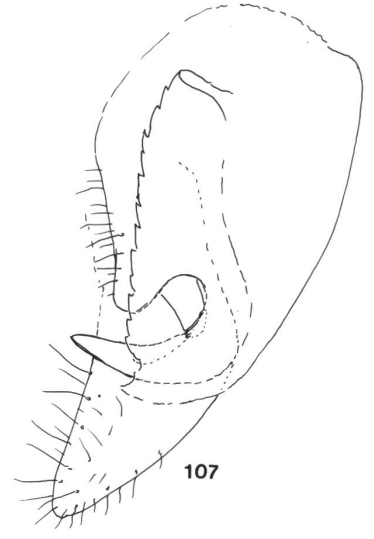
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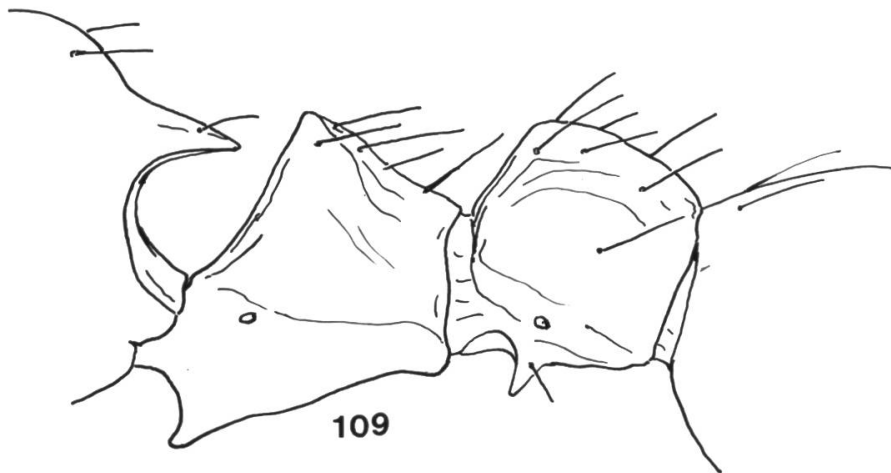
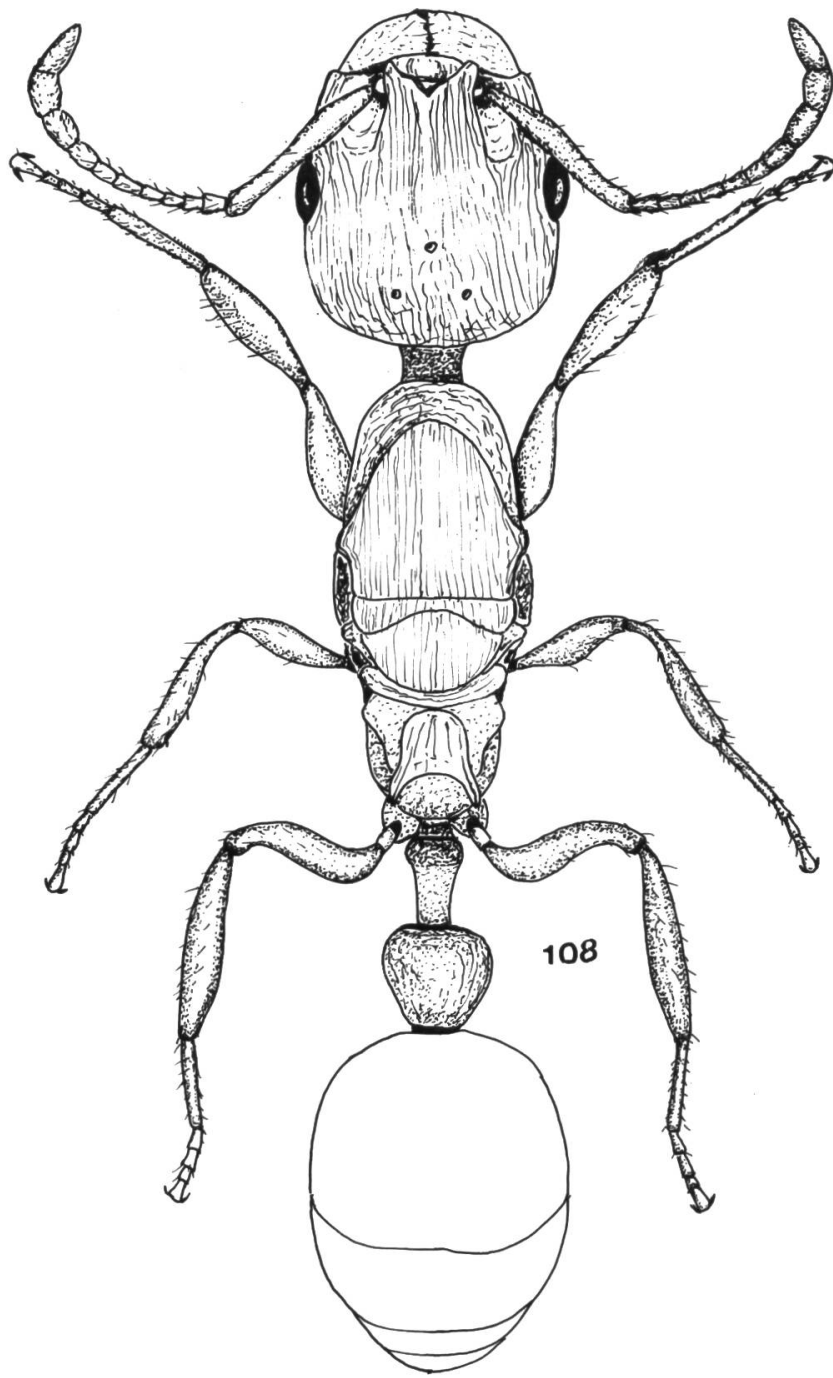
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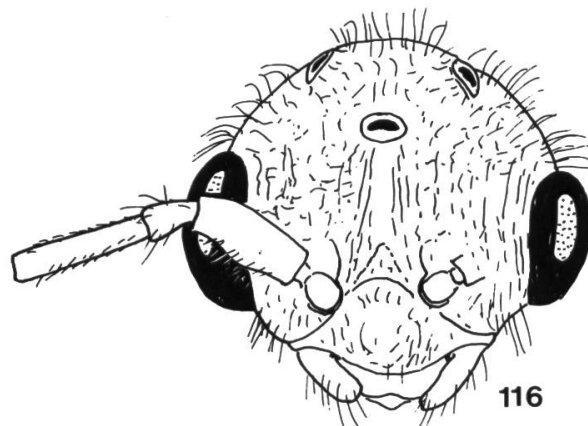
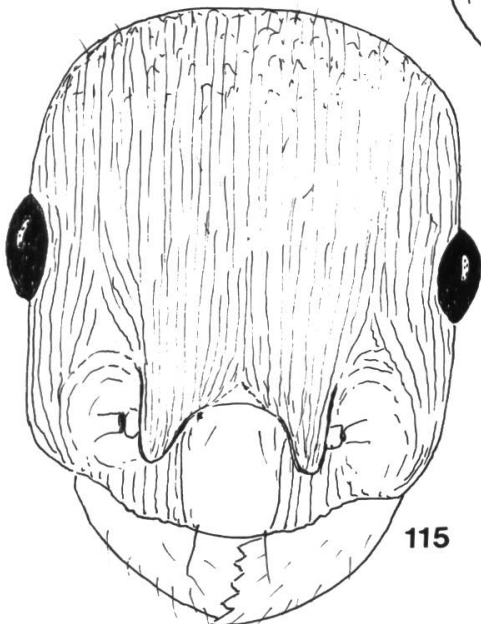
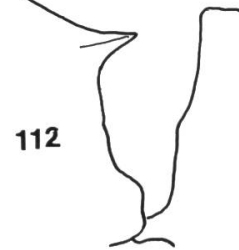
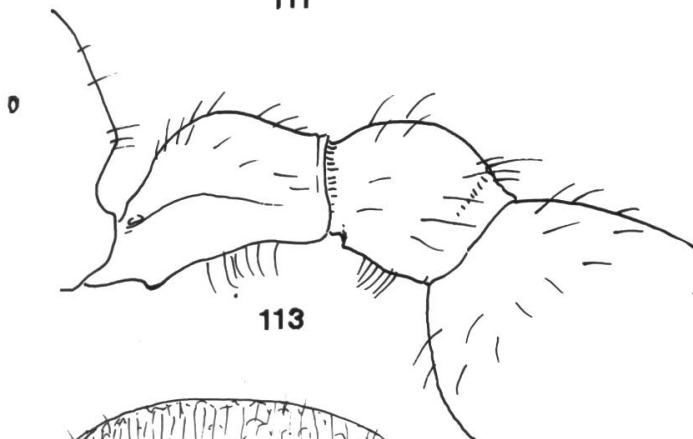
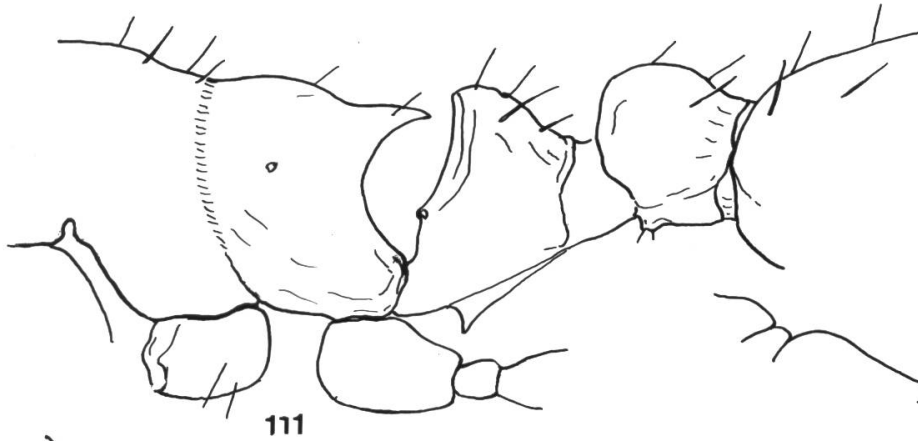
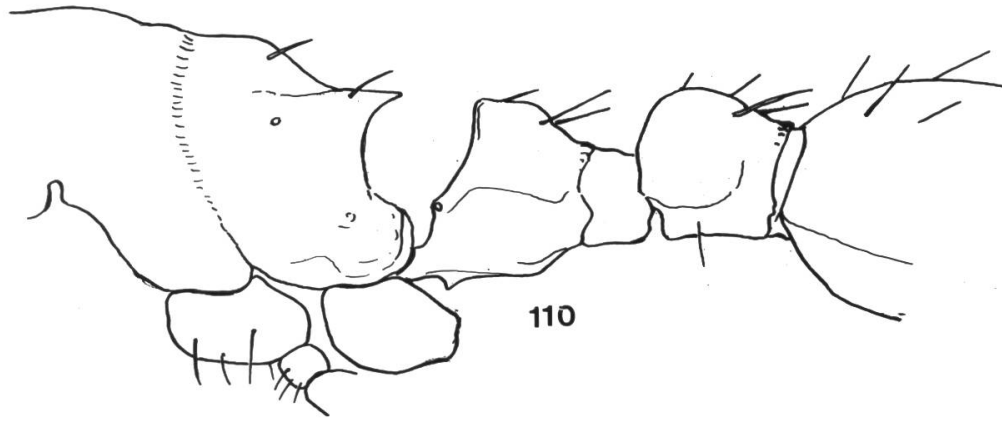


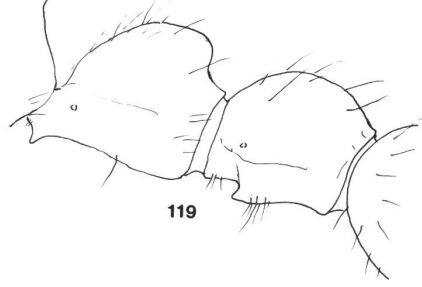
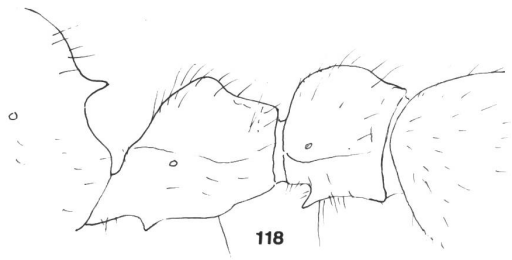
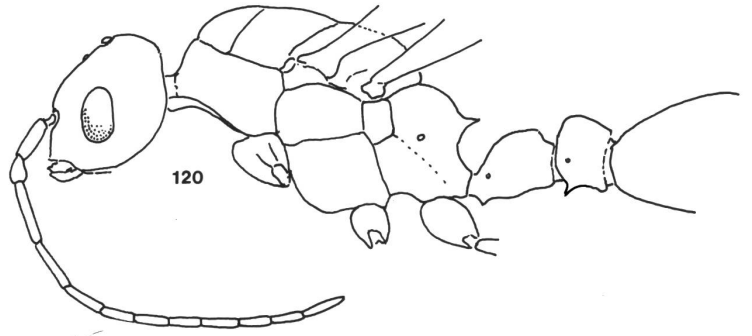
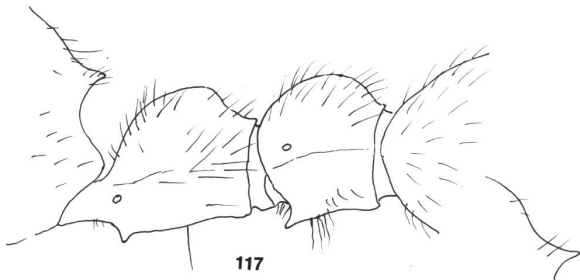
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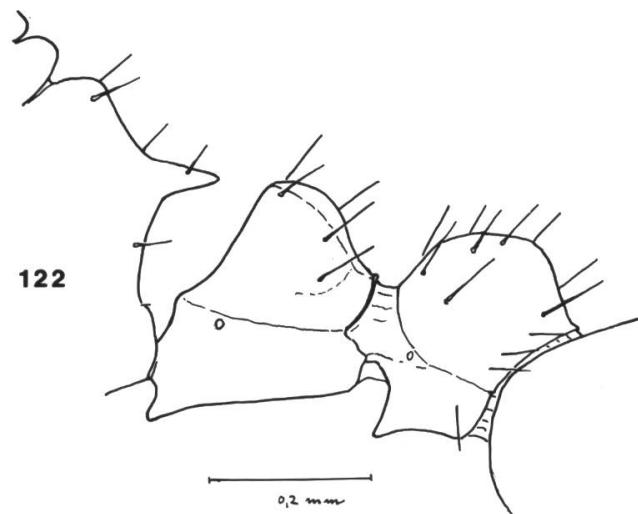
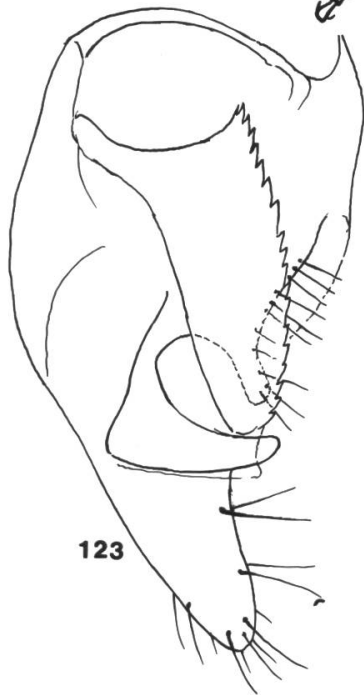
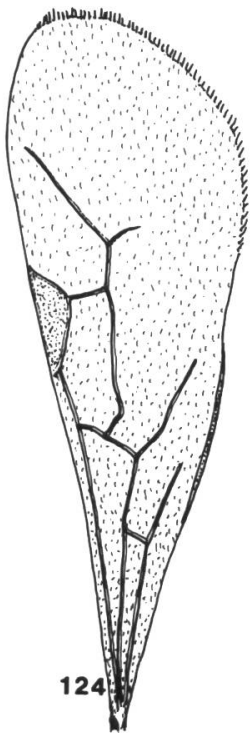
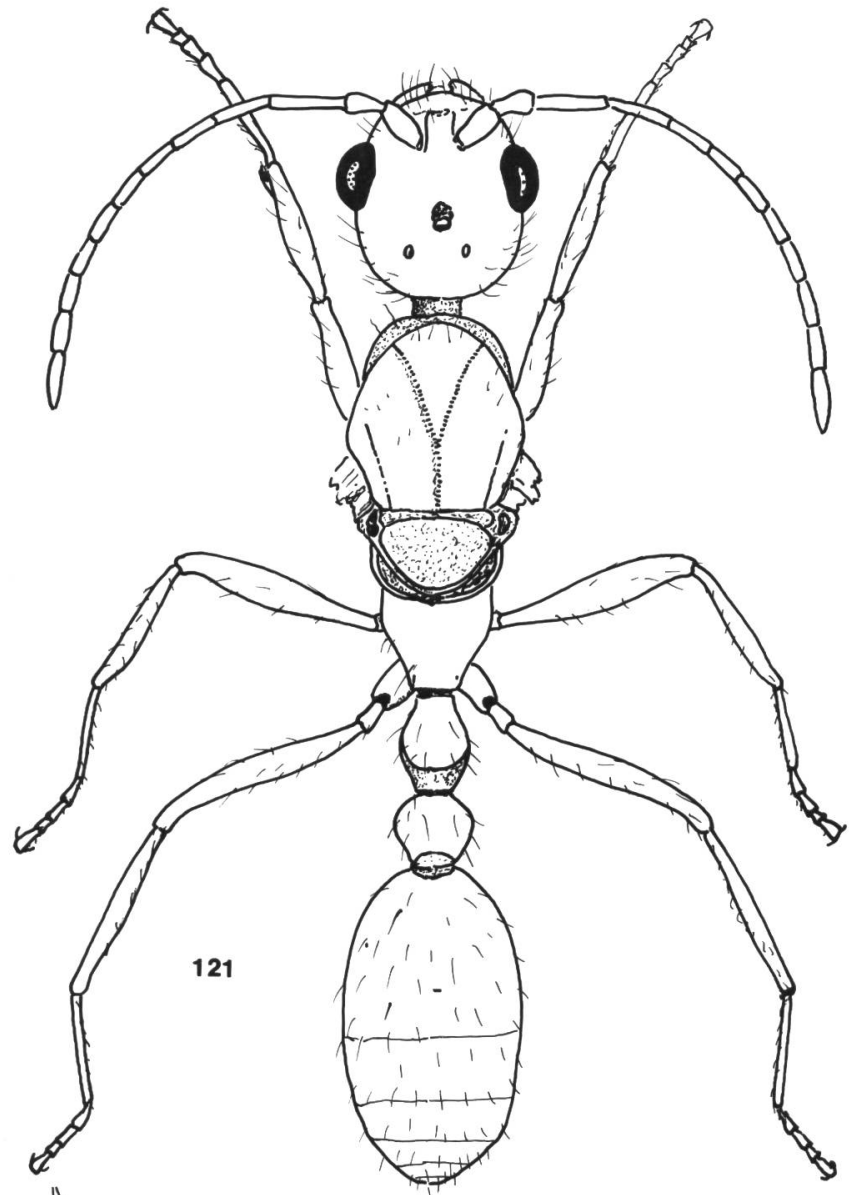


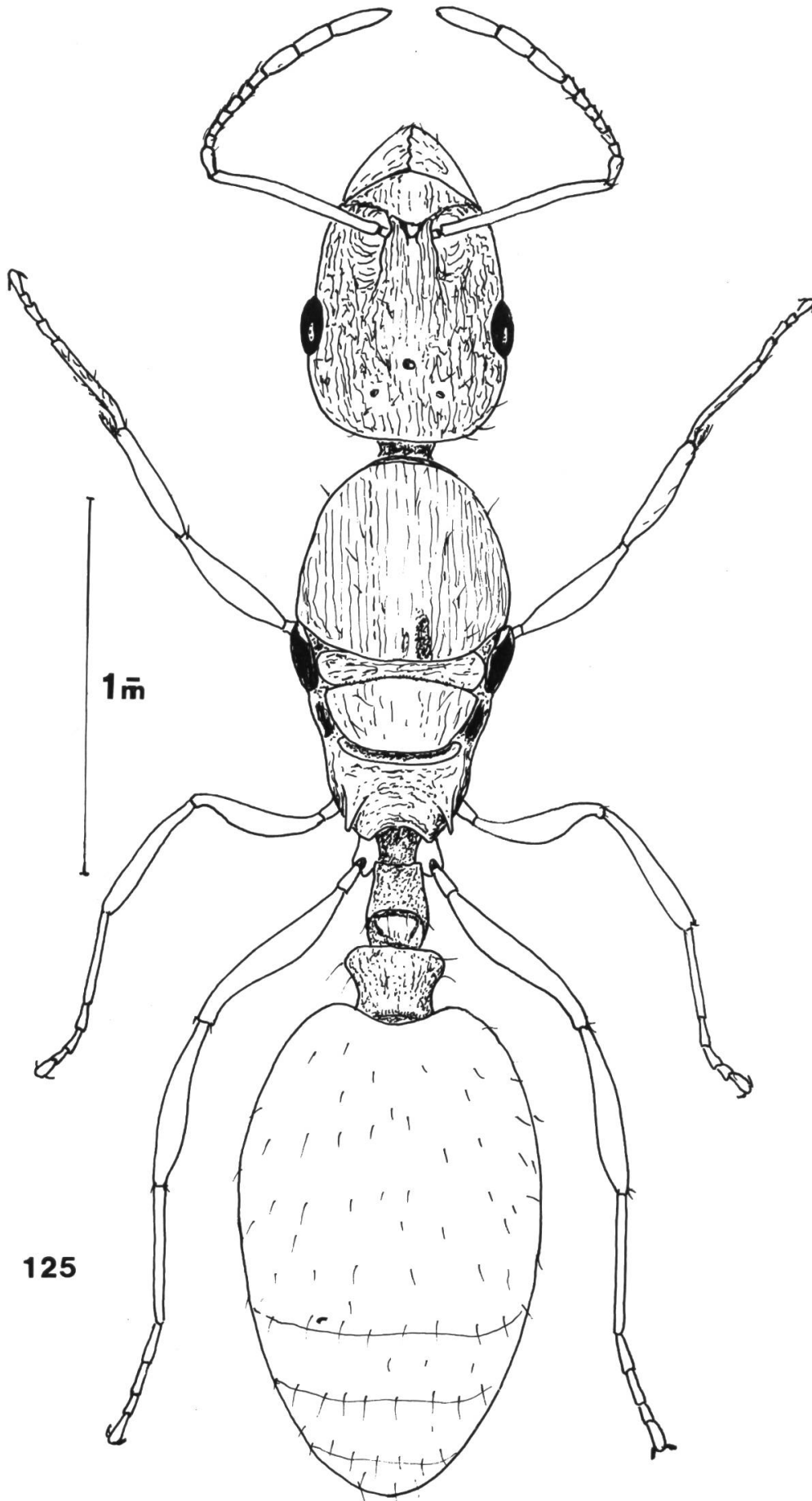
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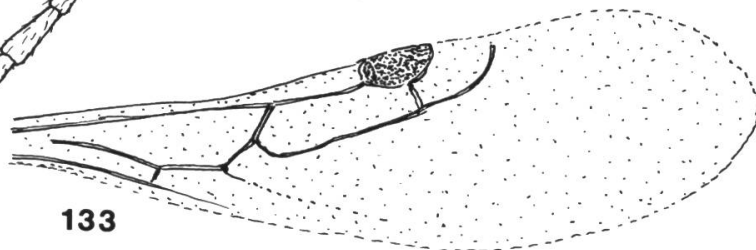
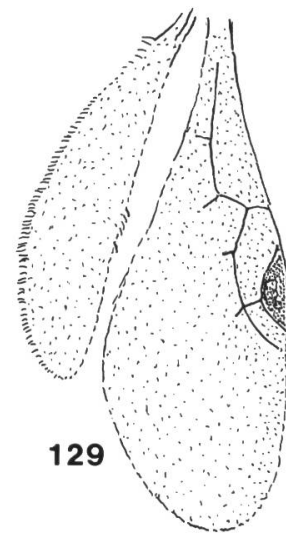
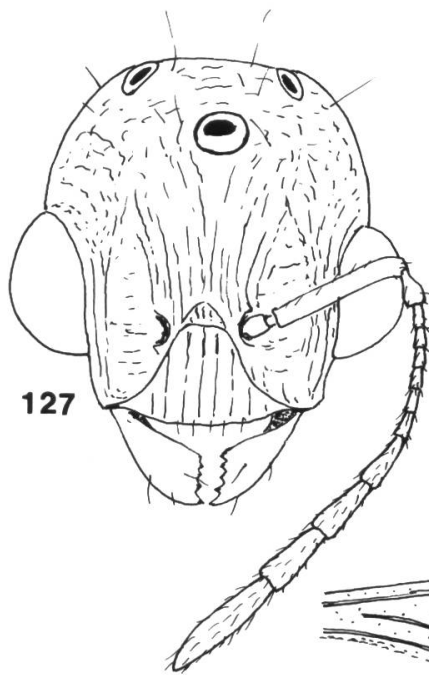
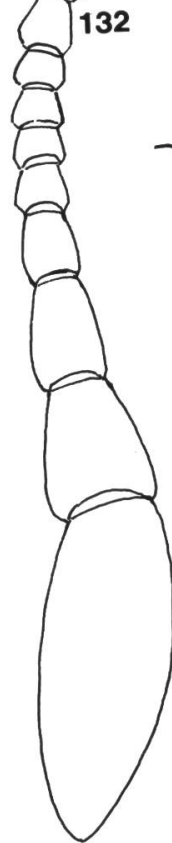
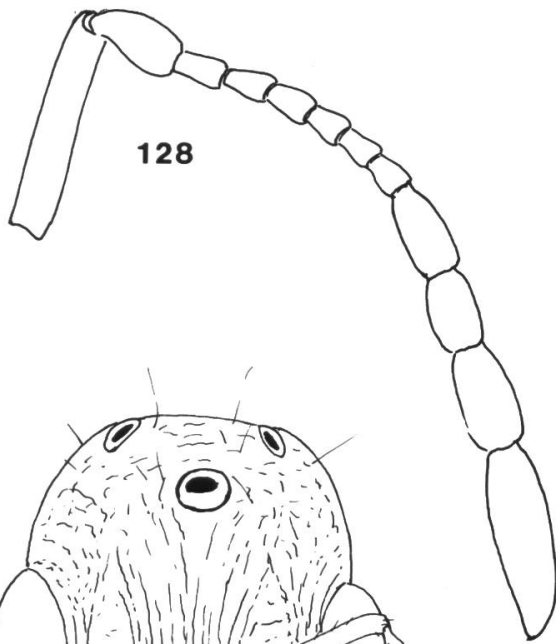
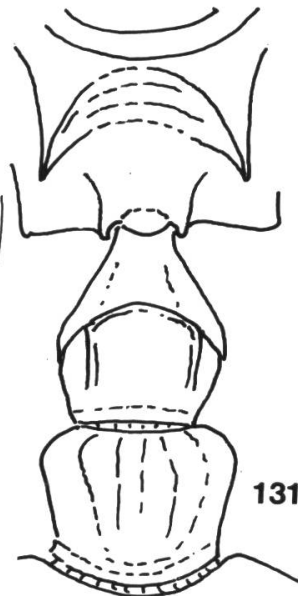
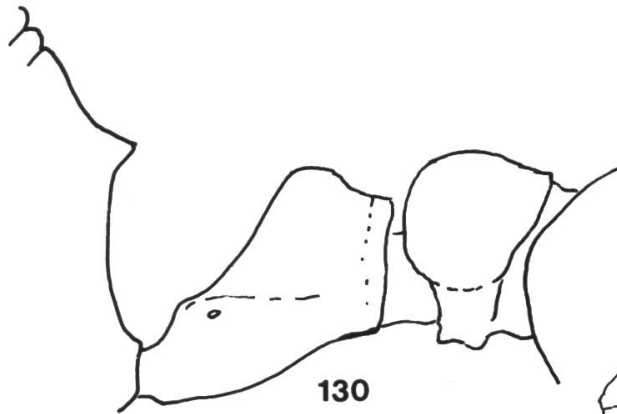
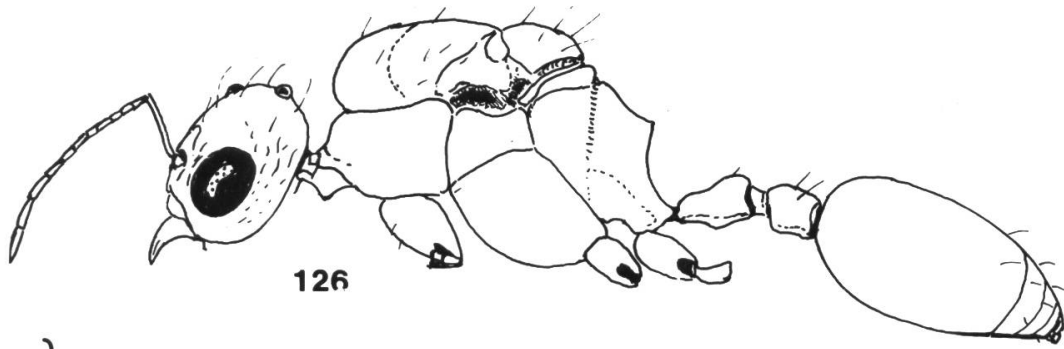


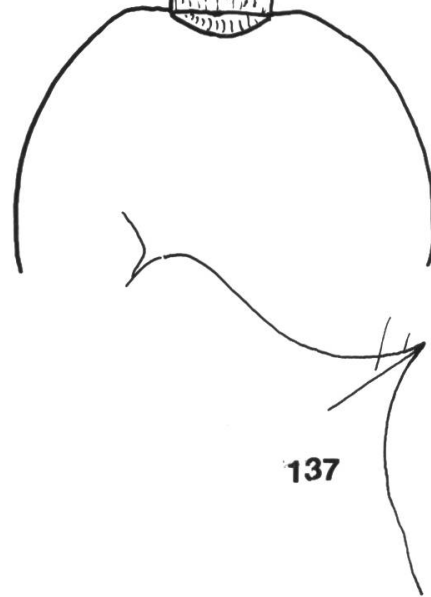
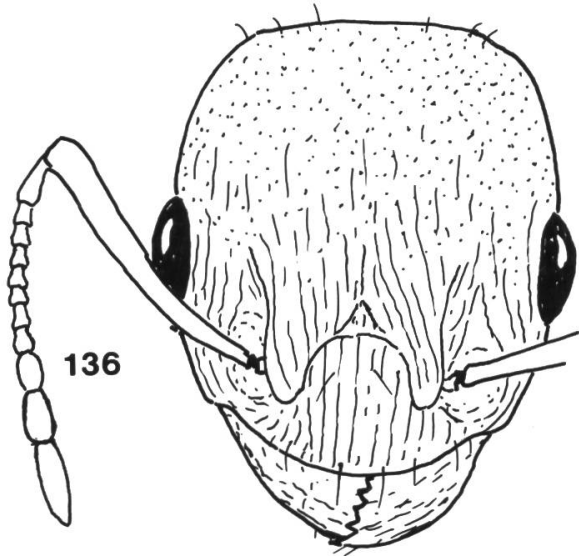
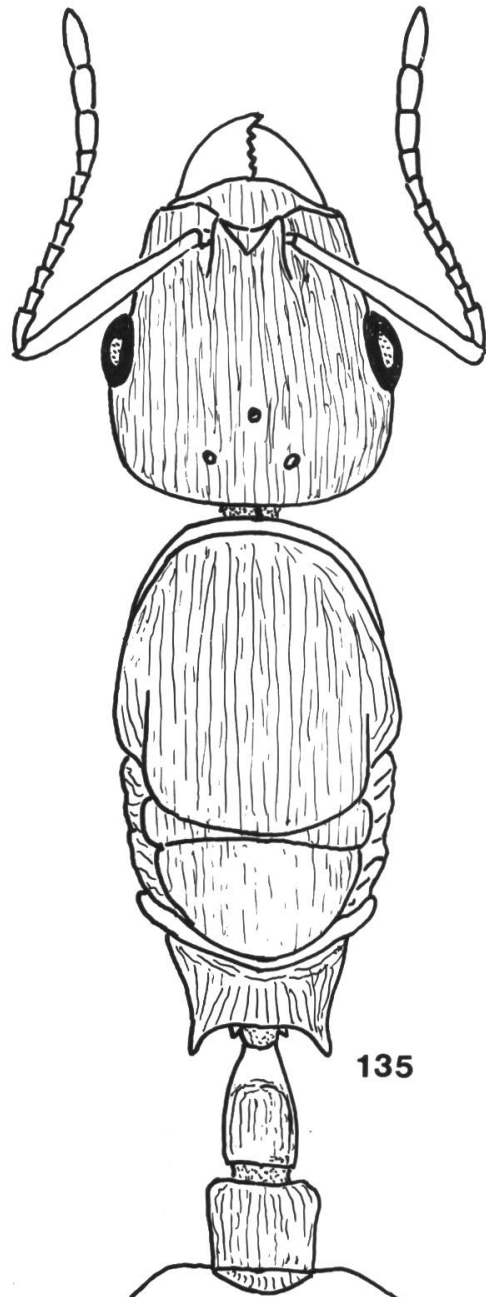
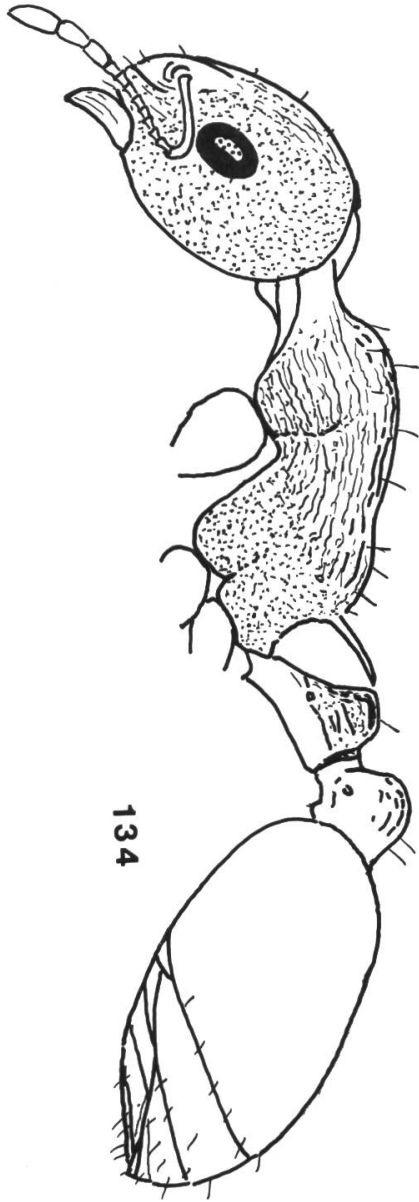


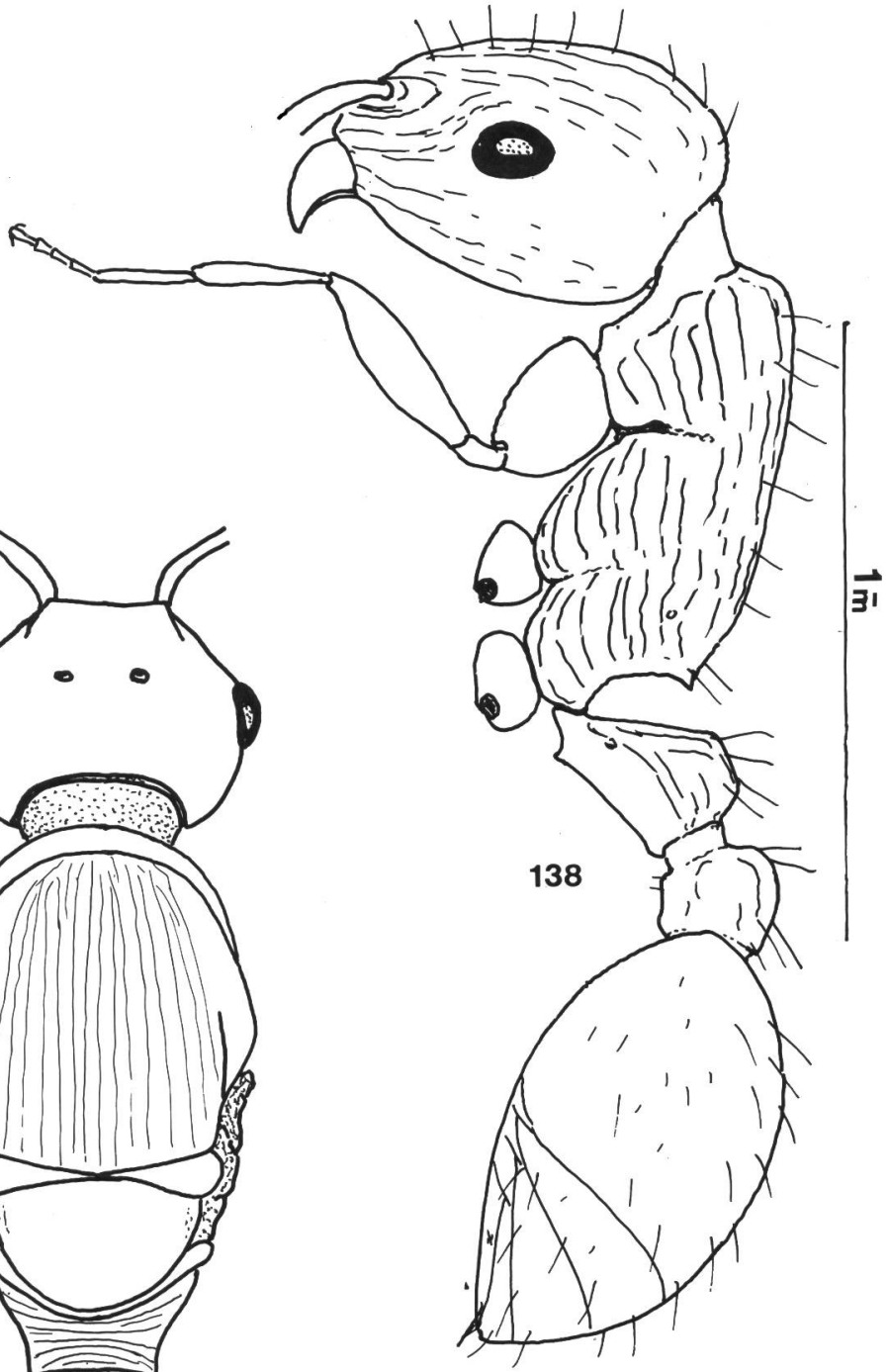
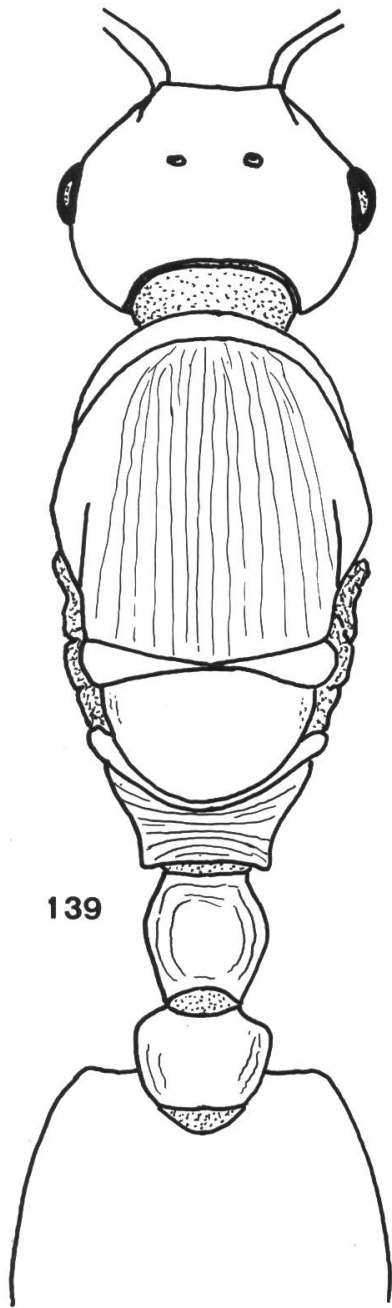


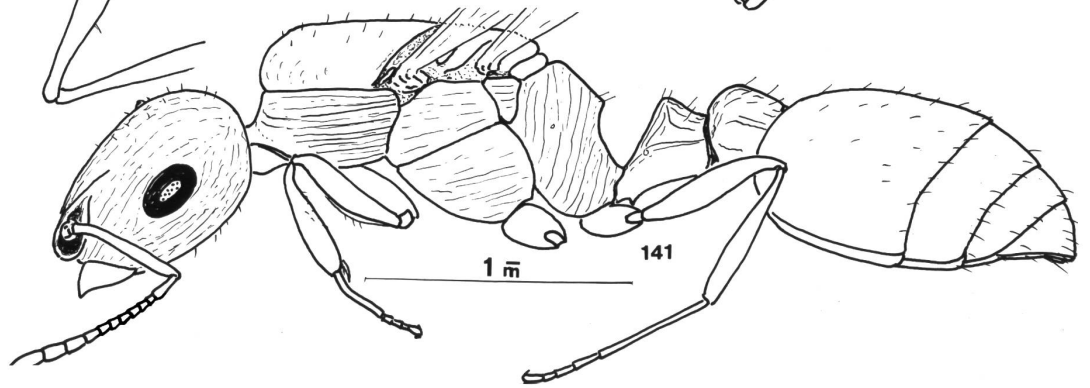
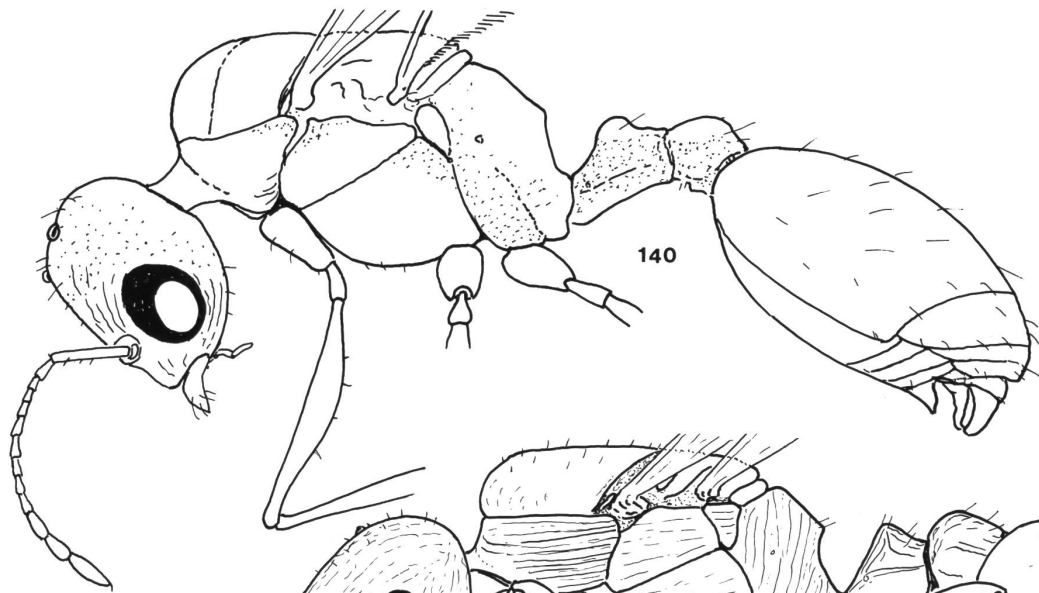
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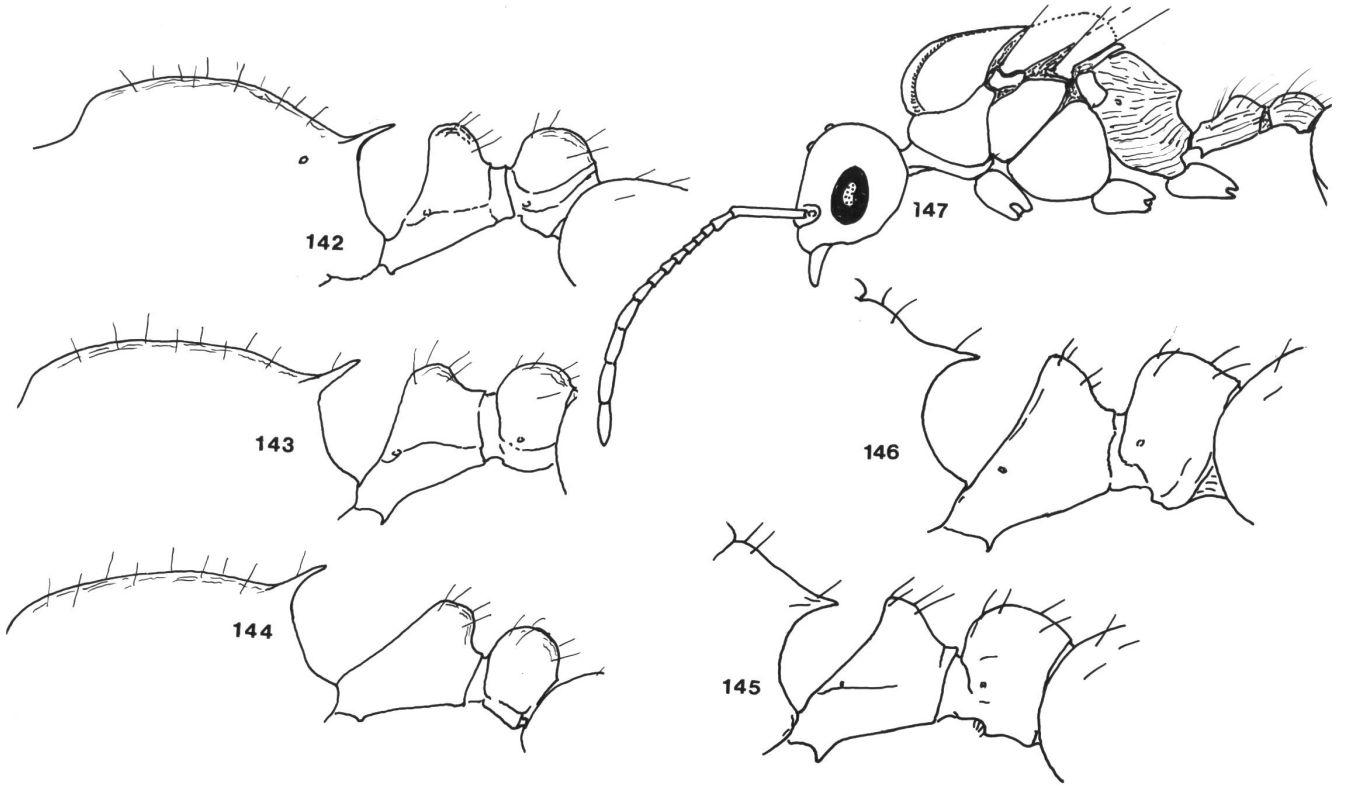
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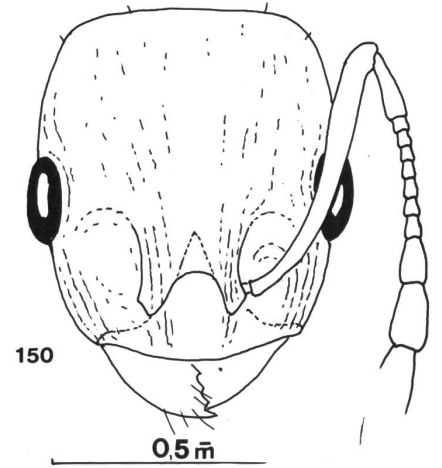
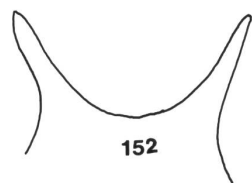
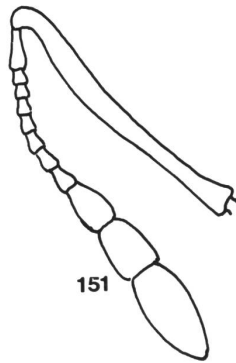
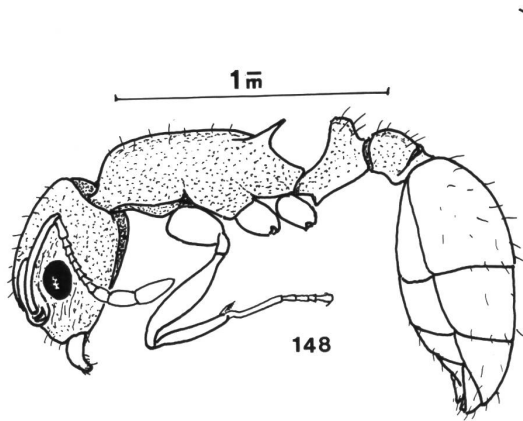


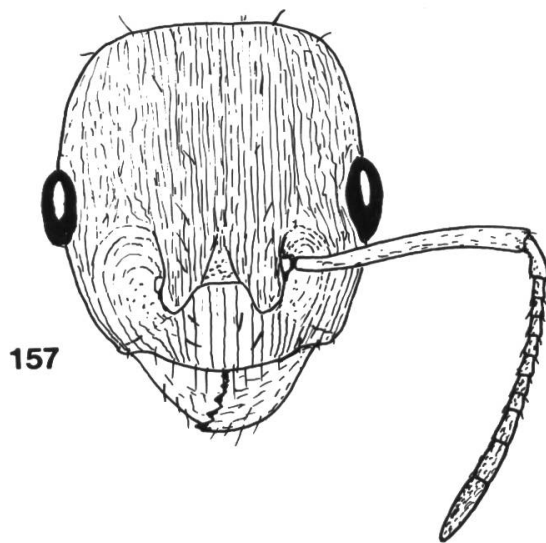
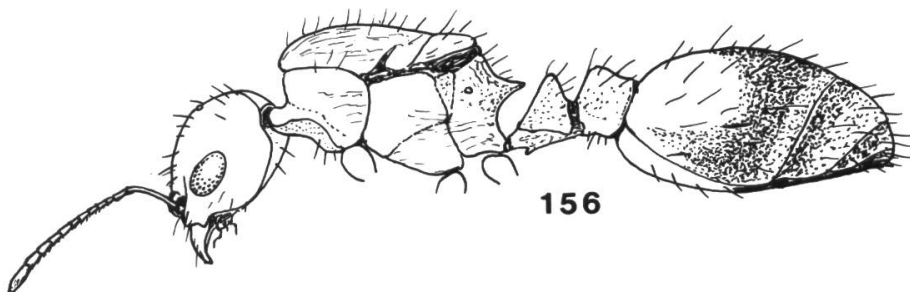
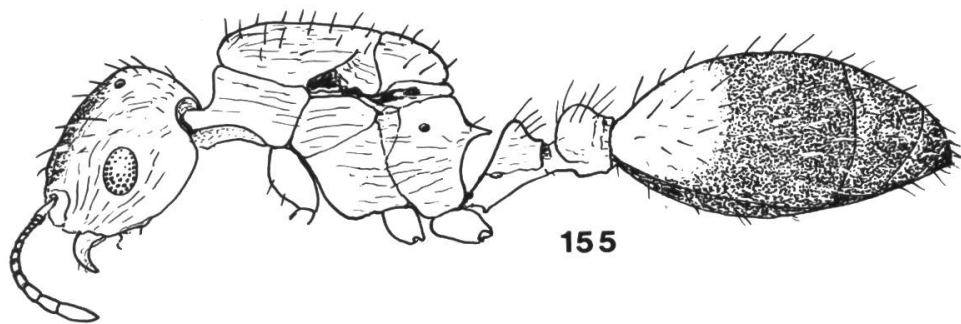
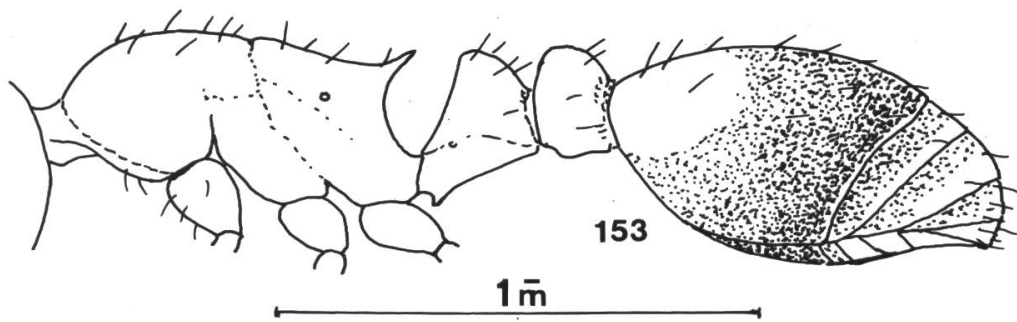


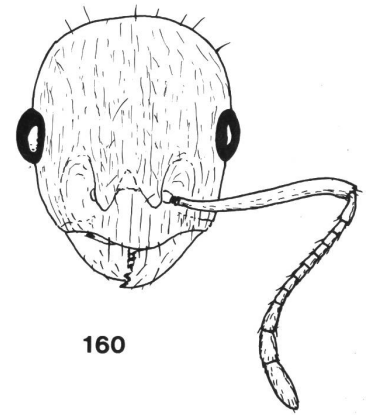
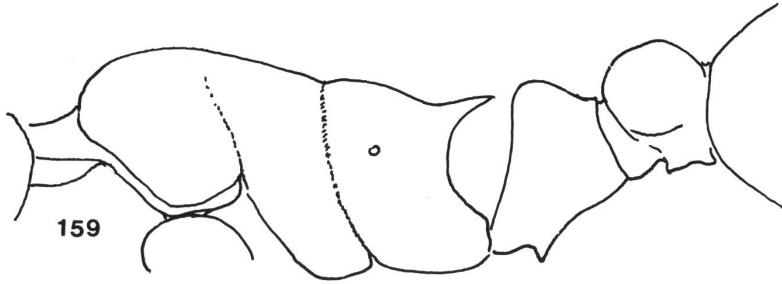
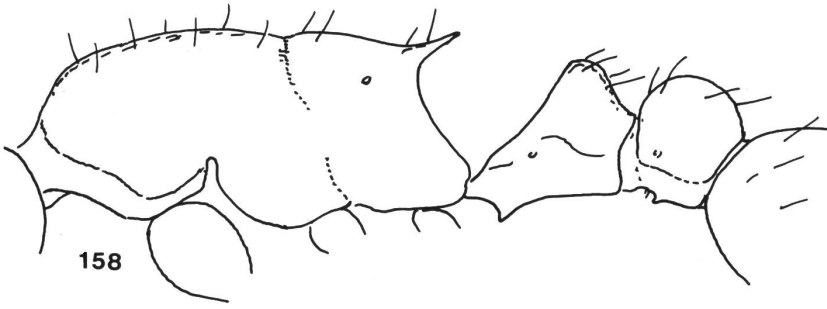


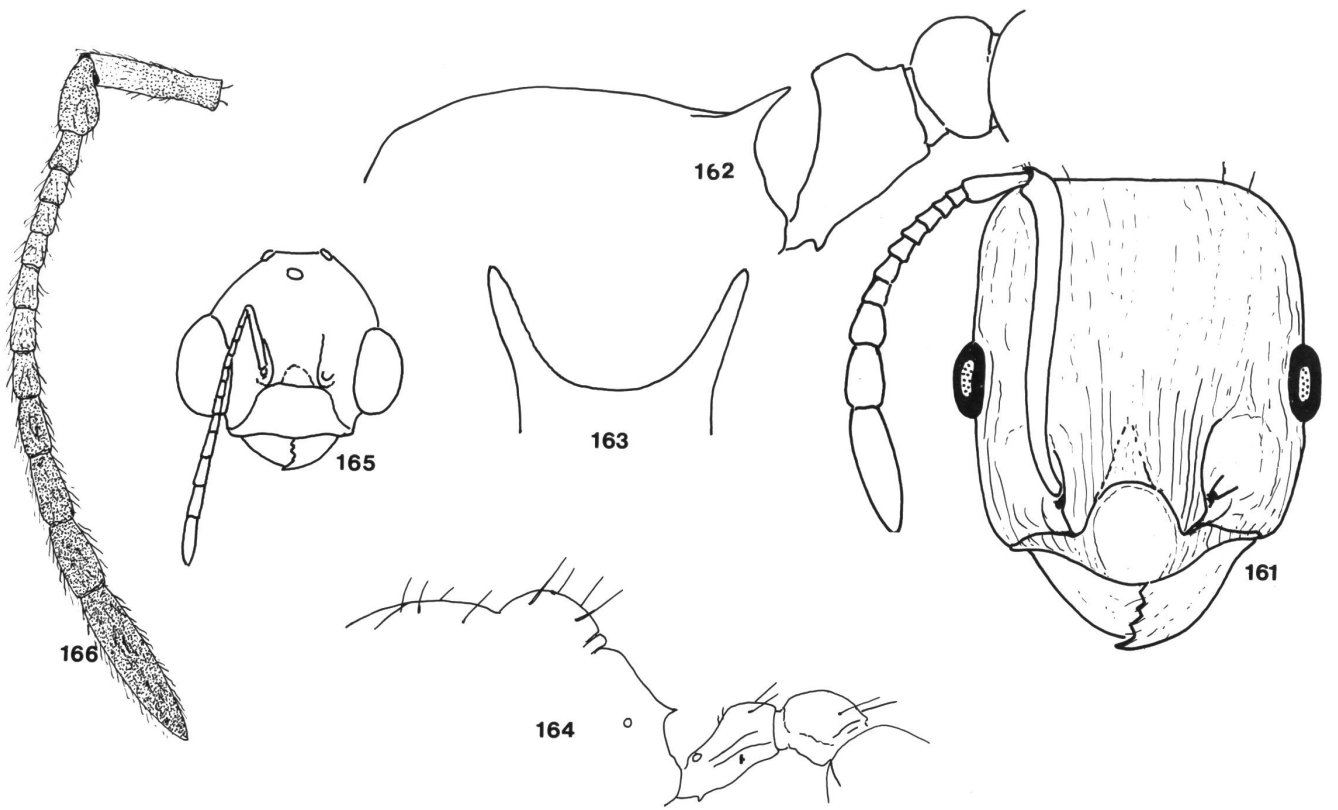


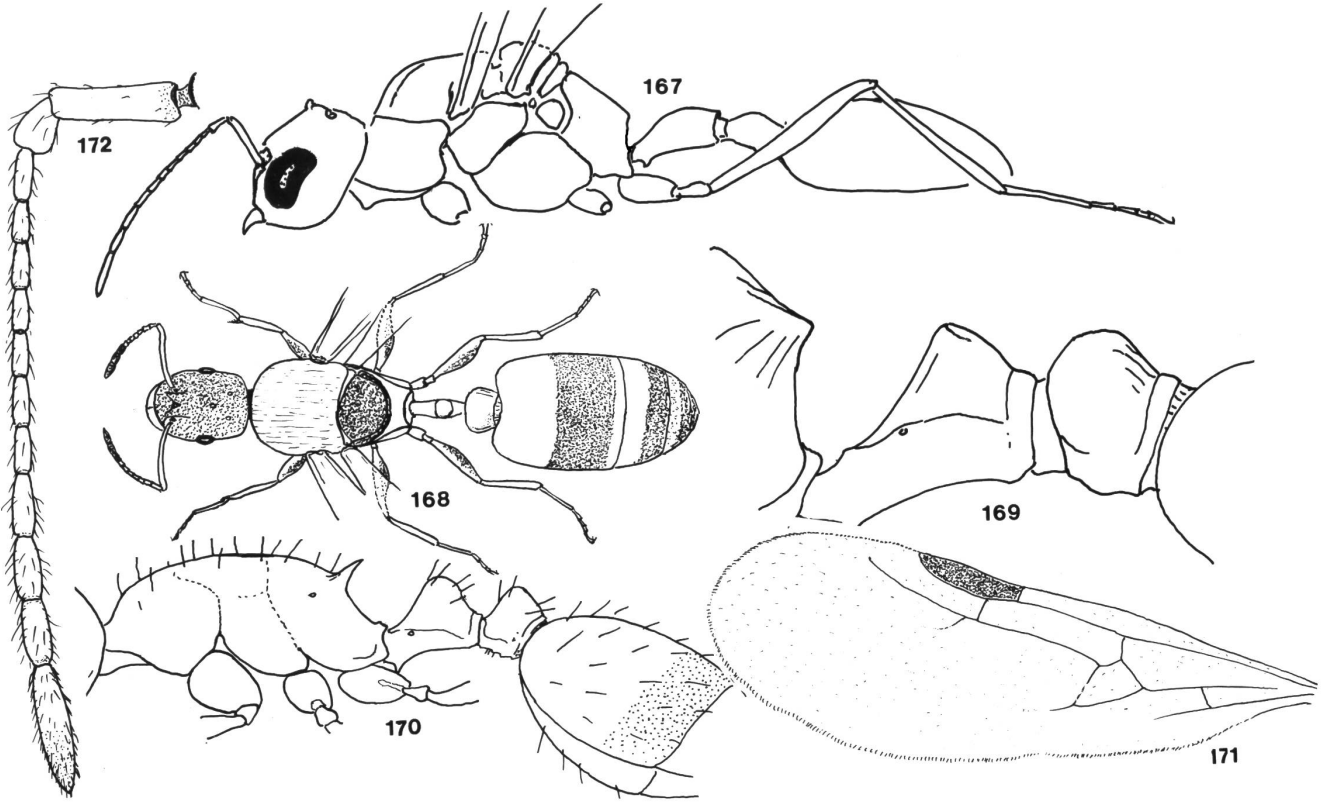


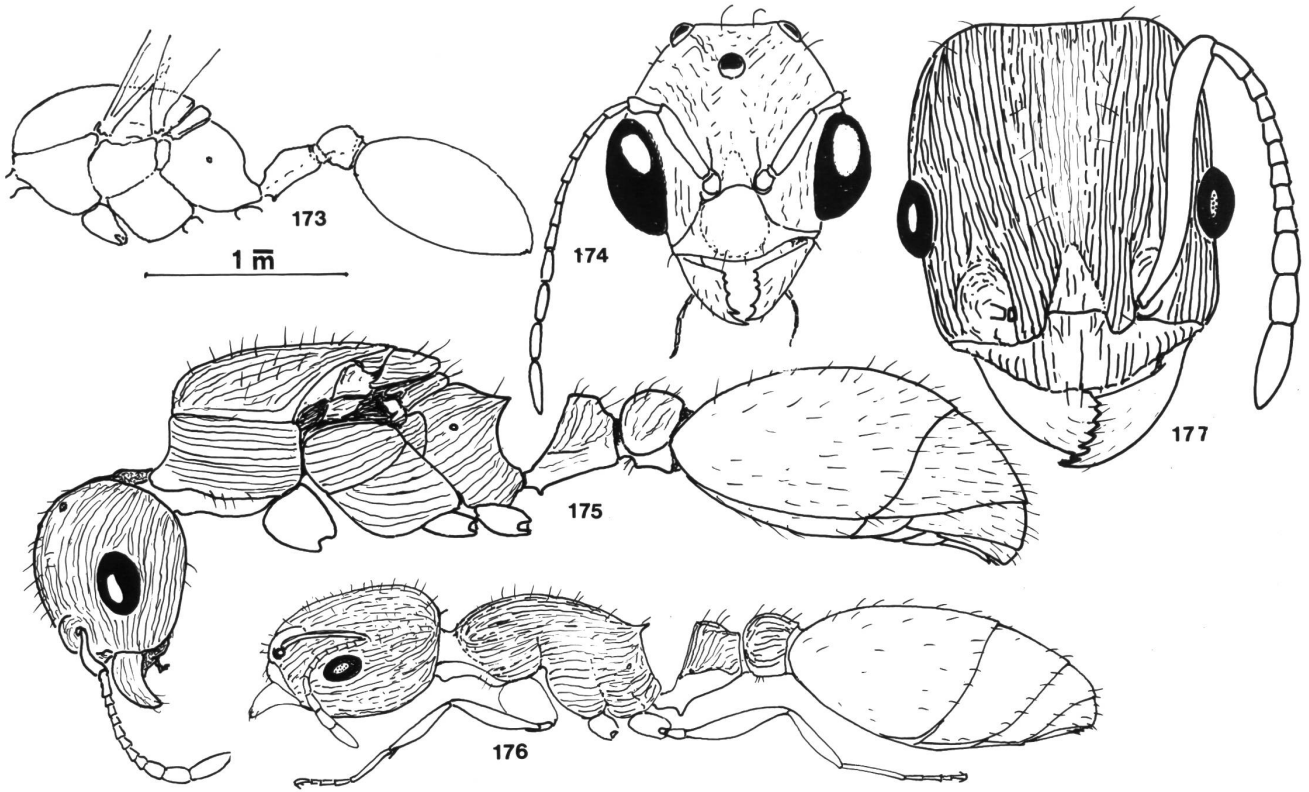


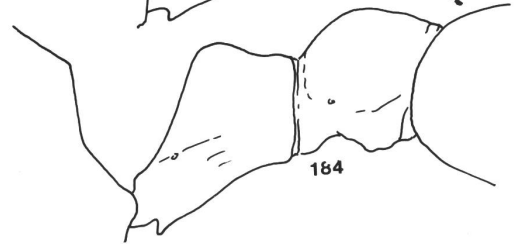
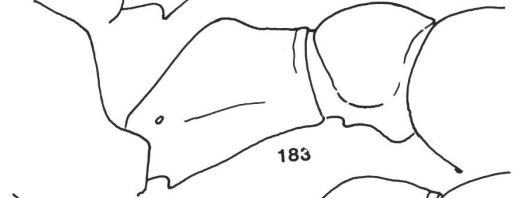
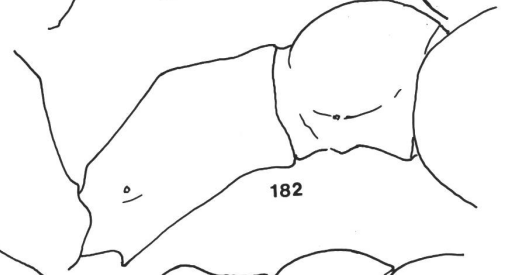
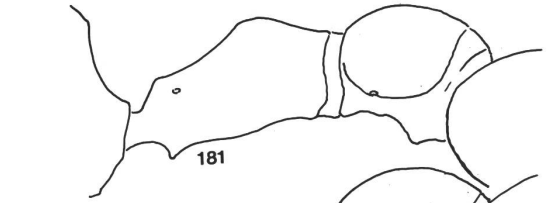
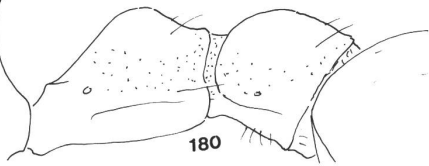
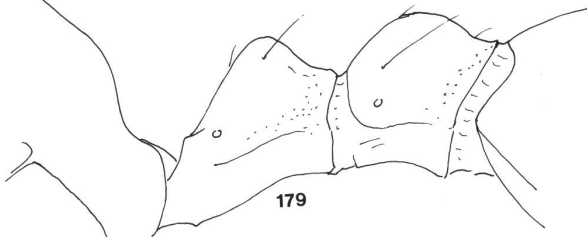
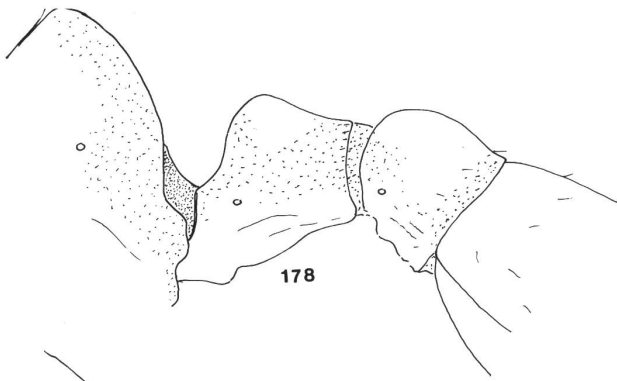


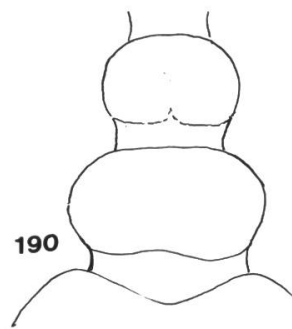
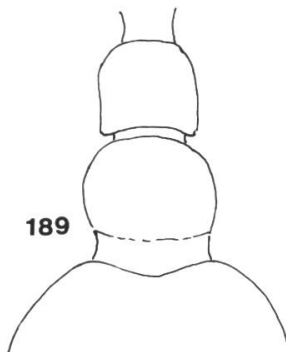
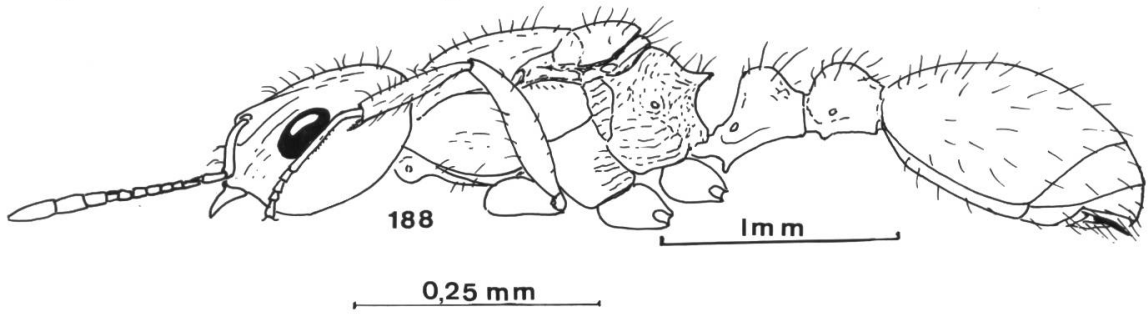
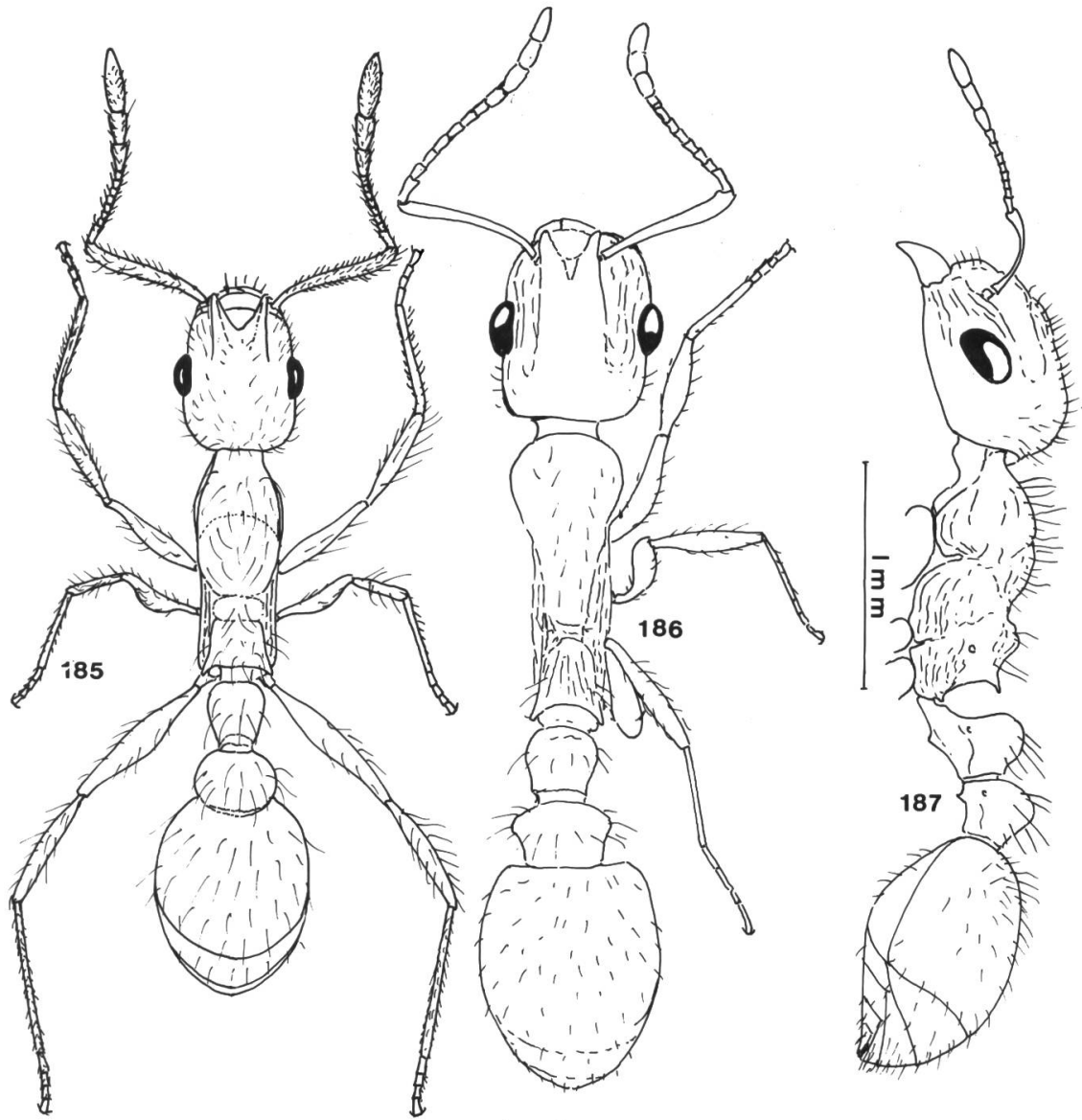


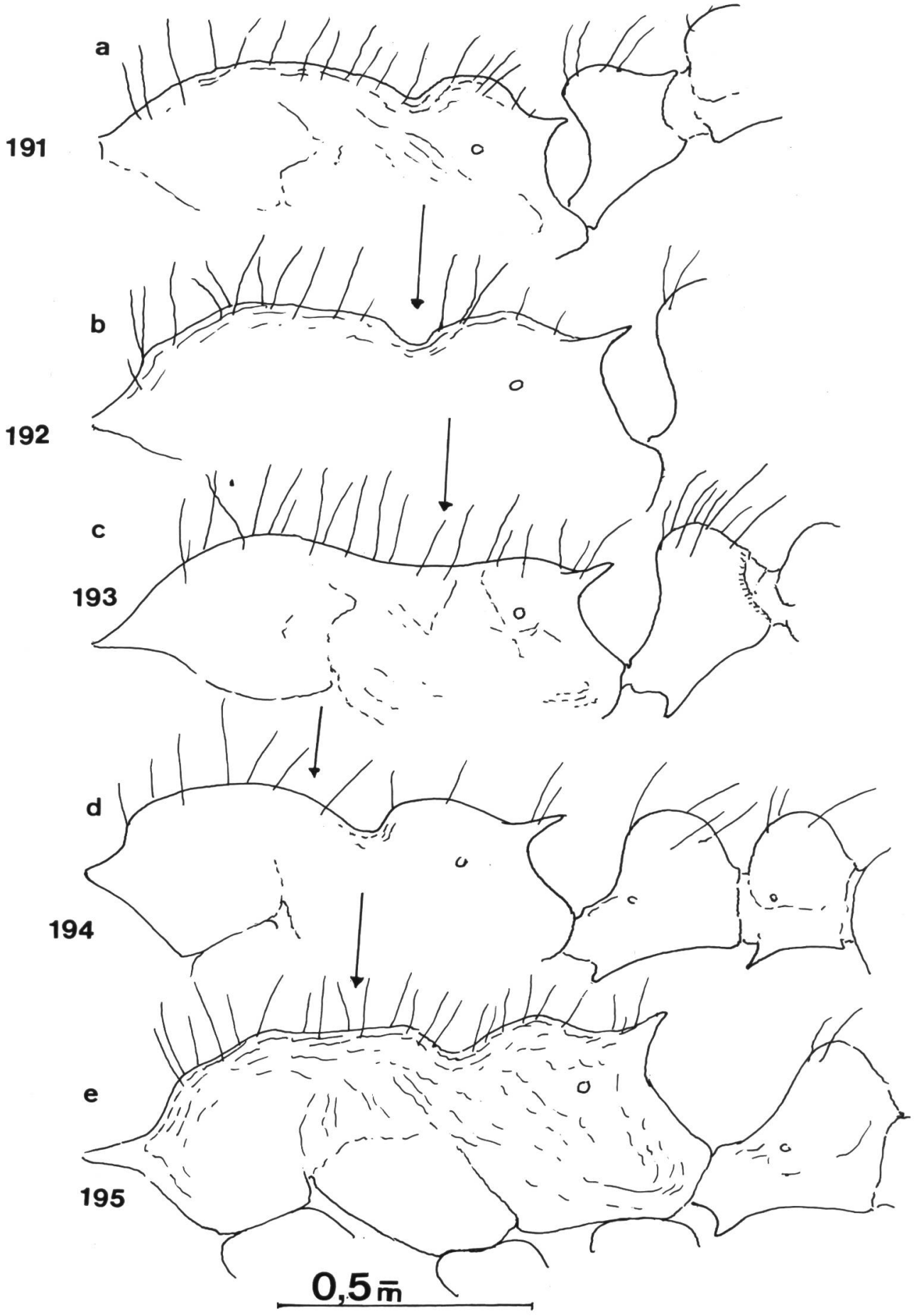


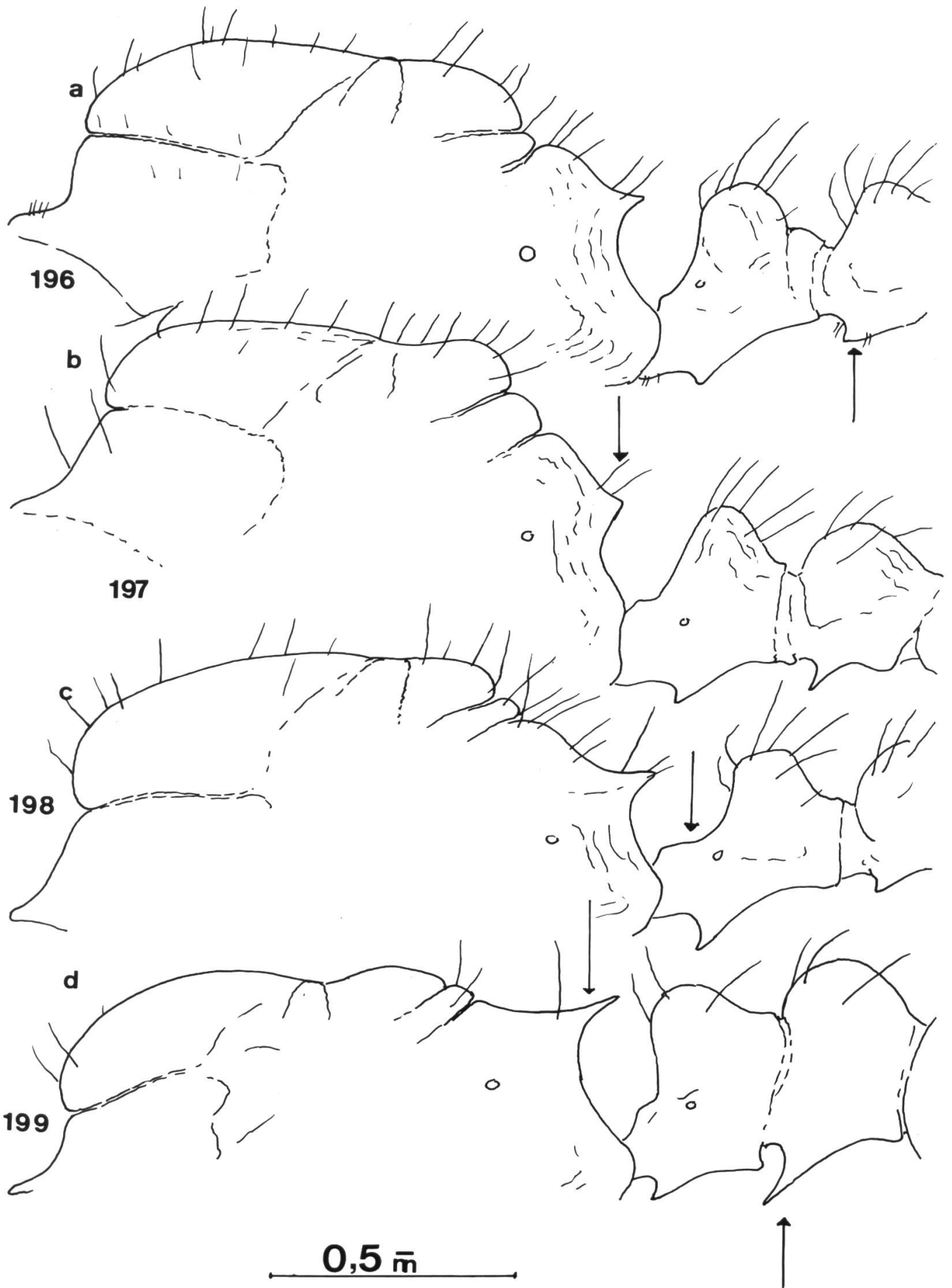


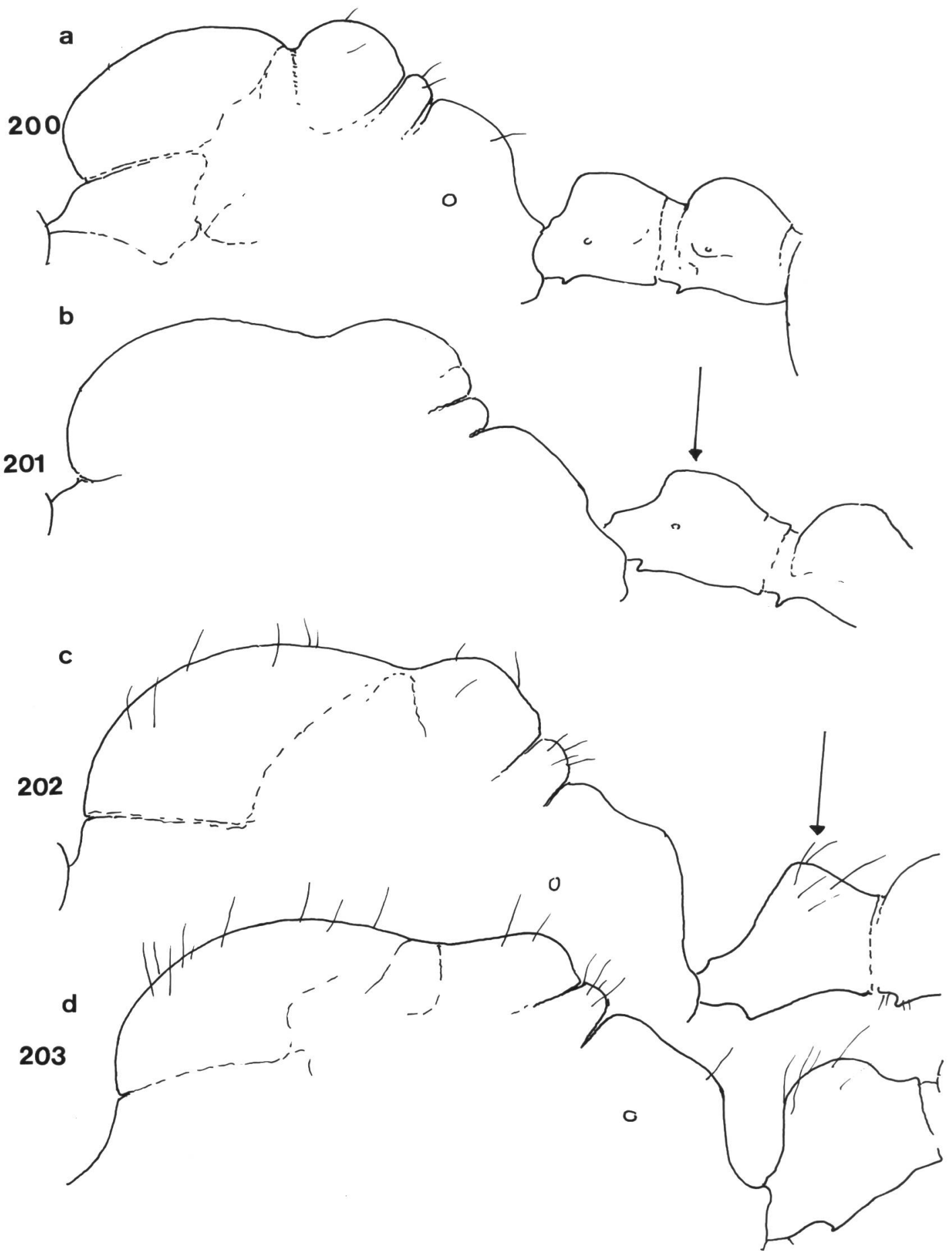


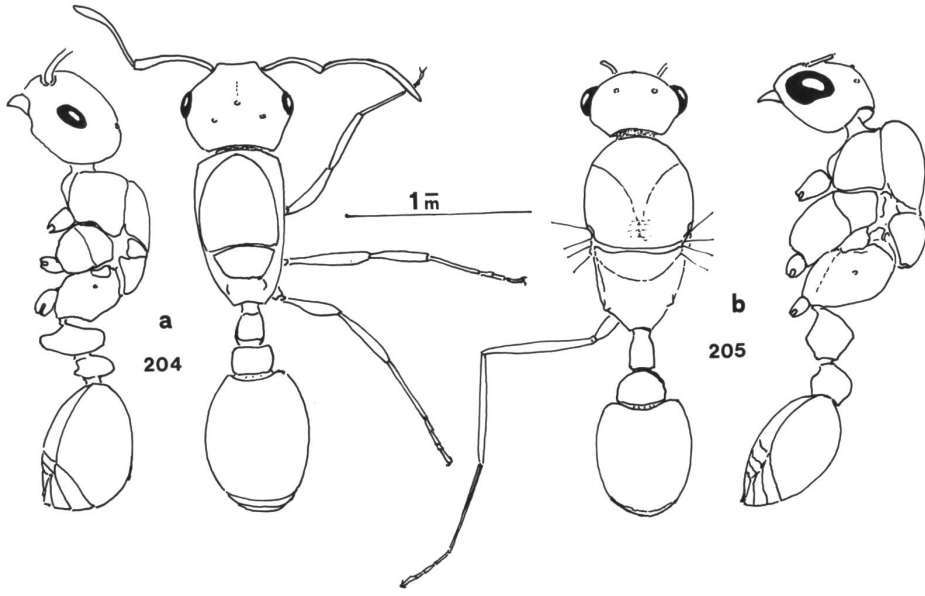








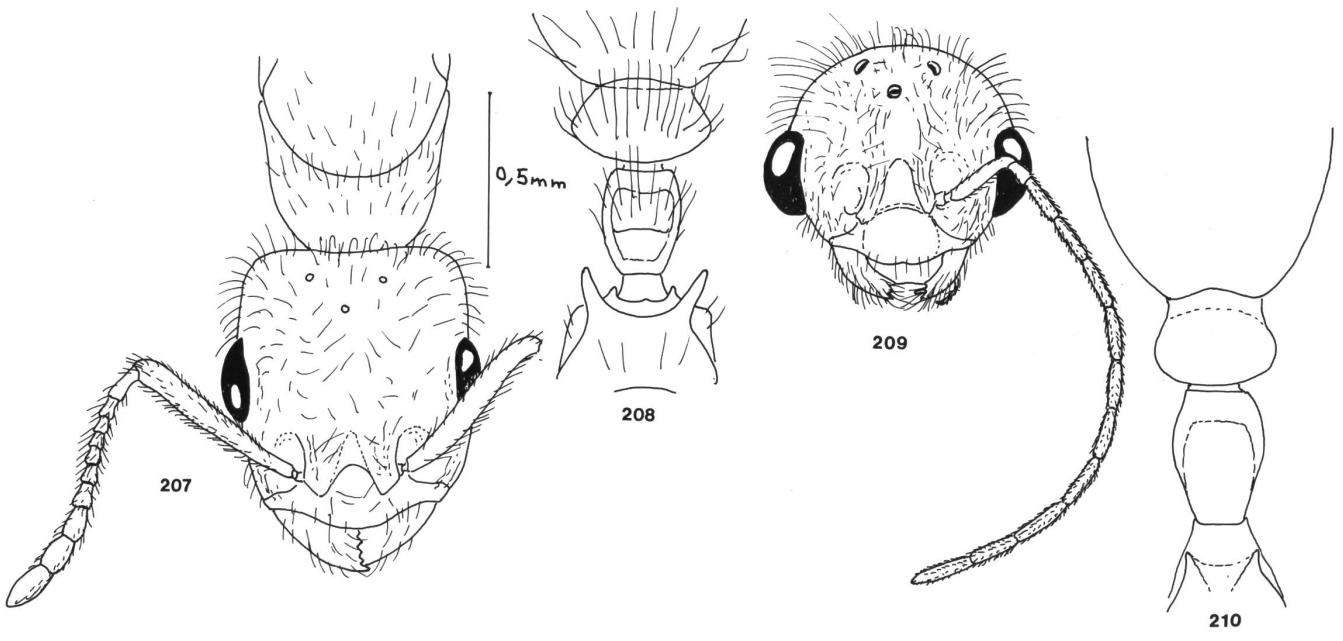


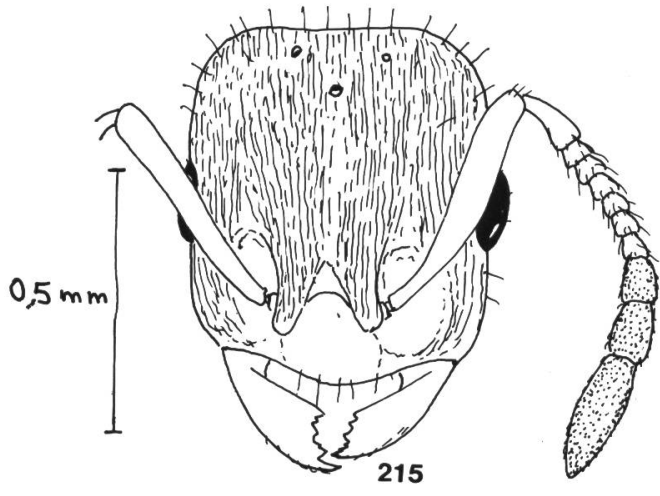
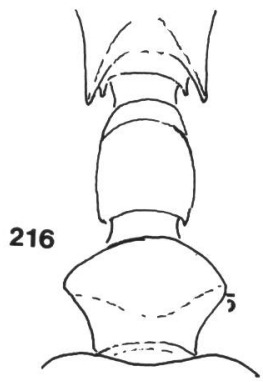
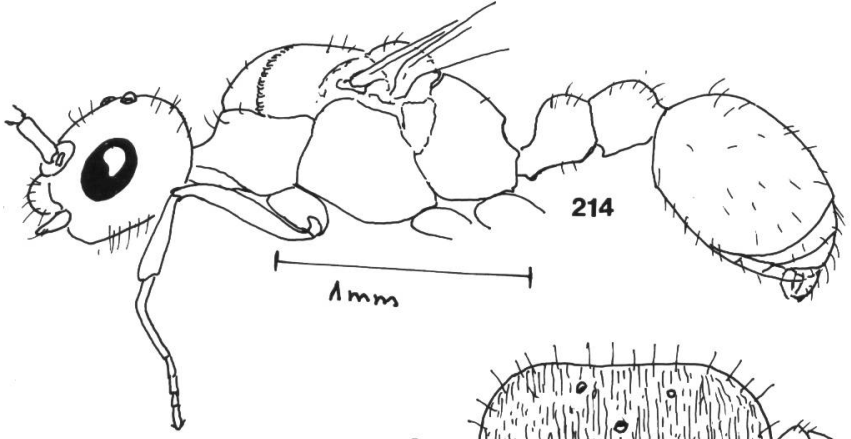
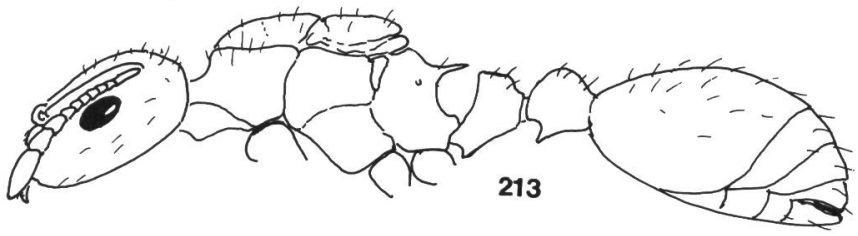
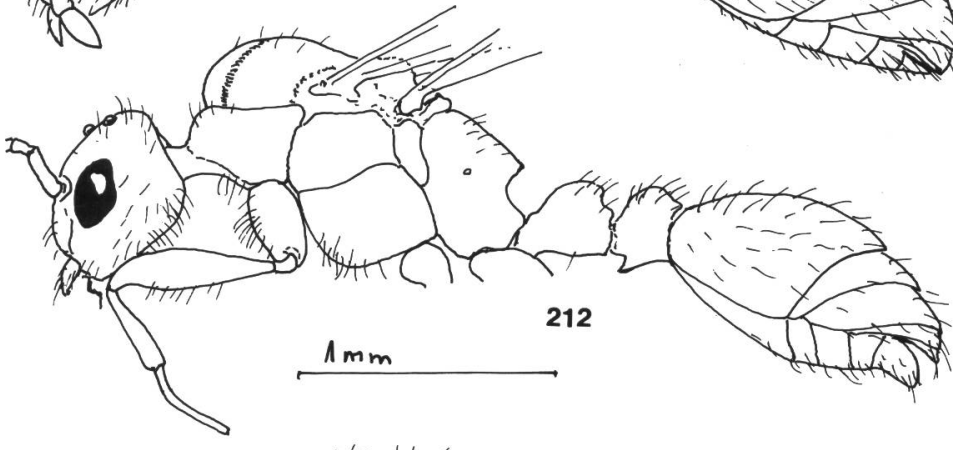
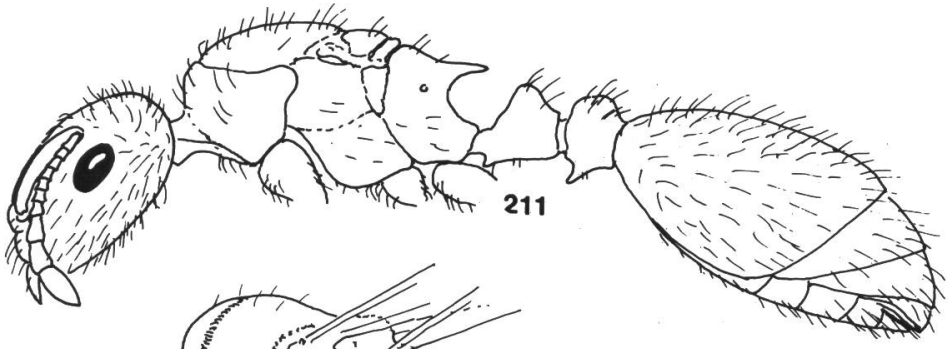


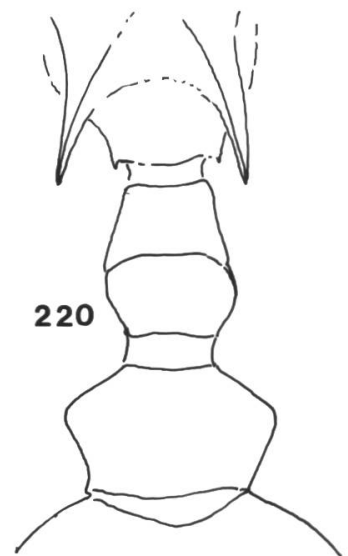
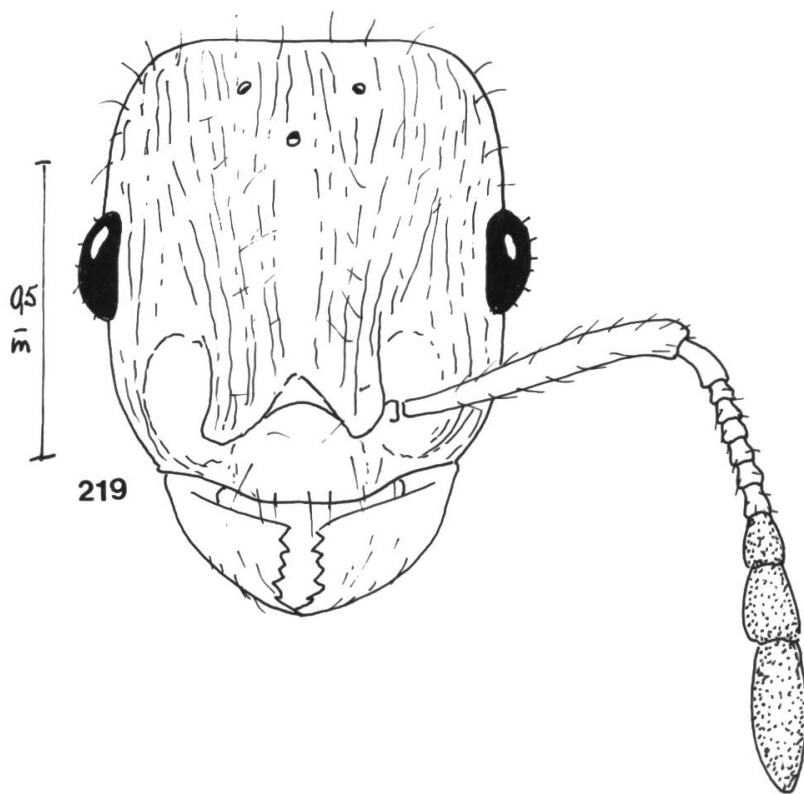
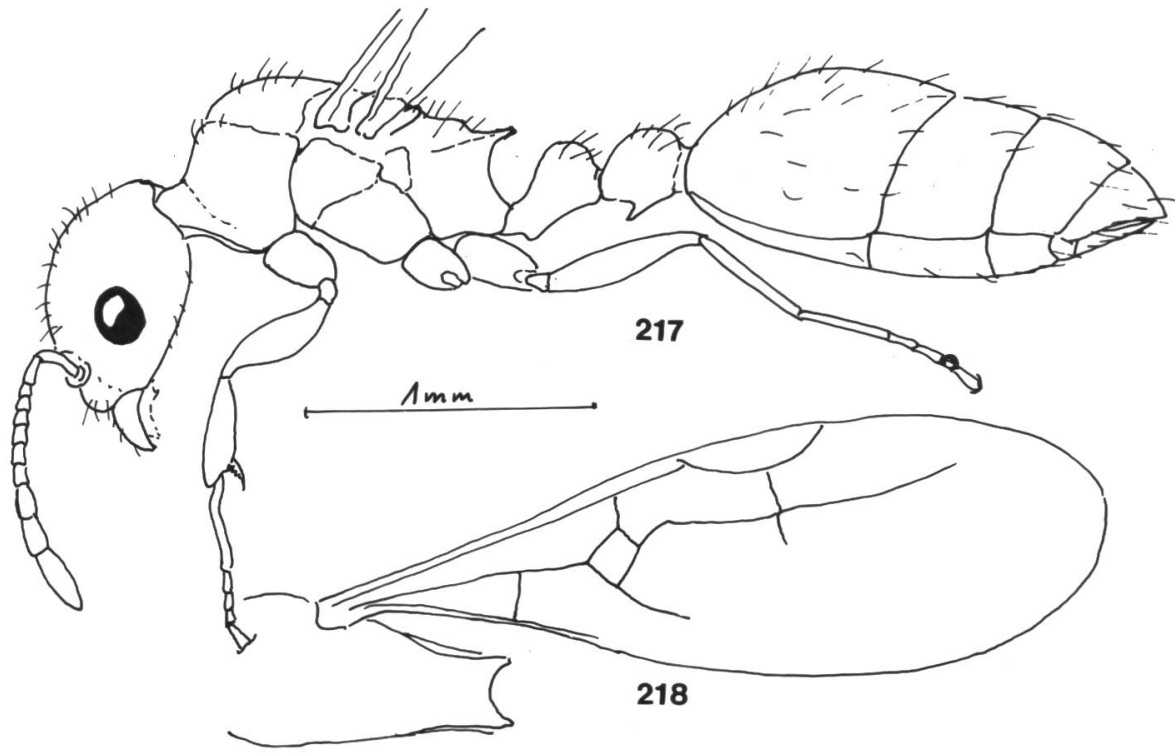
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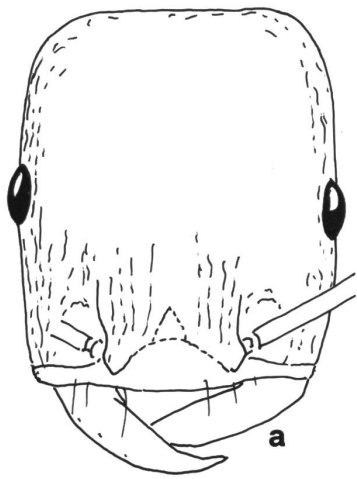
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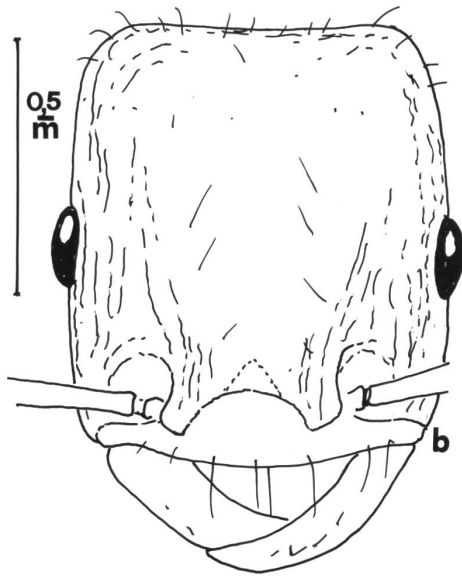




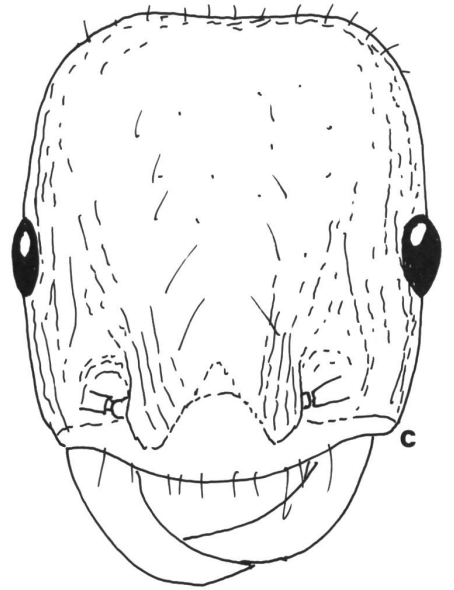




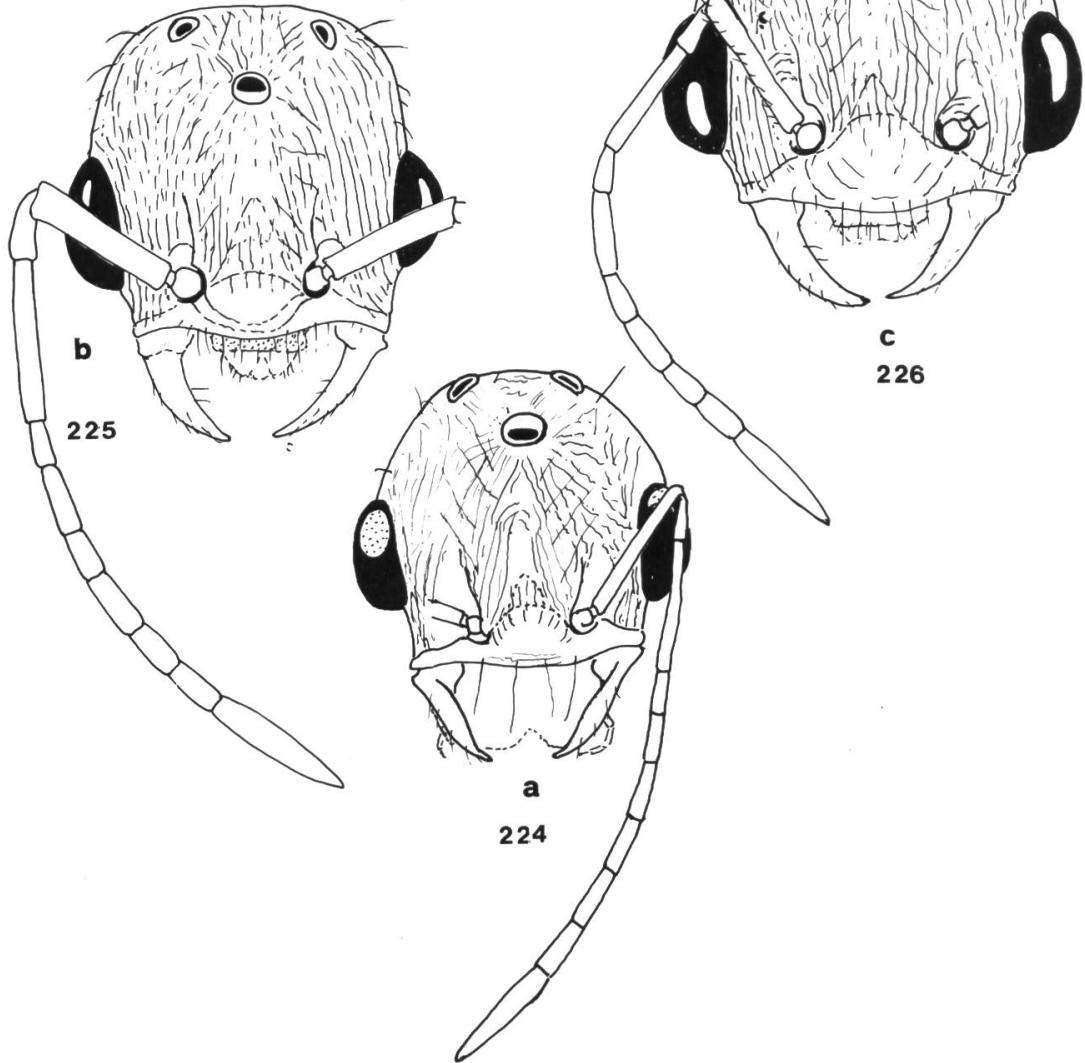
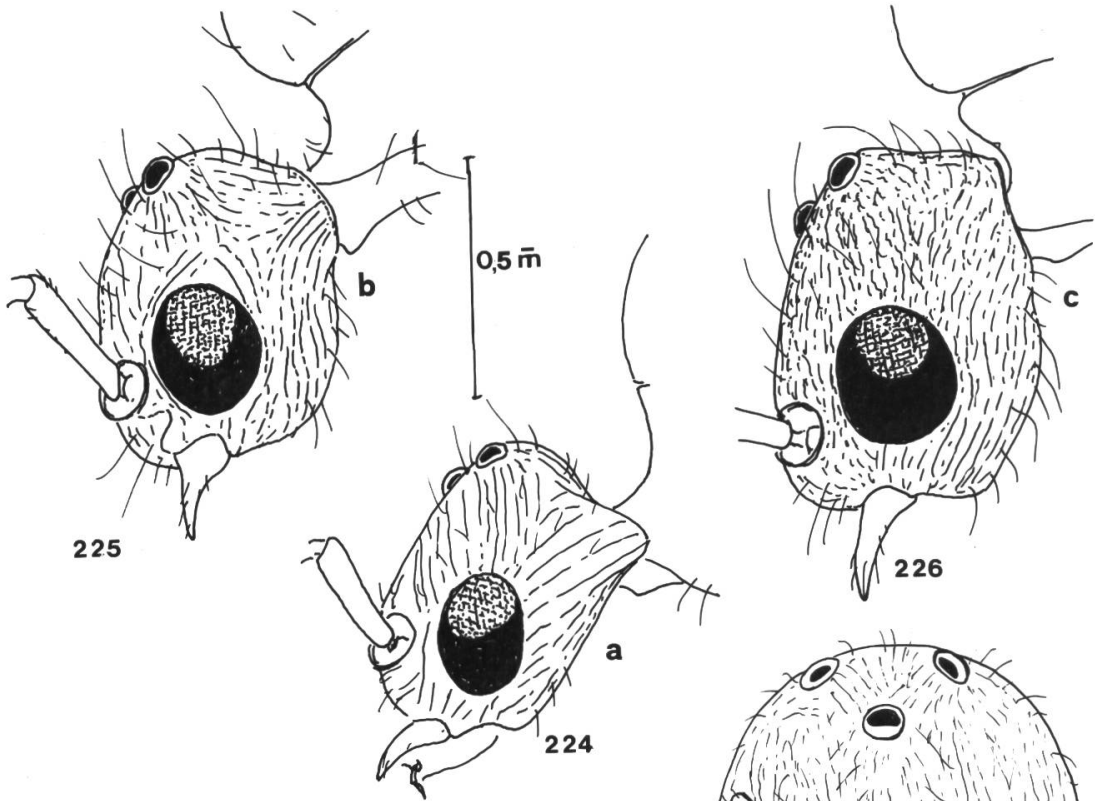
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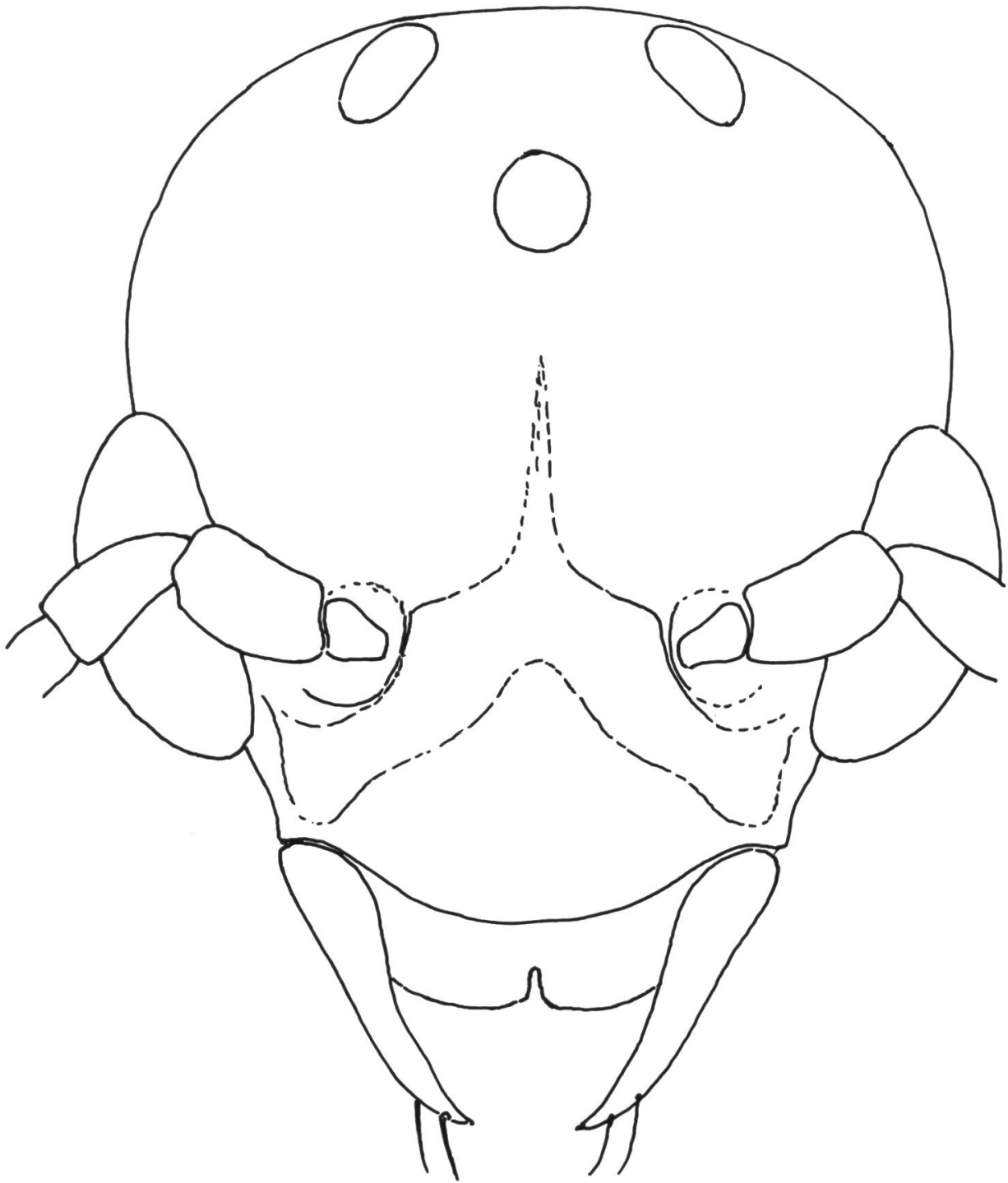


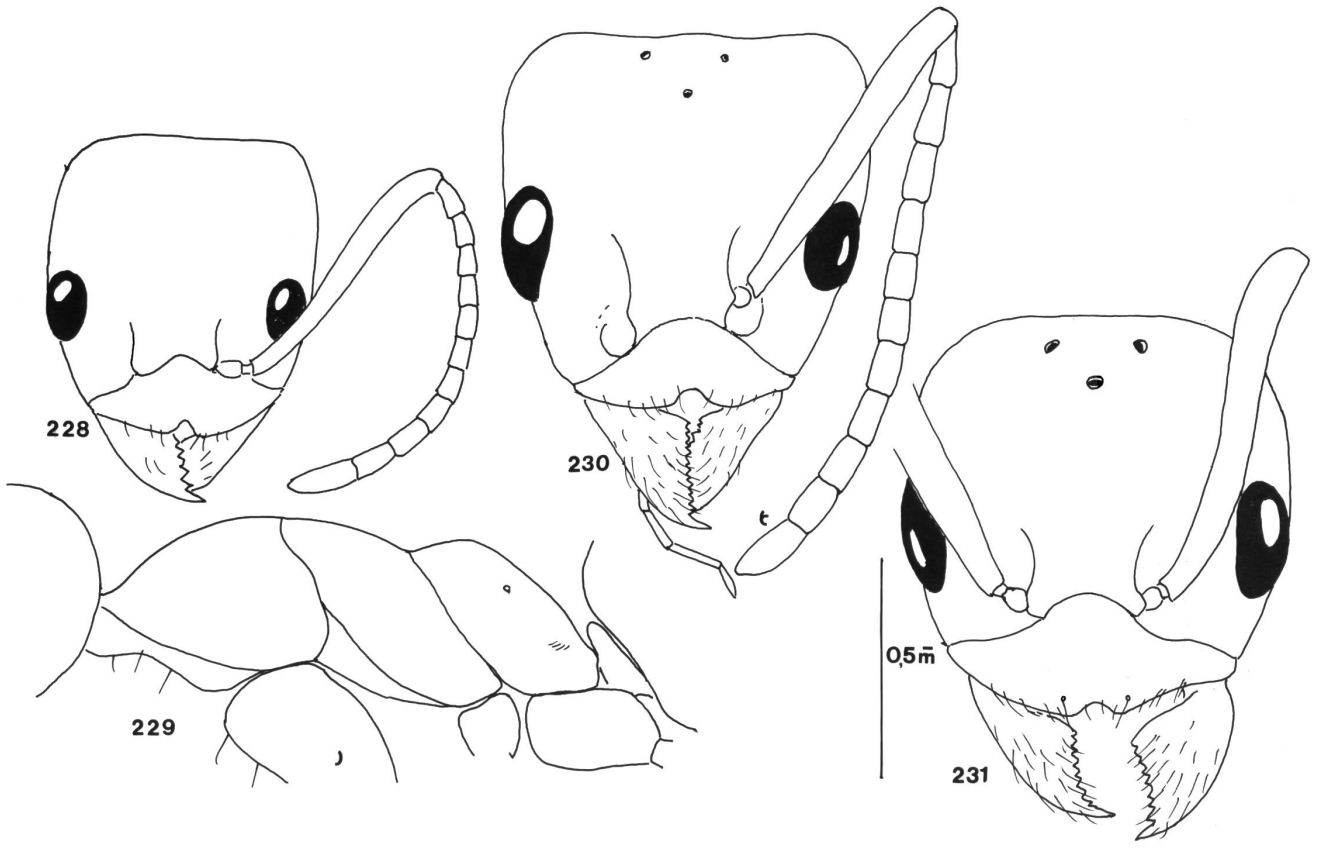
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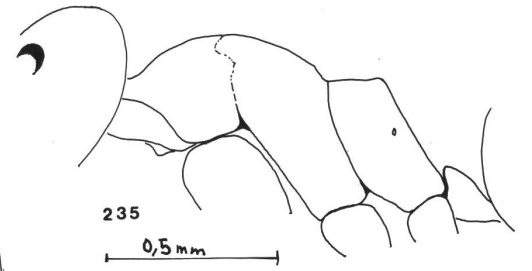
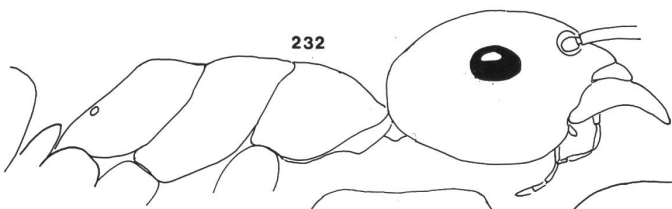


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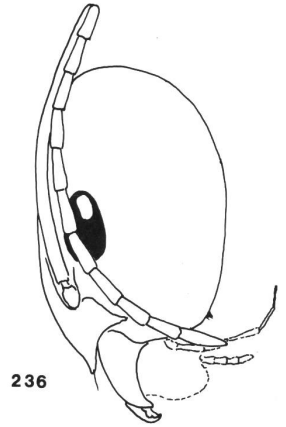
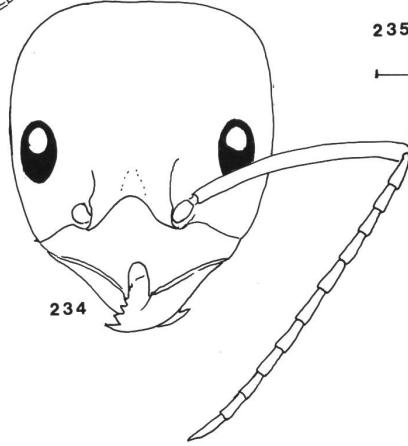
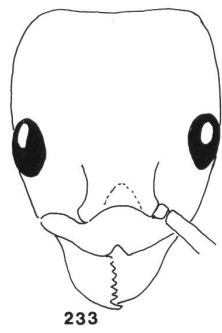






0,5 mm

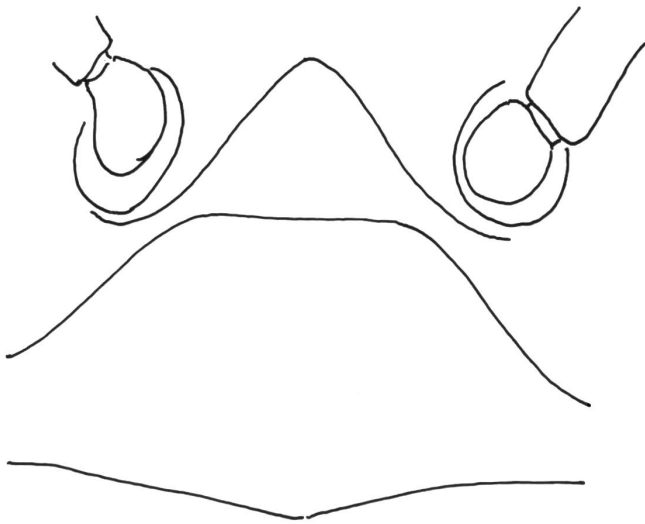
0,5 mm



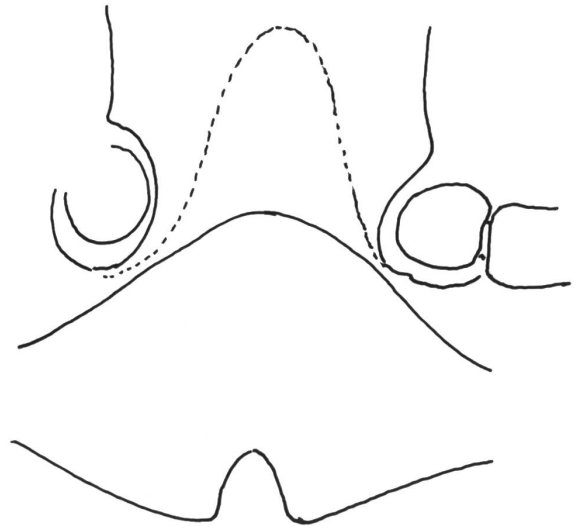
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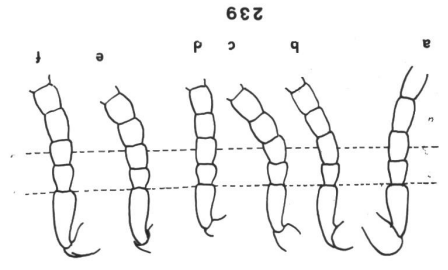
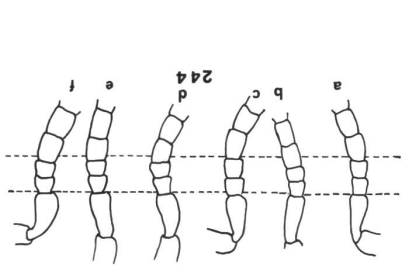
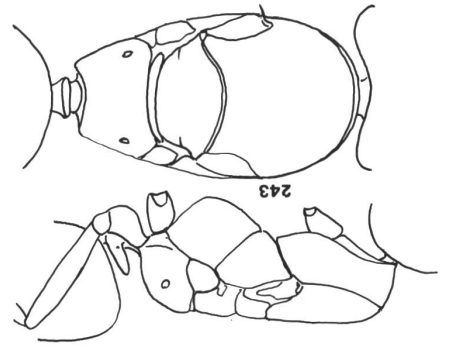
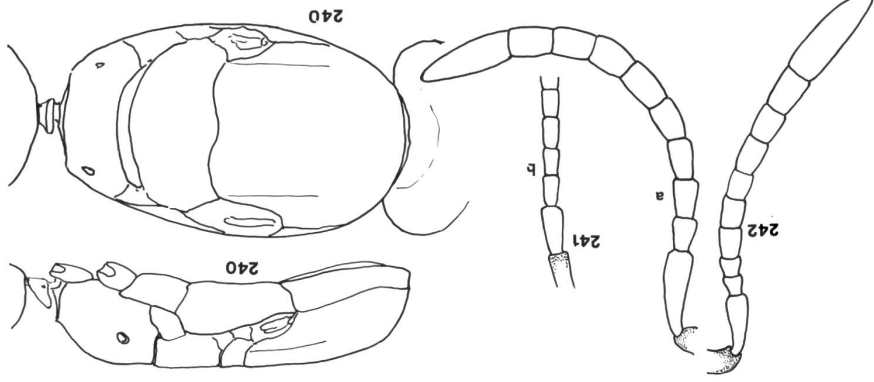
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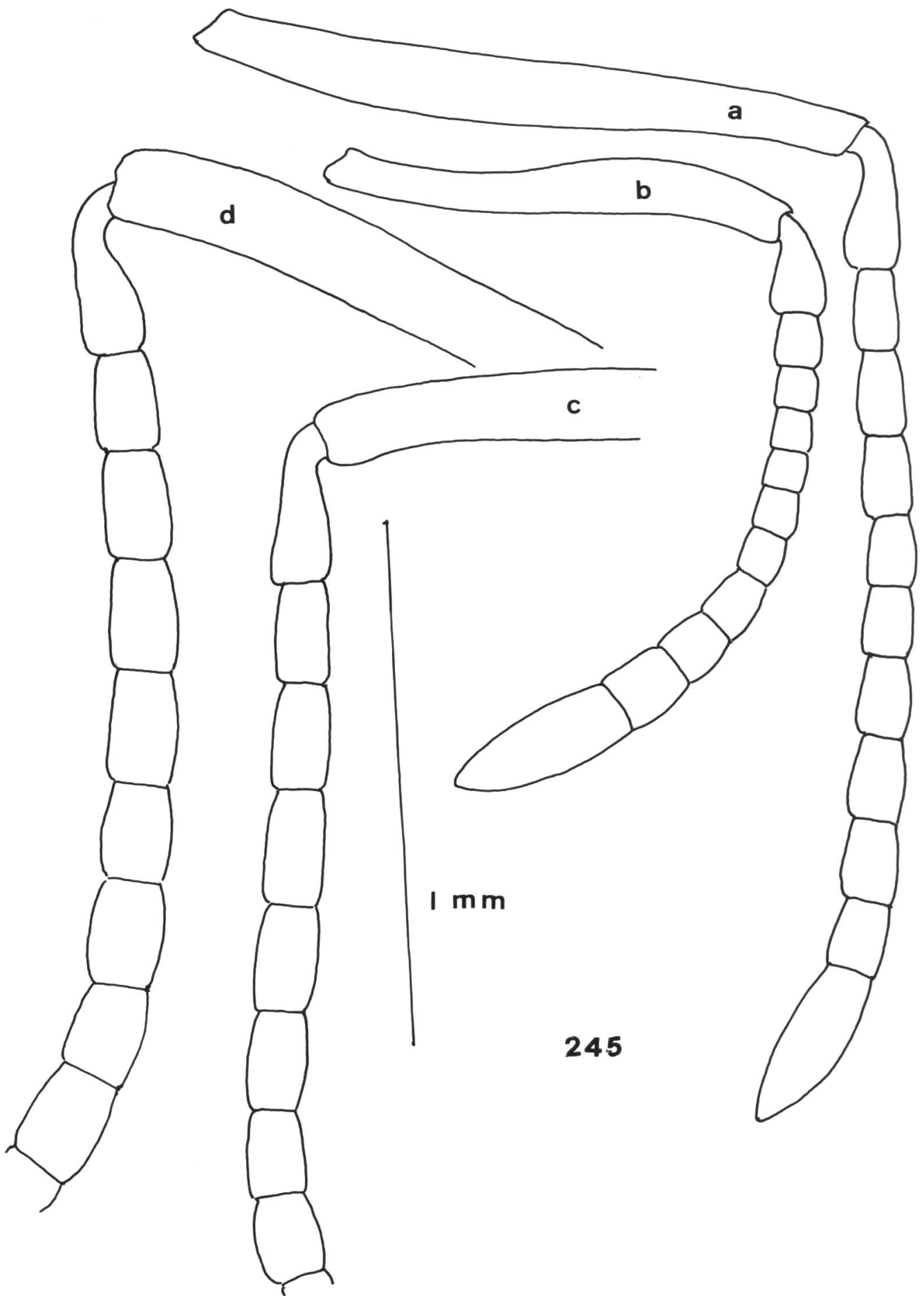


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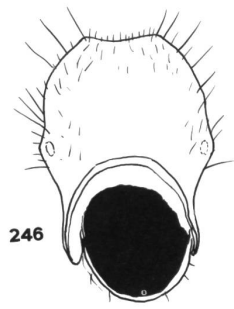


238





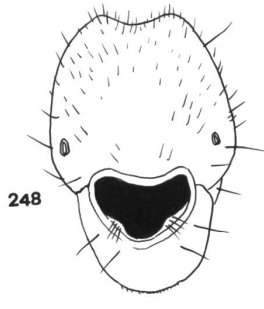
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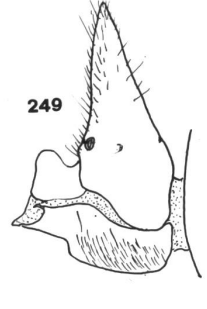
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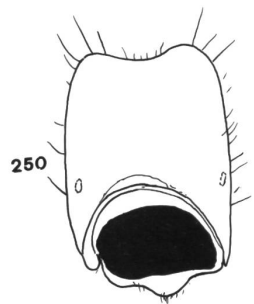
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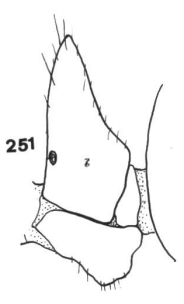
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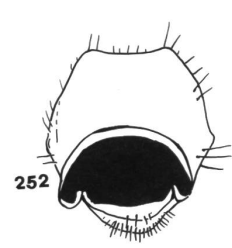
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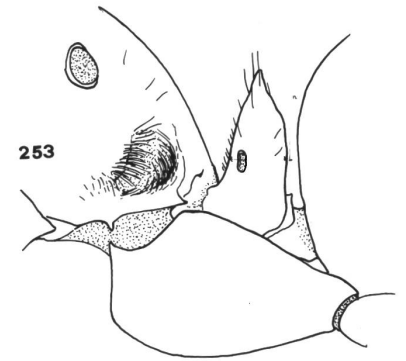
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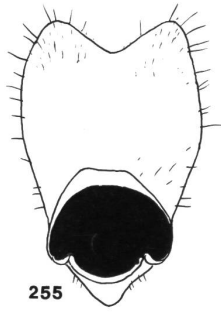
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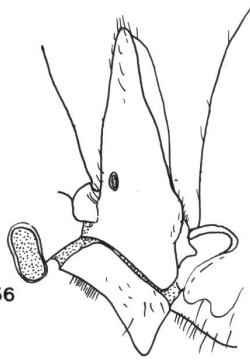
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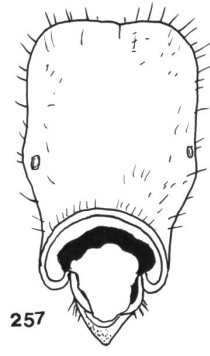
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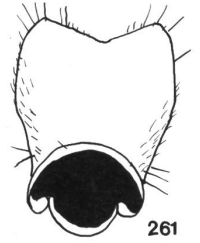
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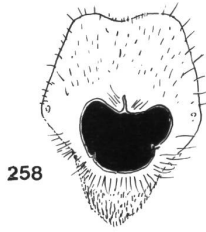
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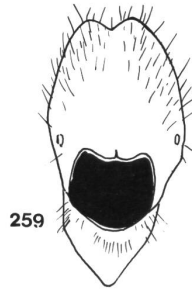
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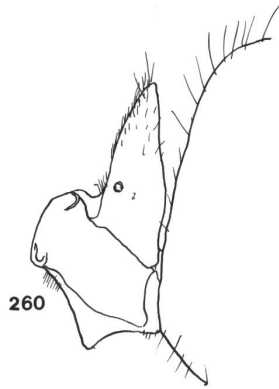
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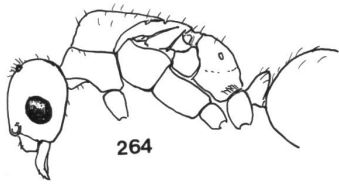
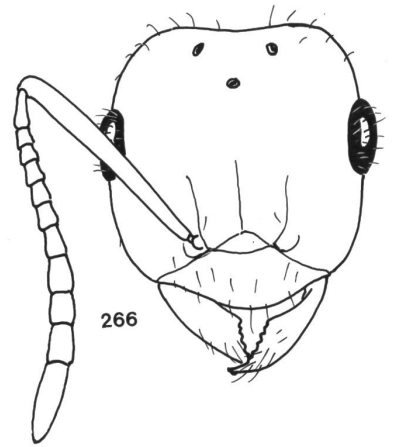
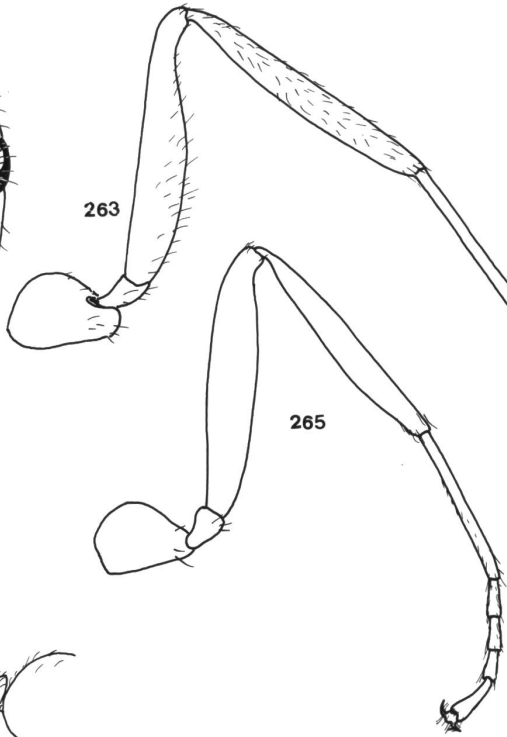
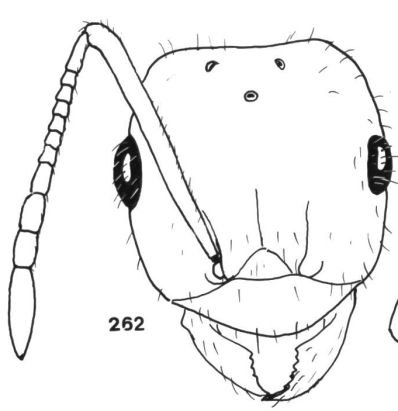
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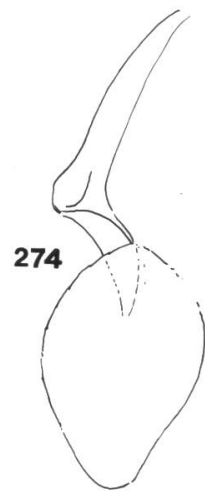
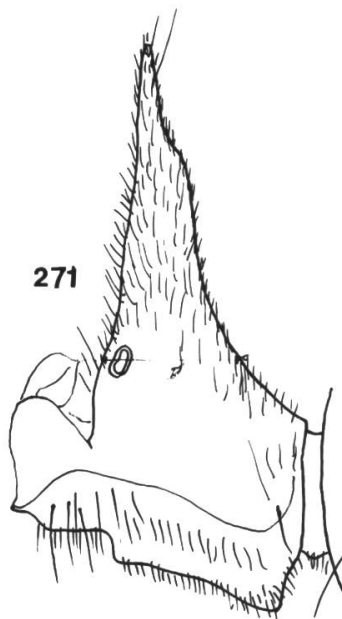
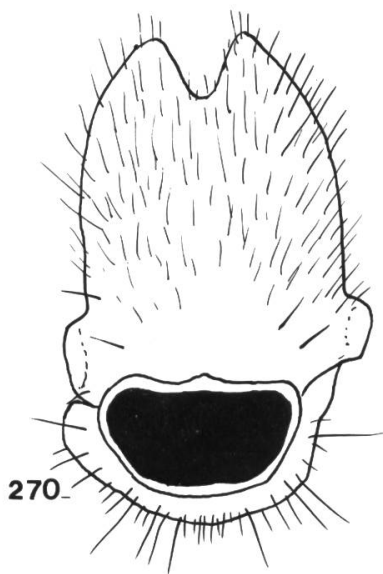
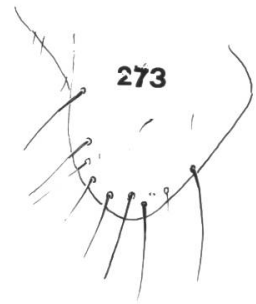
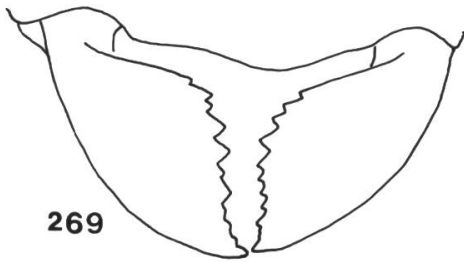
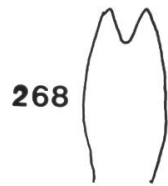
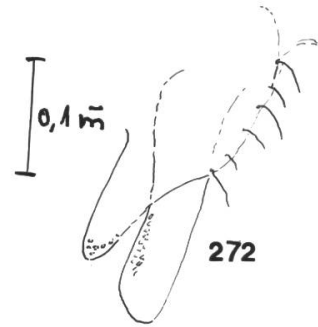
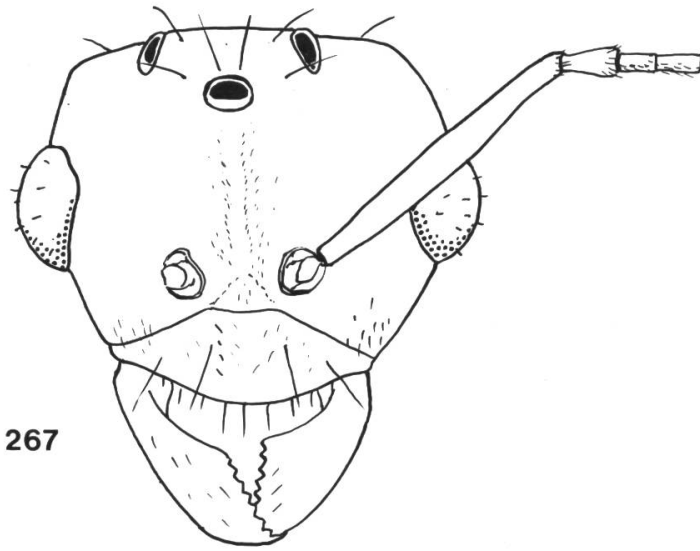


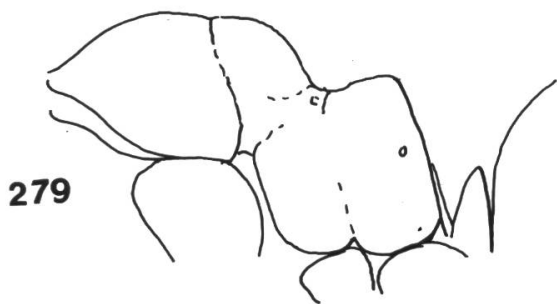
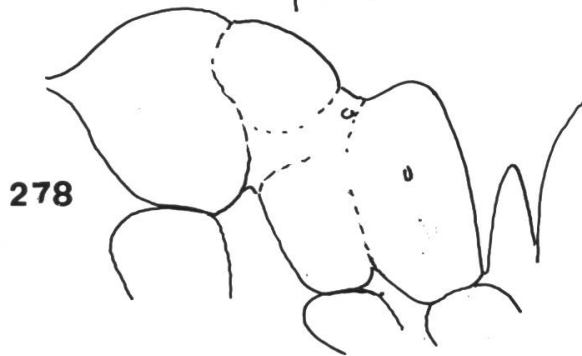
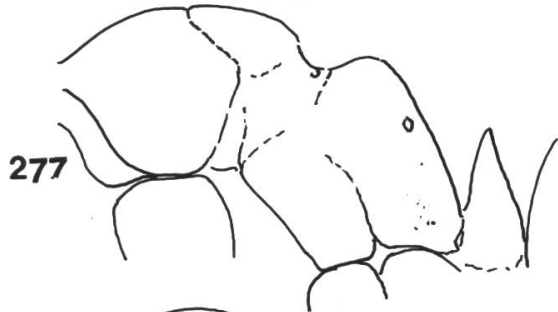
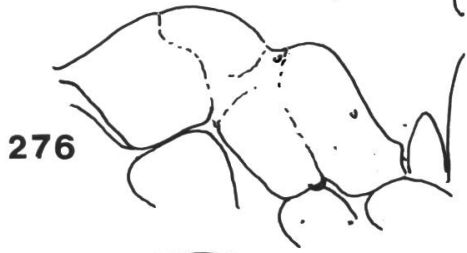
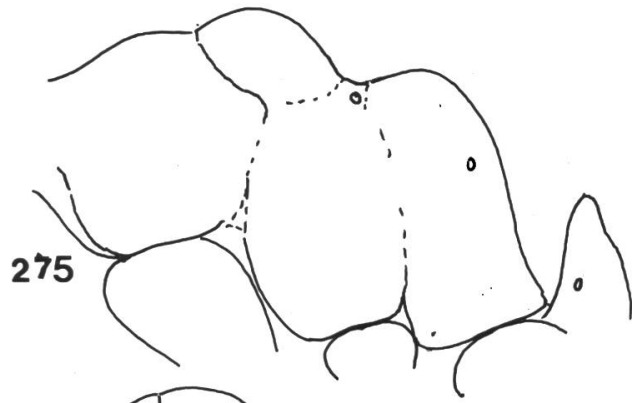
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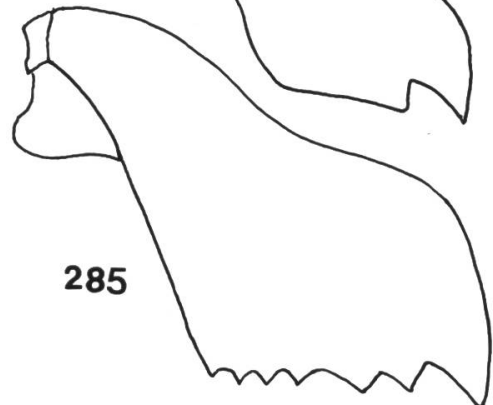
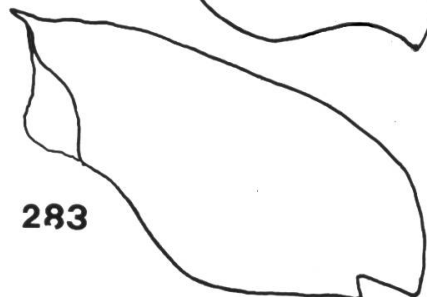
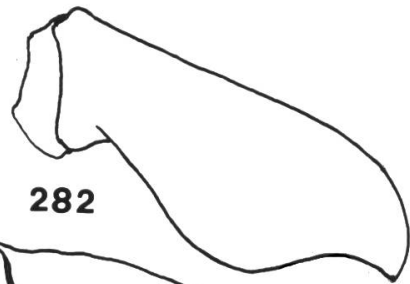
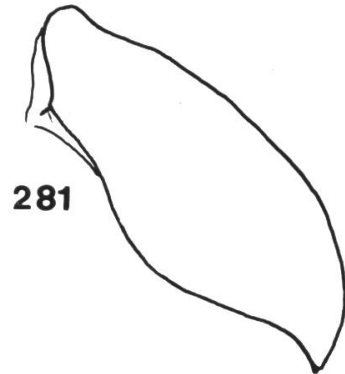
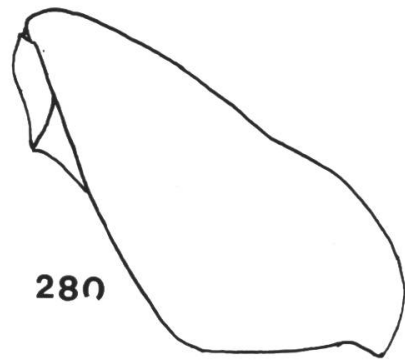
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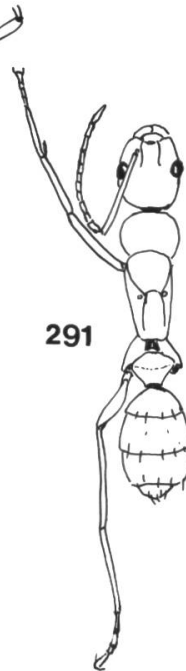
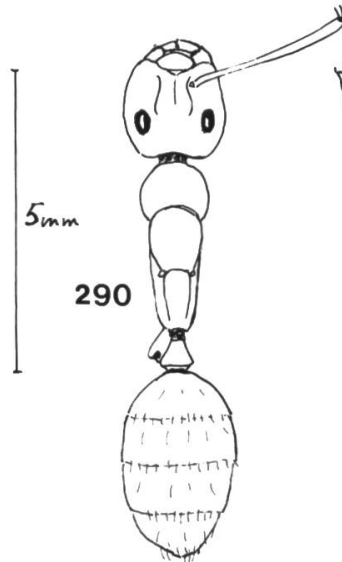
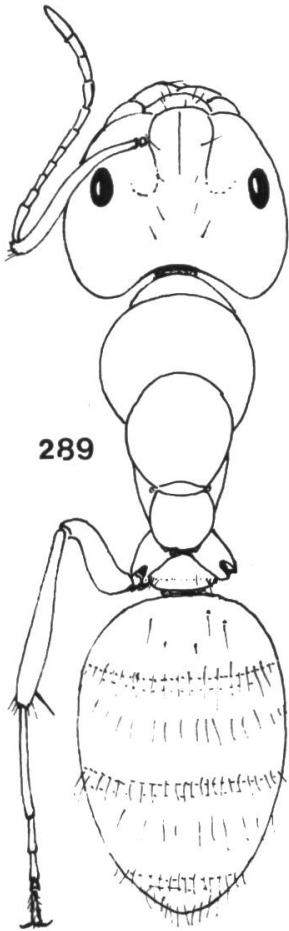
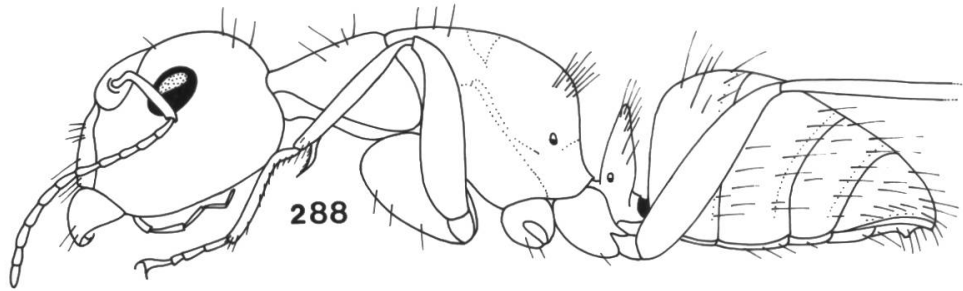
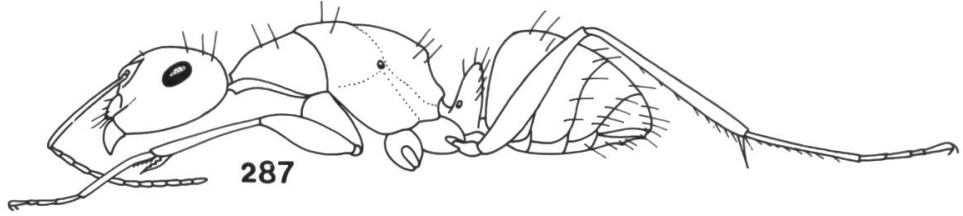
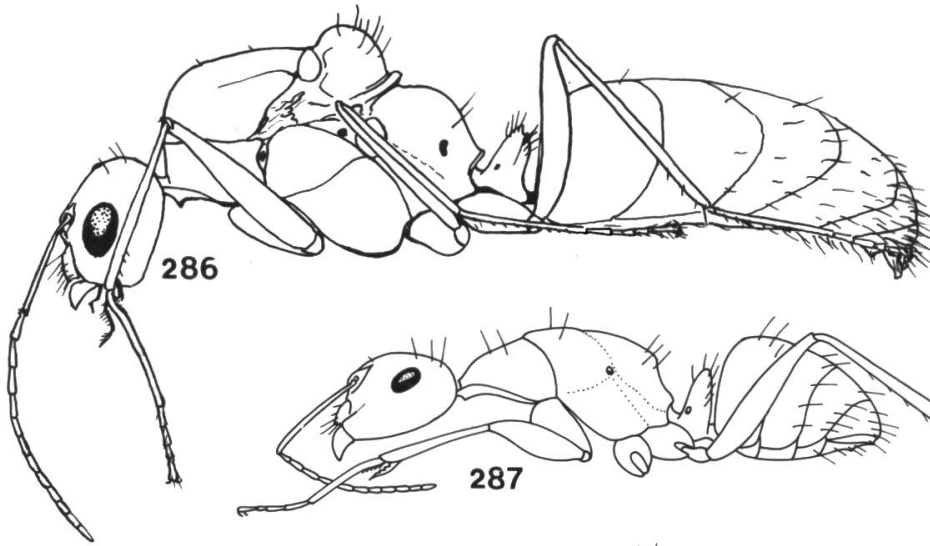


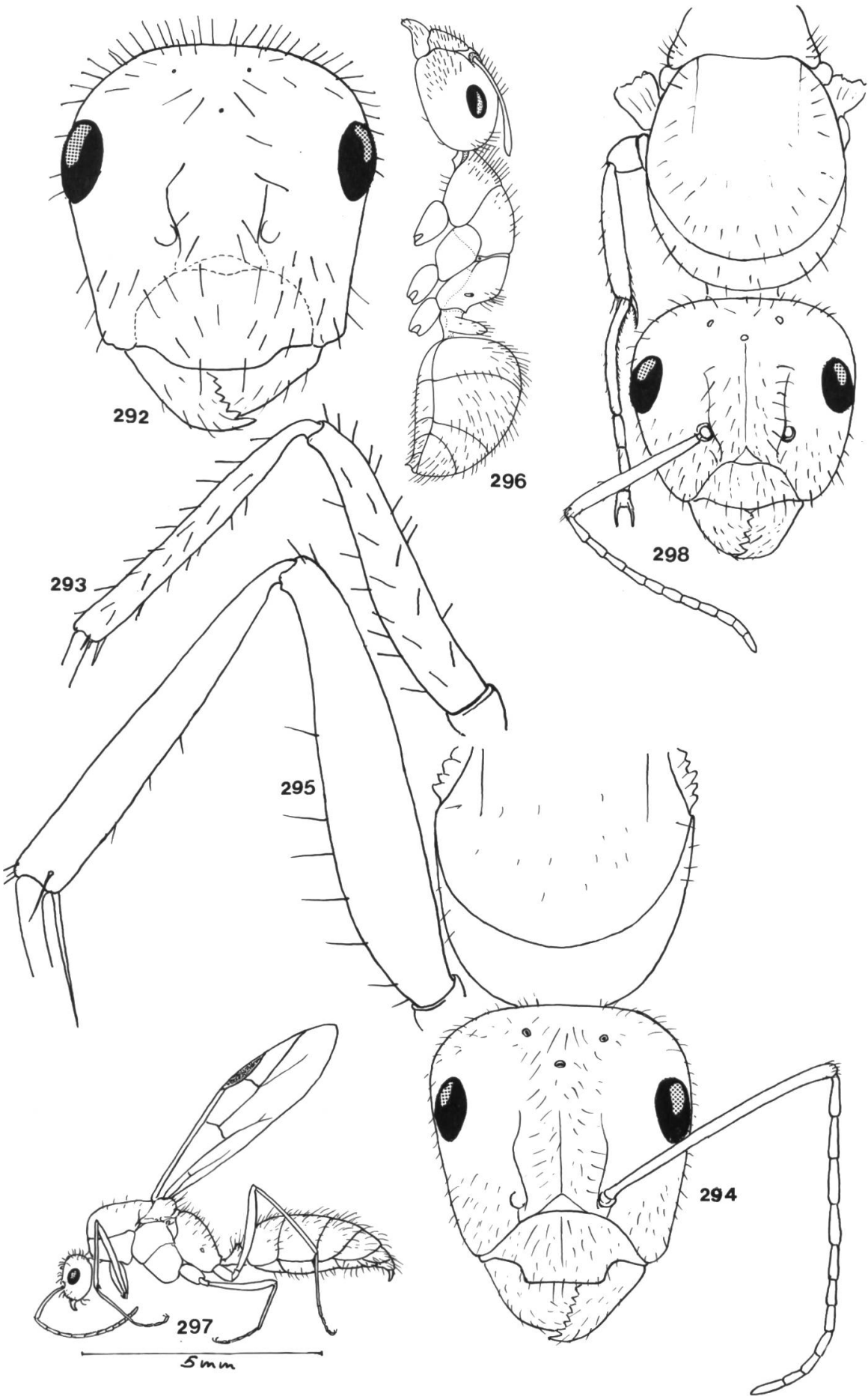


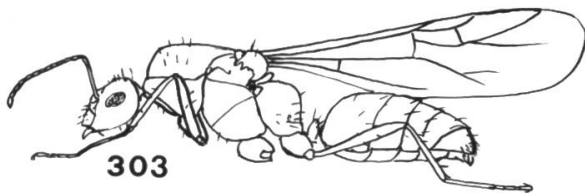
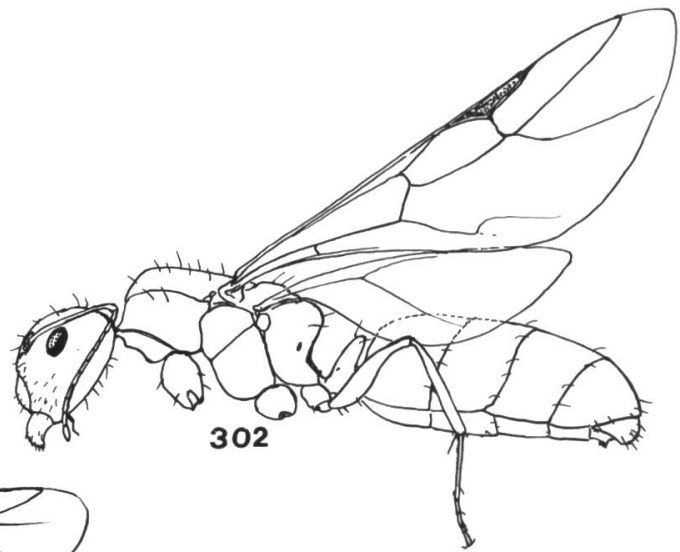
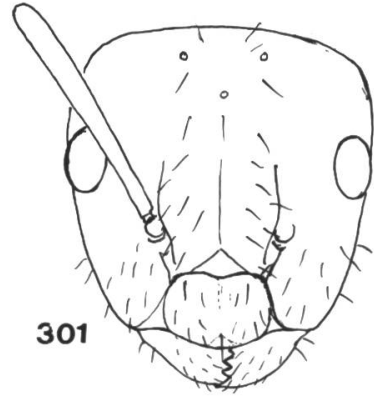
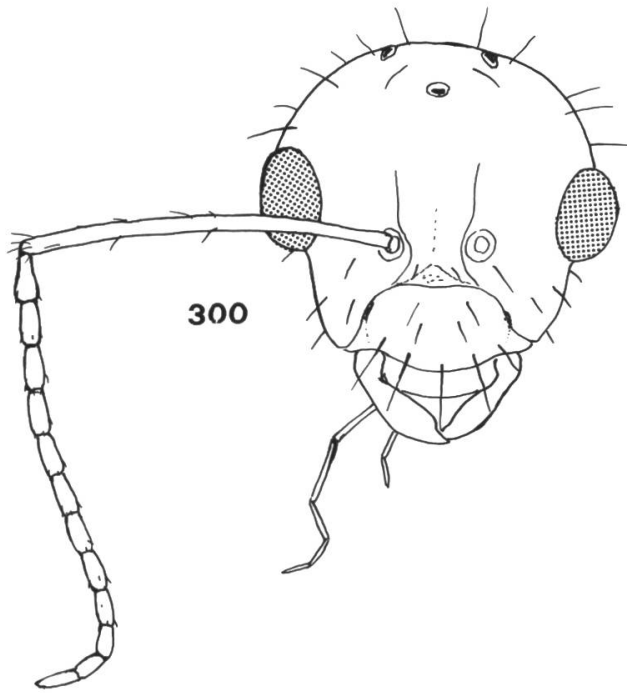
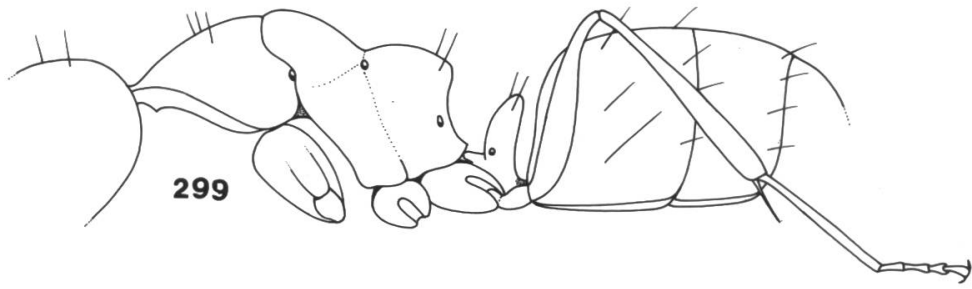


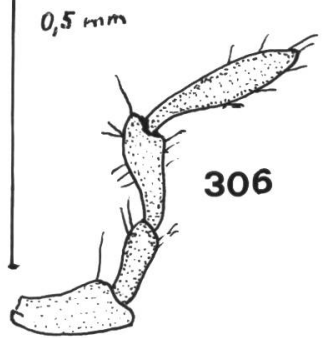
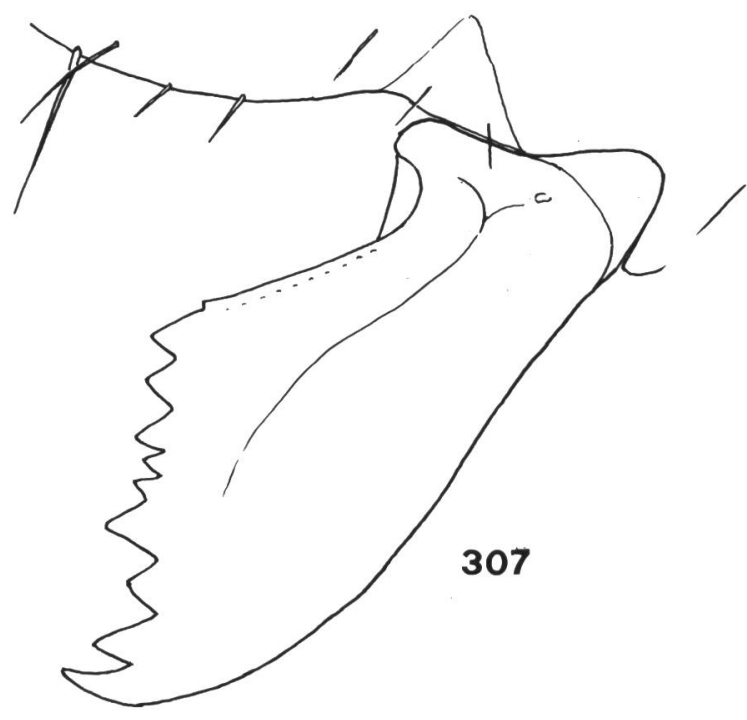
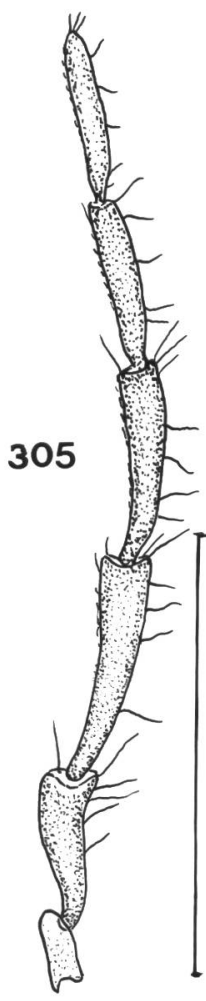
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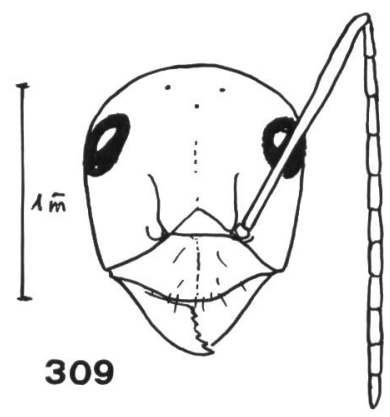
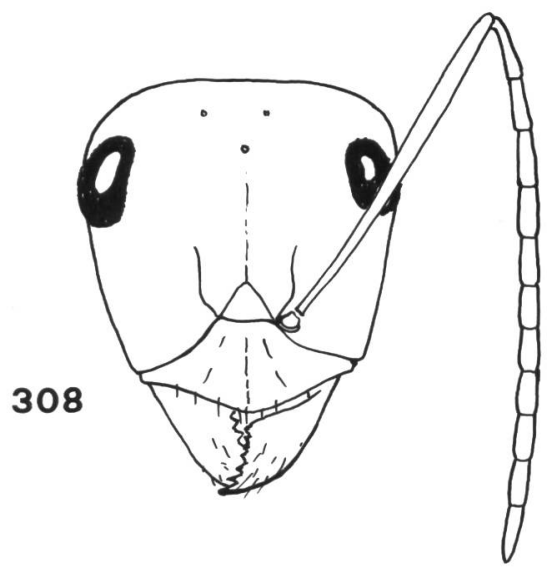




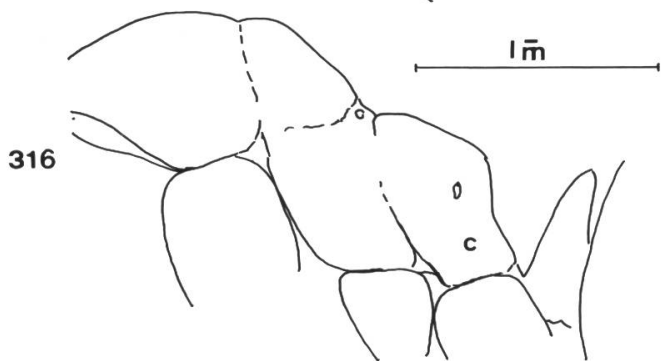
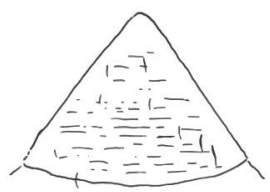
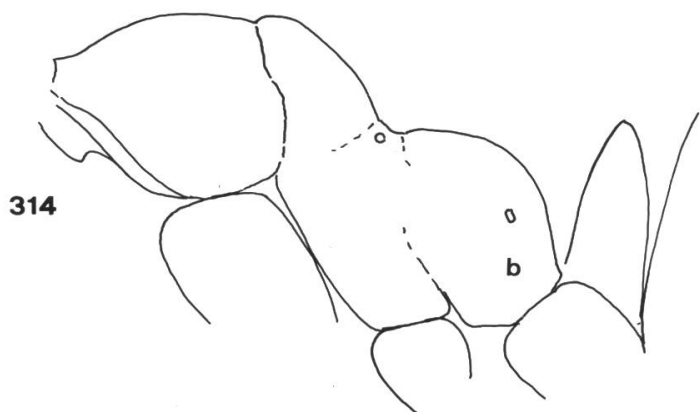
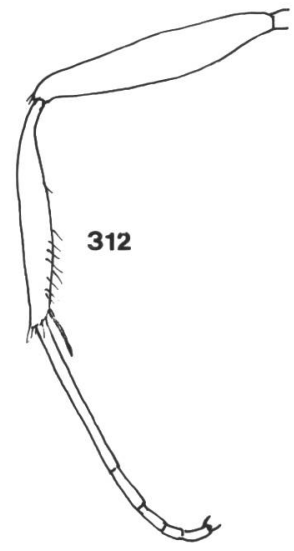
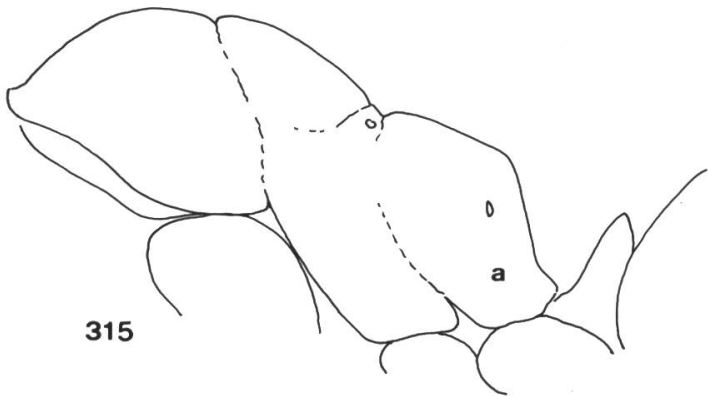
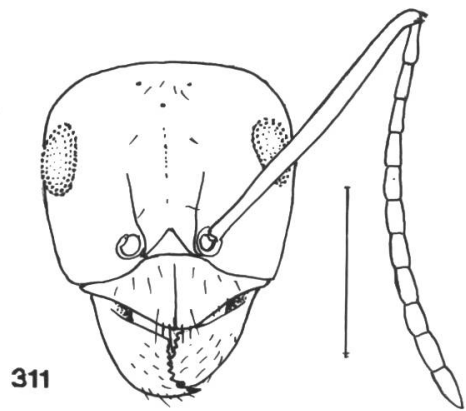
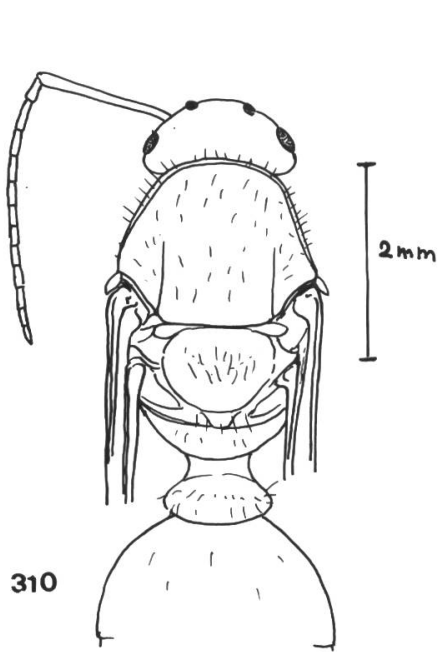


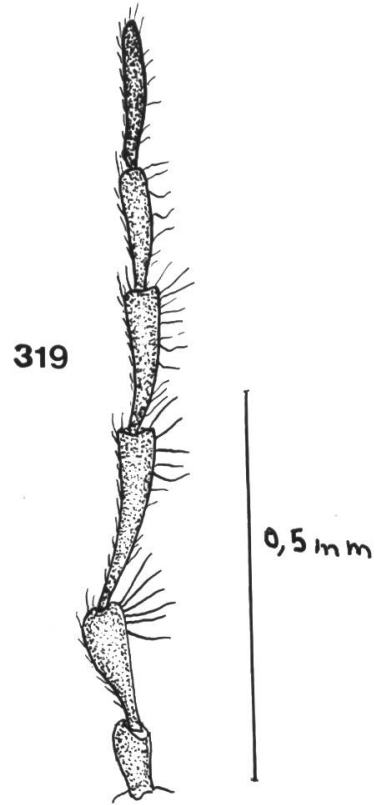
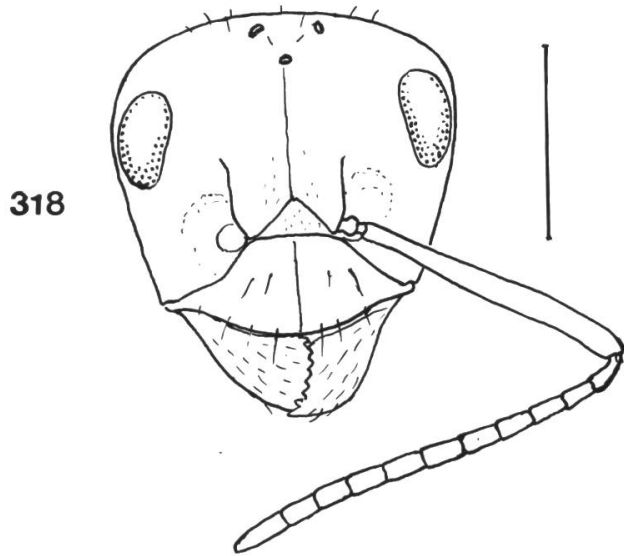
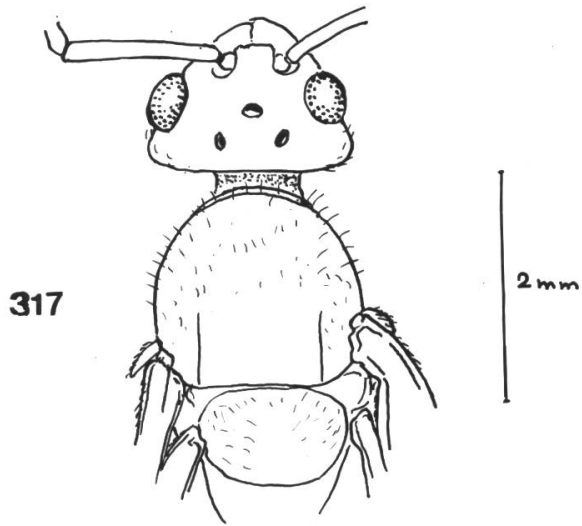


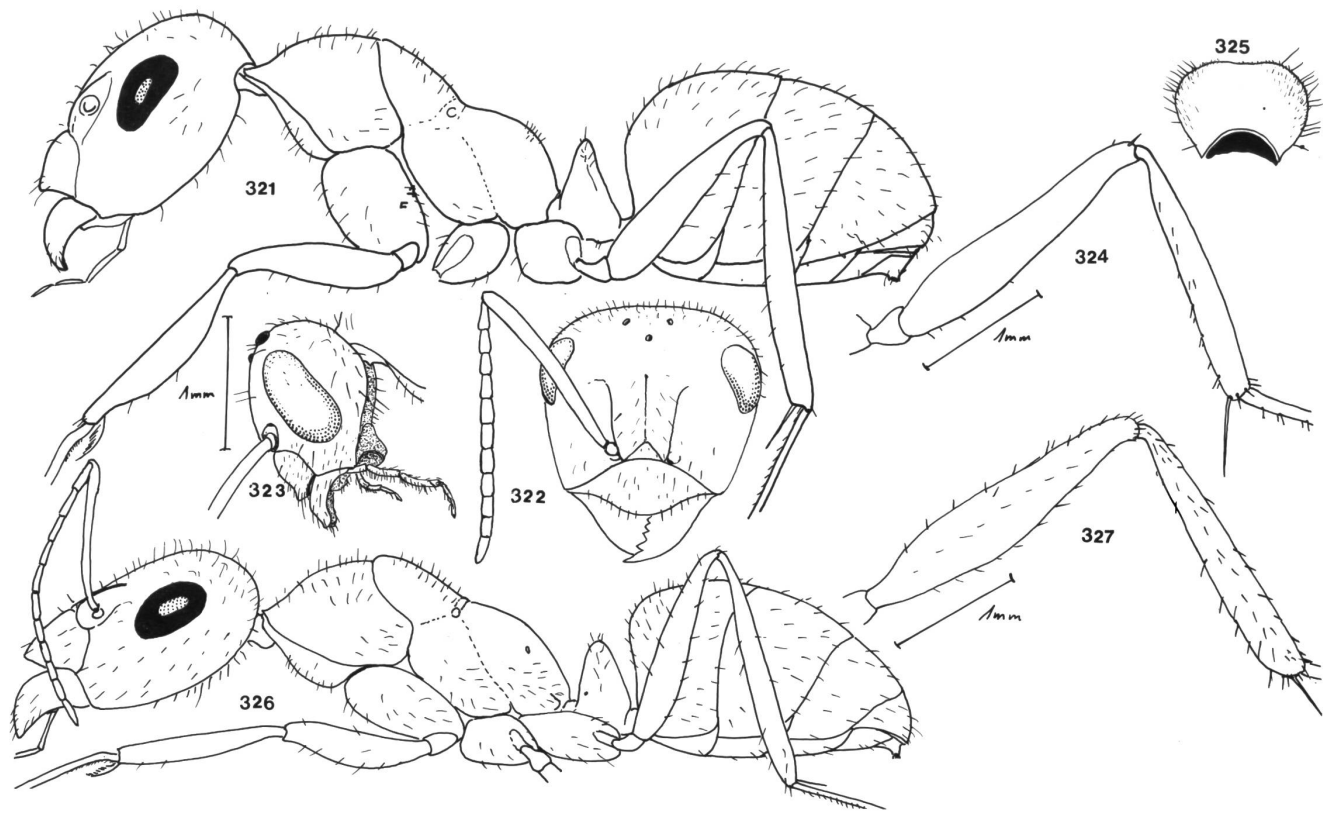
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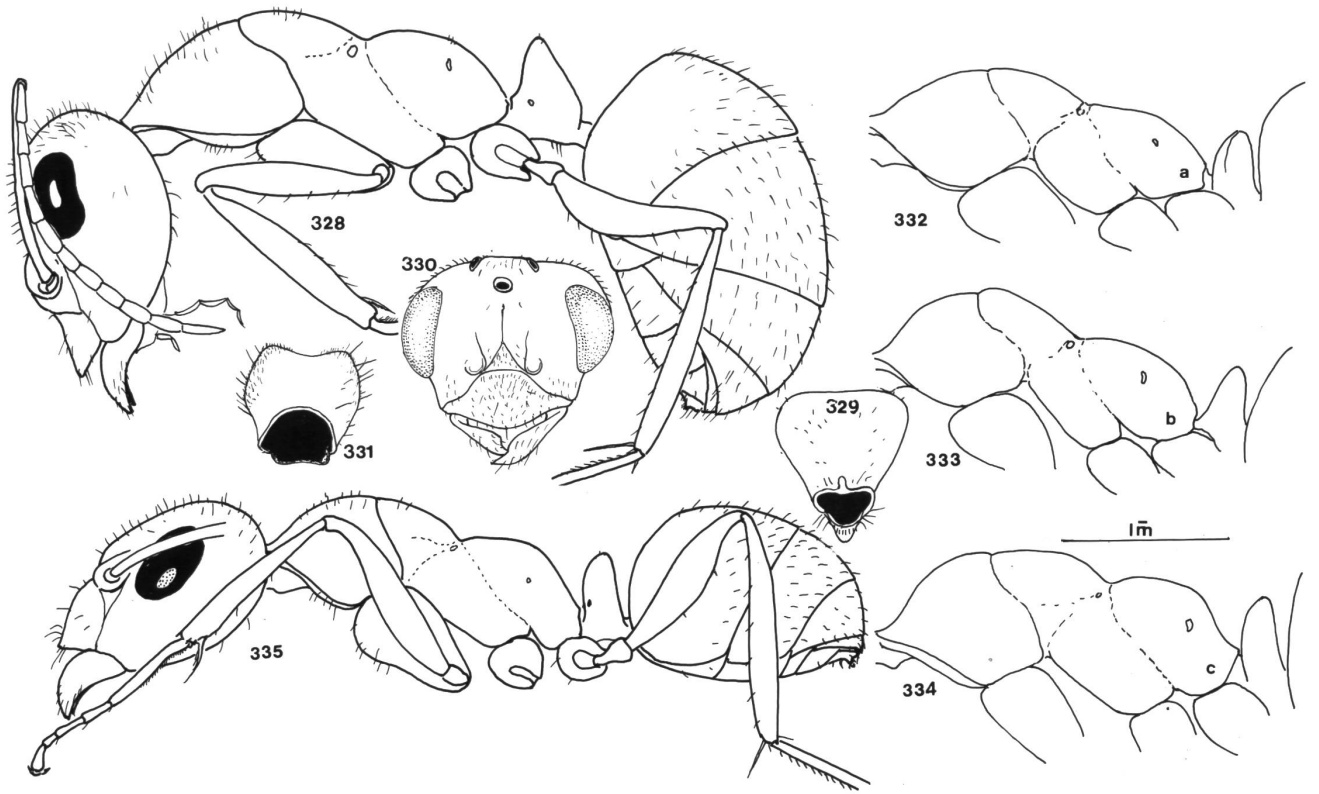


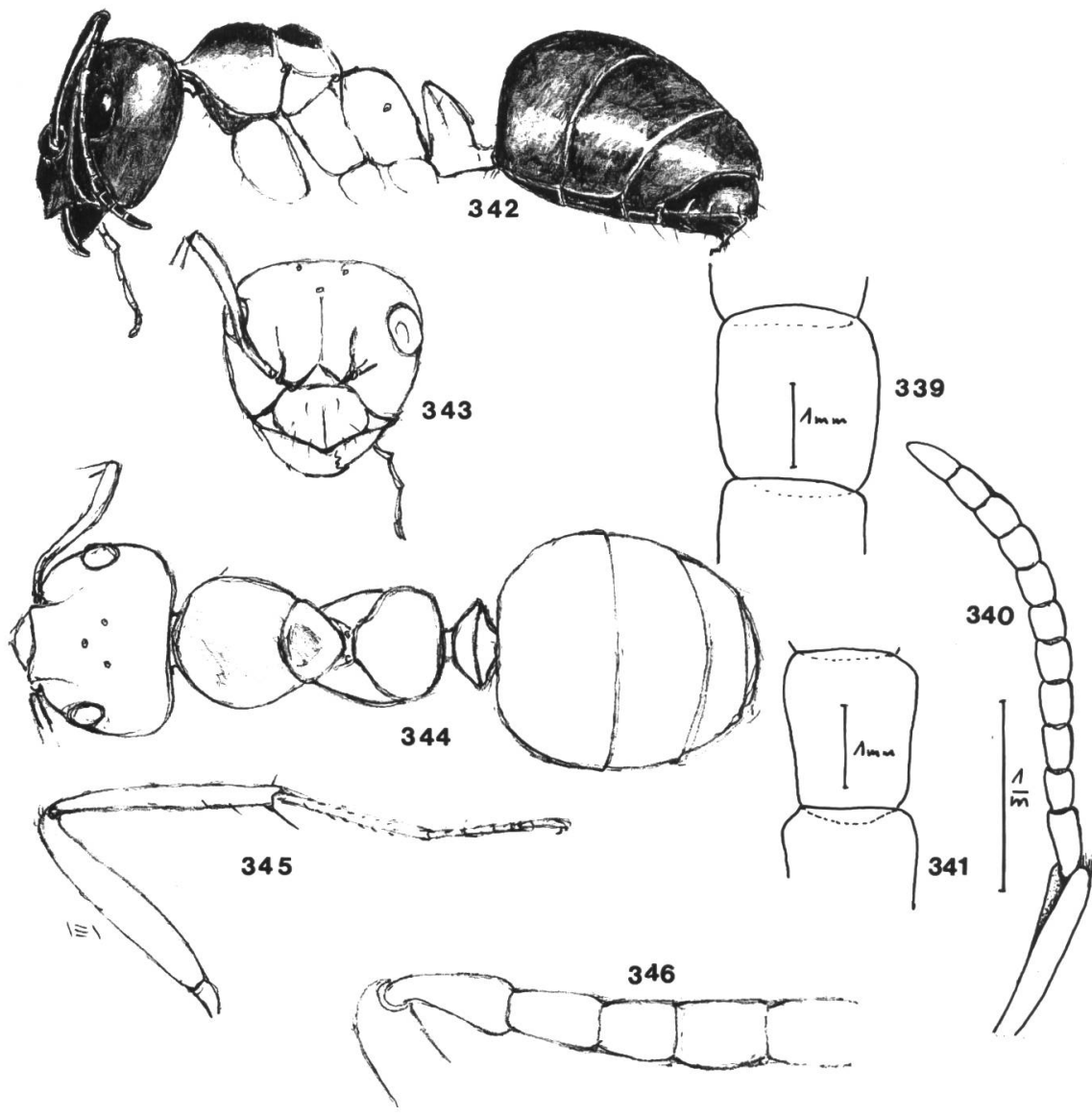
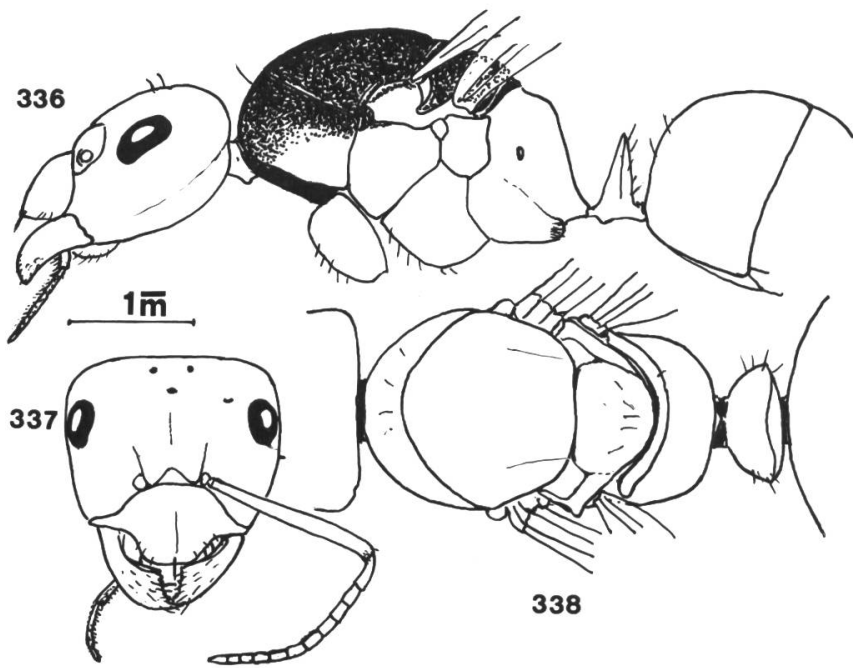
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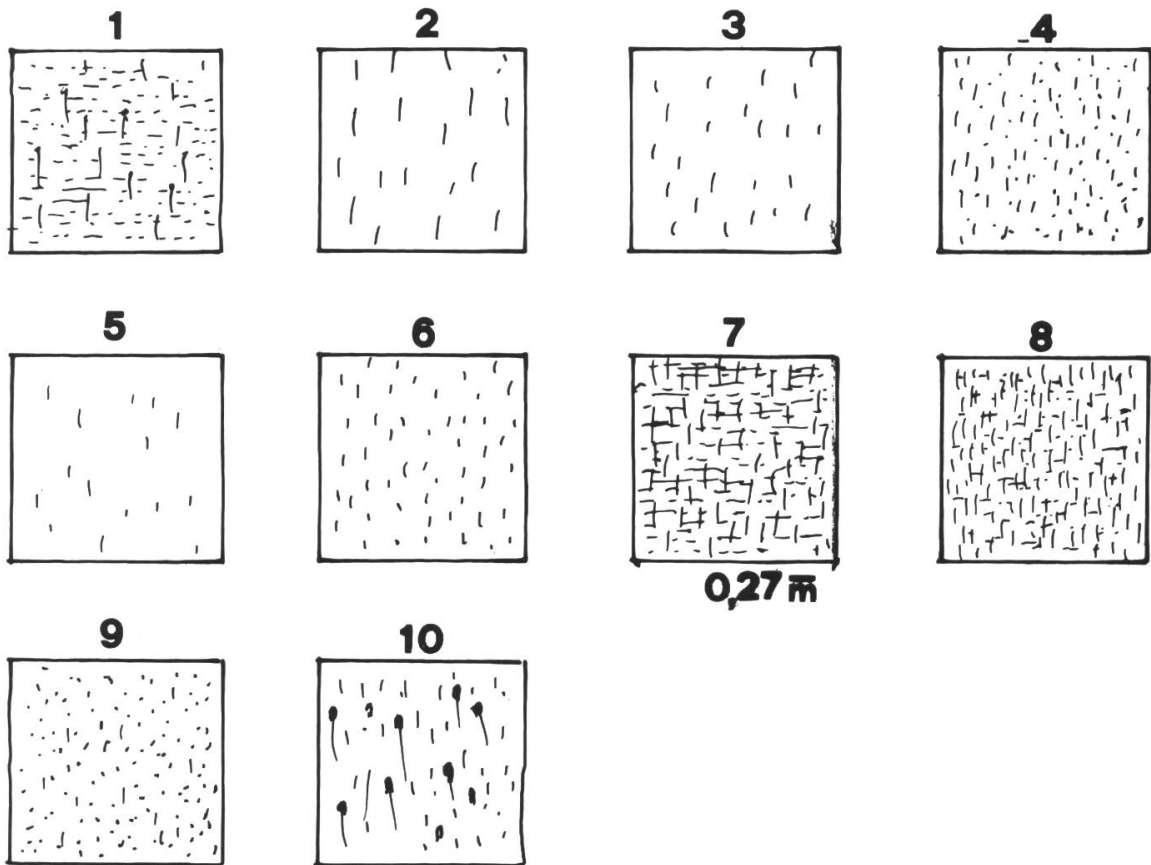






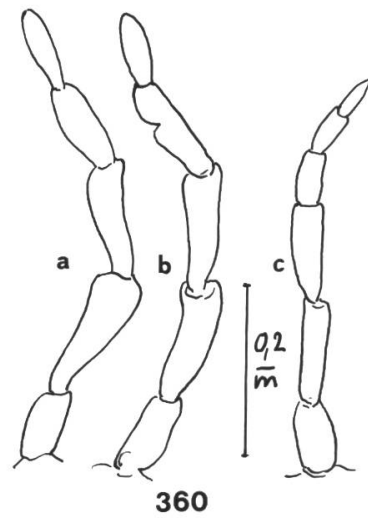
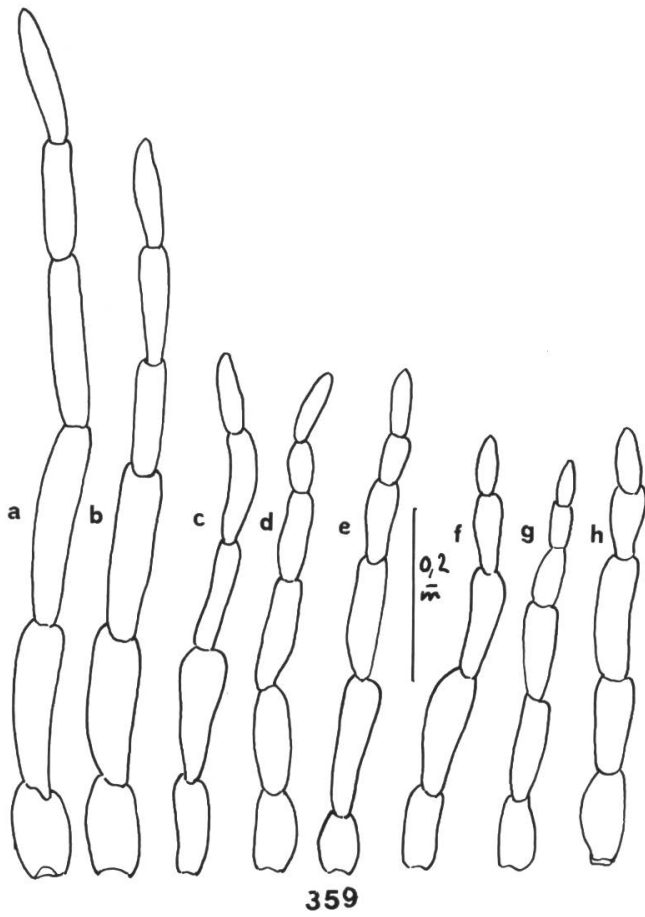
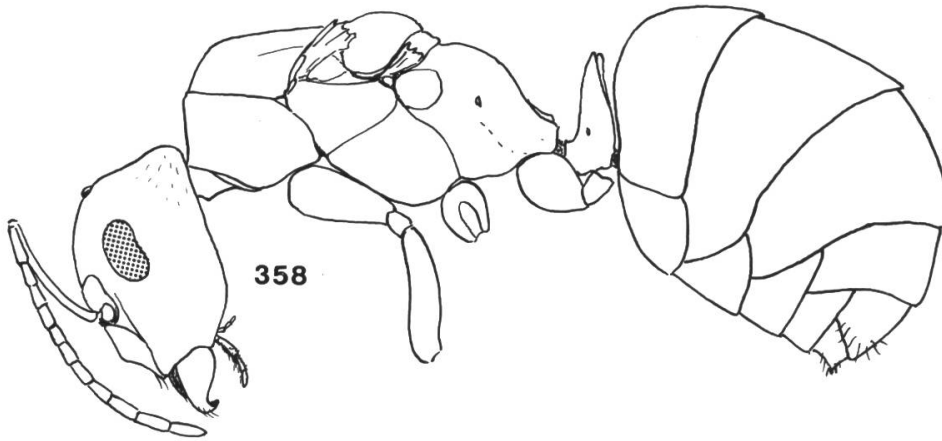
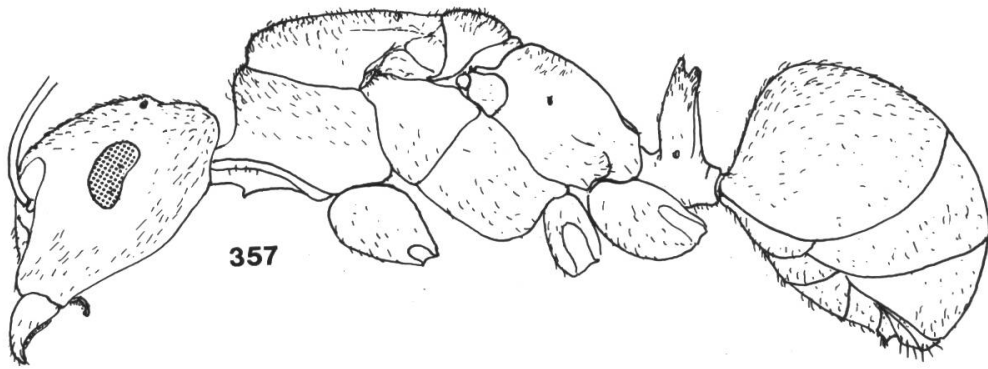


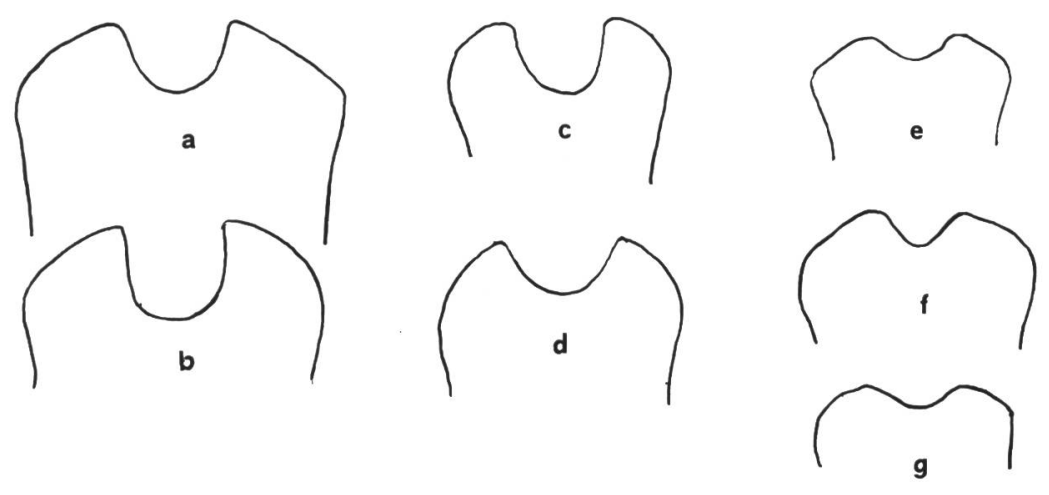
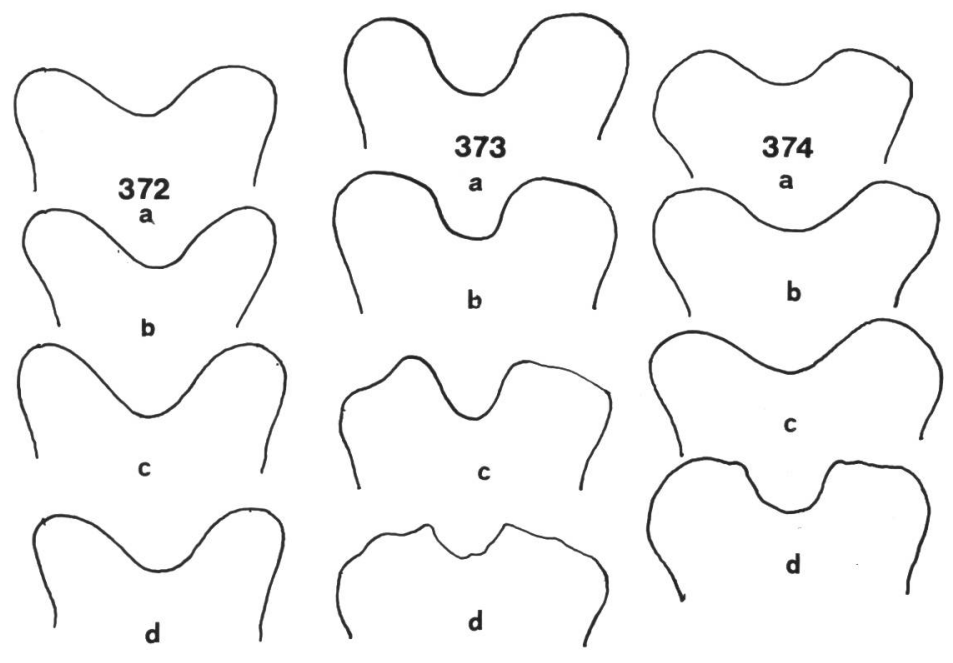
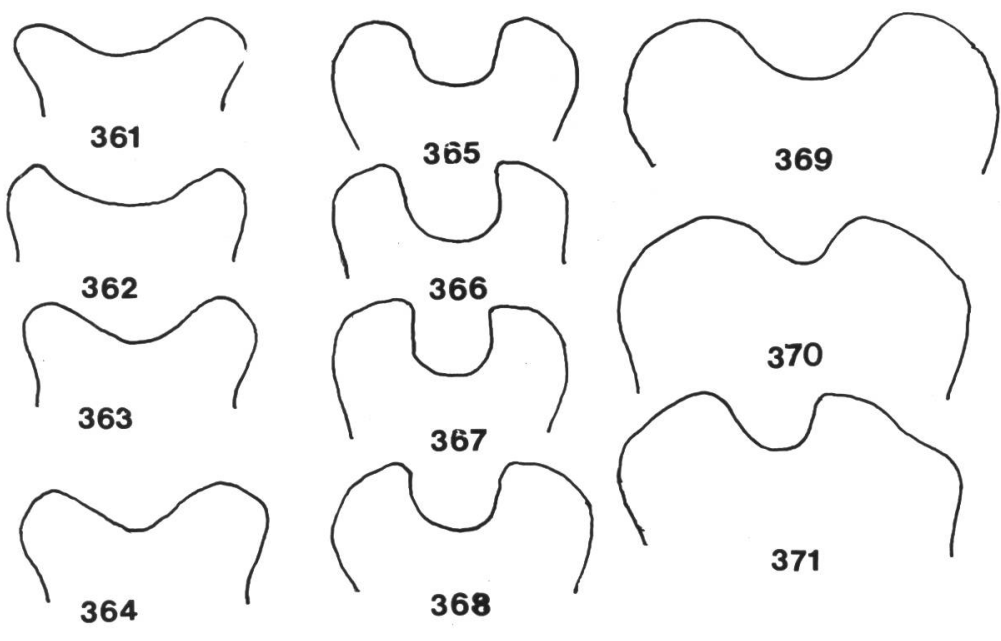


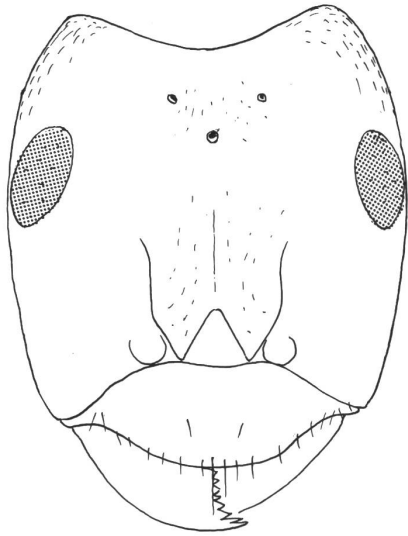


Behaarung und Skulptur auf 2. Tergit von Formica-Weibchen

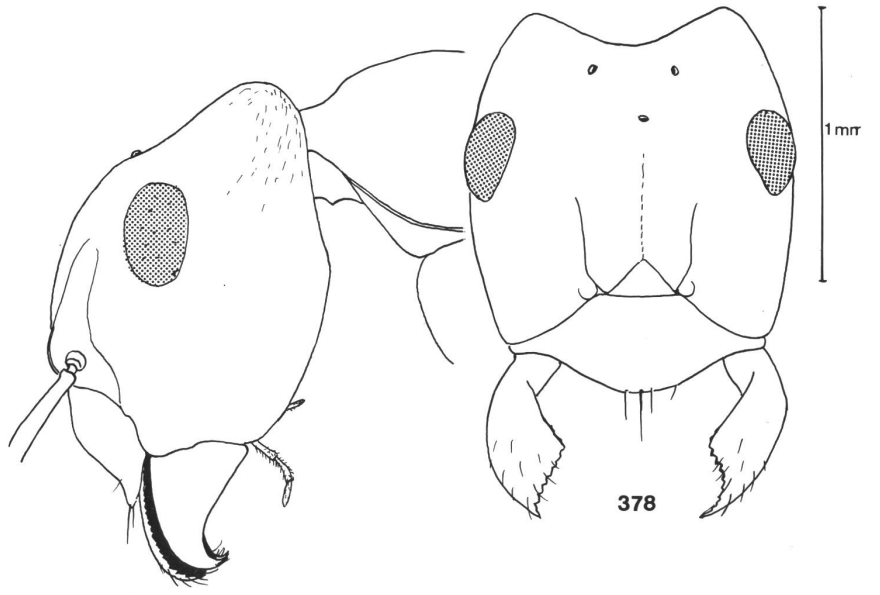
- | | |
|---|---|
| 1 <i>F. uralensis</i> RUSKY | halbmatt mit feiner Querchagrinerung |
| 2 <i>F. rufa</i> L. | glänzend und mit ganz feiner Chagrinerung |
| 3 <i>F. polycтена</i> FOERST. | glänzend und glatt. Pubeszenzhaare kurz |
| 4 <i>F. aquilonia</i> YARROW | Pubeszenzhaare kurz und dicht beieinander. 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 Querchagrinerung |
| 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. Querchagrinerung sehr fein, eingeritzte
grosse Punkte. |



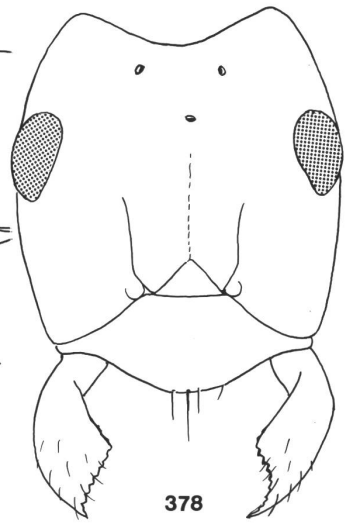




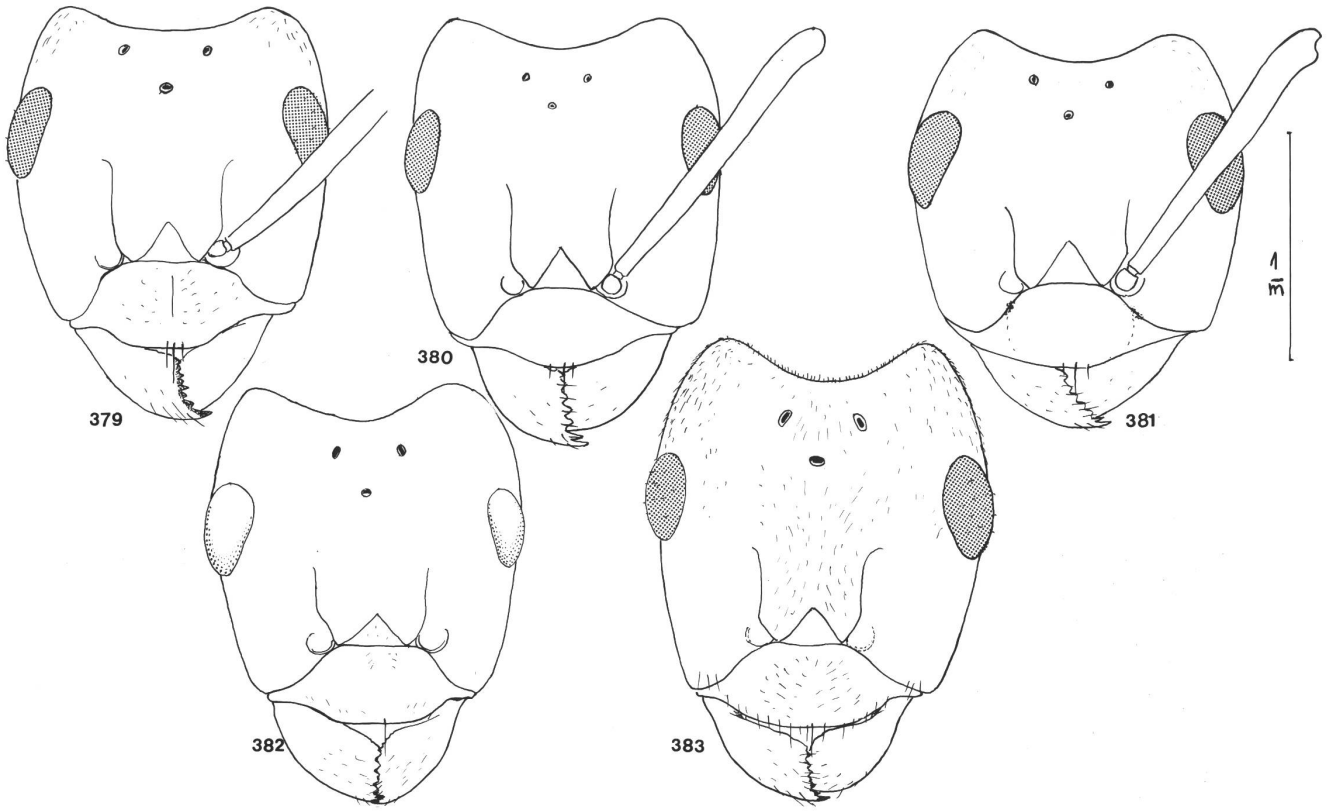
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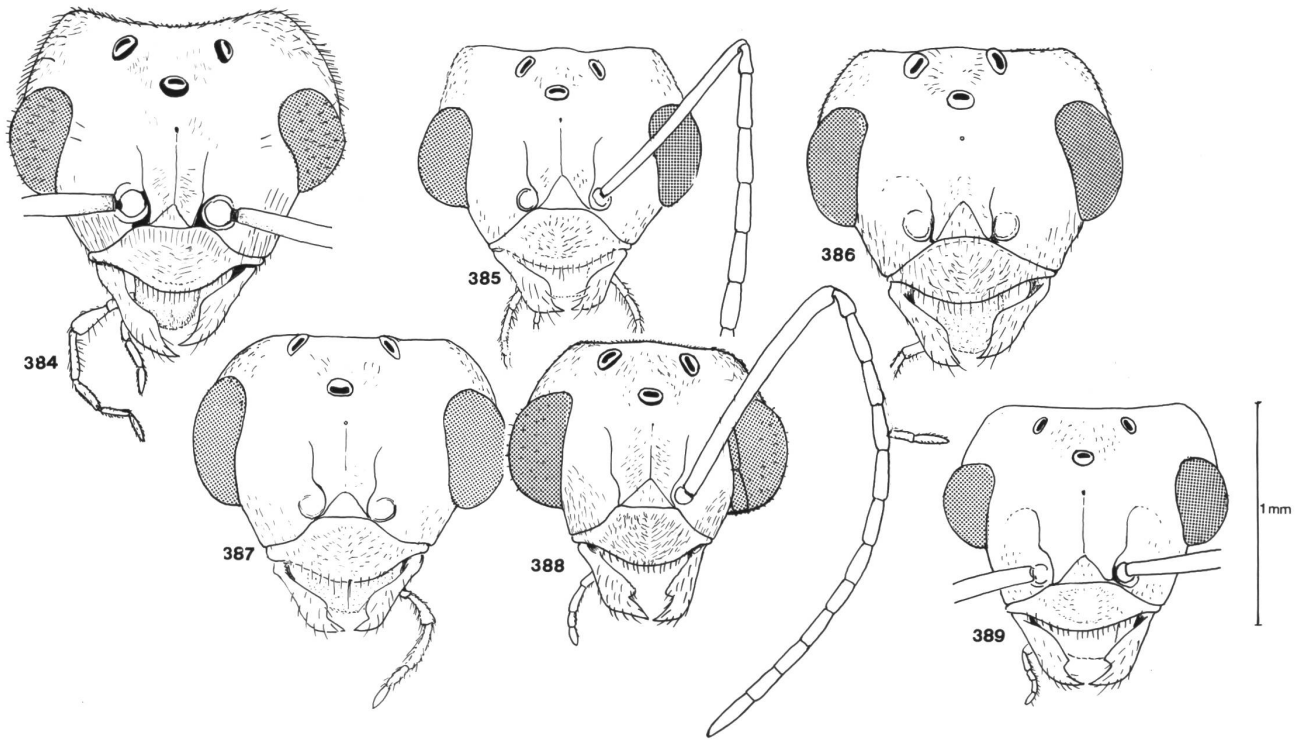


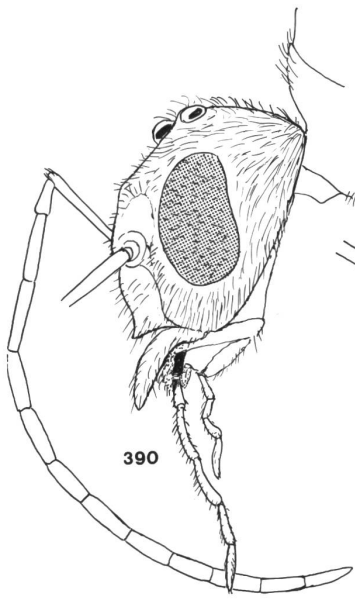
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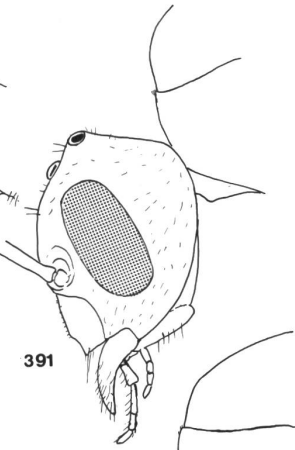
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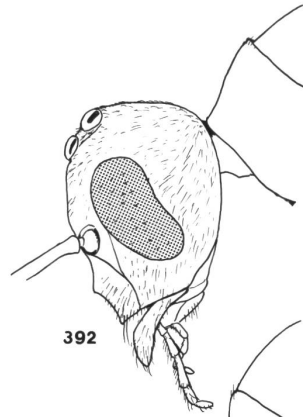
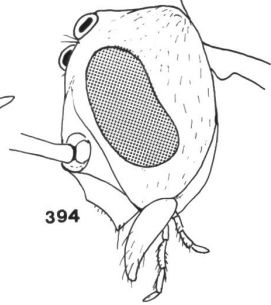




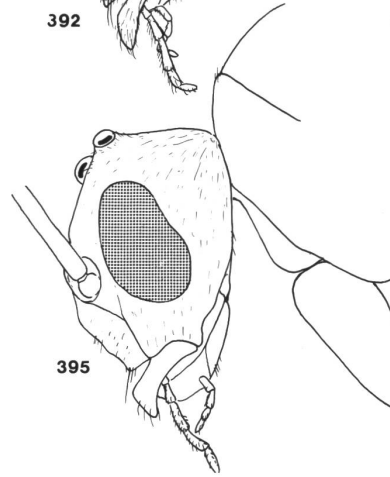
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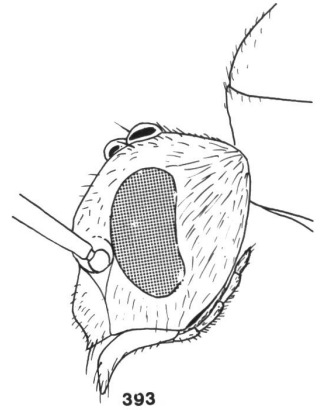
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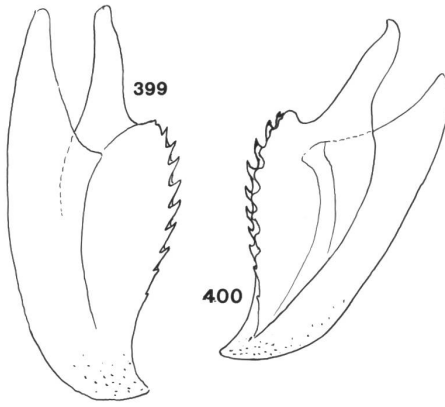
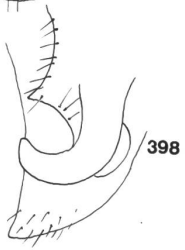
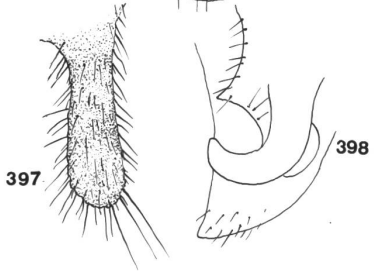
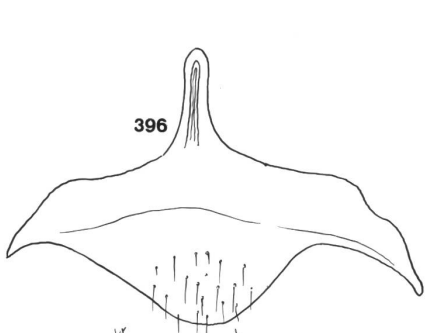
392



395



393



400

