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BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

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MIDDLE CAMBRIAN AGNOSTIDS: SYSTEMATICS AND BIOSTRATIGRAPHY

By
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PLATE 1
Northern Territory

Peronopsis longinqua sp. nov.
(p. 56)

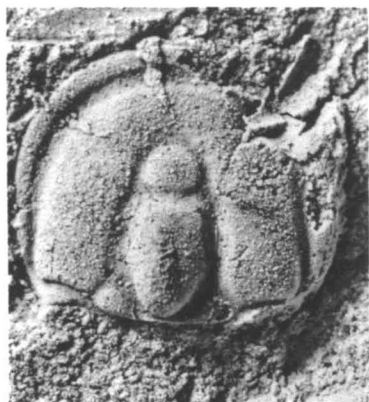
Fig. 1. **Holotype** cephalon, CPC 13974, in mudstone, locality N63; x12.

Fig. 2. Pygidium, CPC 13975, in mudstone, locality N63; x10.

Fig. 3. Pygidium, CPC 13976, in mudstone, locality N63; x10.

Peronopsis proluxa sp. nov.
(p. 57)

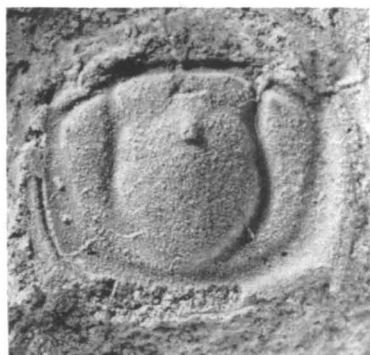
Fig. 4. A cluster of agnostid shields, CPC 13977, locality N32; x10. The cephalon and pygidium on top in the illustration; the large pygidium is the holotype.



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PLATE 2
Northern Territory

Peronopsis tramitis sp. nov.
(p. 58)

Fig. 1. Two pygidia and one cephalon, CPC 13978, locality N35; x6.

Fig. 2. **Holotype** pygidium, CPC 13979, locality N35; x7.

Peronopsis cf. **tramitis**
(p. 59)

Fig. 3. Two cephalata, latex cast of CPC 13980, locality N35; x7.

Peronopsis comis sp. nov.
(p. 59)

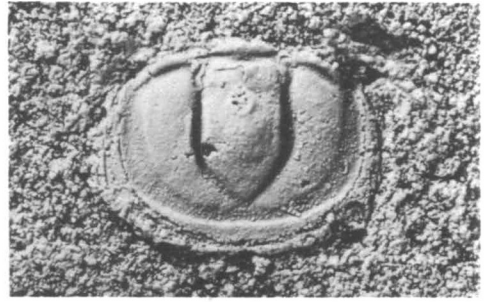
Fig. 4. **Holotype** exoskeleton, CPC 13981, locality N36; x10.

'Acadagnostus' scutalis (Salter)
(p. 63)

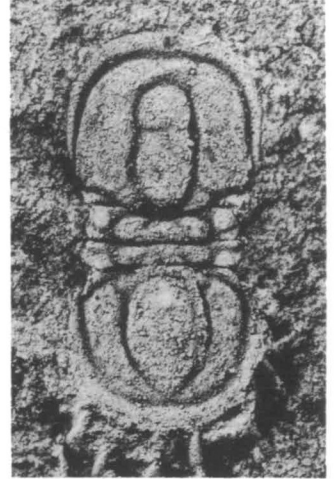
Fig. 5. Exoskeleton, CPC 13982, locality F5; x6.



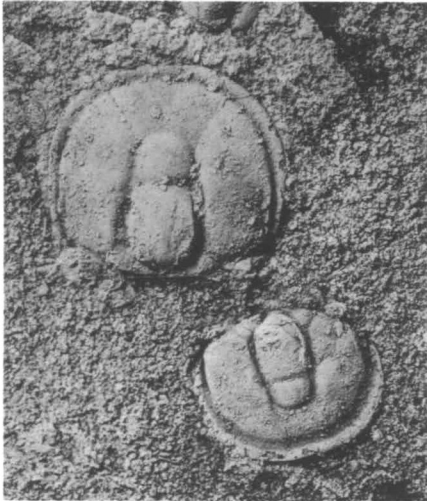
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PLATE 3
Northern Territory

Peronopsis (Itagnostus) elkedraensis (Etheridge Jr)
(p. 60)

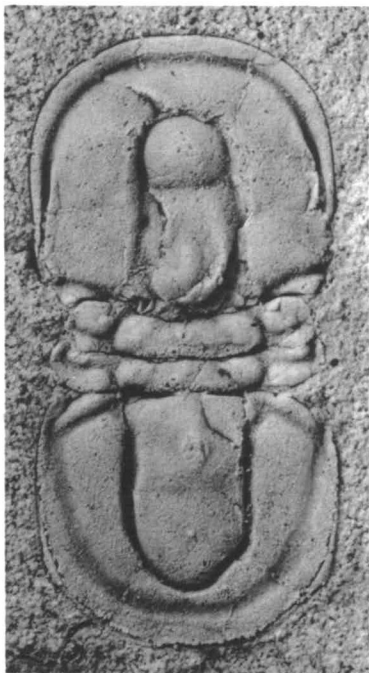
- Fig. 1. Exoskeleton, CPC 13983; x13.
Fig. 2. Exoskeleton, CPC 13984; x13.
Figs. 1 and 2 associated in a piece of siltstone, locality N32.
Fig. 3. Exoskeleton, CPC 8399, locality N35; x16. Associated with *Oryctocephalites gelasinosus* Shergold, 1969.
Fig. 4. Three specimens, CPC 13985, locality N32; x10.
Fig. 5. Cephalon of *Itagnostus elkedraensis*, CPC 13986, associated with a small pygidium of '*Acadagnostus*' *scutalis*; locality N31; x6.



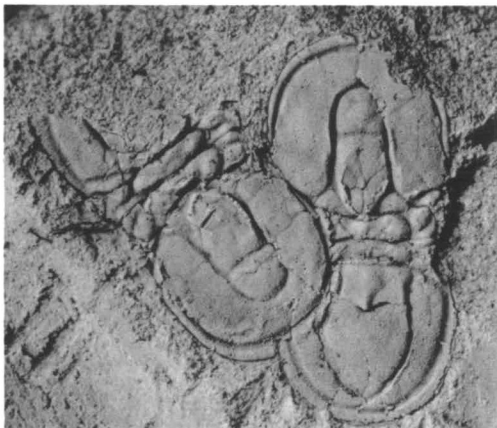
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PLATE 4

Hypagnostus melicus sp. nov.
(p. 69)

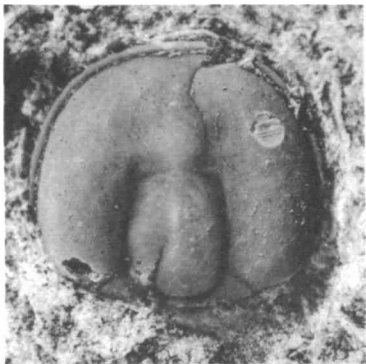
- Fig. 1. Cephalon, CPC 13987, in limestone, locality M30; x10.
Fig. 2. Pygidium, CPC 13988, in limestone, same as Fig. 1; x7.

Cotalagnostus sp. aff. **lens**
(p. 71)

- Fig. 3. Pygidium, CPC 13989, in limestone, locality M41; x10.

Peronopsis fallax ferox (Tullberg)
(p. 54)

- Fig. 4. Two cephalae, CPC 13990, in limestone, locality M208; x6.
Figs. 5, 6. Two pygidia, CPC 13991 and 13992 respectively, associated with Fig. 4; x7.
Fig. 7. Two exoskeletons, CPC 13993, shale of Inca Formation, locality M145; x7.



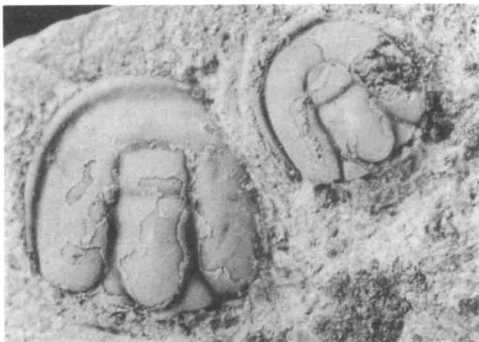
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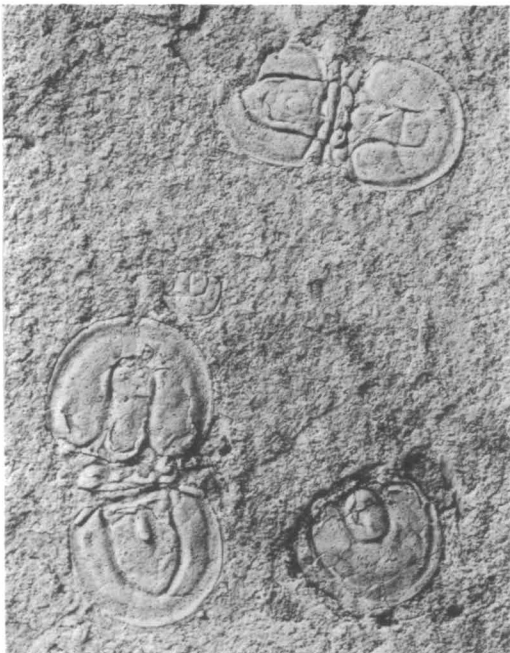
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PLATE 5

Hypagnostus clipeus Whitehouse
(p. 67)

Fig. 1. Exoskeleton, CPC 13994, in limestone, locality M409; x14.

Hypagnostus inaequalis sp. nov.
(p. 68)

Fig. 2. Exoskeleton, CPC 13995, in limestone, locality M202; x7.

Fig. 3. **Holotype** exoskeleton, CPC 13996, in limestone, locality M202; x7.

Fig. 4. Small exoskeleton, CPC 13997, in limestone, locality M202; x10.

Hypagnostus tjernviki Westergaard
(p. 70)

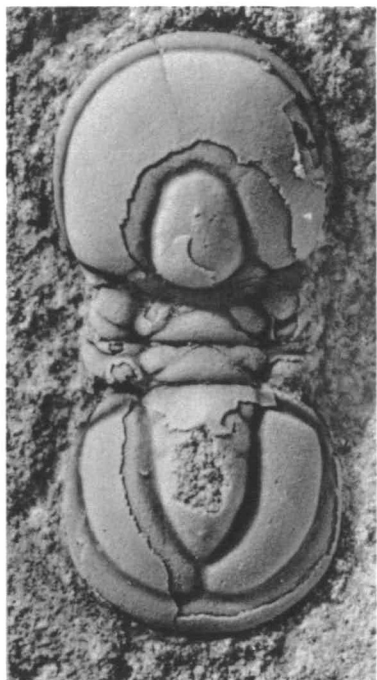
Fig. 5. Exoskeleton, CPC 13998, in limestone, locality M462; x15.

Hypagnostus melicus sp. nov.
(p. 69)

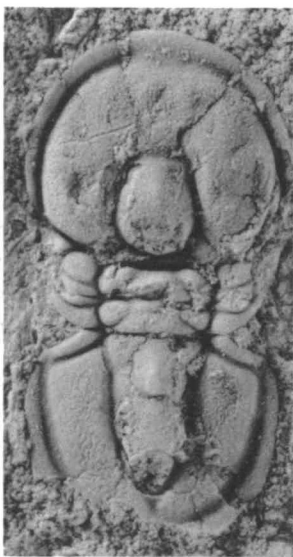
Fig. 6. **Holotype** exoskeleton, CPC 13999, in limestone, locality M462; x10. See also Plate 4, figs. 1, 2.

Hypagnostus clipeus Whitehouse
(p. 67)

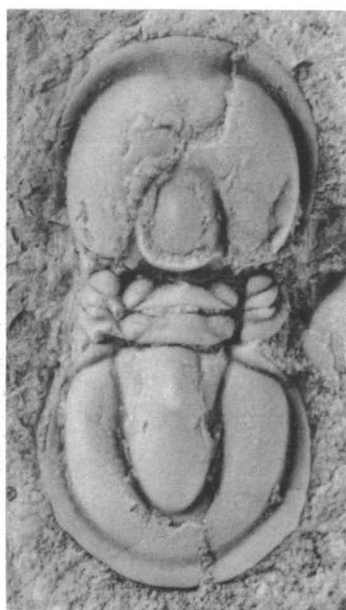
Fig. 7. Pygidium of large individual, CPC 14000, in limestone, locality M41; x4.



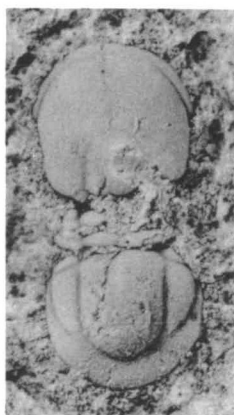
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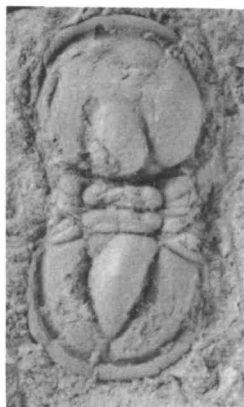
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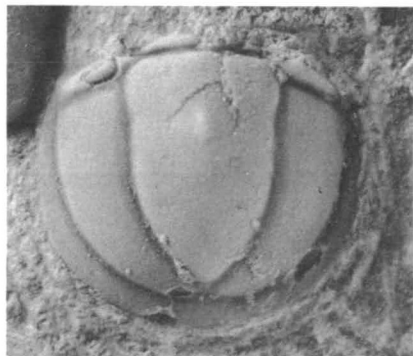
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PLATE 6

Doryagnostus solidus sp. nov.
(p. 86)

- Fig. 1. Cephalon with thorax, CPC 14001, in limestone, locality M139; x7.
Fig. 2. Pygidium, CPC 14002, in limestone, locality M409; x12. Same species also in Plate 21, fig. 4.

Svenax pusillus (Tullberg)
(p. 64)

- Fig. 3. Cephalon, CPC 14003, in dolomitic limestone, locality D74; x13.
Fig. 4. Cephalon, CPC 14004, in dolomitic limestone, locality D74; x13.
Fig. 5. Pygidium, CPC 14005, in dolomitic limestone, locality D74; x15.

Svenax vafer sp. nov.
(p. 65)

- Fig. 6. **Holotype** pygidium, CPC 14006, in limestone, locality M409; x14.

Hypagnostus parvifrons (Linnarsson)
(p. 66)

- Fig. 7. Cephalon, CPC 14007, in limestone, locality M180; x12.
Fig. 8. Exoskeleton, CPC 14008, in cherty siltstone, Inca Formation, locality M265; x12.

Hypagnostus cf. **vortex** Whitehouse
(p. 67)

- Fig. 9. Exoskeleton, CPC 14009, in siltstone, Inca Formation, locality M281; x13.



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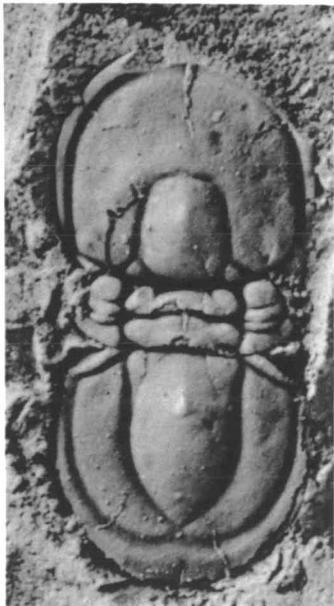
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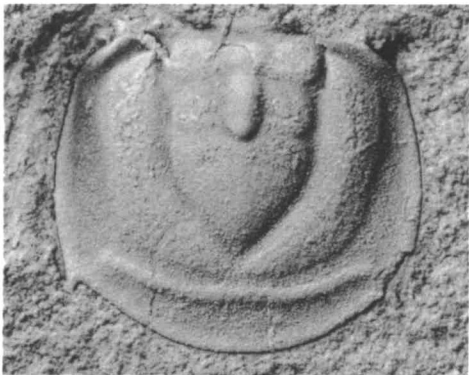
PLATE 7

Diplagnostus floralis sp. nov.
(p. 40)

- Fig. 1. Pygidium, CPC 14010; x15.
Fig. 2. Pygidium, CPC 14011; x10.
Fig. 3. Cephalon, CPC 14012; x15.
Fig. 4. Cephalon, CPC 14013; x12.
Fig. 5. **Holotype** exoskeleton, CPC 14014; x14.
Fig. 6. (above) Pygidium, CPC 14015; x10.

Iniospheniscus talis sp. nov.
(p. 50)

- Fig. 6. (below) Cephalon, CPC 14016; x10. See also Plate 9.



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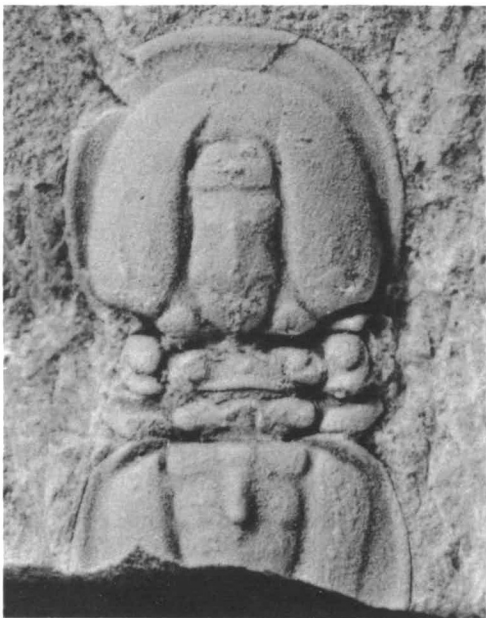
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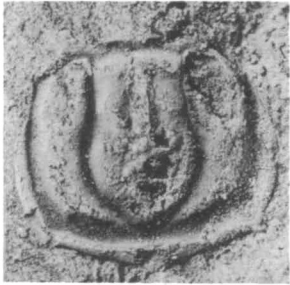
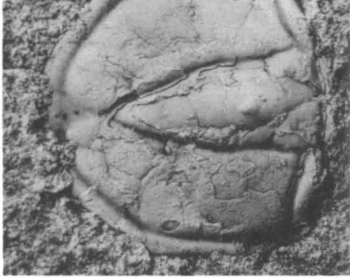
PLATE 8

Oedorhachis crenias sp. nov.
(p. 42)

- Fig. 1. (upper right) **Holotype** pygidium, CPC 14017, in limestone, locality M24; x8.
(lower left) *Doryagnostus magister*—see Plate 18.
- Fig. 2. Same specimen as Fig. 1; x12.
- Fig. 3. Pygidium, CPC 14018, in limestone, locality M24; x8.
- Fig. 4. Two small cephalae, CPC 14019, in limestone, locality M24; x20.
- Fig. 5. Cephalon, CPC 14020, chert in dolomite, locality M136; x18.



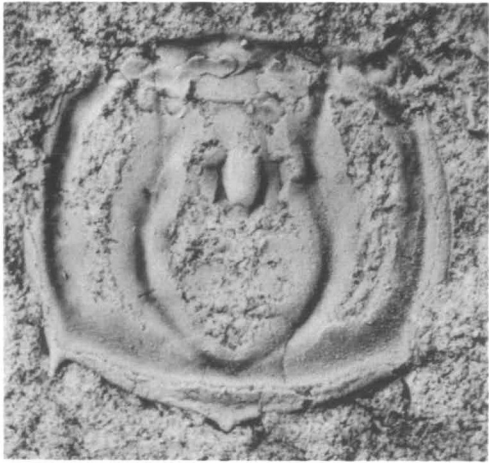
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PLATE 9

Iniospheniscus talis sp. nov.

(p. 50)

- Fig. 1. **Holotype** pygidium, CPC 14021, in limestone, locality M191a; x14.
Fig. 2. Pygidium, CPC 14022, chert of the Inca Formation; x14.
Fig. 3. Pygidium, CPC 14023, in limestone, locality M64; x9.
Fig. 4. Pygidium, CPC 14024; x10.
Fig. 5. Cephalon and pygidium, CPC 14025; x10.
Fig. 6. Cephalon, CPC 14026; x10 (associated with pygidium of *Pseudoperonopsis iniugata*, q.v.).

Iniospheniscus? sp. indet.

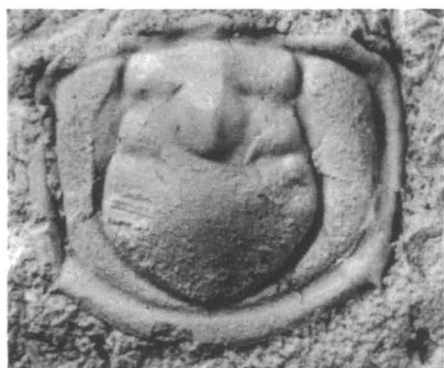
(p. 52)

- Fig. 7. Exoskeleton, latex cast of CPC 14027, in limestone, locality M243; x10.

Iniospheniscus incanus sp. nov.

(p. 51)

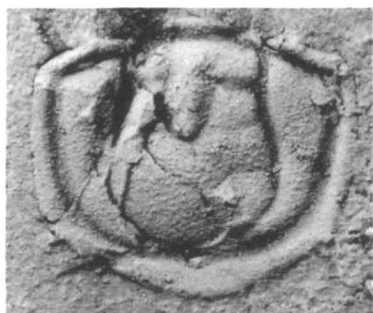
- Fig. 8. Cephalon, CPC 14028, in siltstone of the Inca Formation, locality M265; x12.
Fig. 9. **Holotype** pygidium, CPC 14029, in siltstone of the Inca Formation, locality M265; x16.



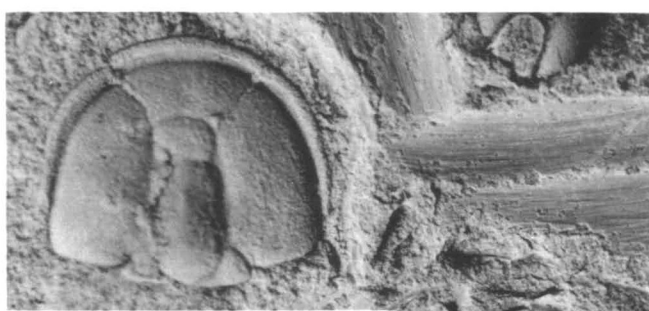
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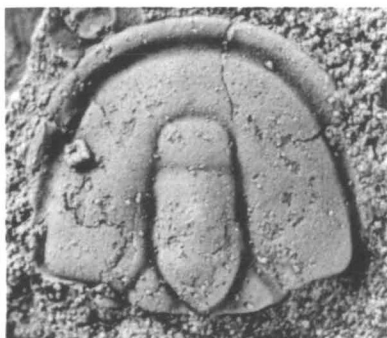
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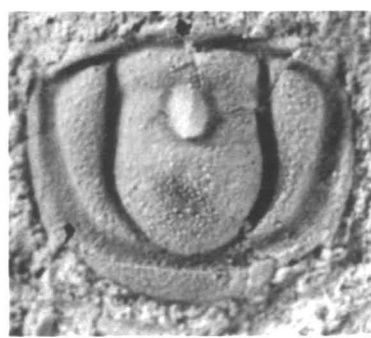
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PLATE 10

Linguagnostus? comparabilis sp. nov.
(p. 52)

Fig. 1. **Holotype** cephalon, CPC 14030, in siltstone, locality N32, Northern Territory; x9.

Pseudoperonopsis perplexa (Robison)
(p. 43)

Fig. 2. Exoskeleton, CPC 14031, in limestone, locality M409; x9.

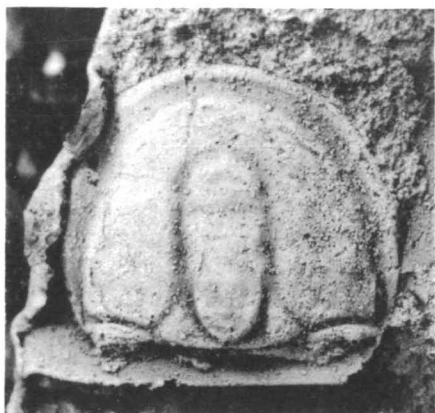
Fig. 3. Exoskeleton, CPC 14032, in limestone, locality M409; x12.

Fig. 4. Pygidium, CPC 14033, in limestone, locality M409; x12.

Fig. 5. Pygidium, CPC 14034, in dolomitic limestone, locality D74; x12.

Fig. 6. Cephalon, CPC 14035, in dolomitic limestone, locality D74; x10.

Fig. 7. Cephalon, CPC 14036, in dolomitic limestone, locality D74; x8.



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PLATE 11

***Pseudoperonopsis iniugata* sp. nov.**

(p. 46)

- Fig. 1. **Holotype** exoskeleton, CPC 14037, in limestone, locality M128; x11.
Fig. 2. Pygidium, CPC 14038, in dolomitic limestone, locality D74; x10.
Fig. 3. Pygidium, CPC 14039, in dolomitic limestone, locality D74; x10.
Fig. 4. Pygidium, CPC 14040, in limestone, locality M191a; x14. See also Plate 9.

***Pseudoperonopsis ancisa* sp. nov.**

(p. 45)

- Fig. 5. Exoskeleton, CPC 14041, in silty shale, locality M199; x14.
Fig. 6. **Holotype** exoskeleton, CPC 14042, in siltstone, locality M376; x10.

***Pseudoperonopsis syрма* sp. nov.**

(p. 44)

- Fig. 7. **Holotype** exoskeleton, CPC 14043, in silty shale, locality M425; x13.



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PLATE 12

Pseudoperonopsis insolita sp. nov.

(p. 47)

Fig. 1. **Holotype** cephalon, CPC 14044, in limestone, locality M212; x13.

Fig. 2. Pygidium, CPC 14045, in limestone, locality M212; x13.

Fig. 3. Cephalon with thorax, CPC 14046, in limestone, locality M212; x13.

Baltagnostus robustus sp. nov.

(p. 48)

Fig. 4. Exoskeleton, CPC 14047, in limestone, locality M212; x12.

Fig. 5. **Holotype** exoskeleton, CPC 14048, in limestone, locality M212; x13.

Baltagnostus sertulatus sp. nov.

(p. 49)

Fig. 6. **Holotype** pygidium, CPC 14049, in dolomitic limestone, locality D74; x13.

Fig. 7. Cephalon, CPC 14050, in dolomitic limestone, locality D74; x16.

Fig. 8. Pygidium, CPC 14051, in dolomitic limestone, locality D74; x15.

Fig. 9. Pygidium, CPC 14052, in dolomitic limestone, locality D74; x18.



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PLATE 13

Euagnostus opimus Whitehouse
(p. 75)

- Fig. 1. Fig. 1. Cephalon, latex cast of UQT 3194; x10. University of Queensland collection.
- Fig. 2. **Holotype** pygidium, latex cast of UQT 3193; x10. University of Queensland collection.
- Fig. 3. Cephalon, CPC 14053, in limestone, locality M180; x10.
- Fig. 4. Cephalon, CPC 14054, in limestone, locality M180; x10.
- Fig. 5. Pygidium, CPC 14055, in limestone, locality M180; x10.
- Fig. 6. Smaller pygidium, CPC 14056, in limestone, locality M180; x10.
- Fig. 7. Exoskeleton, CPC 14057, in limestone, locality M124; x10.
- Fig. 8. Cephalon, CPC 14058, in limestone, locality M123; x8.



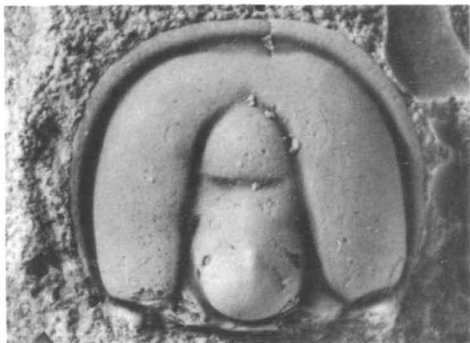
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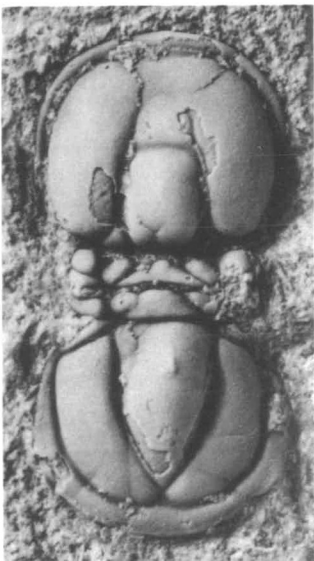
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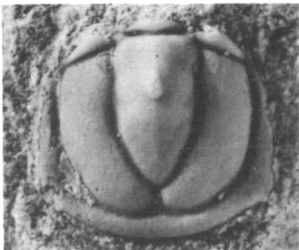
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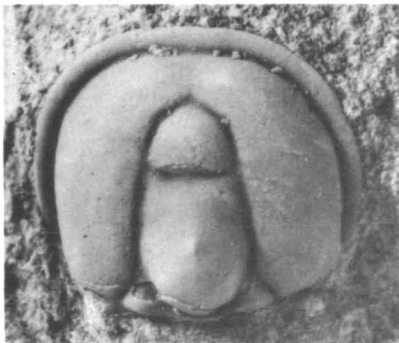
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PLATE 14

Euagnostus opimus Whitehouse
(p. 75)

- Fig. 1. Exoskeleton, CPC 14059, flattened in calcareous shale, locality M180; x10.
Fig. 2. Aberrant cephalon, CPC 14060, locality M180; x10.
Fig. 3. Aberrant cephalon, CPC 14061, locality M180; x10.
Fig. 4. Cephalon, CPC 14062, locality M180; x8.

Euagnostus? glandifer sp. nov.
(p. 79)

- Fig. 5. Pygidium, CPC 14063, locality M180; x10.

Euagnostus certus sp. nov.
(p. 77)

- Fig. 6. **Holotype** exoskeleton, CPC 14064, locality M124; x13.
Fig. 7. Exoskeleton, CPC 14065, in limestone, locality M124; x9.
Fig. 8. Cephalon, CPC 14066, locality M191a; x15.
Fig. 9. Aberrant cephalon, CPC 14067, in limestone, locality M191a; x11.



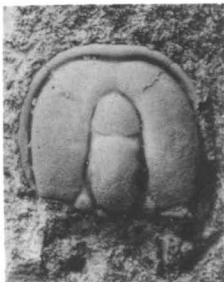
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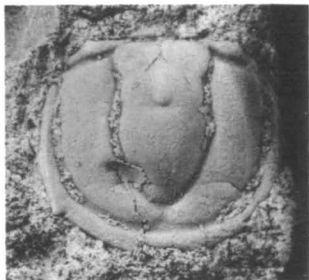
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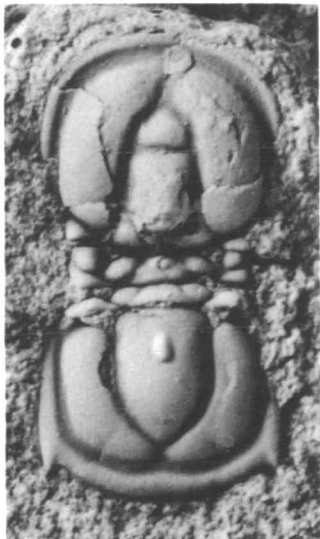
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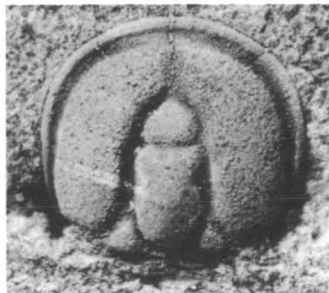
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PLATE 15

Euagnostus neptis sp. nov.
(p. 78)

Fig. 1. **Holotype** exoskeleton, CPC 14068, in limestone, locality M243; x10.5.

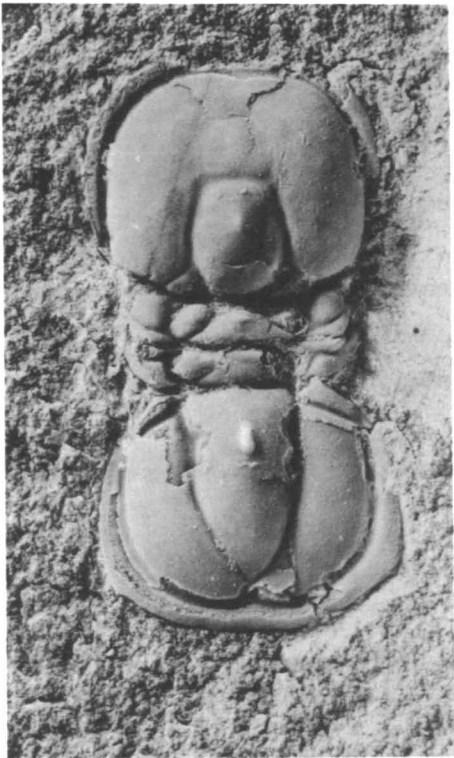
Euagnostus levifrons sp. nov.
(p. 78)

Fig. 2. Pygidium, CPC 14069, in limestone, locality M41; x10.

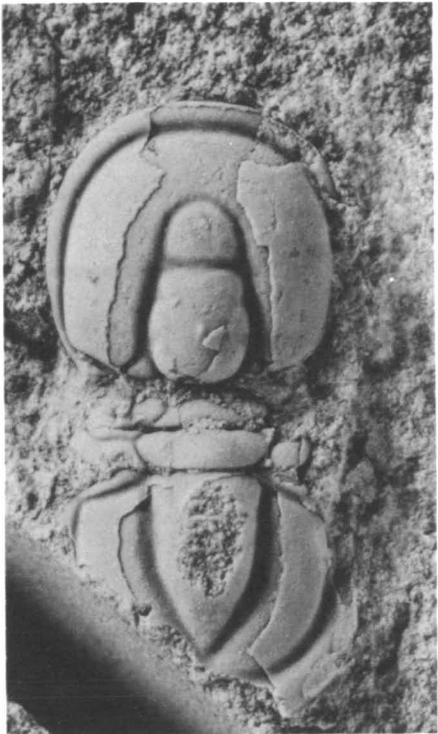
Fig. 3. **Holotype** exoskeleton, CPC 14070, in limestone, locality M409; x10.

Euagnostus sp. aff. **opimus**
(p. 77)

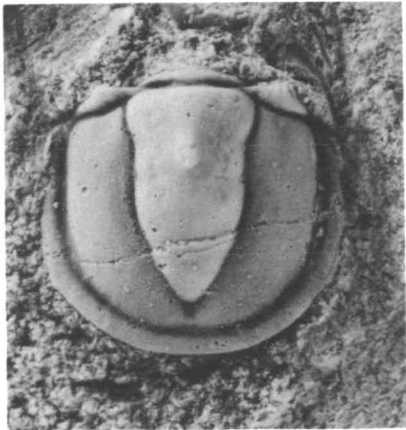
Fig. 4. Cephalon, CPC 14071, in limestone, locality M65; x10.



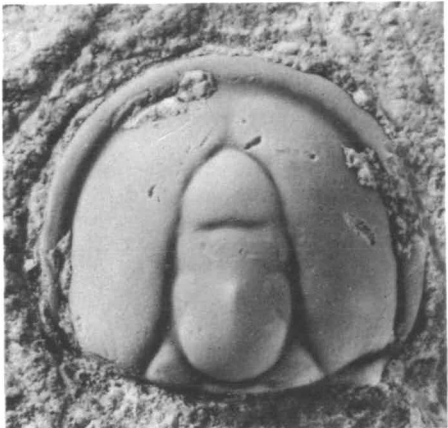
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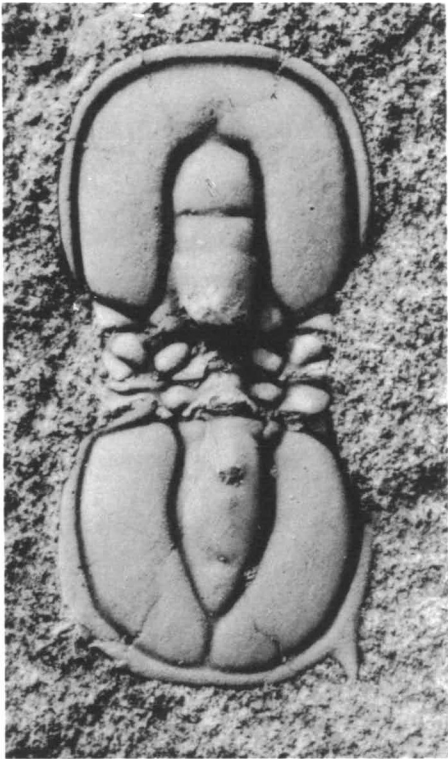


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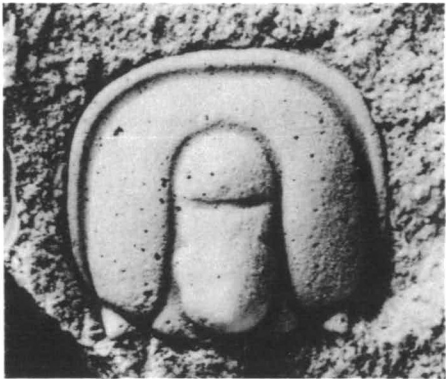
PLATE 16

Rhodotypiscus nasonis sp. nov.
(p. 79)

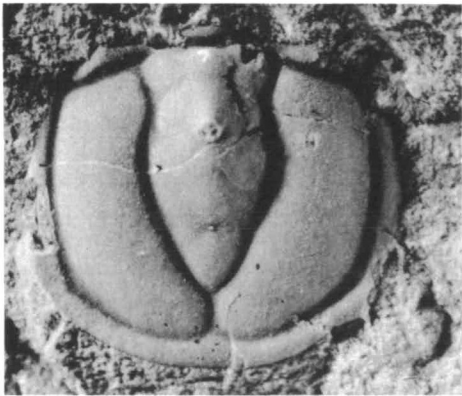
- Fig. 1. **Holotype** exoskeleton, latex cast of CPC 14072, in limestone, locality M124; x12.5.
- Fig. 2. Cephalon, CPC 14073, in siltstone, locality M412; x10.
- Fig. 3. Pygidium, CPC 14074, in limestone, locality M124; x10.
- Fig. 4. Exoskeleton, CPC 14075, in siltstone, locality M412; x9.5.
- Fig. 5. Exoskeleton, CPC 14076, in silicified siltstone, locality M412; x6. See also Plate 59, fig. 1.



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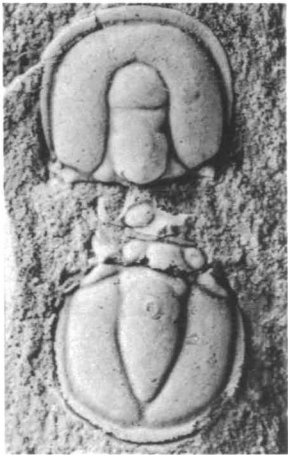
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PLATE 17

Rhodotypiscus sp. nov. aff. **nasonis**
(p. 81)

Figs. 1, 2. Exoskeleton and its latex cast (Fig. 1), CPC 14077, in limestone, locality M243; x11.

Doryagnostus sp. nov. aff. **incertus**
(p. 82)

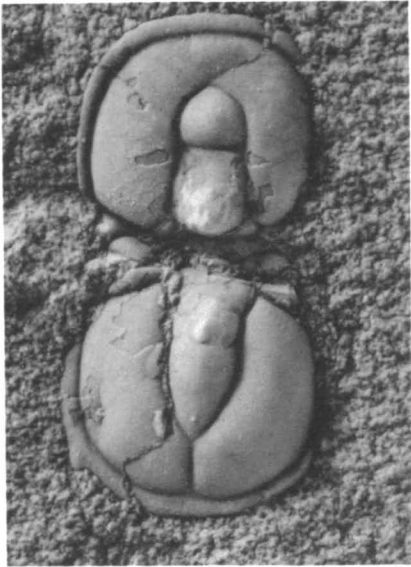
Fig. 3. Pygidium, CPC 14078, in limestone, locality M41; x10.

Doryagnostus magister (Whitehouse)
(p. 83)

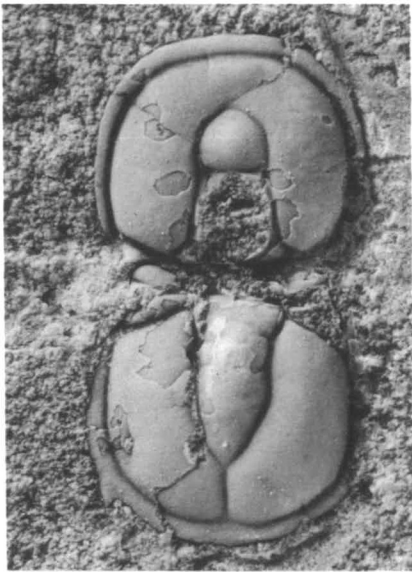
Fig. 4. Small exoskeleton, CPC 14079, in limestone, locality M409; x10.

Fig. 5. Cephalon, CPC 14080, in dolomitic limestone, locality D74; x9.

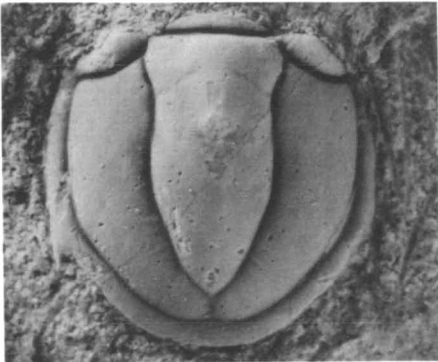
Fig. 6. Pygidium, CPC 14081, in dolomitic limestone, locality D74; x9.



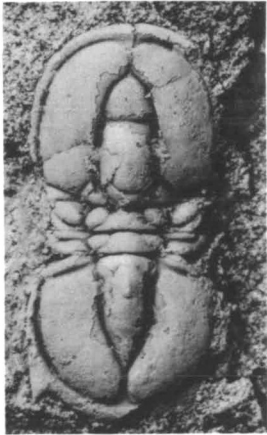
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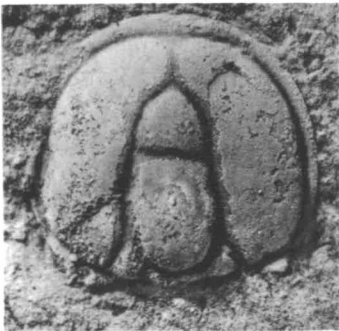
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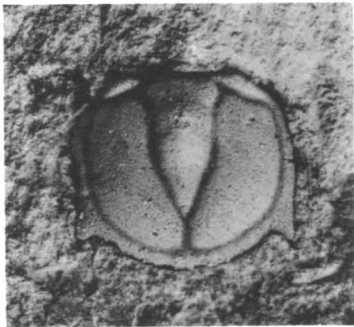
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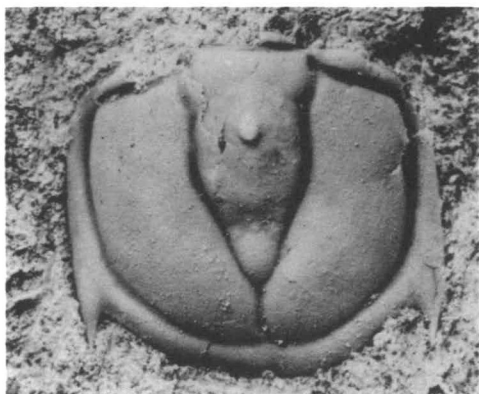


6

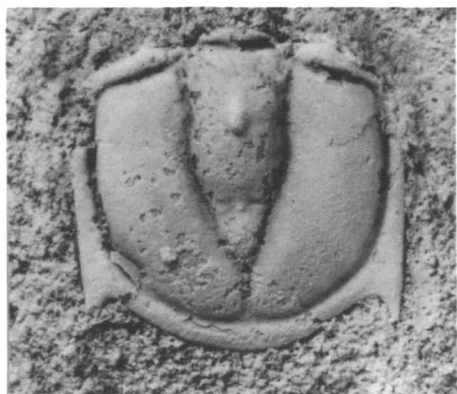
PLATE 18

Doryagnostus magister (Whitehouse)
(p. 83)

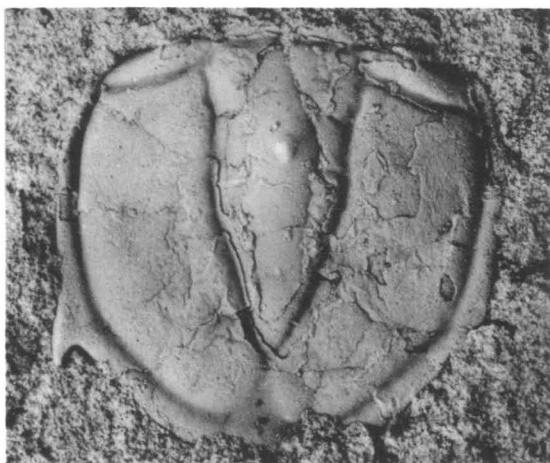
- Fig. 1. Pygidium, CPC 14082, in limestone, locality M57; x12.
Fig. 2. Pygidium, CPC 14083, in limestone, locality M57; x12.
Fig. 3. Pygidium, CPC 14084, in limestone, locality M24; x12. Same specimen as Plate 8, fig. 1.
Fig. 4. Cephalon, CPC 14085, internal surface of test showing caeca; in limestone, locality M410; x8.
Fig. 5. Isolated thorax, CPC 14086, in limestone, locality M409; x15.



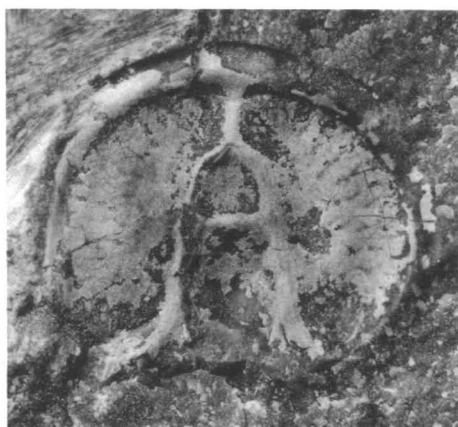
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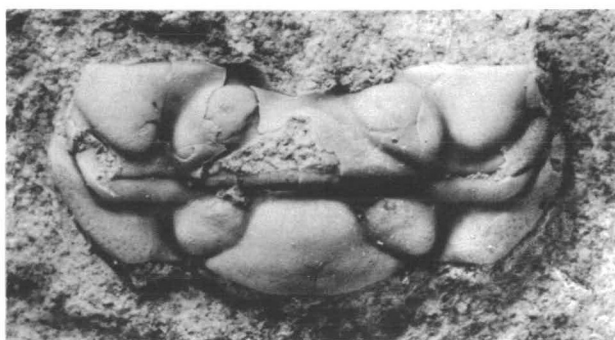
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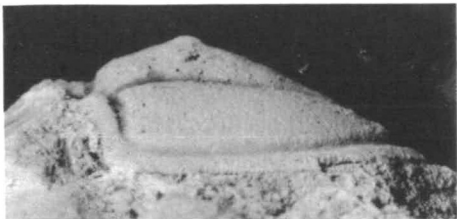
PLATE 19

Doryagnostus notalibrae sp. nov.
(p. 84)

- Figs. 1, 1a. Top and lateral views of **holotype** pygidium, CPC 14087, in calcite, locality M89; x10.
- Figs. 2, 2a. Top and lateral views of cephalon, CPC 14088, in calcite, locality M89; x10.
- Figs. 3, 3a. Top and lateral views of cephalon, CPC 14089, in calcite, locality M89; x8.
- Fig. 4. Cephalon, CPC 14090, in limestone, locality M212; x7.



1



1a



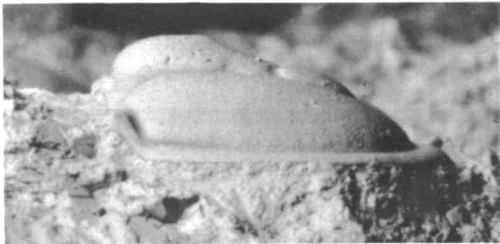
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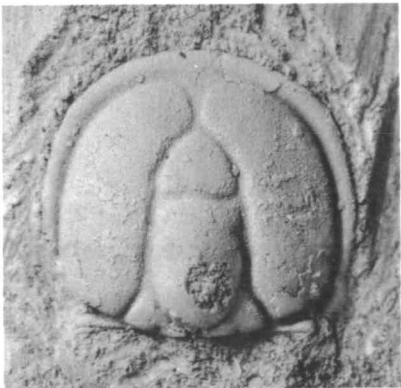
2



3a



2a

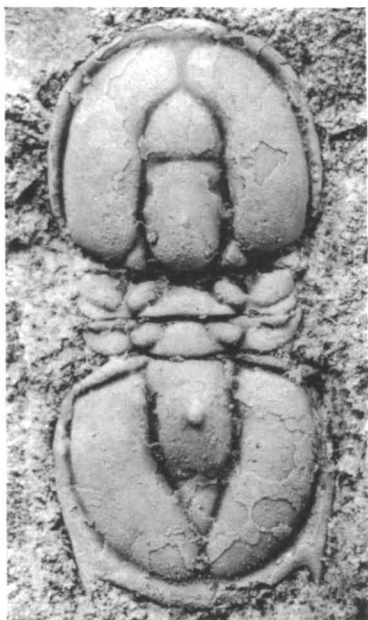


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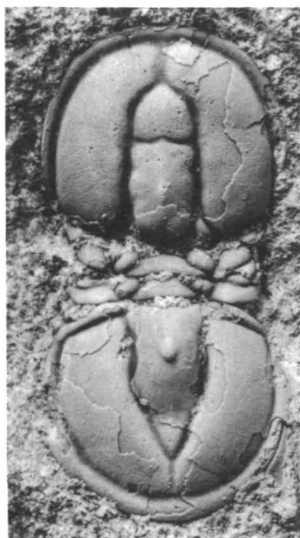
PLATE 20

Doryagnostus magister (Whitehouse)
(p. 83)

- Fig. 1. Small exoskeleton (7.0 mm long), CPC 14091, in limestone, locality M57; x10.
- Fig. 2. Larger exoskeleton (9.0 mm long), CPC 14092, in limestone, locality M57; x7.
- Figs. 3, 3a. Large exoskeleton (15.3 mm long), CPC 14093; 3—top view, x6.5; 3a—semilateral view, x6.
- Fig. 4. Exoskeleton (9.7 mm long), CPC 14094, in limestone, locality M409; x11.



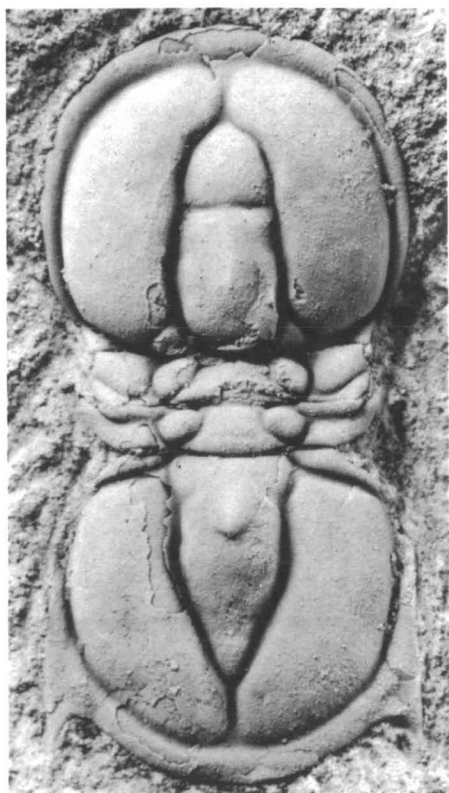
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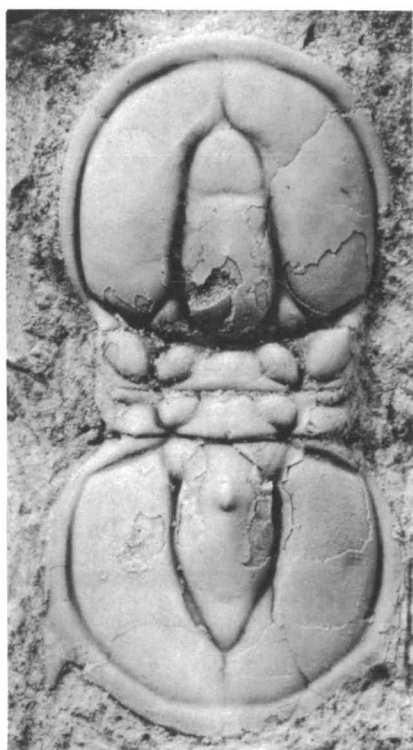
2



3a



4



3

PLATE 21

Doryagnostus notalibrae sp. nov.

(p. 84)

- Fig. 1. Cephalon with thorax, CPC 14095, in silty limestone, locality M212; x10.
Fig. 2. Pygidium, latex cast of CPC 14096, in silty limestone, locality M212; x7.
Fig. 3. Small cephalon (1.7 mm long), CPC 14097, in limestone, locality M214; x11.

Doryagnostus solidus sp. nov.

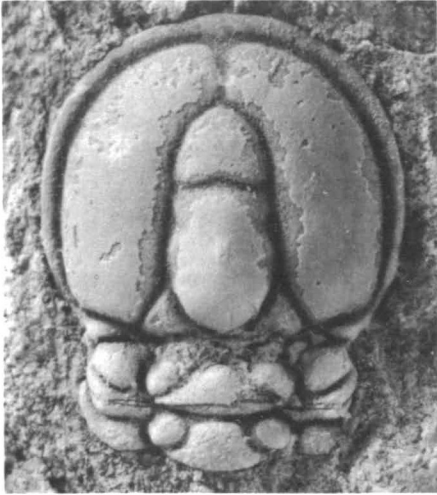
(p. 86)

- Fig. 4. **Holotype** exoskeleton, CPC 14098, in limestone, locality M139; x8.
See also Plate 6, figs. 1 and 2.

Doryagnostus sp. aff. **notalibrae**

(p. 86)

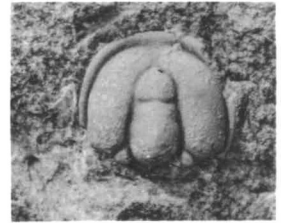
- Fig. 5. Cephalon, CPC 14099, in limestone, locality M161; x10.
Fig. 6. Pygidium, CPC 14100, in limestone, locality M161; x10.



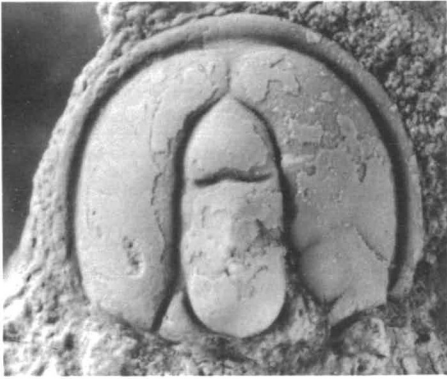
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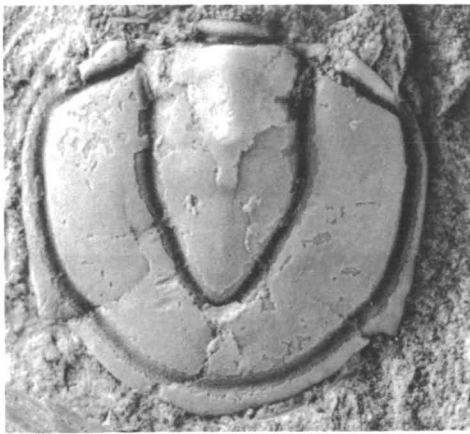
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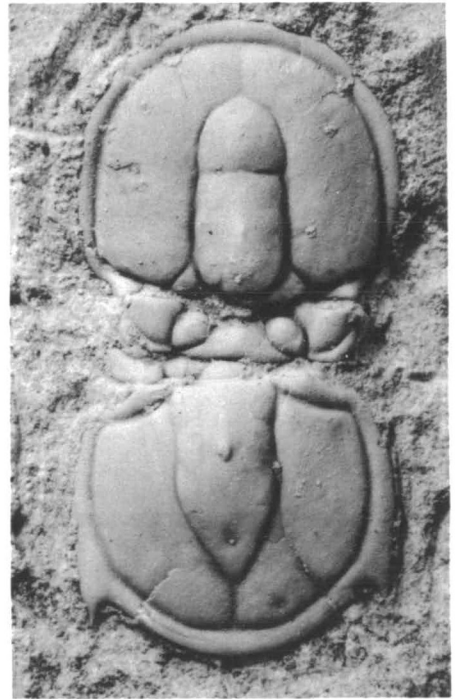
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PLATE 22

Triplagnostus diremptus sp. nov.
(p. 122)

Fig. 1. Part of a cluster of shields, CPC 14101, in silty shale, locality M149; x8.

Diplagnostus atavorum sp. nov.
(p. 42)

Fig. 2. **Holotype** cephalon, CPC 14102, in shale (siltstone), locality M192; x12.

Euagnostus? glandifer sp. nov.
(p. 79)

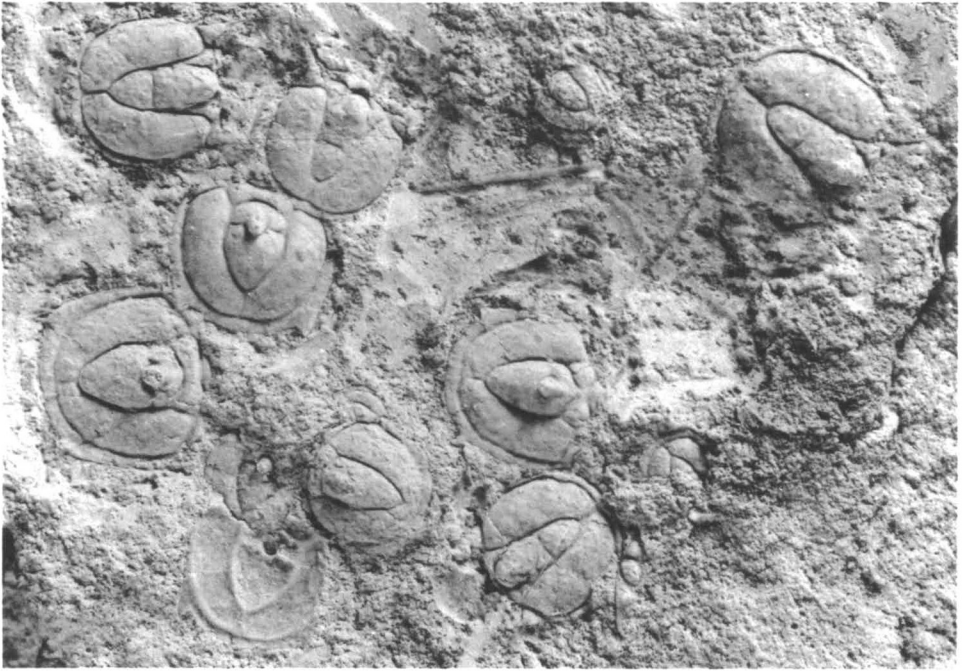
Fig. 3. **Holotype** cephalon, CPC 14103, in limestone, locality M180; x7.
Pygidium in Plate 14, fig. 5.

Grandagnostus imitans Öpik
(p. 73)

Fig. 4. Exoskeleton, CPC 14104, in limestone, locality M41; x12.

?Peronopsis (?Itagnostus) sp. indet.
(p. 62)

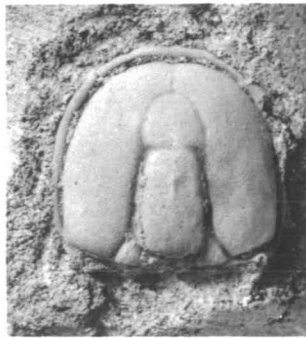
Fig. 5. Pygidium, CPC 14105, in siltstone, locality M281; x13. Associated is a pygidium of *Peronopsis fallax ferox* and a spicule of a sponge.



1



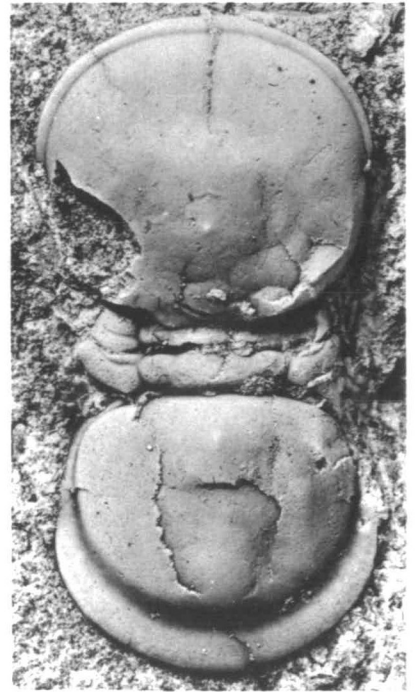
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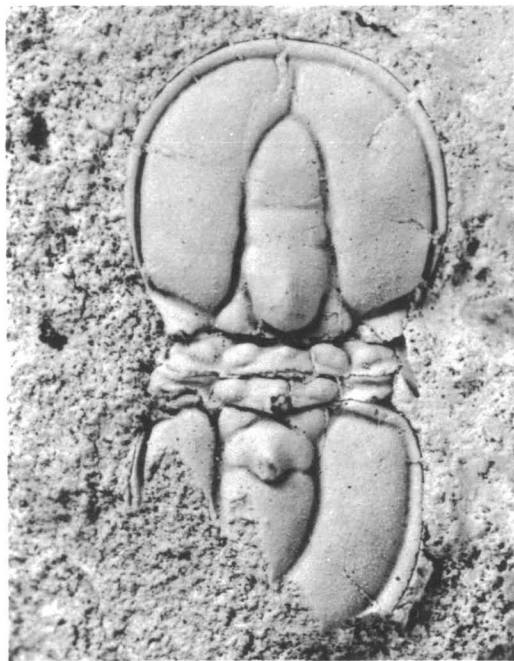
PLATE 23

Triplagnostus gibbus (Linnarsson)
(p. 117)

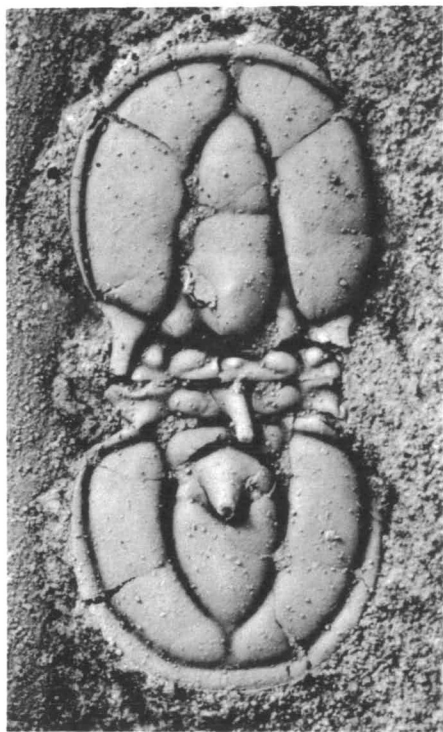
- Fig. 1. Exoskeleton, CPC 14106, in siltstone, locality M433; x14.
Fig. 2. Pygidium, CPC 14107, in siltstone, locality M433; x15.
Fig. 3. Pygidium, CPC 14108, in siltstone, locality M433; x15.

Triplagnostus gibbus posterus subsp. nov.
(p. 119)

- Fig. 4. **Holotype** exoskeleton, latex cast of CPC 14109, in siltstone or fine-grained sandstone, locality M433 (at Beetle Creek); x15.
Fig. 5. Two cephalae, latex cast of CPC 14110, in siltstone or fine-grained sandstone, locality M433 (at Beetle Creek); x10.



1



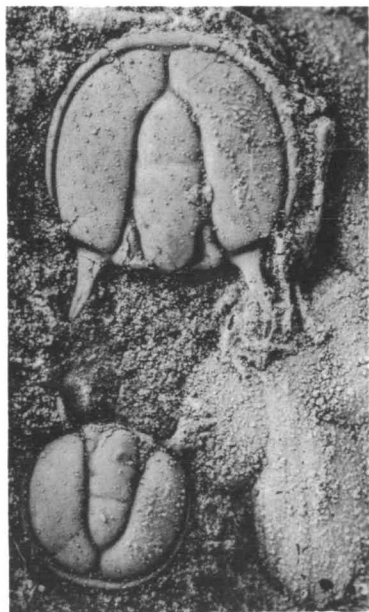
4



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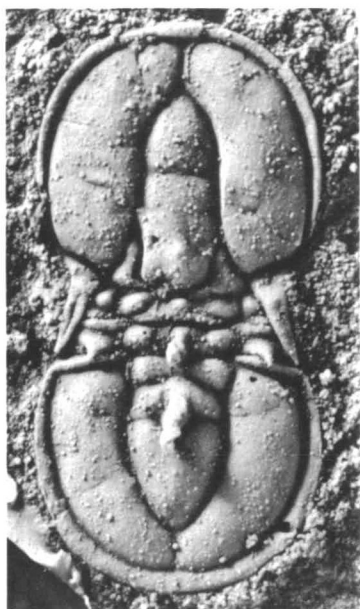


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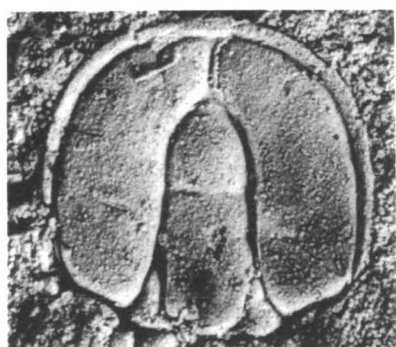
PLATE 24

Triplagnostus gibbus posterus subsp. nov.
(p. 119)

- Figs. 1, 2. Exoskeleton, latex cast of CPC 14111, in siltstone, locality M425; 1—x12.5; 2—x14.
- Fig. 3. Exoskeleton, CPC 14112, in siltstone, locality M425; x20.
- Fig. 4. Pygidium, CPC 14113, in limestone, locality M208; x15.
- Fig. 5. Cephalon, CPC 14114, in limestone, locality M208; x14.



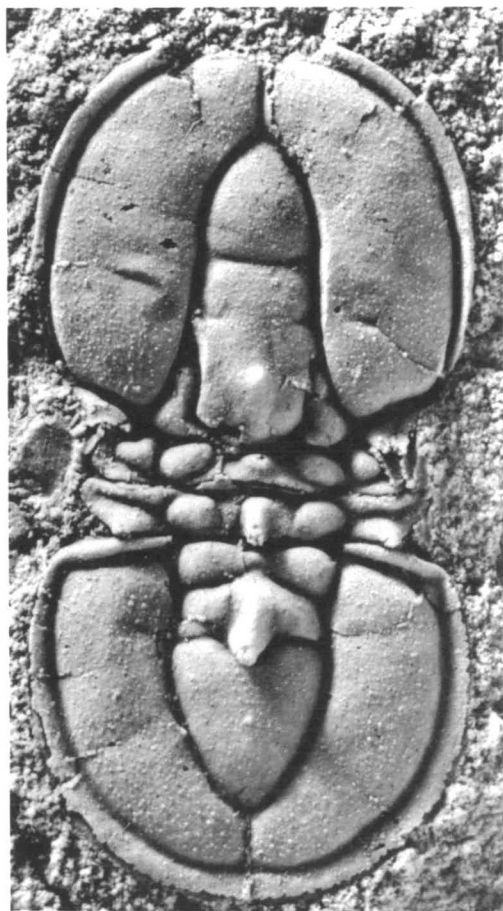
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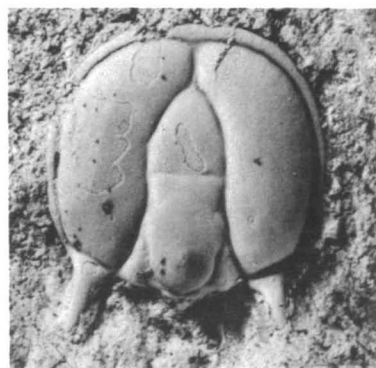
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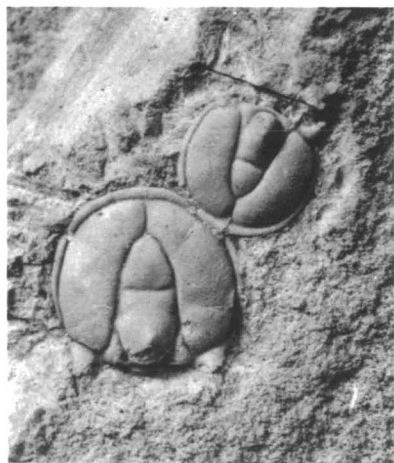
PLATE 25

Triplagnostus gibbus posterus subsp. nov.
(p. 119)

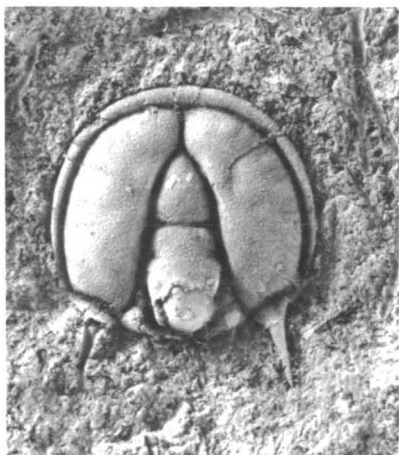
- Fig. 1. Shields of *T. gibbus posterus* associated with *Ptychagnostus atavus* pygidia and a pygidium of *Pseudoperonopsis*, CPC 14115, in limestone, locality M169; x10. In *T. gibbus posterus* the basal lobes are divided clearly—a relatively late form.
- Fig. 2. Cephalon, CPC 14116, in siltstone, locality M425; x10. As in Plate 24, fig. 5 the division of the basal lobes is less complete than in Figure 1.
- Fig. 3. Cephalon, CPC 14117, in limestone, locality M169 (same as Figure 1); x10.



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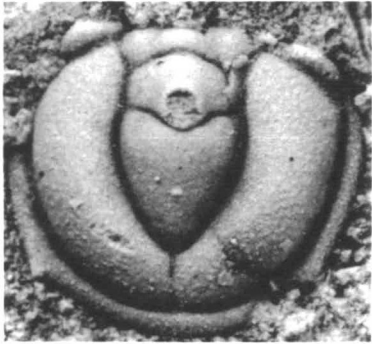
PLATE 26

***Triplagnostus diremptus* sp. nov.**
(p. 122)

- Fig. 1. **Holotype** cephalon, CPC 14118, in limestone, locality M123; x16.
A pygidium of the same species is associated.
- Fig. 2. Small pygidium, CPC 14119, in limestone, locality M123; x20.
- Fig. 3. Pygidium, CPC 14120, in limestone, locality M123; x10.
- Fig. 4. Large pygidium, CPC 14121, in limestone, locality M123; x10.
- Fig. 5. Cephalon, CPC 14122, in siltstone, locality M192; x10.
- Fig. 6. Cephalon (scrobiculate), CPC 14123, in limestone, locality M208; x14.

***Triplagnostus stramineus* sp. nov.**
(p. 124)

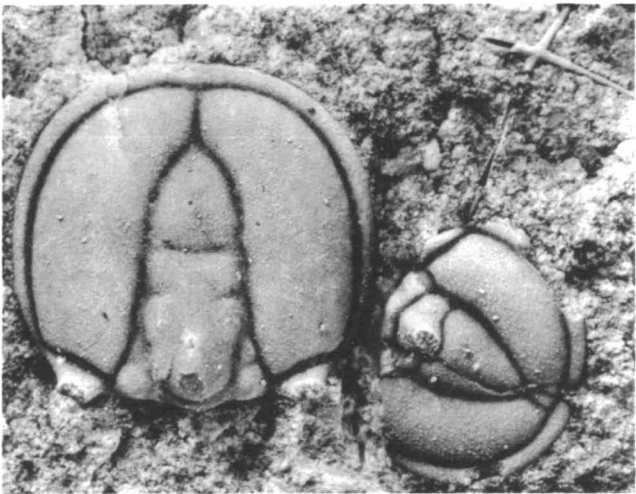
- Fig. 7. **Holotype** exoskeleton, CPC 14124, in siltstone with chert, locality M265; x15.



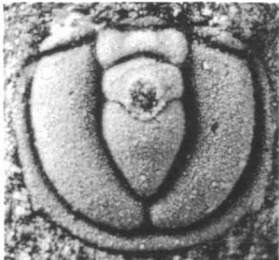
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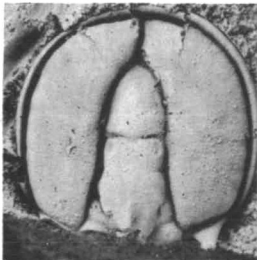
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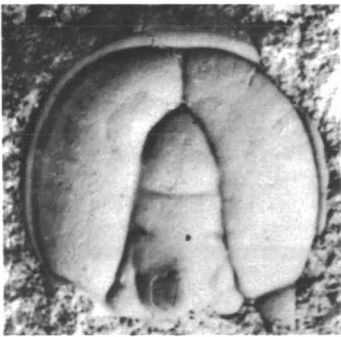
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PLATE 27

***Triplagnostus quasigibbus* sp. nov.**
(p. 120)

Fig. 1. **Holotype** exoskeleton, CPC 14125, in siltstone, locality M265; x13.

***Triplagnostus gibbus posterus* subsp. nov.**
(p. 119)

Fig. 2. Exoskeleton, CPC 14126, in siltstone, locality M263; x15.
A late variant of the subspecies.

***Triplagnostus* sp. indet.**
(p. 121)

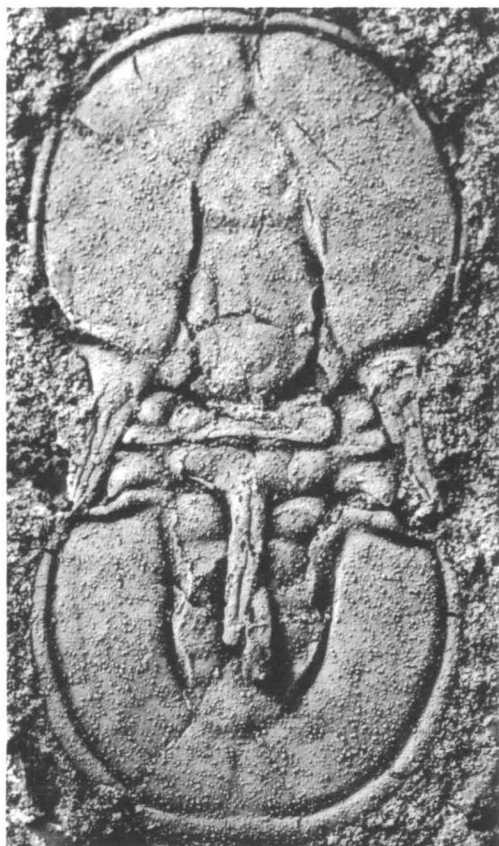
Fig. 3. Pygidium, CPC 14127, in siltstone, locality M425; x10.

***Triplagnostus fetus* sp. nov.**
(p. 121)

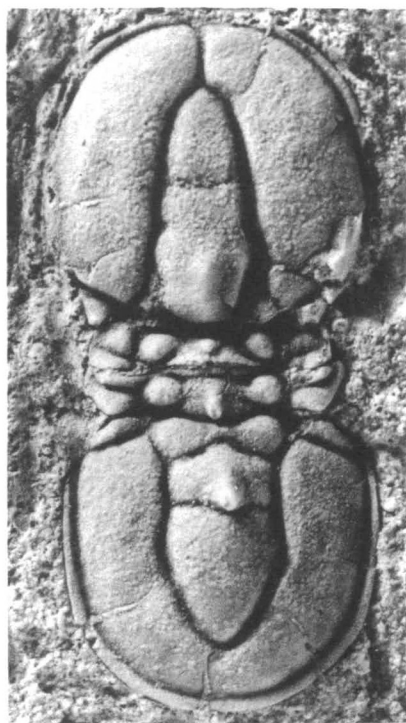
Fig. 4. Pygidium, CPC 14128, in siltstone, locality M265; x10.
Same specimen as in Plate 28, fig. 6.

***Triplagnostus scopus* sp. nov.**
(p. 124)

Figs. 5, 6. Exoskeleton, CPC 14129, in siltstone, locality M265; 5—x10; 6—latex cast, x13.



2



1



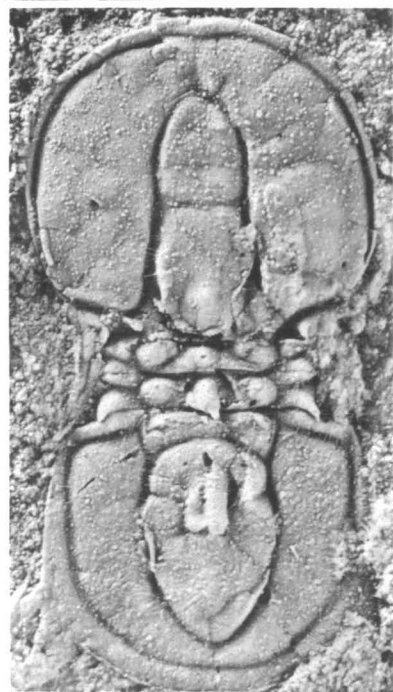
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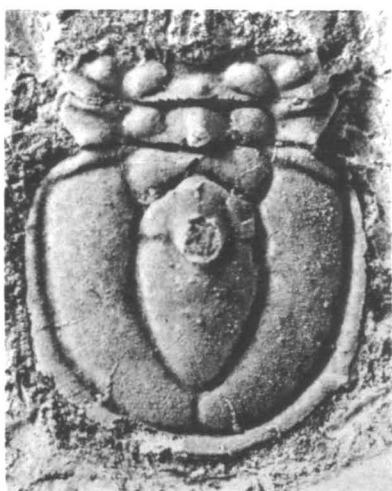


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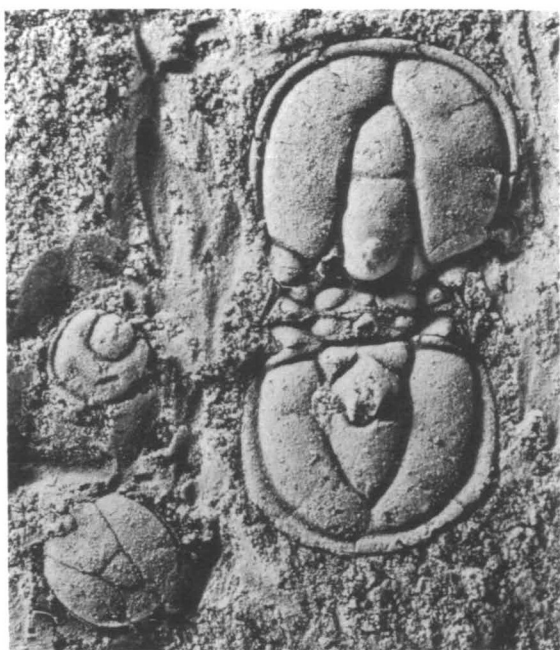
PLATE 28

Triplagnostus fretus sp. nov.
(p. 121)

- Fig. 1. **Holotype** exoskeleton, CPC 14130, in siltstone, locality M281; x12.
Zeteagnostus incautus sp. nov. is associated.
- Fig. 2. Thorax with pygidium, CPC 14131, in siltstone, locality M281; x8.
- Fig. 3. Pygidium, CPC 14132, in siltstone, locality M281; x14.
- Fig. 4. Pygidium, CPC 14133, in siltstone, locality M281; x14.
- Fig. 5. Cephalon, CPC 14134, in siltstone, locality M281; x12.
A pygidium of *Zeteagnostus incautus* sp. nov. is associated.
- Fig. 6. Pygidium, CPC 14128, in siltstone, locality M265; x15.
Same specimen as in Plate 27, fig. 4.



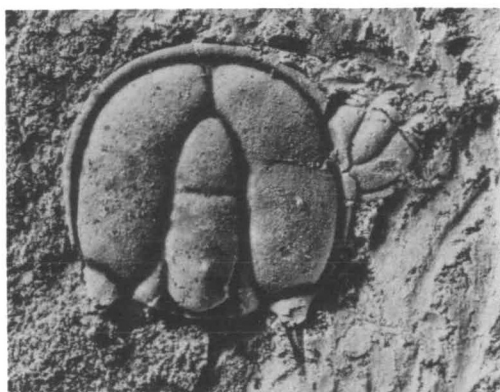
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PLATE 29

***Triplagnostus (Aristarius) retrocornutus* sp. nov.**

(p. 126)

All specimens came from siltstone (silty shale) with chert pods, of the Inca Formation, locality M265.

- Fig. 1. **Holotype** exoskeleton, CPC 14135; x12.
The right side is immersed in chert.
- Fig. 2. Pygidium, CPC 14136; x10.
The right side spine extends to the lower margin of the photograph.
- Figs. 3, 4, 7. Latex cast of a single piece of siltstone; x14.
- Fig. 3. Pygidium, latex cast of CPC 14137; x14.
- Fig. 4. Cephalon, latex cast of CPC 14138; x14.
- Fig. 5. Pygidium, CPC 14139; x10.
- Fig. 6. Cephalon, CPC 14140; x10.

***Ptychagnostus atavus* (Tullberg)**

(p. 93)

- Fig. 7. Cephalon, CPC 14390; x13.



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PLATE 30

Triplagnostus (Aristarius) aristarius sp. nov.
(p. 126)

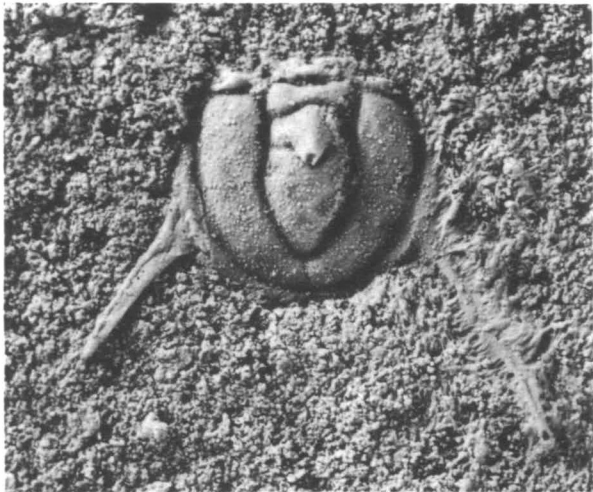
- Fig. 1. Pygidium, latex cast of CPC 14141, in siltstone, locality M263; x10.
Fig. 2. **Holotype** cephalon, latex cast CPC 14142, in siltstone, locality M263; x10.
Fig. 3. **Holotype** cephalon, CPC 14143, in siltstone, locality M263; x10.

Triplagnostus (Aristarius) aff. ultimus
(p. 128)

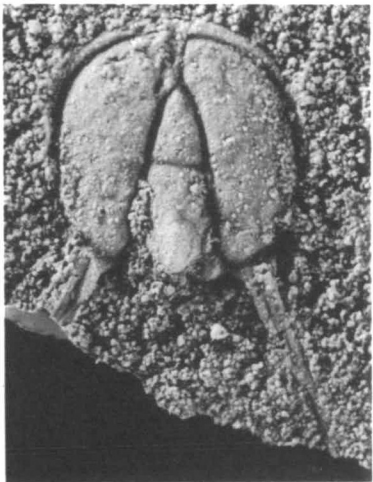
- Fig. 4. Exoskeleton, latex cast of CPC 14144, in shale, locality M434; x10.

Triplagnostus (Aristarius) ultimus sp. nov.
(p. 127)

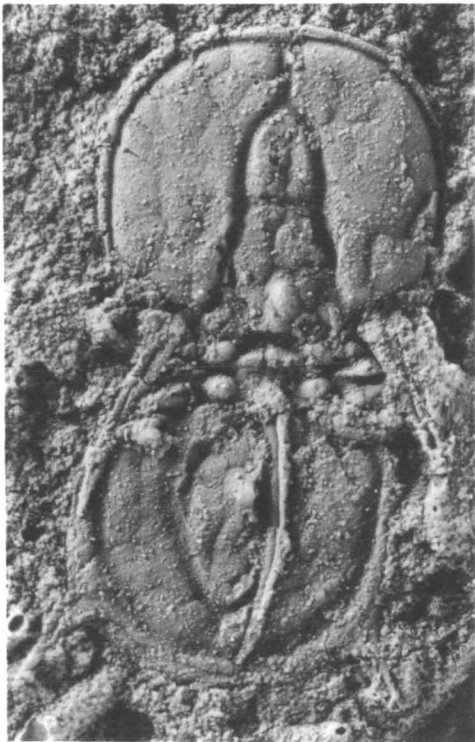
- Fig. 5. Pygidium, CPC 14145, in limestone, locality M57; x10.



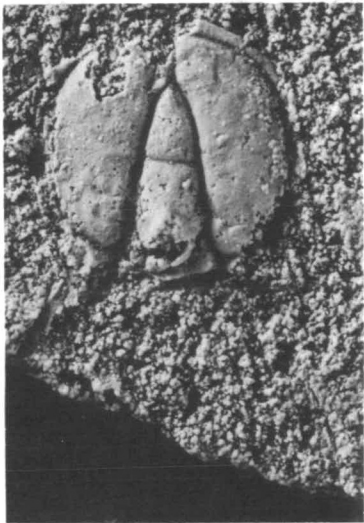
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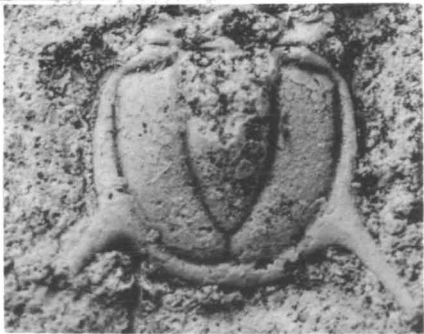
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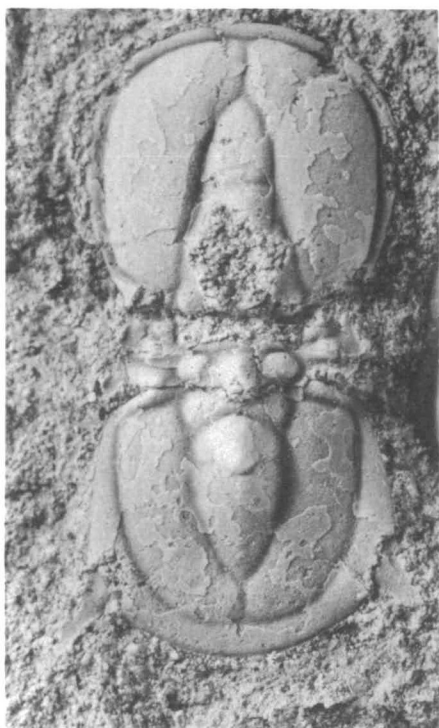
PLATE 31

Triplagnostus (Aristarius) ultimus sp. nov.
(p. 127)

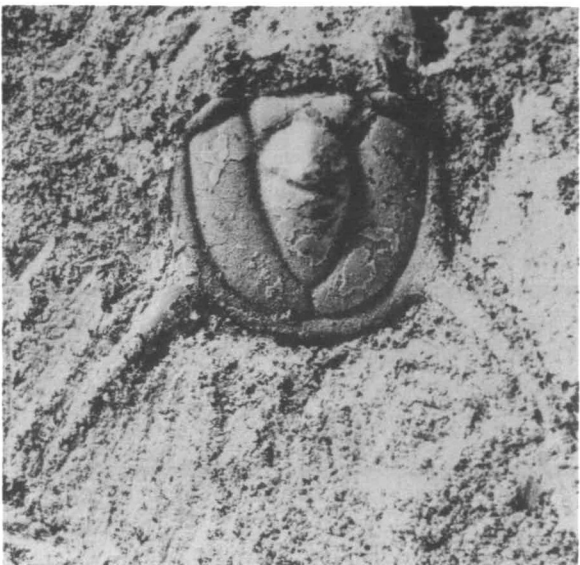
- Fig. 1. **Holotype** exoskeleton, CPC 14146, in limestone, locality M57; x13.
Fig. 2. Pygidium, CPC 14147, in limestone, locality M57; x14.

Aotagnostus ponebrevis sp. nov.
(p. 131)

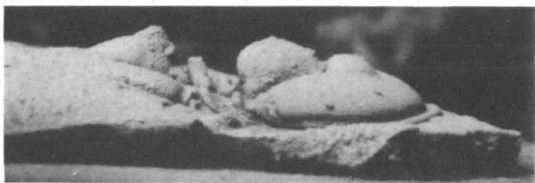
- Fig. 3. Cephalon, CPC 14148, in limestone, locality M191; x16.
Fig. 4. Pygidium, CPC 14149, in limestone, locality M191; x19.
Figs. 5-7. **Holotype** exoskeleton, CPC 14150. 5—lateral view; x16. 6—top view; x16.
7—latex cast; x12.



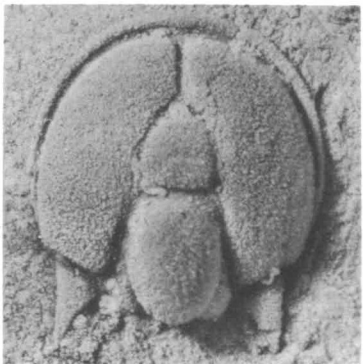
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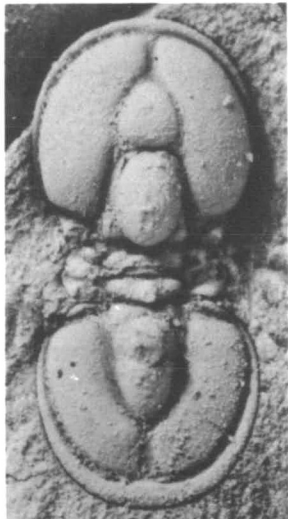
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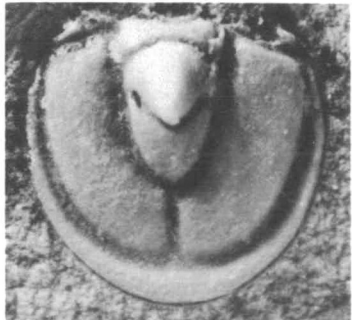
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PLATE 32

Aotagnostus aotus sp. nov.
(p. 129)

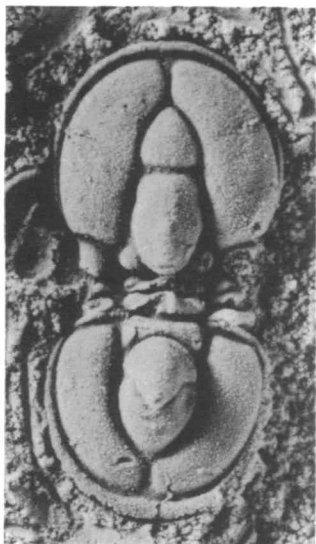
- Figs. 1, 2. **Holotype** exoskeleton, CPC 14151, in siltstone, Inca Formation, locality M263; x14.
- Figs. 3, 4. Exoskeleton, CPC 14152, in limestone, Currant Bush limestone, locality M166; x10.
Figure 4 is the latex cast.
- Fig. 5. Immature exoskeleton, CPC 14153, in limestone, Currant Bush limestone, locality M166; x24.
- Fig. 6. Immature exoskeleton, CPC 14154, in siltstone, locality M263; x20.
- Fig. 7. Two pygidia and a cephalon, CPC 14155, in siltstone, locality M263; x15.

Goniagnostus (Criotypus) sp. aff. paenerugatus
(p. 150)

- Fig. 8. Cephalon, CPC 14156, associated with specimens in Figure 7; x15.

Aotagnostus sp. indet. aff. ponebrevis
(p. 131)

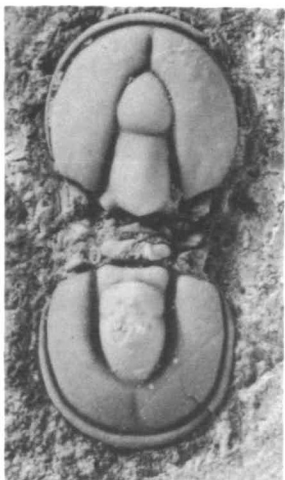
- Fig. 9. Pygidium, CPC 14165, in limestone, locality M191b; x10.



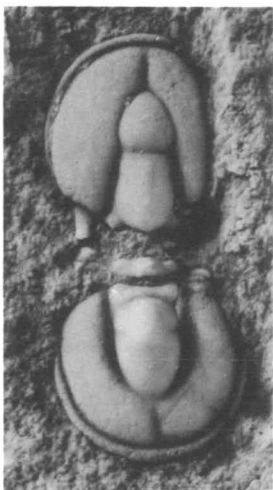
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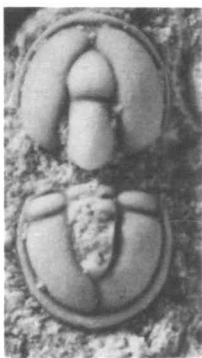
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PLATE 33

Aotagnostus protentus sp. nov.

(p. 132)

- Fig. 1. **Holotype** exoskeleton, CPC 14157, in limestone, locality M409; x7.5.
- Fig. 2. Cephalon with thorax, CPC 14158, in laminated translucent varicoloured chert, locality M194; x6.
The cephalon and three spines of the second thoracic segment are long.
- Fig. 3. Immature exoskeleton, CPC 14159, in limestone, locality M212; x14.
The right marginal spine in the pygidium is preserved.
- Fig. 4. Pygidium, CPC 14160, in dolomitic limestone, locality D74; x9.
- Fig. 5. Cephalon, CPC 14161, in limestone, locality D69; x9.
- Fig. 6. Pygidium, CPC 14162, in limestone, locality M212; x10.

Aotagnostus culminosus sp. nov.

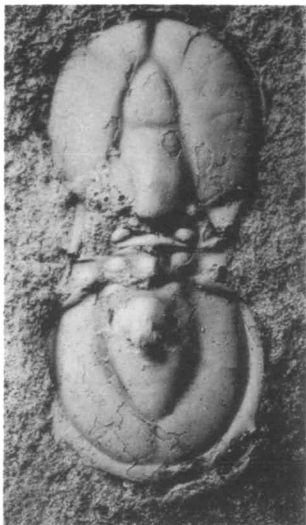
(p. 133)

- Fig. 7. Second thoracic segment, CPC 14163, in limestone, locality M212; x10.
See also Text-figure 41.

Aotagnostus magniceps sp. nov.

(p. 132)

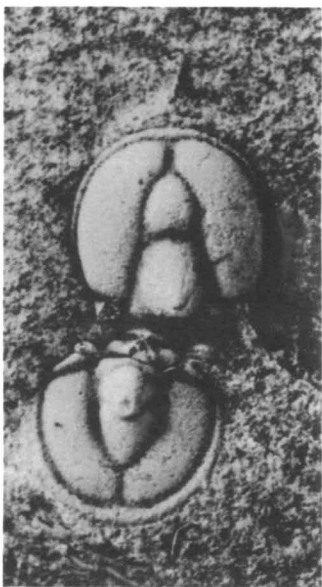
- Fig. 8. **Holotype** exoskeleton, CPC 14164, in limestone, locality M139; x11.



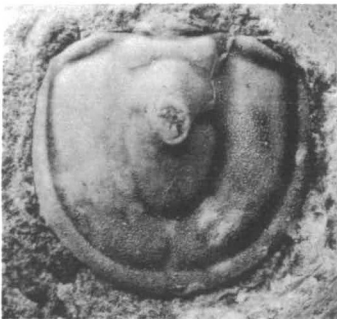
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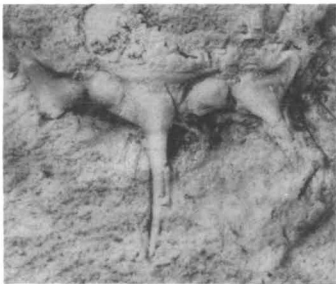
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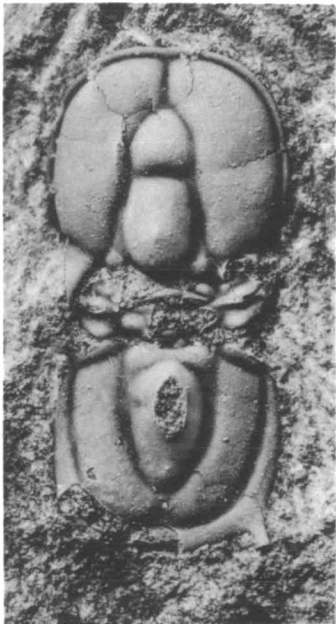
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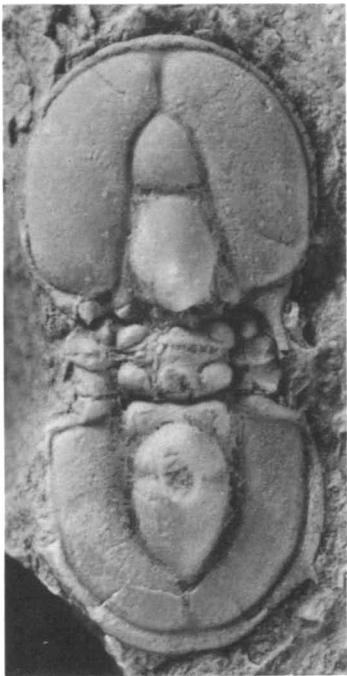


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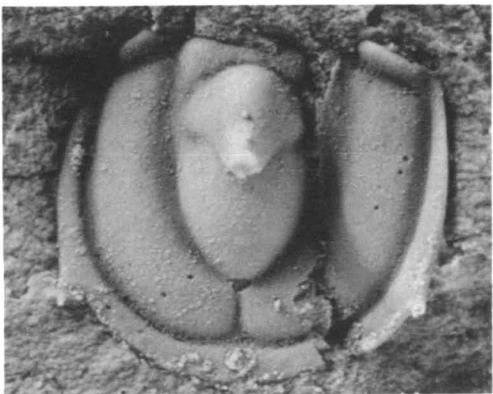
PLATE 34

Aotagnostus culminosus sp. nov.
(p. 133)

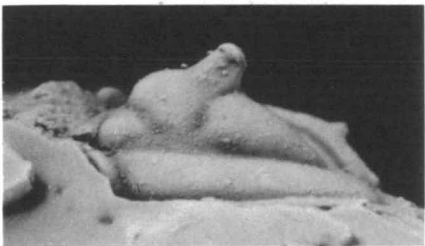
- Fig. 1. **Holotype** exoskeleton, CPC 14166, in limestone, locality M234; x9.
- Figs. 2–4. Pygidium, latex cast of CPC 14167, in dolomitic limestone, locality D74; x12.
- Fig. 5. Exoskeleton, CPC 14168, in limestone, locality M409; x7.
- Fig. 6. Pygidium, CPC 14169, in limestone, locality M411 (close to water level); x10.
- Fig. 7. Cephalon, CPC 14170, in limestone, locality M212; x10.
- Fig. 8. Cephalon, CPC 14171, in limestone, locality M234; x10.
The cheeks are scrobiculate.



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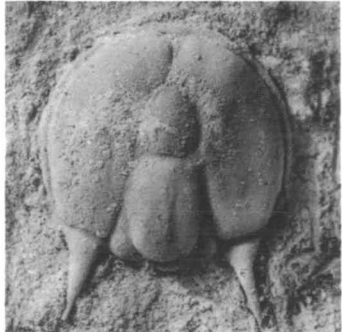
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PLATE 35

Aotagnostus modicus sp. nov.

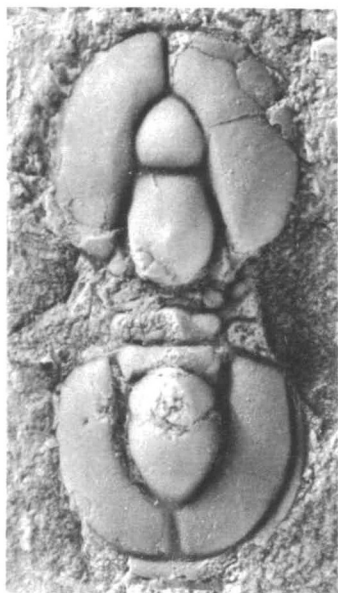
(p. 135)

- Fig. 1. **Holotype** exoskeleton, CPC 14172, V-Creek Limestone, locality M142; x12.
Fig. 2. Exoskeleton, CPC 14173, V-Creek Limestone, locality M142; x10.
Associated with the holotype.
Fig. 3. Cephalon, CPC 14174, V-Creek Limestone, locality M142; x10.

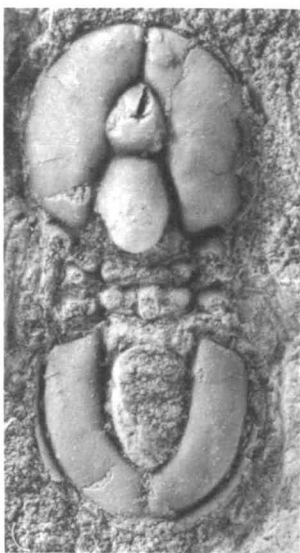
Myrmecomimus tribulis evanidus subsp. nov.

(p. 138)

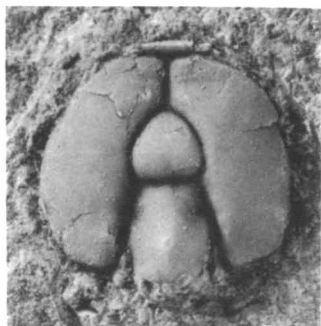
- Fig. 4. Cephalon with pygidium, CPC 14175, in limestone, locality M411 (top of section); x14.
Fig. 5. Exoskeleton, CPC 14176, in limestone, locality M411 (top of section); x7.
Fig. 6. **Holotype** exoskeleton and an associated pygidium, CPC 14177, in limestone, locality M411 (top of section); x12.
Fig. 7. Pygidium with thorax, CPC 14178, in limestone, locality M411 (top of section); x16.



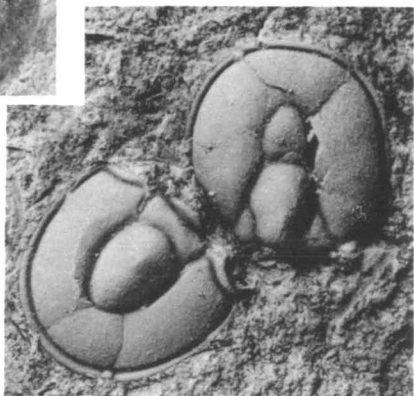
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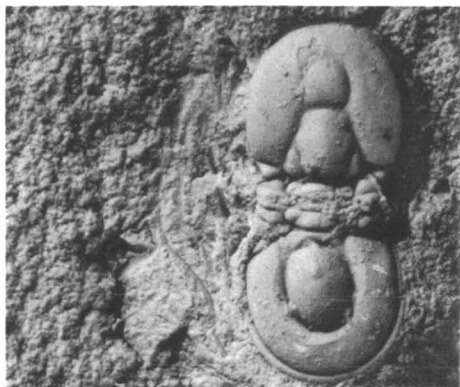
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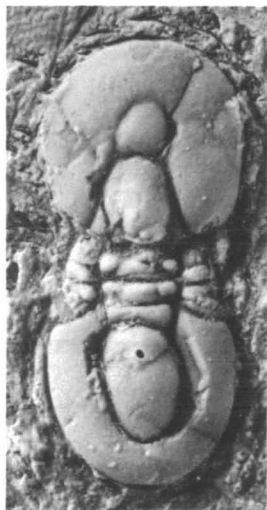
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PLATE 36

Myrmecomimus tribulis sp. nov.

(p. 136)

Fig. 1. Above is latex cast of **holotype** exoskeleton, CPC 14179 associated with an exoskeleton (below) which has an aberrant (oversize) frontal glabellar lobe; x14.

Fig. 1a. **Holotype** exoskeleton, CPC 14179; positive.

Fig. 2. Latex cast of **holotype**; same as Fig. 1, with bubbles.

Fig. 3. Exoskeleton, CPC 14180; x14.

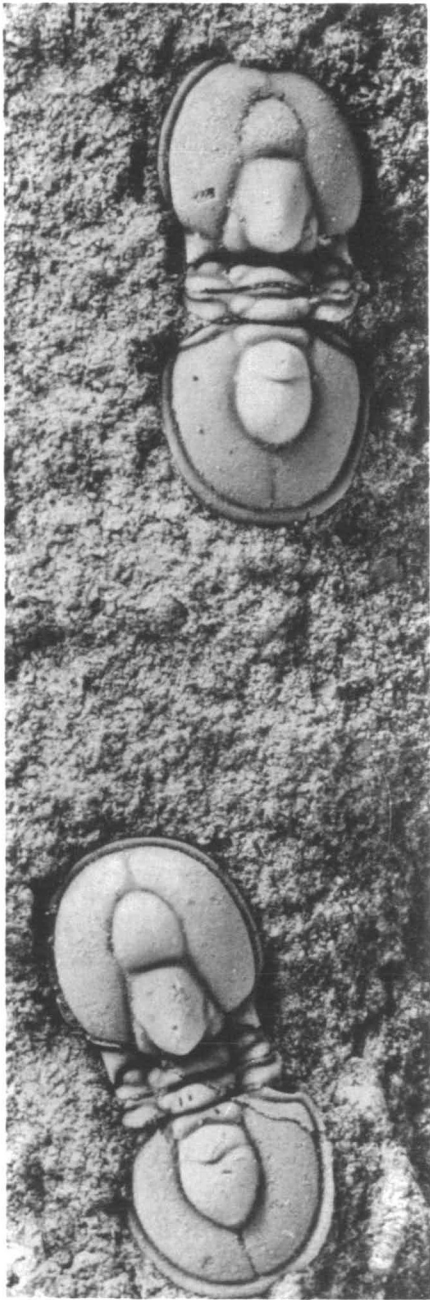
Fig. 4. Exoskeleton, CPC 14181, in limestone, locality M212; x15.

Myrmecomimus tribulis mixtus subsp. nov.

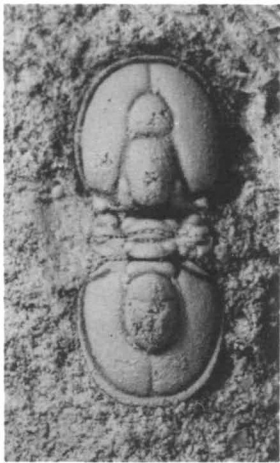
(p. 137)

Fig. 5. Cephalon, CPC 14182, in limestone, locality M411 (at water level); x15.

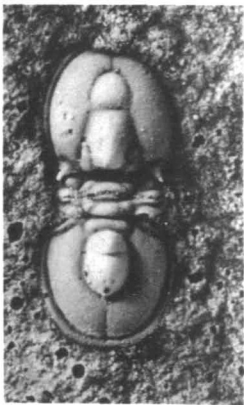
Fig. 6. Pygidium, CPC 14183, in limestone, locality M409; x15.



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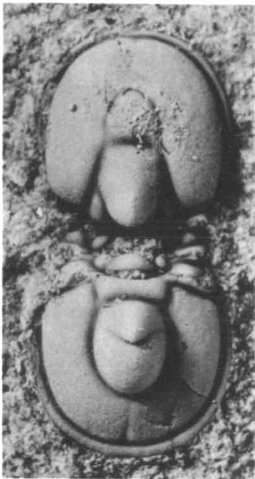
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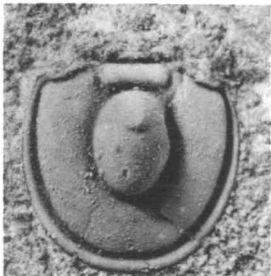
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PLATE 37

Myrmecomimus tribulis mixtus subsp. nov.
(p. 137)

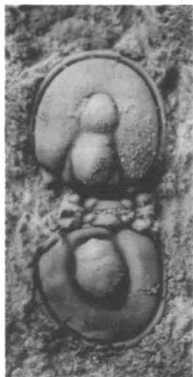
- Fig. 1. **Holotype** exoskeleton, CPC 14184, in limestone, locality M409; x10.
Fig. 2. Exoskeleton, CPC 14185, in limestone, locality M411 (close to water level); x10.
Figs. 3, 4. Exoskeleton, CPC 14186, in chert, locality M59; x9.
Figure 4 is a latex cast.

Myrmecomimus saltus sp. nov.
(p. 139)

- Fig. 5. Two exoskeletons, CPC 14187, in friable silica in hard siltstone or chert, locality M289; x16.
Fig. 6. Exoskeleton, CPC 14188, in friable silica in hard siltstone or chert, locality M289; x16.
Figs. 7, 8. **Holotype** exoskeleton, CPC 14189, top and lateral views. In friable silica in hard siltstone or chert, locality M289; x17.



1



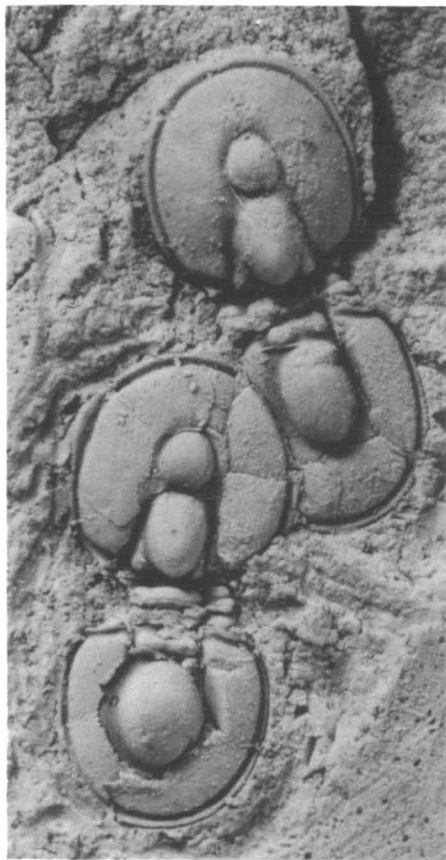
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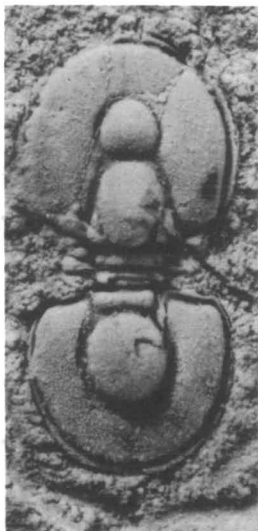
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PLATE 38

Ptychagnostus punctuosus punctuosus (Angelin)
(p. 89)

Exoskeleton, latex cast of CPC 14190; x24.
See Plate 39, fig. 1 for counterpart.

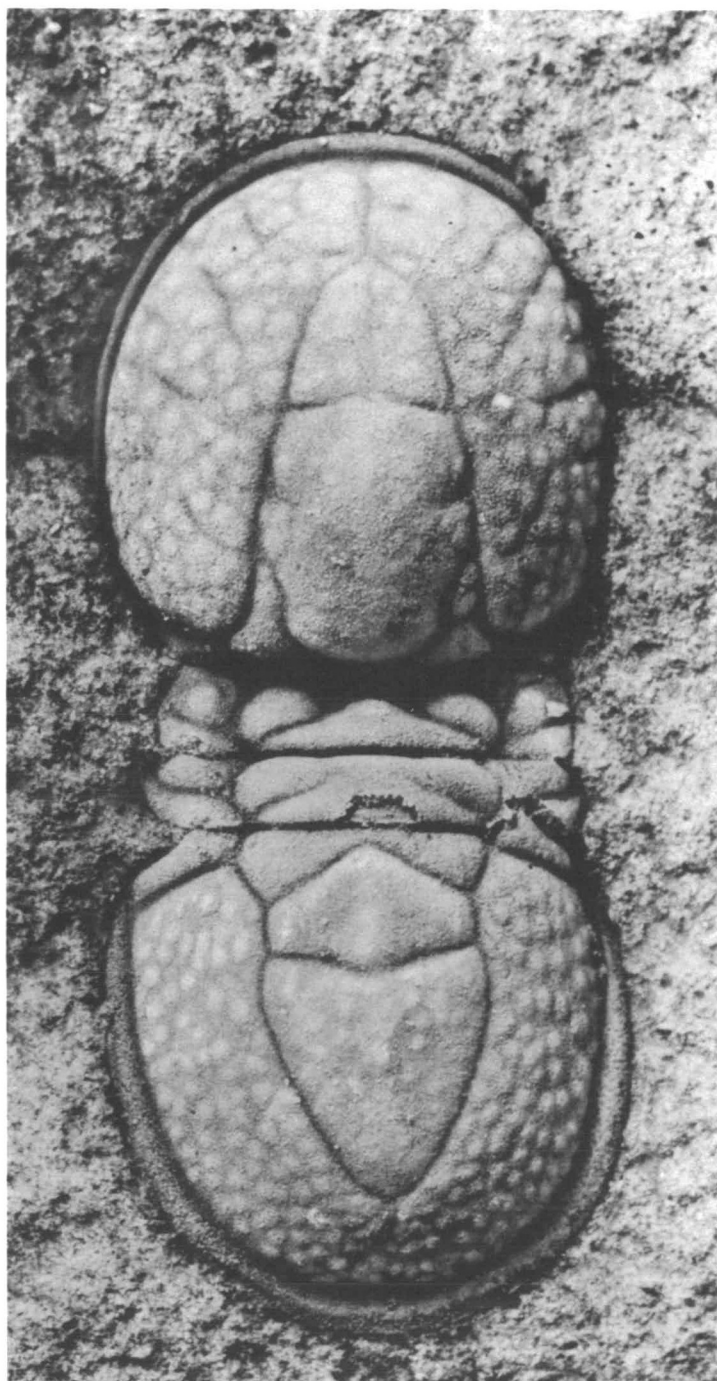


PLATE 39

Ptychagnostus punctuosus punctuosus (Angelin)
(p. 89)

- Fig. 1. Exoskeleton, CPC 14191, in fine-grained limestone, locality Q6 (within site D74); x10.
Counterpart of latex, Plate 38.
- Fig. 2. Cephalon, CPC 14192, in dolomitic limestone, locality D74; x9.
- Fig. 3. Cephalon, CPC 14193, in dolomitic limestone, locality D74; x9.
Associated with a cephalon of *Aotagnostus protentus*.
- Fig. 4. Cephalon, CPC 14194, in dolomitic limestone, locality D74; x9.
- Fig. 5. Pygidium, CPC 14195, in dolomitic limestone, locality D74; x13.
- Fig. 6. Pygidium, CPC 14196, in limestone, locality M174; x10.
Notulae are evident.
- Fig. 7. Pygidium, CPC 14197, in limestone, locality M214; x15.

Ptychagnostus punctuosus affinis (Brögger)
(p. 91)

- Fig. 8. Exoskeleton, CPC 14198, in limestone, locality M166; x6.
Specimen is singed by fire.

Ptychagnostus punctuosus punctuosus (Angelin)
(p. 89)

- Fig. 9. Immature exoskeleton, CPC 14199, in limestone, locality M409; x15.
- Fig. 10. Immature exoskeleton, CPC 14200, in limestone, locality M409; x9.



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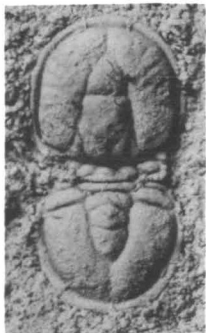
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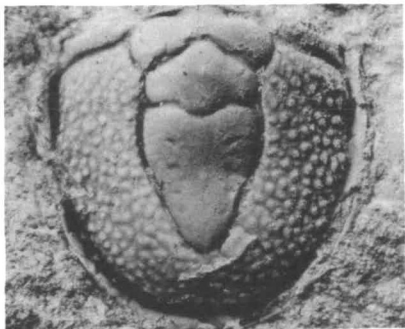
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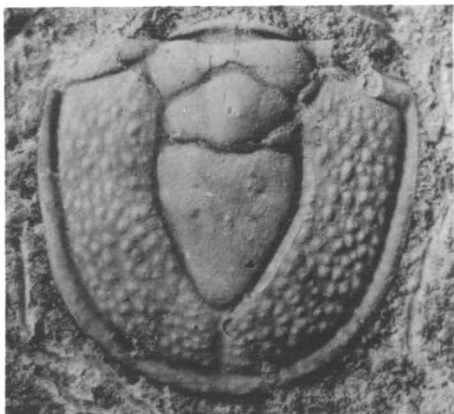
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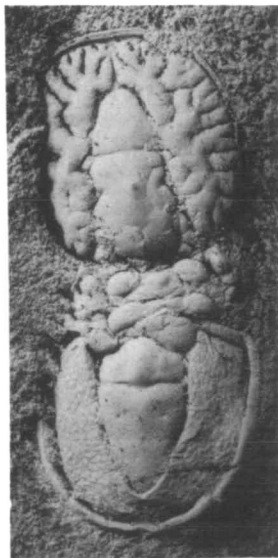
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PLATE 40

Ptychagnostus punctuosus punctuosus (Angelin)
(p. 89)

Fig. 1. Cephalon, CPC 14201, in chert, locality M59; x9.

Ptychagnostus punctuosus affinis (Brögger)
(p. 91)

Fig. 2. Exoskeleton, CPC 14202, in limestone, locality M410; x10.

Fig. 3. Cephalon, CPC 14203, in limestone, locality D69; x11.

Fig. 4. Cephalon (cf. *affinis*), CPC 14204, in limestone, locality D69; x15.

Fig. 5. Cephalon, CPC 14205, in limestone, locality M191a; x10.

Fig. 6. Cephalon, CPC 14206, in limestone, locality M234; x10.

Fig. 7. Pygidium, CPC 14207, in limestone, locality D69; x9.

Ptychagnostus mesostatus sp. nov.
(p. 97)

Fig. 8. Pygidium, CPC 14208, in limestone, locality M64; x10.

Ptychagnostus sp. nov. D
(p. 92)

Fig. 9. Cephalon, CPC 14209, in siltstone, locality M263; x13.

Associated is a small cephalon of *Aristarius aristarius* nov.

Fig. 10. Pygidium, CPC 14209a, in siltstone, locality M263; x13.



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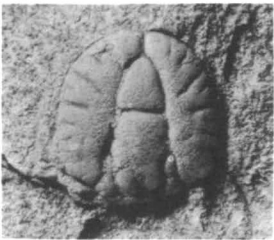
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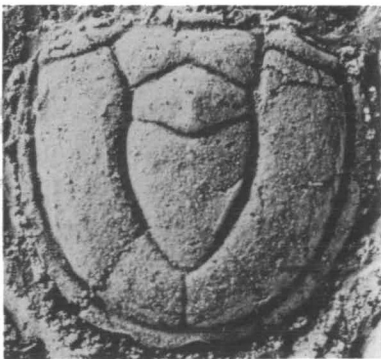
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PLATE 41

Ptychagnostus punctuosus fermexilis subsp. nov.

(p. 92)

- Fig. 1. Cephalon and pygidium, CPC 14210 and 14211, in limestone, locality D155; x10.
Associated is a cephalon of an immature *Leiopyge praecox* nov. (see Text-fig. 51).
- Fig. 2. Pygidium, CPC 14212, in limestone, locality D155; x8.
- Fig. 3. **Holotype** cephalon, CPC 14213, in limestone, locality D155; x12.
- Fig. 4. Pygidium, CPC 14214, in limestone, locality D155; x12.
- Fig. 5. Cephalon, CPC 14215, in limestone, locality Q6 (about site D74); x15.

Ptychagnostus mesostatus sp. nov.

(p. 97)

- Figs. 6, 7. **Holotype** exoskeleton, CPC 14216 and 14217, in chert, locality M59; x13.
Figure 6 is a latex cast.

Ptychagnostus intermedius (Tullberg)

(p. 95)

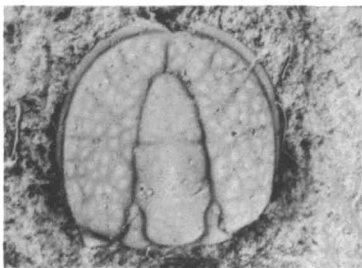
- Fig. 8. Exoskeleton, CPC 14218, in siltstone, locality M170; x12.
The specimen is singed by fire.



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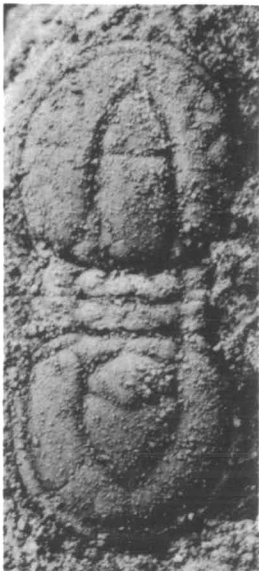
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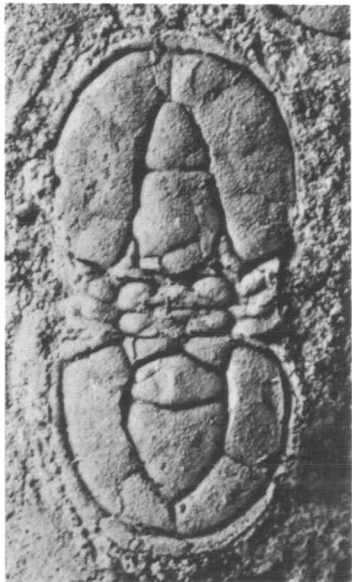
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PLATE 42

Ptychagnostus sp. indet. C
(p. 99)

- Fig. 1. Pygidium, CPC 14219, in shale, locality M263; x10.
Aotagnostus aotus is associated.
- Fig. 2. Pygidium, CPC 14220, in limestone, locality D69; x14.

?Ptychagnostus sp. indet. A (aff. *atavus*)
(p. 98)

- Figs. 3, 4. Cephalon, CPC 14221, in chert (silicified siltstone), locality M207; x10.
Figure 4 is a latex cast.

Ptychagnostus atavus coartatus subsp. nov.
(p. 94)

- Fig. 5. **Holotype**, CPC 14222, in siltstone, locality M192; x10.
- Fig. 6. Cephalon, CPC 14223, in siltstone, locality M425; x7.
Below is an associated cephalon of *Euagnostus certus* nov.

Ptychagnostus atavus (Tullberg)
(p. 93)

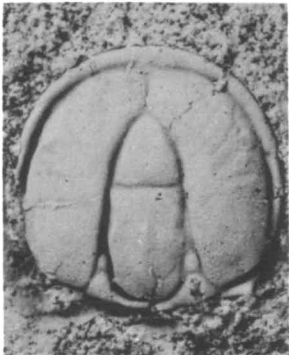
- Fig. 7. Cephalon, CPC 14224, in silty shale, locality M425; x10.
- Fig. 8. Cephalon, CPC 14225, in silty shale, locality M425; x7.



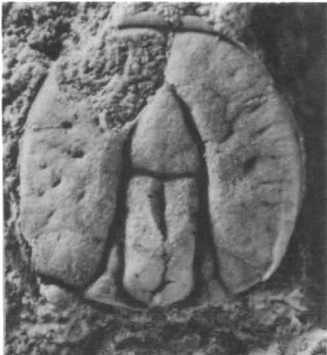
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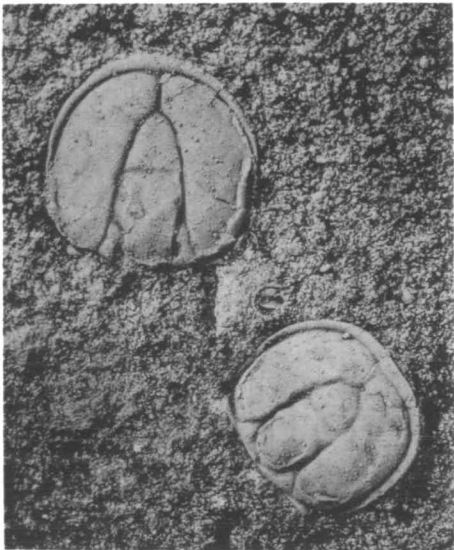
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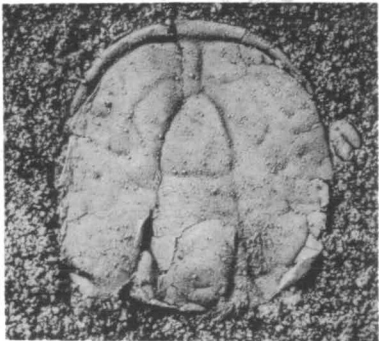
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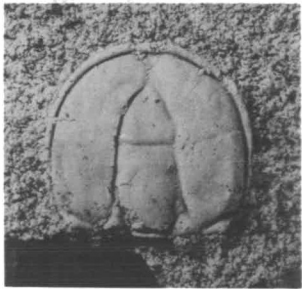
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PLATE 43

Ptychagnostus atavus (Tullberg)

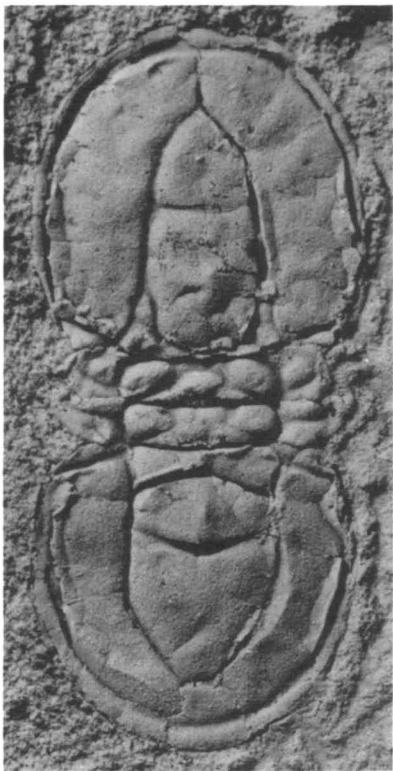
(p. 93)

- Fig. 1. Exoskeleton, CPC 14226, flattened, in shale, locality M425; x15.
- Fig. 2. Exoskeleton, CPC 14227, in shale, locality M245; x7.
- Fig. 3. Cephalon, CPC 14228, in siltstone, locality M192; x10.
- Fig. 4. Pygidium, CPC 14229, in siltstone, locality M425; x10.

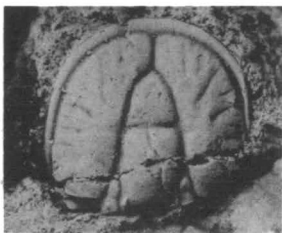
Ptychagnostus idmon sp. nov.

(p. 95)

- Fig. 5. **Holotype** cephalon, CPC 14230, in limestone, locality M208; x20.
Associated is a pygidium of *Peronopsis fallax ferox*.
- Fig. 6. Cephalon, CPC 14231, in limestone, locality M176; x10.
- Fig. 7. Pygidium, CPC 14232, in limestone, locality M208; x9.
- Figs. 8, 8a. Small, immature cephalon, CPC 14233, in limestone, locality M176; x16 and x20 respectively.



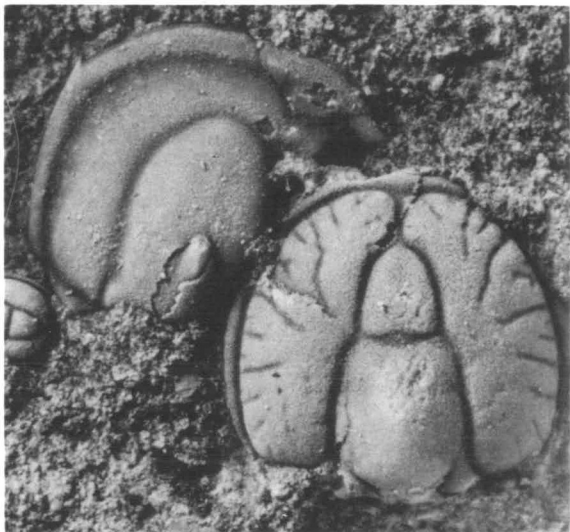
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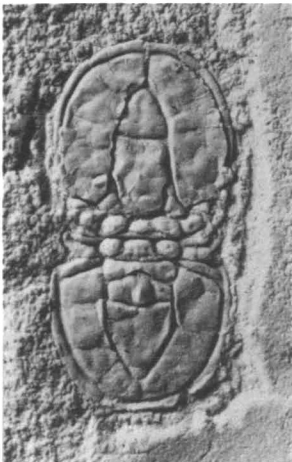
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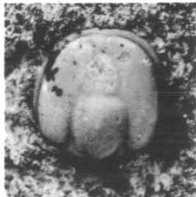
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PLATE 44

Ptychagnostus scarifatus sp. nov.
(p. 96)

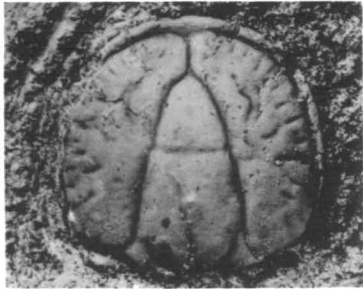
- Fig. 1. Cephalon, CPC 14234, in limestone, locality M176; x10.
Figs. 2, 3. **Holotype** cephalon CPC 14235, in limestone, locality M176; x13.
A pygidium of *Triplagnostus diremptus* is associated.
Fig. 4. Cephalon, CPC 14236, in limestone, locality M176; x10.
Fig. 5. Pygidium, CPC 14237, in limestone, locality M176; x12.

Ptychagnostus sp. aff. **scarifatus**
(p. 97)

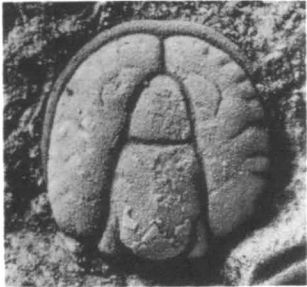
- Fig. 6. Pygidium, CPC 14238, in limestone, locality M176; x15.

Zeteagnostus incautus sp. nov.
(p. 105)

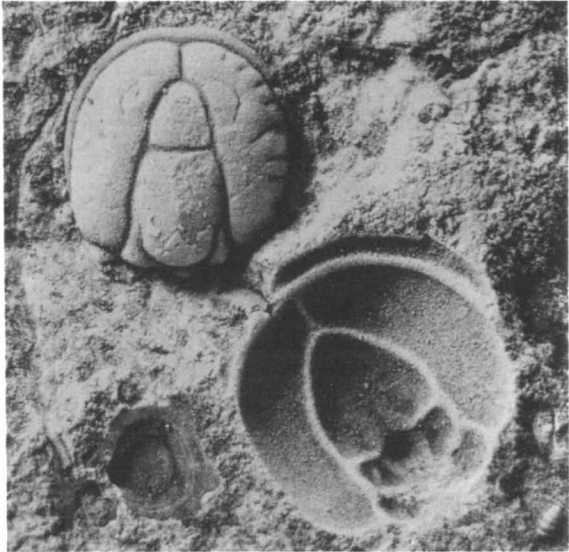
- Fig. 7. Exoskeleton, latex cast of CPC 14239, in limestone, locality M423; x12.
Fig. 8. Cephalon, CPC 14240, in limestone, locality M423; x15.
Fig. 9. Exoskeleton, CPC 14241, in siltstone, locality M281; x14.



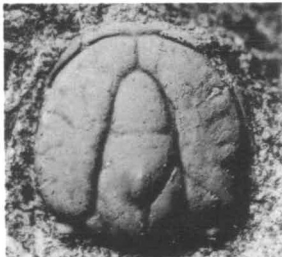
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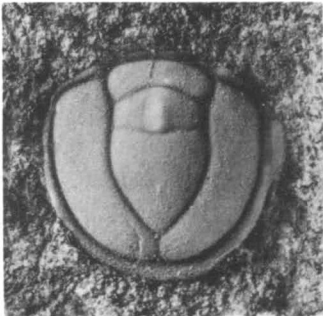
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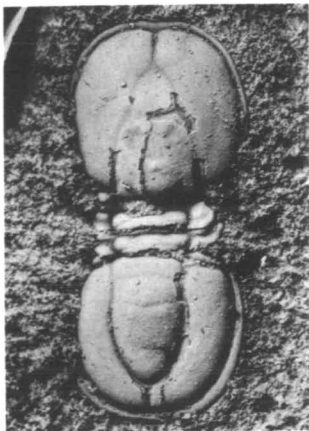
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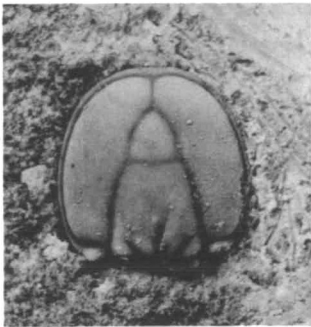
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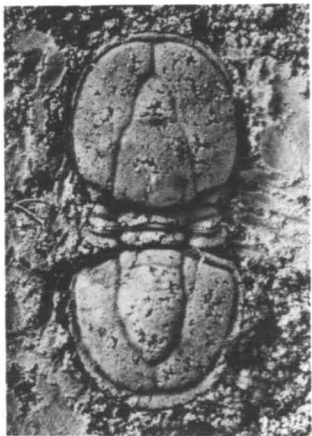
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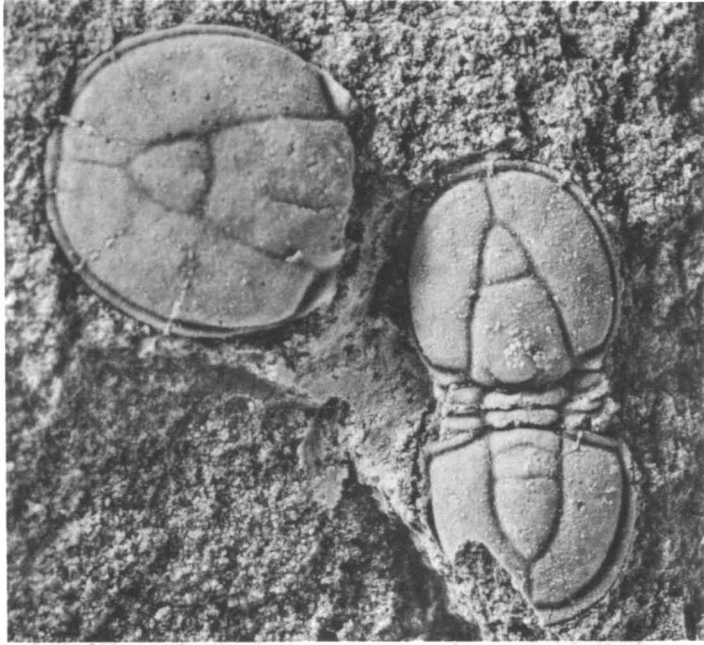
PLATE 45

Zeteagnostus incautus sp. nov.
(p. 105)

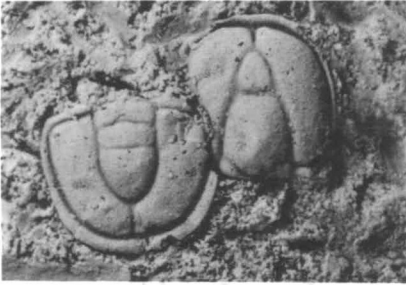
- Fig. 1. **Holotype** cephalon, CPC 14242, and an exoskeleton, in siltstone, locality M281; x20.
- Fig. 2. Immature cephalon and pygidium, CPC 14243, in siltstone, locality M192; x18.
- Fig. 3. Pygidium, CPC 14244, in siltstone, locality M281; x15.
- Fig. 4. Exoskeleton, CPC 14245, in siltstone, locality M265; x12.
Goniagnostus (Criotypus) paenerugatus sp. nov. is associated.

Goniagnostus (Criotypus) paenerugatus sp. nov.
(p. 149)

- Fig. 5. Cephalon, CPC 14246, in a siltstone pod in chert, locality M265; x12.
See also Plate 59, figs. 4-6.



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PLATE 46

Ptychagnostus (Acidusus) navus sp. nov.
(p. 101)

Fig. 1. **Holotype** exoskeleton, CPC 14247, in limestone, locality M214; x15.

Ptychagnostus (Acidusus) acidusus sp. nov.
(p. 100)

Figs. 2, 3. **Holotype** exoskeleton, CPC 14248, in limestone, locality M234; 2—x14; 3—
latex cast, x10.

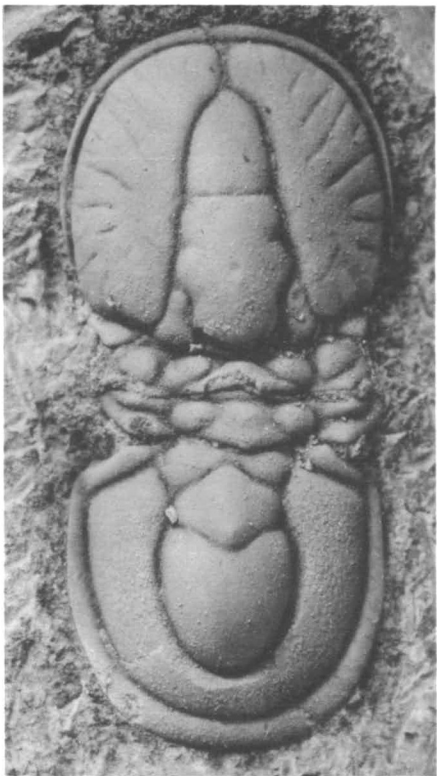
Fig. 4. Pygidium, CPC 14249, in limestone, locality M234; x11.

Ptychagnostus (Acidusus) retrotectus sp. nov.
(p. 102)

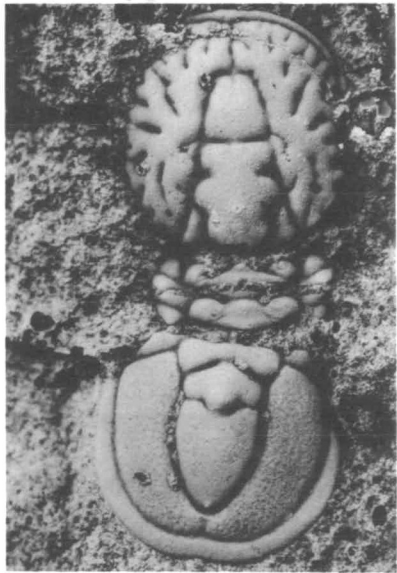
Fig. 5. **Holotype** exoskeleton, CPC 14250, in limestone, locality M416; x12.



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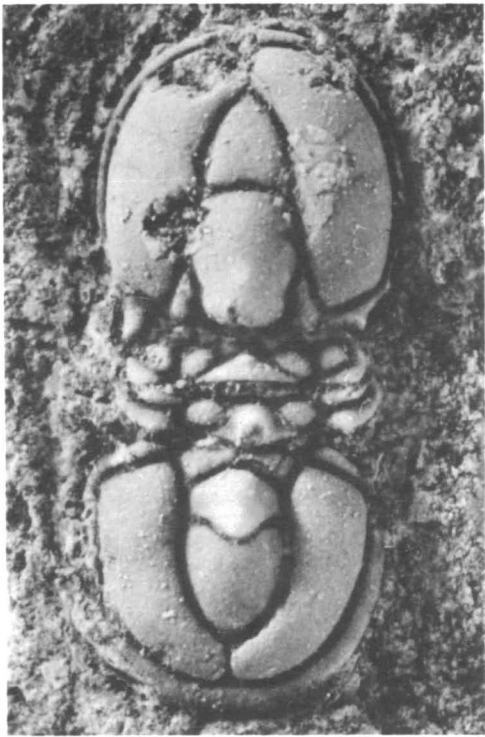


5

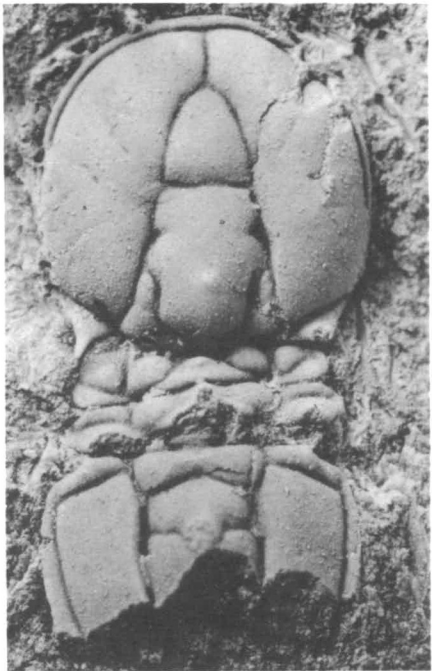
PLATE 47

***Ptychagnostus (Acidusus) germanus* sp. nov.**
(p. 102)

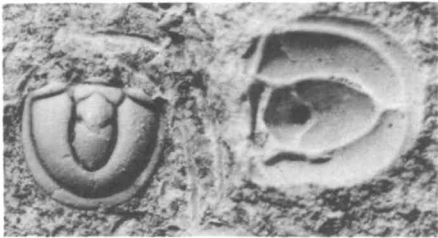
- Fig. 1. Holotype exoskeleton, CPC 14251, in limestone, locality M214; x20.
- Fig. 2. Exoskeleton, CPC 14252, in limestone, locality M214; x15.
- Fig. 3. Small pygidium, CPC 14253, in limestone, locality M214; x5.
Associated is a larger pygidium, whose latex cast is shown in Figure 5.
- Fig. 4. Pygidium, CPC 14254, in limestone, locality M214; x15.
- Fig. 5. Pygidium, latex cast of CPC 14255, in limestone, locality M214; x11.
This is a latex cast of the larger pygidium shown in Figure 3.
- Fig. 6. Two cephalae, CPC 14256, in limestone, locality M214; x10.
The cephalon on the left is upside down; associated with these cephalae is the pygidium of *Goniagnostus nathorsti* shown in Plate 61, fig. 4.



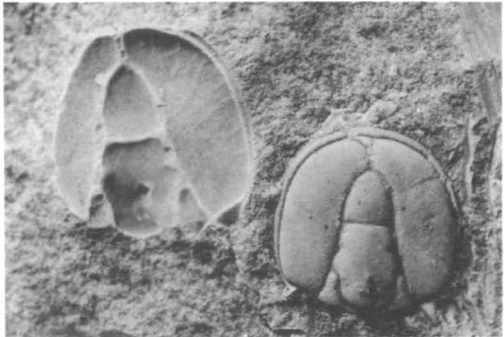
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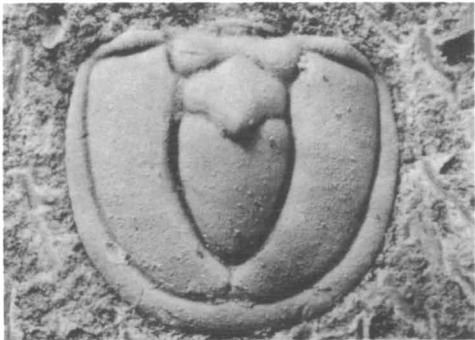
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PLATE 48

Ptychagnostus (Acidusus) occultatus sp. nov.
(p. 103)

Fig. 1. **Holotype** exoskeleton, CPC 14257, locality M60; x12.

Fig. 2. Two exoskeletons, CPC 14258, locality M60; x9.

Ptychagnostus (Acidusus) sp. aff. **occultatus**
(p. 104)

Fig. 3. Exoskeleton with its worn thorax, CPC 14259, in limestone, locality M60; x13.

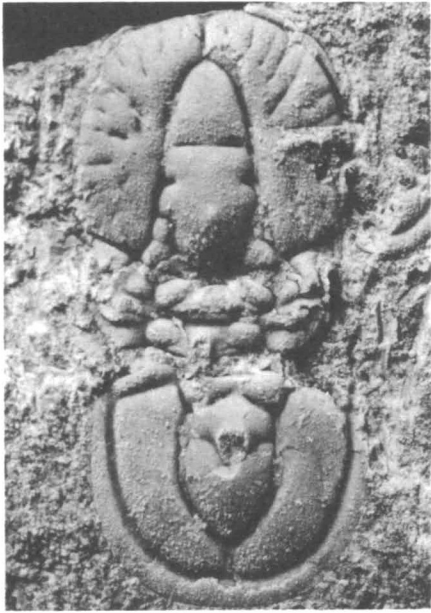
Ptychagnostus (Acidusus) sp. indet. aff. **germanus**
(p. 105)

Fig. 4. Exoskeleton, CPC 14260, in limestone, locality M411 (top of section); x12.

Ptychagnostus (Acidusus) sp. nov.
(p. 105)

Fig. 5. Cephalon, CPC 14261, in limestone, locality D55; x10.

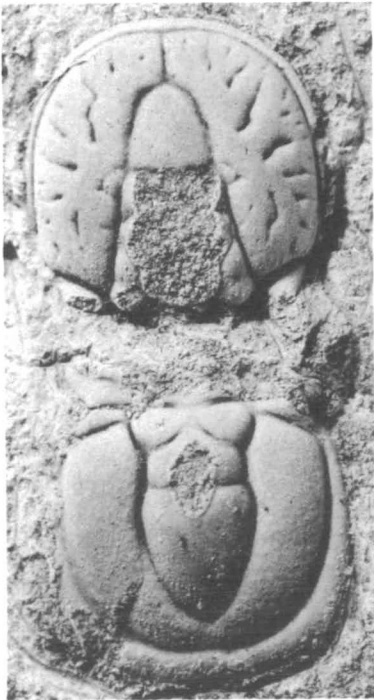
Fig. 6. Pygidium, CPC 14262, in limestone, locality D155; x14.



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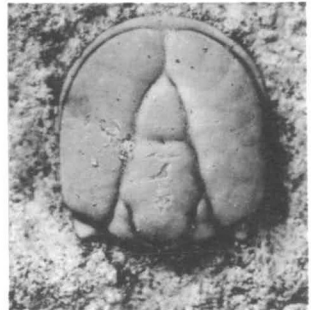
2



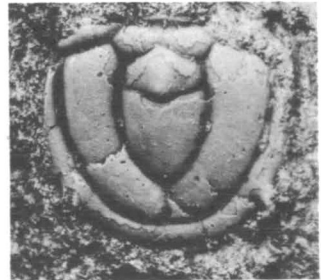
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PLATE 49

Ptychagnostus sp. indet. B (aff. **atavus**)
(p. 98)

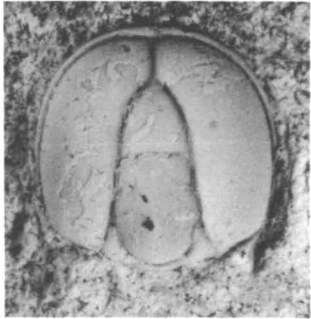
- Fig. 1. Pygidium, CPC 14263, in limestone, locality D150; x9.
Associated are a flattened cephalon and a fractured small pygidium.
- Fig. 2. Cephalon, CPC 14264, in limestone, locality D150; x12.
- Fig. 3. Pygidium, CPC 14265, in limestone, locality D150; x10.
- Fig. 4. Cephalon, CPC 14266, in limestone, locality D150; x9.

PTYCHAGNOSTINAE, gen. indet., sp. nov.
(p. 99)

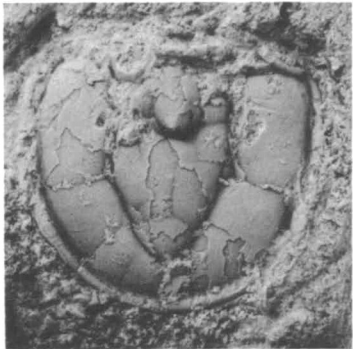
- Fig. 5. Pygidium, CPC 14267, in limestone, locality D154; x12.



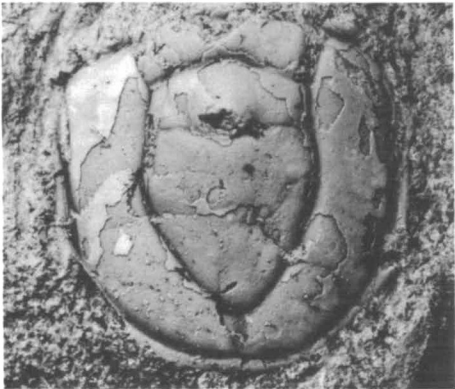
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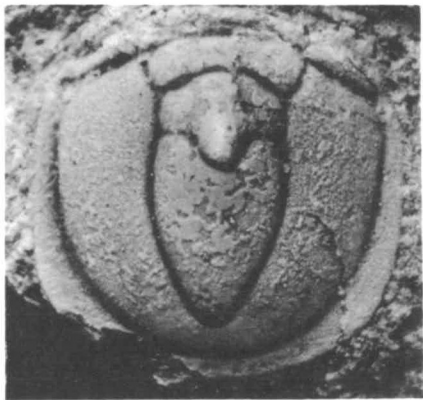


4

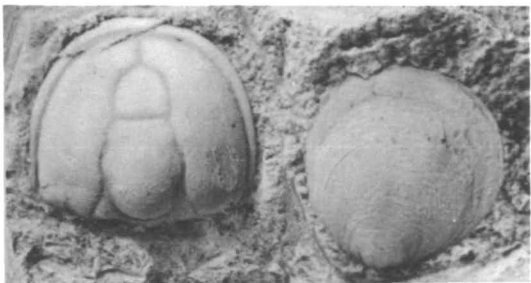
PLATE 50

***Onymagnostus angulatus* sp. nov.**
(p. 108)

- Fig. 1. Pygidium, CPC 14268, in limestone, locality M123; x12.
- Fig. 2. **Holotype** cephalon, CPC 14269, in limestone, locality M123; x7.5.
Associated is a pygidium of the same species.
- Fig. 3. Exoskeleton, CPC 14270, in chert, locality M160; x7.5.
- Fig. 4. Cephalon, CPC 14271, in limestone, locality M64; x10.
Lingulella is associated.
- Fig. 5. Pygidium, CPC 14272, in limestone, locality M64; x7.
- Fig. 6. Pygidium, CPC 14273, in limestone, locality M64; x7.
- Fig. 7. Pygidium, CPC 14274, in limestone, locality M64; x10.
- Fig. 8. Exoskeleton, CPC 14275, in shale, locality M412; x5.5.



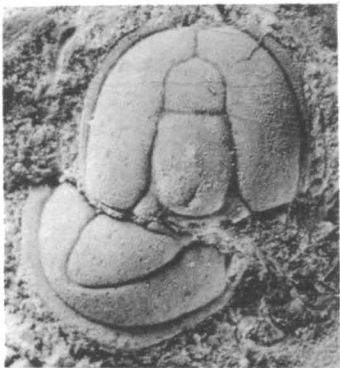
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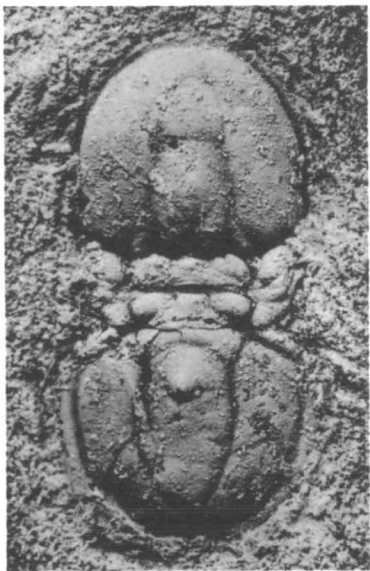
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PLATE 51

Onymagnostus angulatus sp. nov.
(p. 108)

- Fig. 1. Cephalon, CPC 14276, in limestone, locality M409; x13.
Fig. 2. Pygidium, CPC 14277, in limestone, locality M409; x10.
Fig. 3. Cephalon, CPC 14278, in limestone, locality M416; x10.

Onymagnostus sp. nov. aff. **angulatus**
(p. 110)

- Fig. 4. Pygidium, CPC 14279, in limestone, locality M180; x7.
Fig. 5. Exoskeleton, CPC 14280, in limestone, locality M180; x10.
The pygidium is larger than the cephalon.

Onymagnostus mundus sp. nov.
(p. 111)

- Fig. 6. **Holotype** exoskeleton, CPC 14281, in limestone, locality M212; x13.



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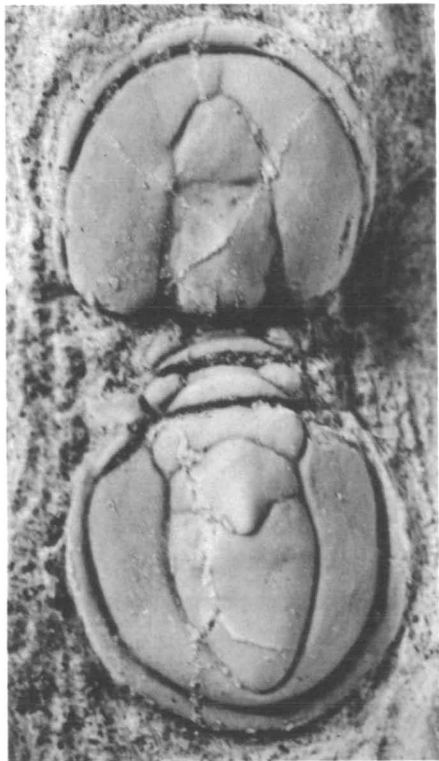
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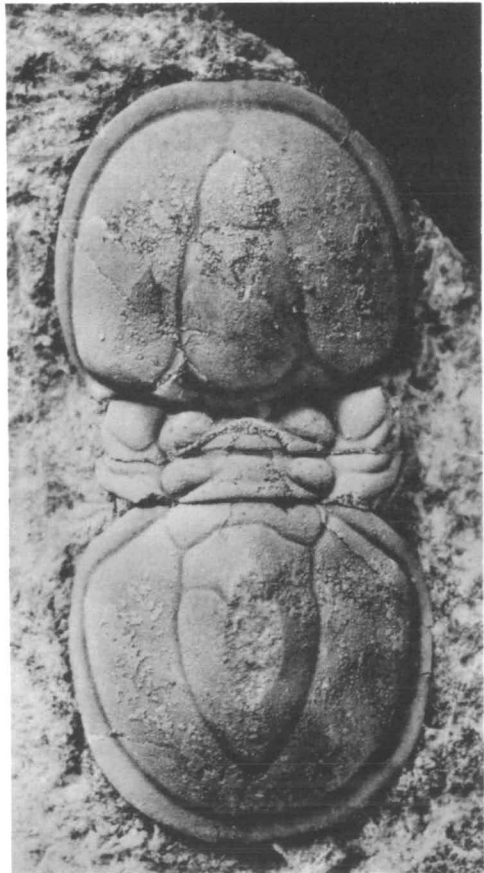
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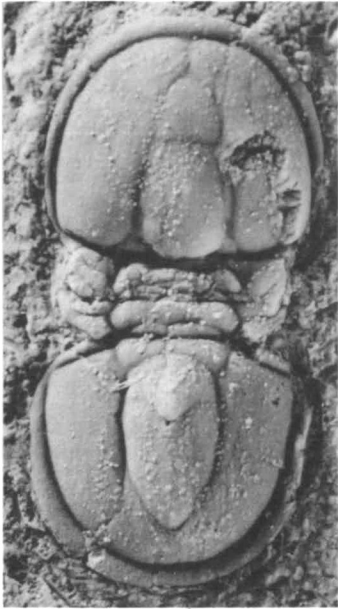
PLATE 52

***Onymagnostus mundus* sp. nov.**
(p. 111)

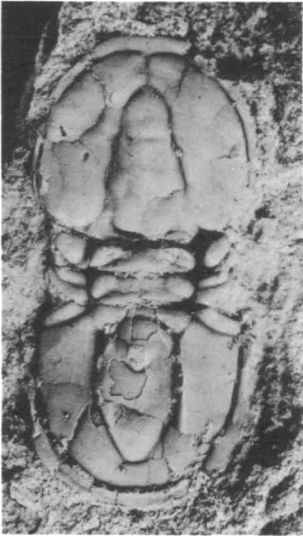
Figs. 1, 2. Exoskeleton, CPC 14282, in limestone, locality M247; x7.
Figure 2 is a latex cast.

***Onymagnostus seminula* (Whitehouse)**
(p. 112)

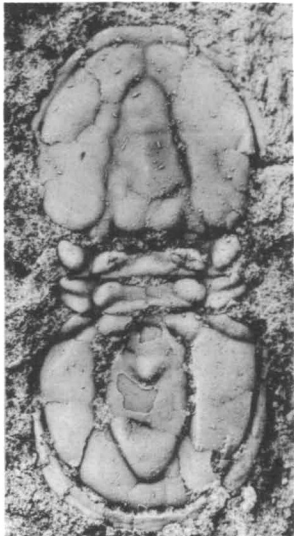
- Fig. 3. Exoskeleton, CPC 14283, in limestone, locality M462; x14.
Fig. 4. Exoskeleton, CPC 14284, in limestone, locality M212; x13.
Fig. 5. Pygidium, CPC 14285, in limestone, locality M41; x10.



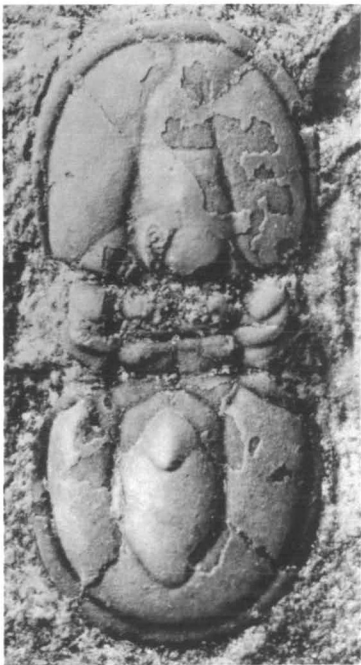
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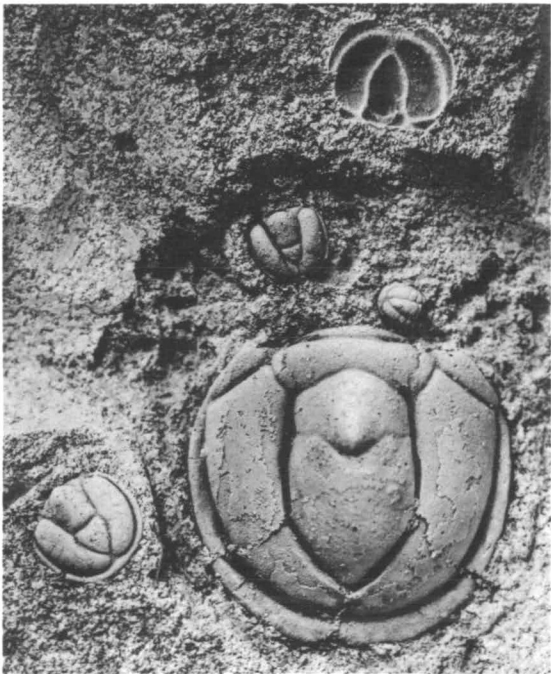
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PLATE 53

Onymagnostus seminula (Whitehouse)
(p. 112)

Fig. 1. Exoskeleton, CPC 14286, in limestone, locality M462; x13.

Onymagnostus durusacnitens sp. nov.
(p. 110)

Fig. 2. **Holotype** pygidium, CPC 14287, in limestone, locality M41; x12.

Fig. 3. Cephalon with anterior segment of thorax, CPC 14288, in limestone, locality M41; x12.

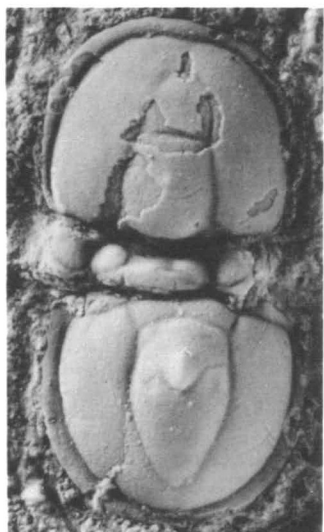
Fig. 4. Exoskeleton, CPC 14289, in limestone, locality M41; x13.
The pygidial axis is lost.

Onymagnostus* cf. *stenorrhachis (Grönwall)
(p. 113)

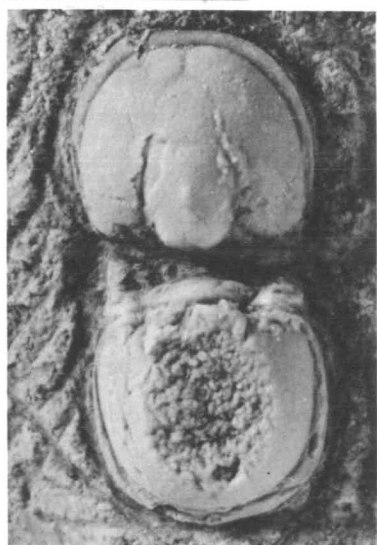
Fig. 5. Pygidium, CPC 14290, in limestone, locality M41; x10.

Onymagnostus* cf. *grandis (Hutchinson)
(p. 113)

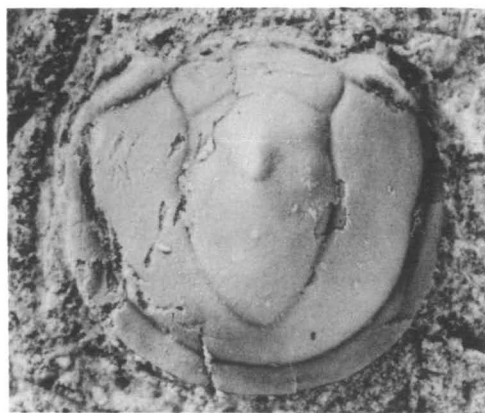
Fig. 6. Cephalon, CPC 14291, in limestone, locality M30; x12.



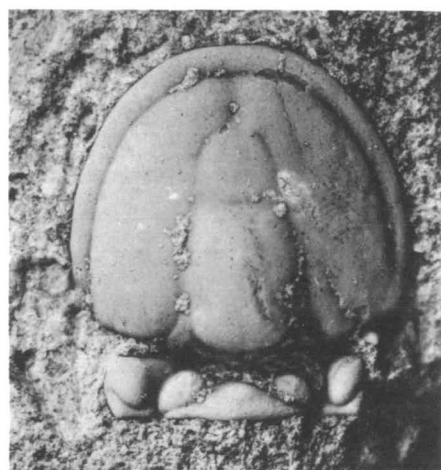
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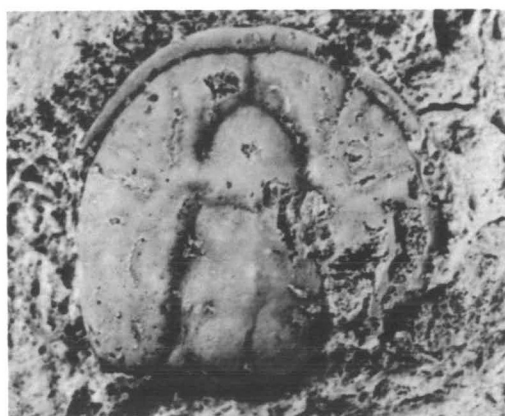
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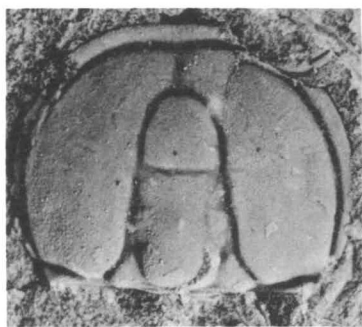
PLATE 54

Onymagnostus (Agnostonymus) semiermis sp. nov.
(p. 114)

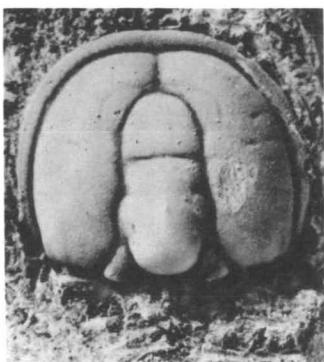
- Fig. 1. Cephalon, CC 14292, in limestone, locality M150; x9.
Fig. 2. **Holotype** cephalon, CPC 14293, in limestone, locality M150; x10.
Fig. 3. Cephalon, CPC 14294, in limestone, locality M150; x9.
Fig. 4. Pygidium, CPC 14295, in limestone, locality M150; x8.
Figs. 5, 6. Pygidium, CPC 14296, in limestone, locality M150; x8.
Figure 5 is a latex cast.
Fig. 7. Exoskeleton, CPC 14297, in shale, locality M176; x8.
Fig. 8. Exoskeleton, CPC 14298, in shale, locality M176; x7.

Pentagnostus anabarensis Lermontova
(p. 140)

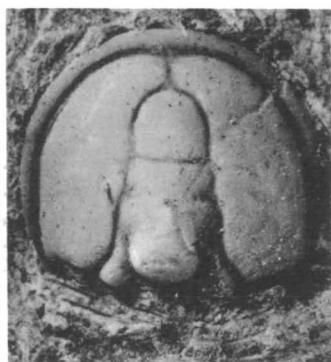
- Fig. 9. Exoskeleton, CPC 14299, in shale, west of Mount Wright, New South Wales; x10.



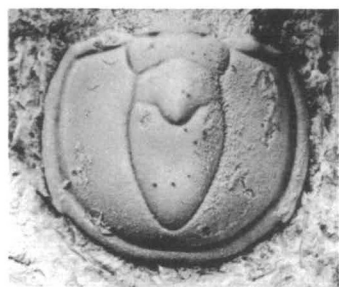
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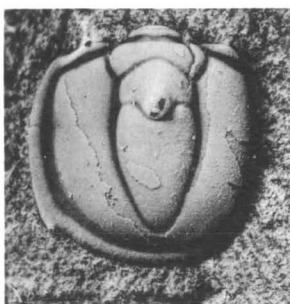
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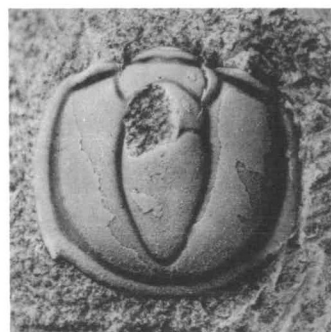
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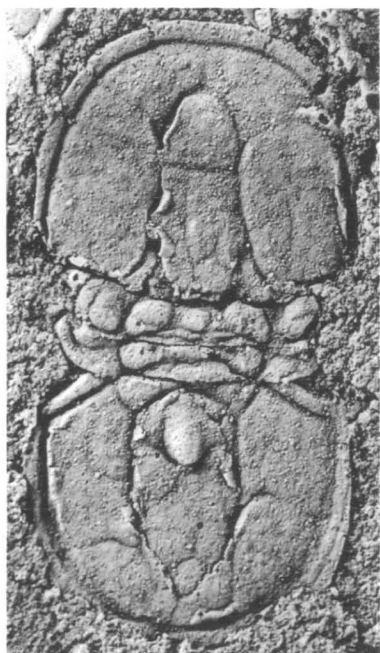
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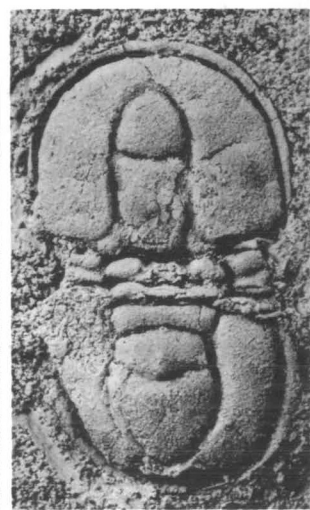
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PLATE 55

Pentagnostus veles sp. nov.
(p. 140)

- Figs. 1-3. **Holotype** exoskeleton, CPC 14300, in shale, west of Mount Wright, New South Wales; x10.
Fig. 3 is a latex cast.
- Fig. 4. Coiled exoskeleton, CPC 14301, in shale, west of Mount Wright, New South Wales; x10.
- Fig. 5. Pygidium, CPC 14302, in shale, west of Mount Wright, New South Wales; x11.



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PLATE 56

Pentagnostus rallus sp. nov.

(p. 141)

- Figs. 1, 2. Holotype exoskeleton, CPC 14303, locality N32. 1—latex cast, x16; 2—x6.
- Fig. 3. Two cephalae, CPC 14304, locality N32; x10.
- Fig. 4. Pygidium, CPC 14305, locality N32; x10.
Notulae on the axis. A cephalon of *Peronopsis* (*Itagnostus*) *elkedraensis* is associated.
- Fig. 5. Pygidium, CPC 14306, locality N32; x12.
- Fig. 6. Pygidium, CPC 14307, locality N32; x14.
- Fig. 7. Cephalon, CPC 14308, in siltstone, locality N31, Northern Territory; x10.



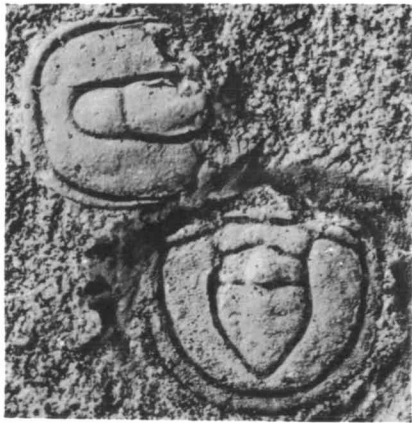
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PLATE 57

Goniagnostus (Criotypus) oxytorus sp. nov.
(p. 145)

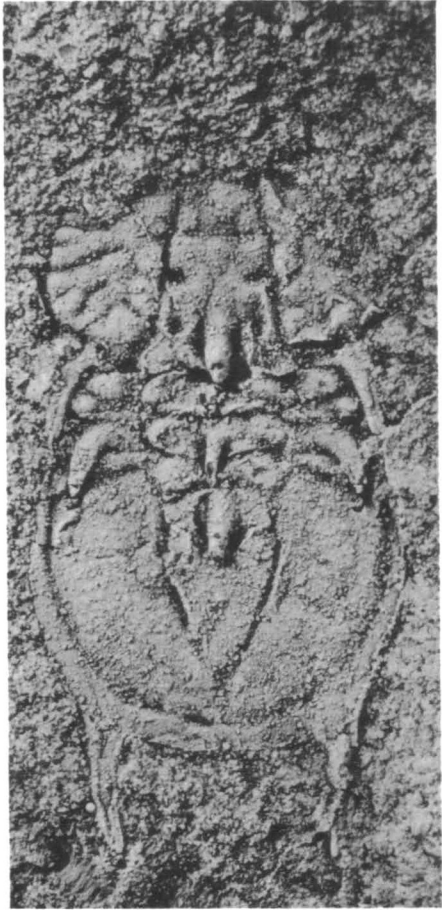
Figs. 1, 2. **Holotype** exoskeleton, CPC 14309, in siltstone (silty shale), locality M425;
x15.

Goniagnostus (Criotypus) mitigatus sp. nov.
(p. 147)

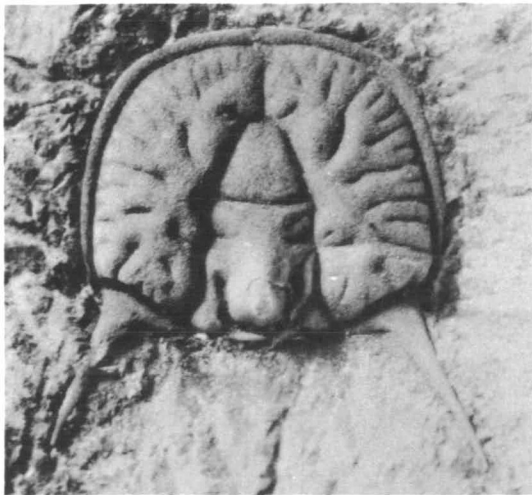
Fig. 3. **Holotype** cephalon, CPC 14310, in limestone, locality M191a; x10.



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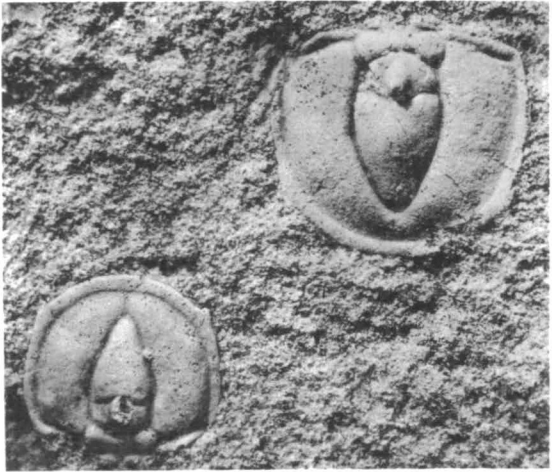
PLATE 58

Goniagnostus (Criotypus) lemniscatus sp. nov.
(p. 147)

- Fig. 1. **Holotype** cephalon with segment of the thorax, CPC 14311, in shale, locality M176; x10.
- Figs. 2, 3. Cephalon, CPC 14312, in shale, locality M176; 2—x7; 3—x9.
- Fig. 4. Cephalon, CPC 14313, in shale, locality M176; x8.
- Fig. 5. Two pygidia, CPC 14314, in shale, locality M176; x8.
- Figs. 6, 7. Pygidium, CPC 14315, in shale, locality M176; x8.
Figure 7 is a latex cast.
- Fig. 8. Cephalon, CPC 14316, in limestone, locality M150; x9.



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PLATE 59

Goniagnostus (Criotypus) lemniscatus sp. nov.
(p. 147)

- Fig. 1. Two pygidia, CPC 14317, in shale, locality M176; x8.
A cephalon of *Rhodotypiscus nasonis* sp. nov. is associated.

Goniagnostus (Criotypus) sp. nov. aff. lemniscatus
(p. 149)

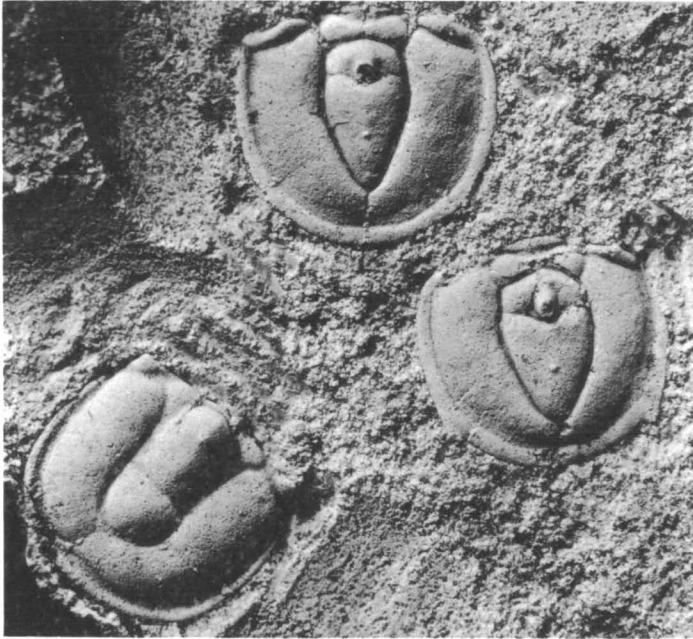
- Fig. 2. Cephalon, CPC 14318, in limestone, locality M123; x17.
Fig. 3. Cephalon, CPC 14319, in indurated siltstone, locality M412; x10.

Goniagnostus (Criotypus) paenerugatus sp. nov.
(p. 149)

- Figs. 4, 5. **Holotype** cephalon, CPC 14320, in silty shale, locality M425; x8.
Fig. 6. Cephalon, CPC 14321, in siltstone, locality M281; x13.
See also Plate 45, fig. 5.

Goniagnostus (Criotypus) sp. indet.
(p. 150)

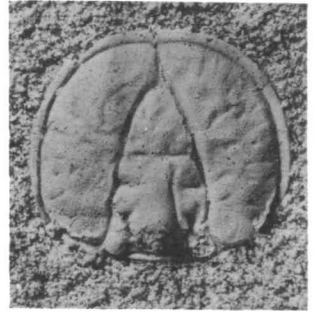
- Fig. 7. Defective cephalon, latex cast of CPC 14322, in limestone, locality D150;
x17.



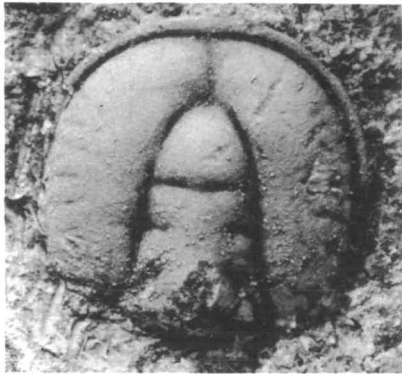
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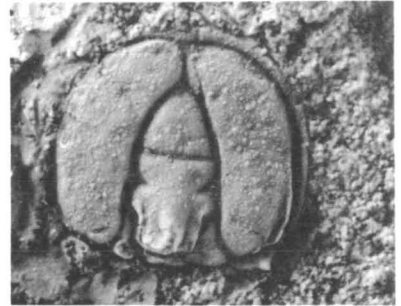
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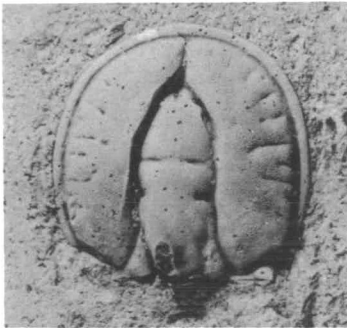
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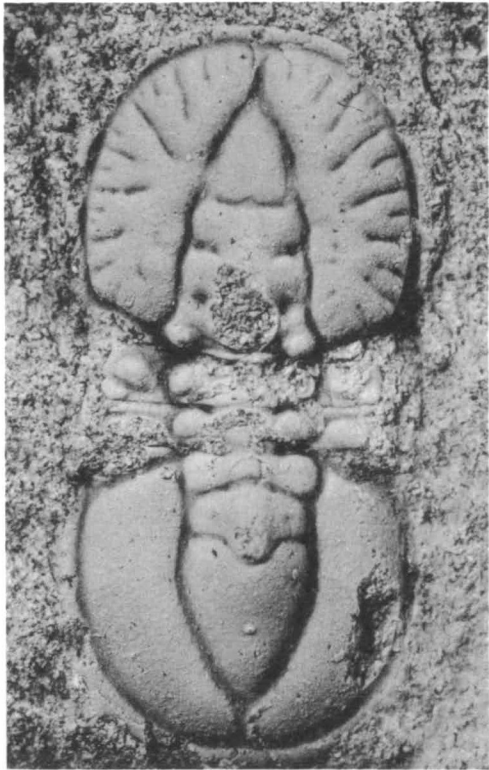
PLATE 60

Goniagnostus (Goniagnostus) nathorsti (Brögger)
(p. 150)

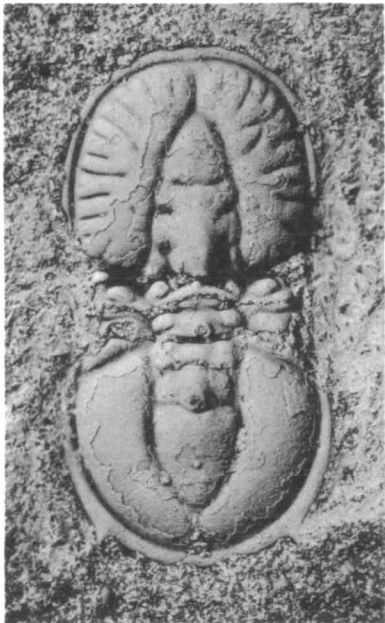
- Fig. 1. Exoskeleton, CPC 14323, in limestone, locality M57; x15.
- Fig. 2. Exoskeleton, CPC 14324, in limestone, locality M57; x15.
Note spine on second thoracic segment; middle glabellar furrows consist of two pits each; notulae in the pygidial axis.
- Fig. 3. Exoskeleton, CPC 14325, in limestone, locality M57; x9.
- Fig. 4. Cephalon, CPC 14326, in limestone, locality M416; x9.
- Fig. 5. Cephalon (preparation), CPC 14327, in limestone, locality M57; x15.
Glabellar profile and terminal spine are clear.



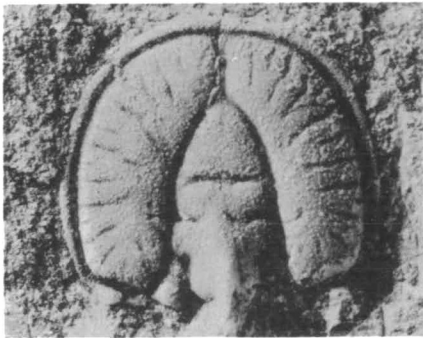
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PLATE 61

Goniagnostus (Goniagnostus) nathorsti (Brögger)
(p. 150)

- Fig. 1. Exoskeleton, CPC 14328, in limestone, locality M57; x6.
Specimen is singed by fire.

Goniagnostus (Goniagnostus) scarabaeus Whitehouse
(p. 153)

- Fig. 2. Cephalon, CPC 14329, in limestone, locality M462; x10.

Goniagnostus (Goniagnostus) nathorsti (Brögger)
(p. 150)

- Fig. 3. Cephalon, CPC 14330, in sandstone (Split Rock), locality M276; x8.
Fig. 4. Pygidium, CPC 14331, in limestone, locality M214; x10.
Associated are two cephalae of *Ptychagnostus (Acidusus) germanus* sp. nov.
shown in Plate 47, fig. 6.
Fig. 5. Pygidium, CPC 14332, in limestone, locality M57; x10.
Fig. 6. Pygidium, CPC 14333, in limestone, locality M57; x10.

Goniagnostus (Goniagnostus) nathorsti intersertus subsp. nov.
(p. 153)

- Fig. 7. **Holotype** exoskeleton, latex cast of CPC 14334, in limestone, about 1.5 km west
of locality M64; x10.

Goniagnostus (Goniagnostus) scarabaeus Whitehouse
(p. 153)

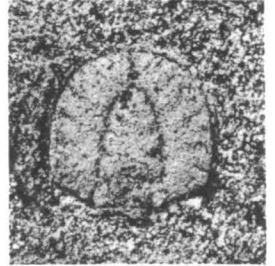
- Fig. 8. Exoskeleton, CPC 14335, in limestone, locality M462; x12.
Same specimen as Plate 62, fig. 1.



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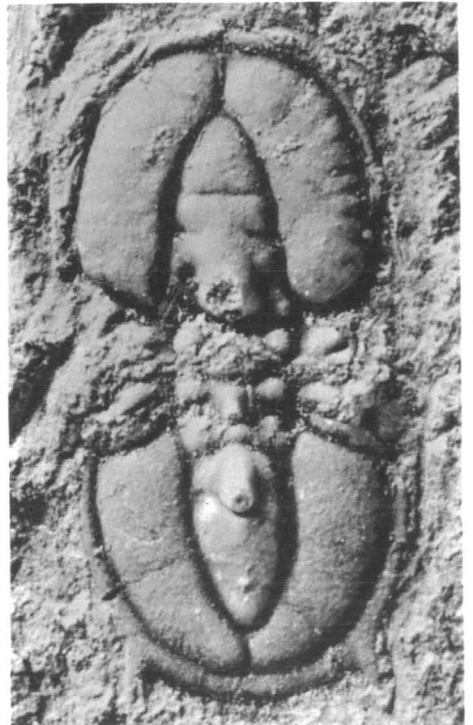
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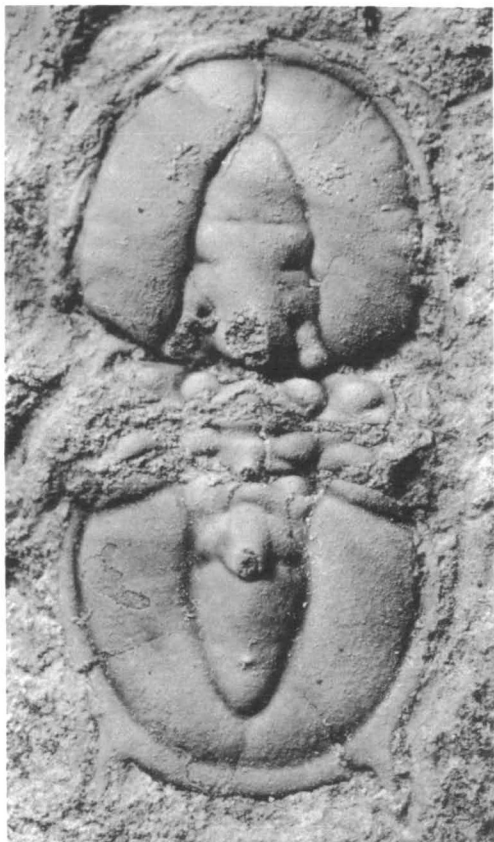
PLATE 62

Goniagnostus (Goniagnostus) scarabaeus Whitehouse
(p. 153)

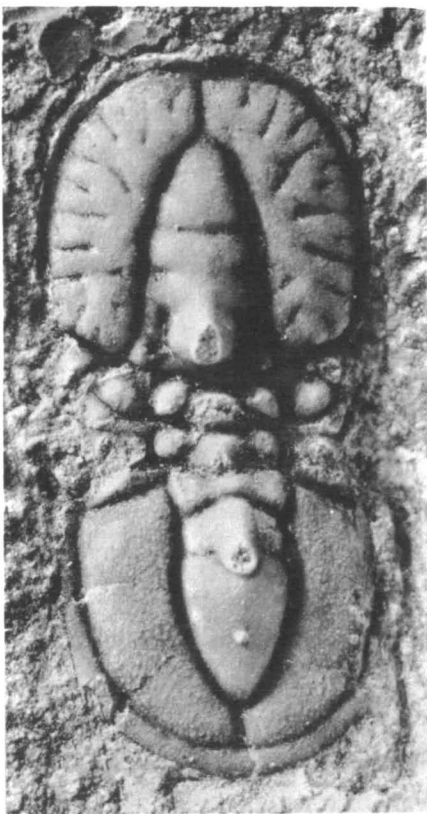
- Fig. 1. Exoskeleton, CPC 14335, in limestone, locality M462; x14.
Same specimen as Plate 61, fig. 8.
- Fig. 2. Exoskeleton, CPC 14336, in limestone, locality M247; x13.

Goniagnostus (Goniagnostus) verus sp. nov.
(p. 155)

- Fig. 3. **Holotype** exoskeleton, CPC 14337, in limestone, locality M195; x10.
- Fig. 4. Pygidium, CPC 14338, in limestone, locality M195; x15.
- Fig. 5. Exoskeleton, CPC 14339, in limestone, locality M195; x10.



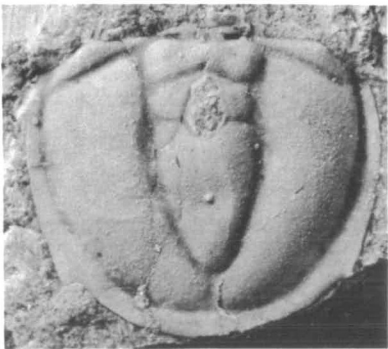
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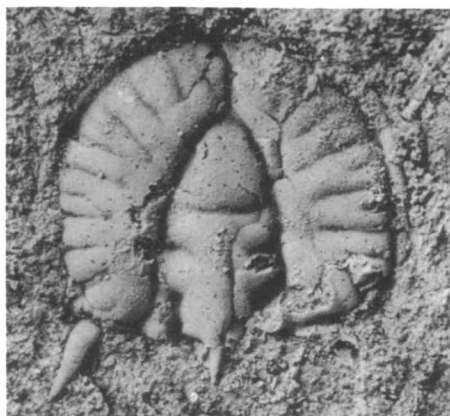
PLATE 63

Goniagnostus (Goniagnostus) verus sp. nov.
(p. 155)

- Fig. 1. Cephalon, CPC 14340, in limestone, locality M195; x12.5.
Fig. 2. Cephalon, CPC 14341, in limestone, locality M195; x13.

Goniagnostus (Allobodochus) spiniger (Westergaard)
(p. 156)

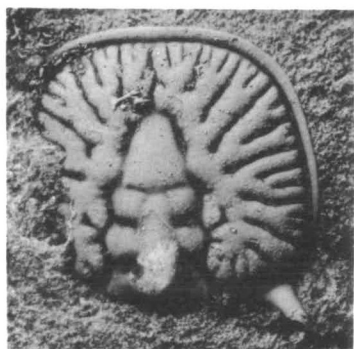
- Figs. 3, 4. Cephalon, CPC 14342, in limestone, locality T87 (collection 41618); x10.
Figure 4 is a latex cast.
Fig. 5. Cephalon, CPC 14343, in limestone, locality T87 (collection 41618); x8.
Fig. 6. Pygidium, CPC 14344, in limestone, locality T87 (collection 41618); x10.
Fig. 7. Cephalon, CPC 14345, in sandstone, locality D54; x7.
Fig. 8. Pygidium, CPC 14346, in sandstone, locality D54; x7.



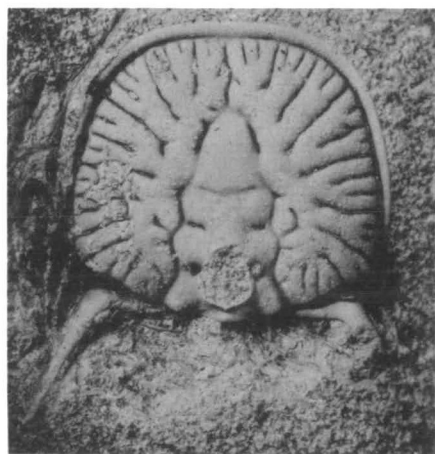
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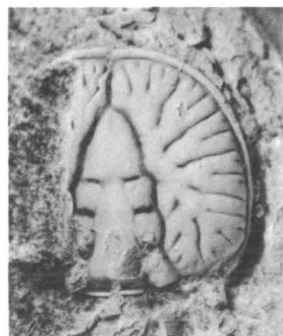
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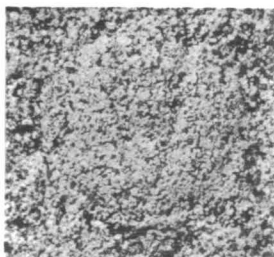
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PLATE 64

Leiopyge laevigata (Dalman)
(p. 161)

Figs. 1–3. Cephalon, CPC 14347, in limestone, locality T87 (collection 41618). 1—
latex cast from external mould; x10. 2—external mould without whitening;
x10. 3—internal mould; x7.5.

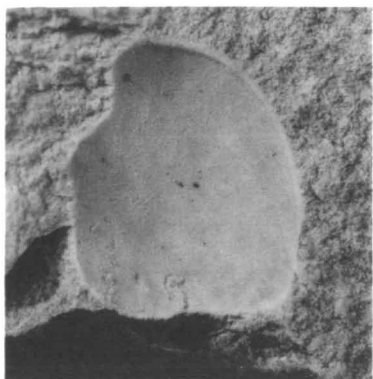
Leiopyge sp. nov. aff. **armata**
(p. 162)

Fig. 4. Pygidium with thorax, CPC 14348, in limestone, locality W36; x10.

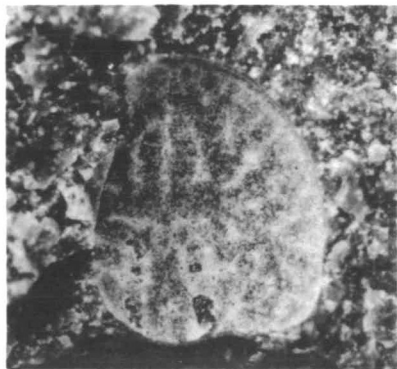
Leiopyge armata (Linnarsson)
(p. 161)

Figs. 5, 6. Cephalon with pygidium and thorax, CPC 14349, in limestone, locality W36;
x10.

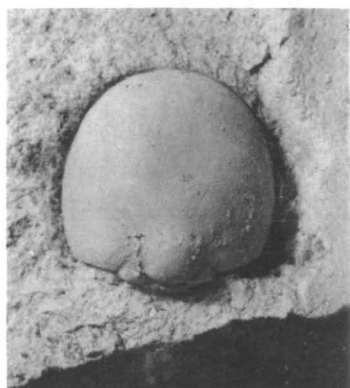
Figures 5 and 6 are part and counterpart.



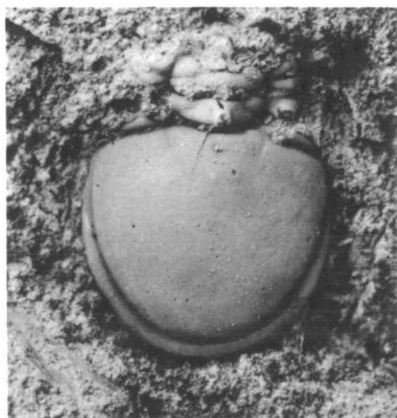
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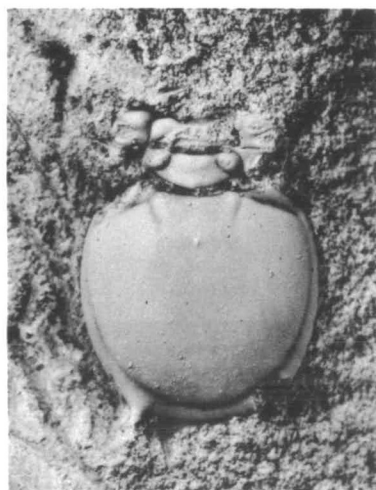
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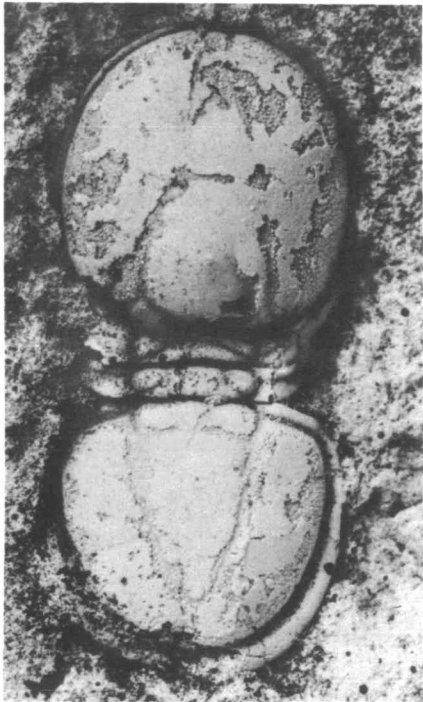
PLATE 65

Leiopyge cosfordae sp. nov.
(p. 160)

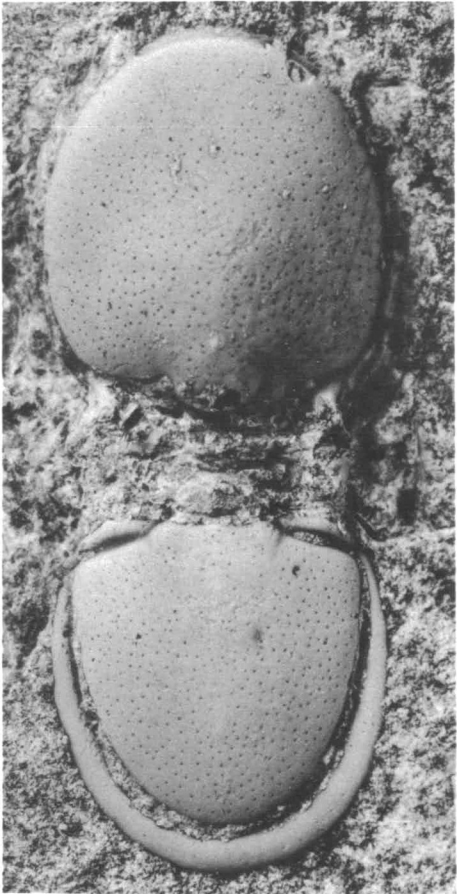
- Figs. 1, 2. **Holotype** exoskeleton, CPC 14350, in limestone, locality M195; x17.
Figure 1 is a latex cast.

Leiopyge multifora sp. nov.
(p. 162)

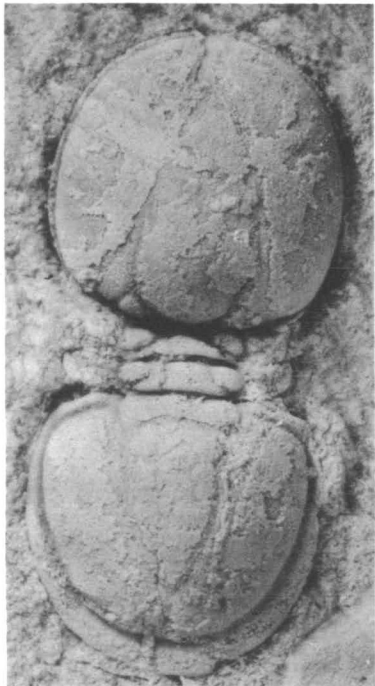
- Fig. 3. **Holotype** exoskeleton, CPC 14351, in limestone, locality W36; x7.
Fig. 4. Pygidium and posterior segment of thorax, CPC 14352, in limestone, locality W36; x11.



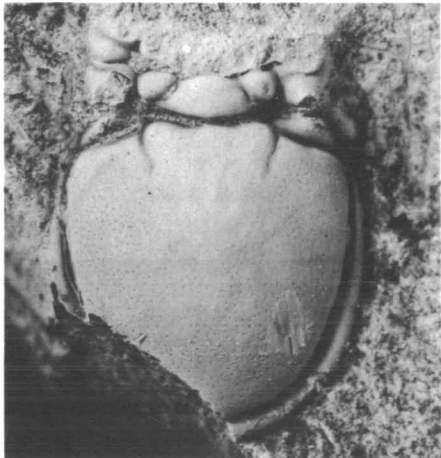
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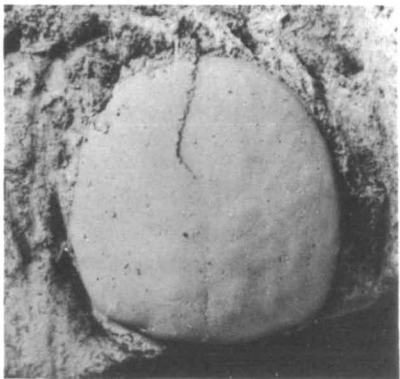
PLATE 66

Leiopyge praecox sp. nov.
(p. 159)

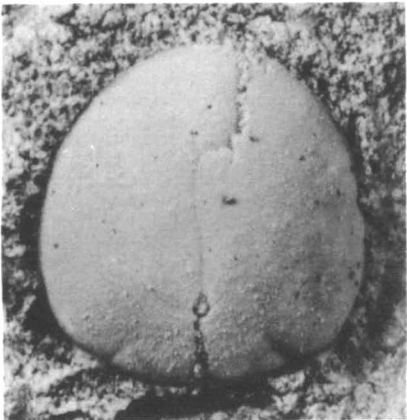
- Fig. 1. **Holotype** cephalon, CPC 14353, in limestone, locality D155; x12.
Fig. 2. Cephalon, CPC 14354, in limestone, locality D155; x24.
Figs. 3, 4. Weakly scrobiculate cephalon, CPC 14355, in limestone, locality D155.
Figure 4 shows glabellar rear, x12.
Fig. 5. Pygidium, CPC 14356, in limestone, locality D155; x18.
Figs. 6, 7. Pygidium, CPC 14357, in limestone, locality D155; x16.



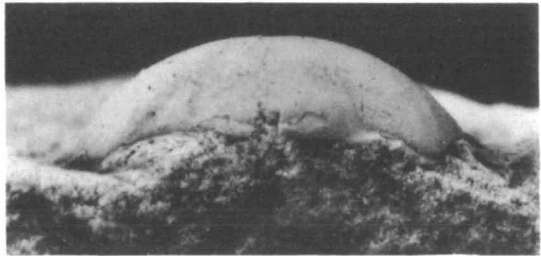
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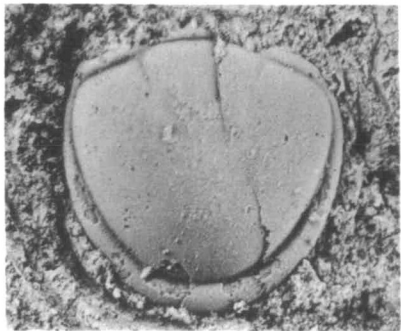
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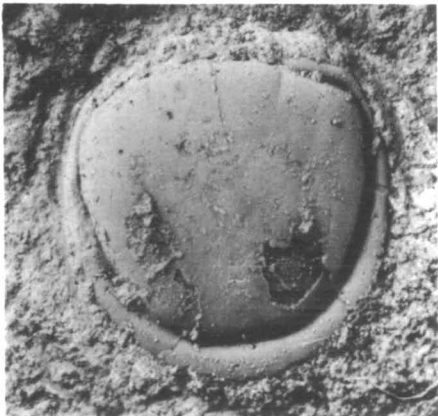
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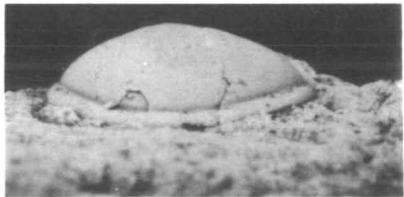
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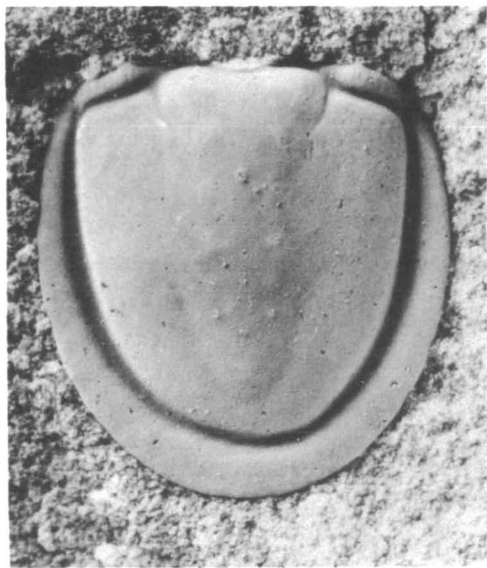
PLATE 67

Pseudophalacroma dubium (Whitehouse)
(p. 163)

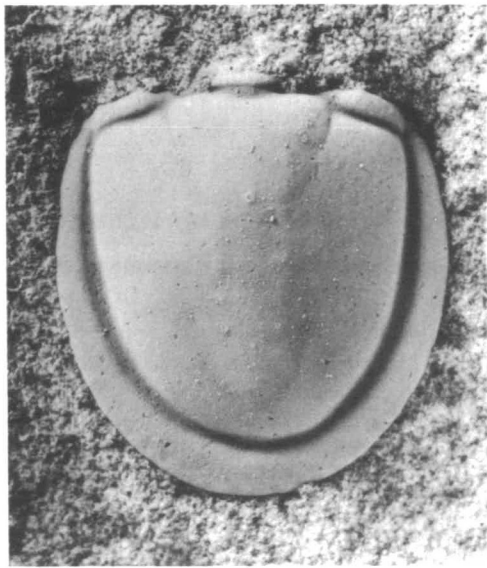
- Figs. 1, 2. Pygidium with notulae in the axis, CPC 14358, in limestone, locality D155; 1—x12.5; 2—latex cast, x12.
- Fig. 3. Pygidium, CPC 14359, in limestone, locality Q6 (about the site of locality D74); x15.
- Fig. 4. Cephalon, CPC 14360, in limestone, locality Q6 (about the site of locality D74); x15.

Tomagnostella nepos (Brögger)
(p. 73)

- Fig. 5. Exoskeleton, CPC 14361, in limestone, locality M195; x6.



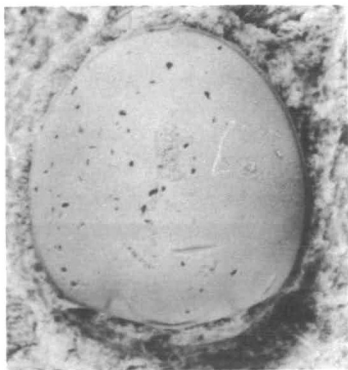
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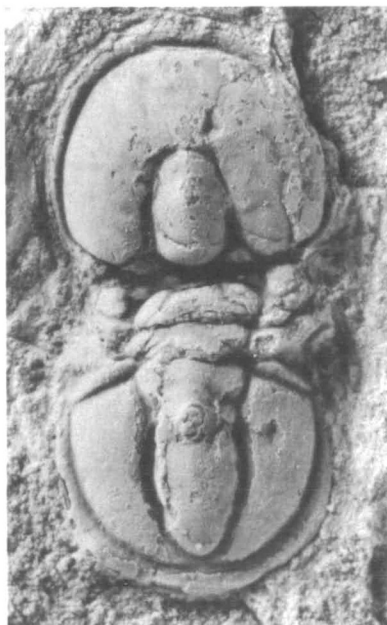
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