

Turritites costatus. LAMARK.

Fig. 2. Apertural view of a specimen.

Pages 22 and 23

- a. Apex.
- a f. Spire.
- b.
- c. { Sutures.
- d. }
- g. Aperture.

Baculites anceps. LAMARK.

Fig. 1. View of the internal shell.

Page 22

- a. Aperture.
- b. Septa.
- c. Sutures.

PLATE I.

GASTEROPODA.

Triton corrugatus. LAMARK.

Fig. 23. Longitudinal section of a specimen. The upper part of the spire has been partitioned off many times successively.

Page 23

Fasciolaria tulipa. LINNE.

Fig. 14. Apertural view of a specimen. Dextral.

Page 23

- a. Posterior canal.
- b. Anterior canal.
- d. Labrum.

Fusus antiquus. MUELLER.

Fig. 15. Apertural view of a specimen. Sinistral. Page 23

a. Posterior canal.

b. Anterior canal.

f. Labrum.

Paludina listeri. HANLEY

Fig. 21. Apertural view of a specimen. Dextral. Page 23

a. Aperture, closed by operculum.

b. apex.

Ampullaria bolteniana. CHEMNITZ

Fig. 10. Apertural view of a specimen. Sinistral. Page 23

Chiton squamosus. LINNÈ

Fig. 11. Dorsal view of a specimen. Page 22

Helix desertorum. FOSSKAL.

Fig. 13. View showing animal and manner of bearing shell. Page 22

PLATE I.

PTEROPODA.

Hyalaea tridentata. LAMARK.

Fig. 4. Dorsal view of a specimen. Page 23

Conularia trentonensis. HALL.

Fig. 5. Front view of a specimen. Page 23

PLATE I.

BRACHIOPODA.

Terebratula dorsata. SMELIN.

- Fig. 26. View of a dorsal valve. Page 24
a. Crura of the loop.
b. Loop.
c. Septum.

- Fig. 22. Magnified section of shell of *Terebratula*. Page 24

Waldheimia australis. KING.

- Fig. 6. View of dorsal valve. Page 24
b. Loop.
1. Reflected portion of
loop. m. Abductor.
p. Hinge plate.
s. Septum.

Waldheimia australis. KING.

- Fig. 25. View of ventral valve. Pages 23 and
24
a. Single abductor impression.
b. Foramen.
c. Deltidium.
d. Teeth.
r. Cardinal muscles.
v. Portion of the vent.
z. Attachment of pedicle sheath.

Spirifera striata. SOWERBY.

- Fig. 7[9]. View of dorsal valve showing spiral cones. Page 24

Athyris concentrica. BUCH.

Fig. 8. View of dorsal valve showing spiral cones.

Page 24

Rhynchonella ptissacea. CHEMNITZ.

Fig.9[7]. View of dorsal valve, showing spiral arm unrolled.

Page 24

PLATE I.

LAMELLIBRANCHIATA.

Modiola lithophaga. LINNÉ.

Fig. 17. View of right and left valve.

Page 25

- a. Dorsal margin.
- b. Anterior margin.
- c. Posterior margin.
- d. Posterior margin.

Cytherea chione. LINNÉ.

Fig. 3. View of left valve.

Page 25

- a Anterior abductor.
- a. Posterior abductor.
- e. Cardinal tooth.
- d. Umbo.
- h. Hinge linament.
- f. Lunule.
- p. Pallial impression.
- t'. Lateral teeth.
- s. Sinus.

Glycimeris siliqua. CHEMNITZ.

Fig. 20. View of a left valve.

Page 25

- a. Dorsal margin.
- b. Anterior margin.
- c. Posterior margin.

NOTE.—All figures on Plate I. are copied from "A Manual of the Mollusca.

A Treatise on Recent and Fossil Shells. By Dr. S. P. Woodward, A. L. S., F. G. S., Second Edition. Lockwood and Co., London, England, 1871."

PLATE I.

CEPHALOPODA.

Belemnitella mucronata. SOWERBY.

Fig. 16. View of the internal shell.

Page 22

Sepia officinalis. LINNÈ.

Fig. 12. View of a specimen.

Page 22

- a. Arms.
- b. Tentacles.
- c. Eyes.

Nautilus pompilius.

Fig. 24. View of the animal and shell, the latter sawed through
the middle.

Page 22

- a a. Air chambers.
- b b. Septa.
- c c. Siphuncle.

Goniatites henslowi. SOWERBY.

Fig. 18. View of a specimen, the outer shell entirely removed.

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22

Ceratites nodosus. BRUGUIERE.

Fig. 19. View of a specimen, outer shell entirely removed.

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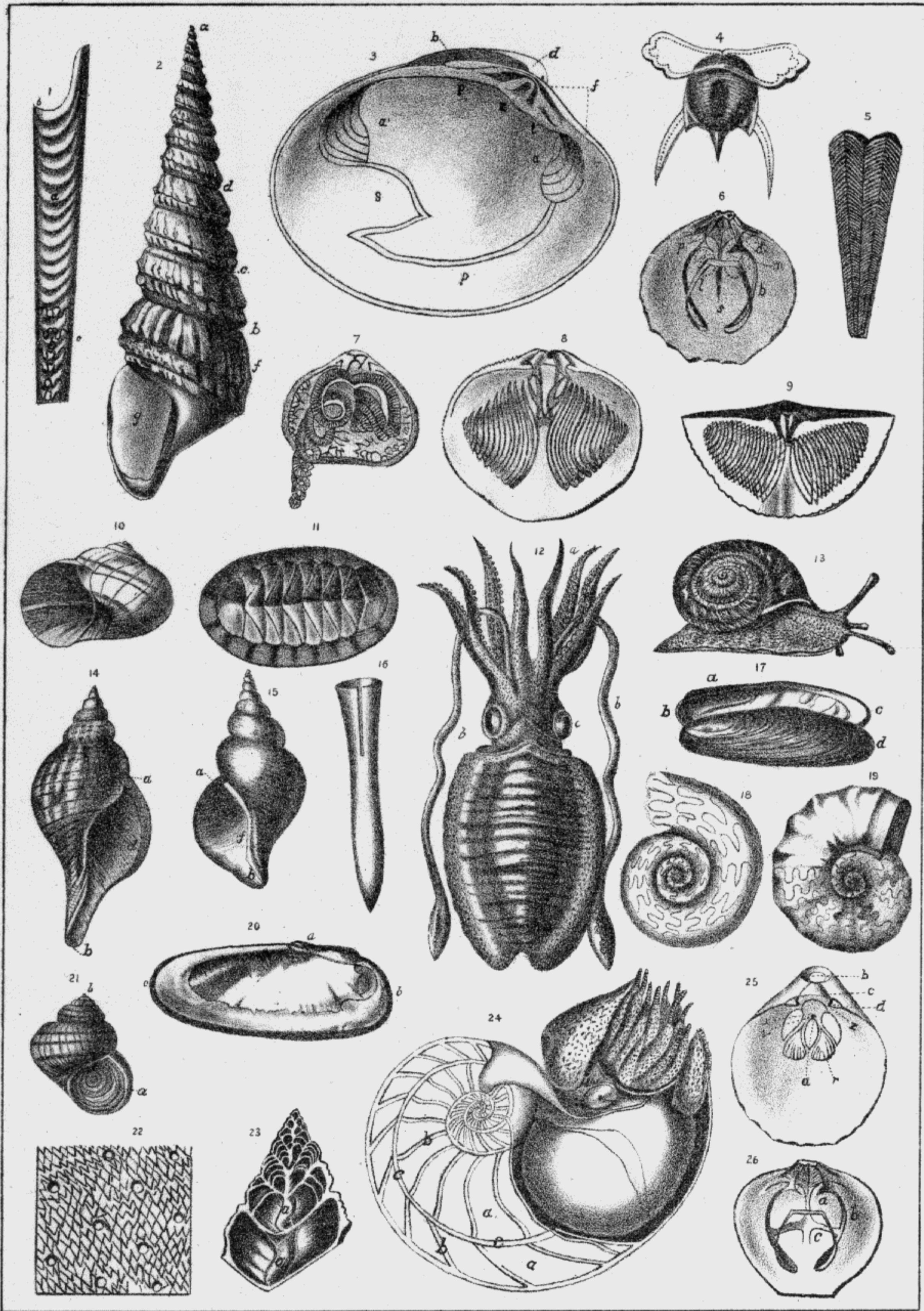


PLATE II.

Paracyclas elliptica.

Fig. 1-3. Right, left and cardinal view of specimen.

Page
209

Paracyclas lirata.

Fig. 4. Left view of a specimen.

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211

Fig. 5-7. Left, right and cardinal view of specimen.

Paracyclas elongata.

Fig. 8. Left view of a specimen.

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Modiomorpha concentrica.

Fig. 9, 10, 14. Left view of specimen, showing variations in size and
ornamentation.

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Fig. 11, 12. Right and profile view of specimen.

Crania bordeni.

Fig. 14. View of two specimens adhering to left valve of *Modiomorpha*
concentrica.

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Ptychodesma knappianum.

Fig. 13. Profile view of a specimen.

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Fig. 15. Left view of a specimen.

Fig. 16. Left view of a smaller individual.

Fig. 17. Right view of a specimen, showing striated ligamental area.

Fig. 18. View of left valve enlarged, showing striated ligamental area.

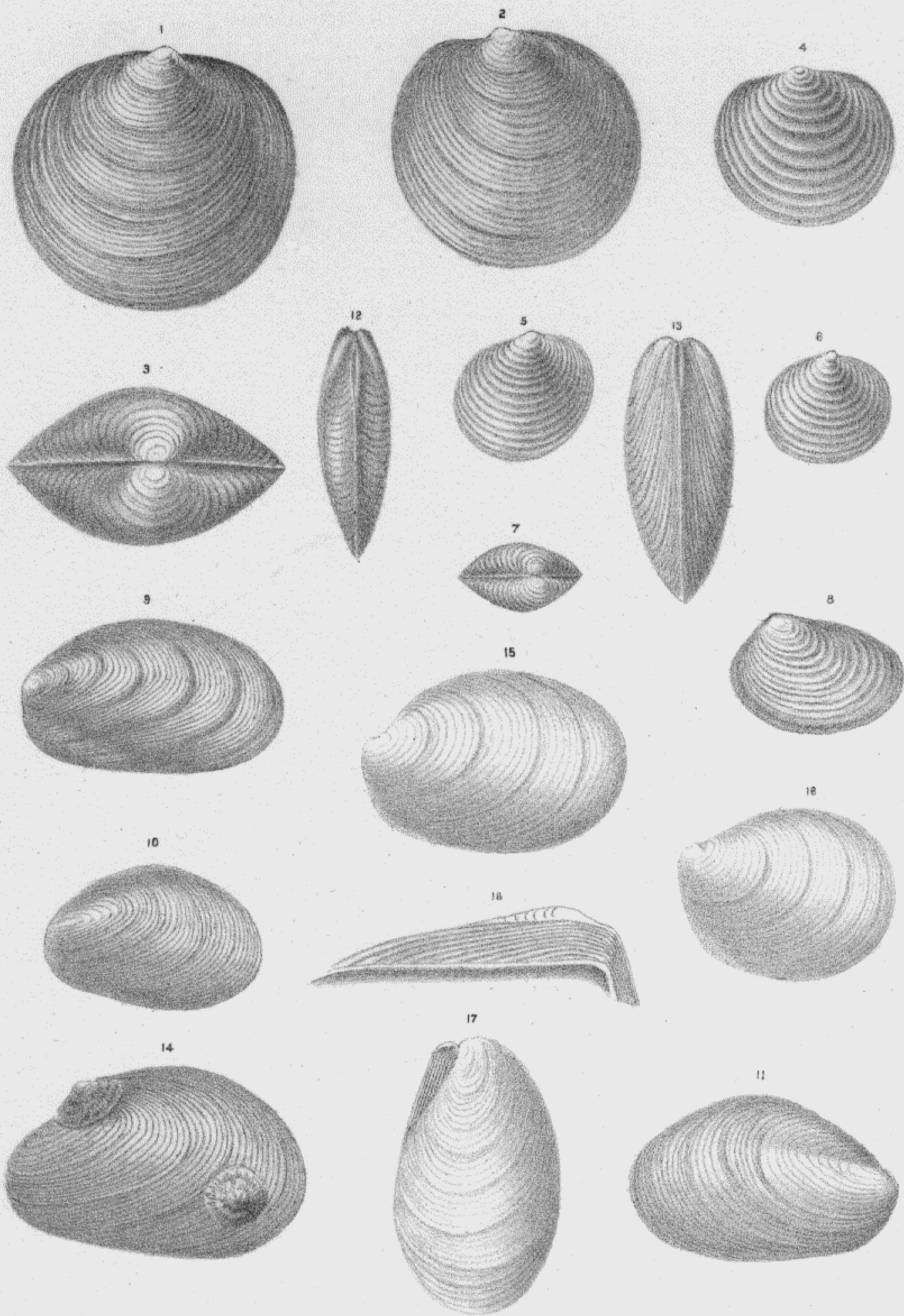


PLATE III.

Aviculopecten pecteniformis.

Fig. 1. View of a left valve.

Page 225

Actinopteria boydi.

Fig. 2. View of a left valve, showing surface ornamentation.

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Discina grandis.

Fig. 3. Dorsal view of a specimen.

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Aviculopecten fasciculatus.

Fig. 4. View of a left valve.

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Glyptodesma occidentale.

Fig. 5. View of a left valve.

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Limoptera cancellata.

Fig. 6-8. Left, right and cardinal view of specimen.

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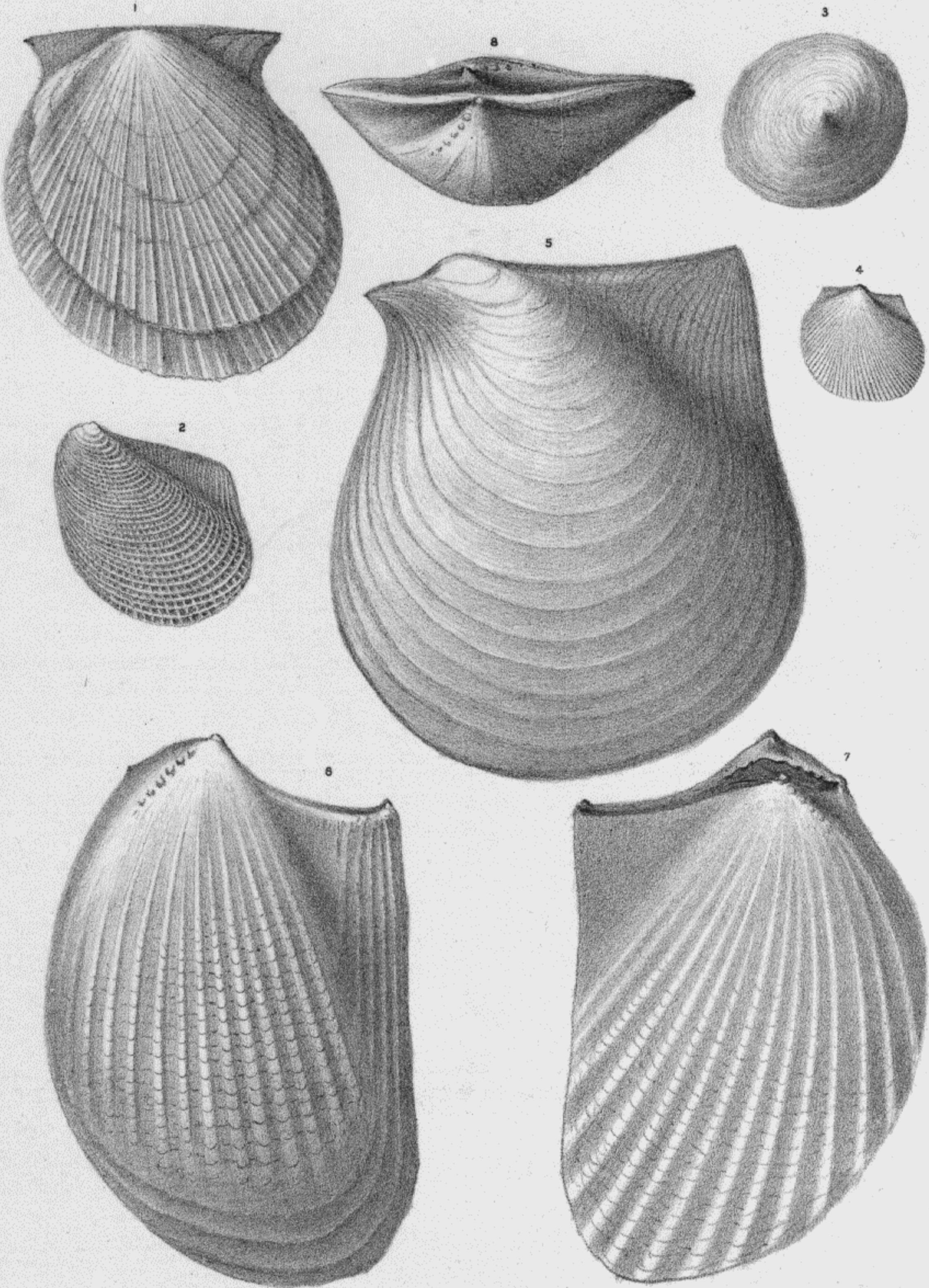


PLATE IV.

Clinopistha striata.

Fig. 1, 2. Right and left view of specimen Page 200

Cypricardinia cataracta.

Fig. 3. Left view of a specimen. Page 204

Yoldia ? valvulus.

Fig. 4, 5. Left view of two specimens. Page 223

Clinopistha subnasuta.

Fig. 6-8, 12. Left, cardinal, right and posterior view of specimen. Page 199

Clinopistha antiqua.

Fig. 9-11. Right, cardinal and left view of specimen. Page 200

Cypricardinia cylindrica.

Fig. 13-15. Left, cardinal and right view of specimen. Page 205

Grammysia gibbosa.

Fig. 16, 19, 20. Cardinal, left and posterior view of specimen. Page 208

Fig. 17. Right view of a specimen.

Fig. 18. Right view of a smaller specimen.

Goniophora truncata.

Fig. 21-23. Posterior, side and cardinal view of a specimen. Page 214

Limoptera cancellata.

Fig. 24. View of a young individual. Page 198

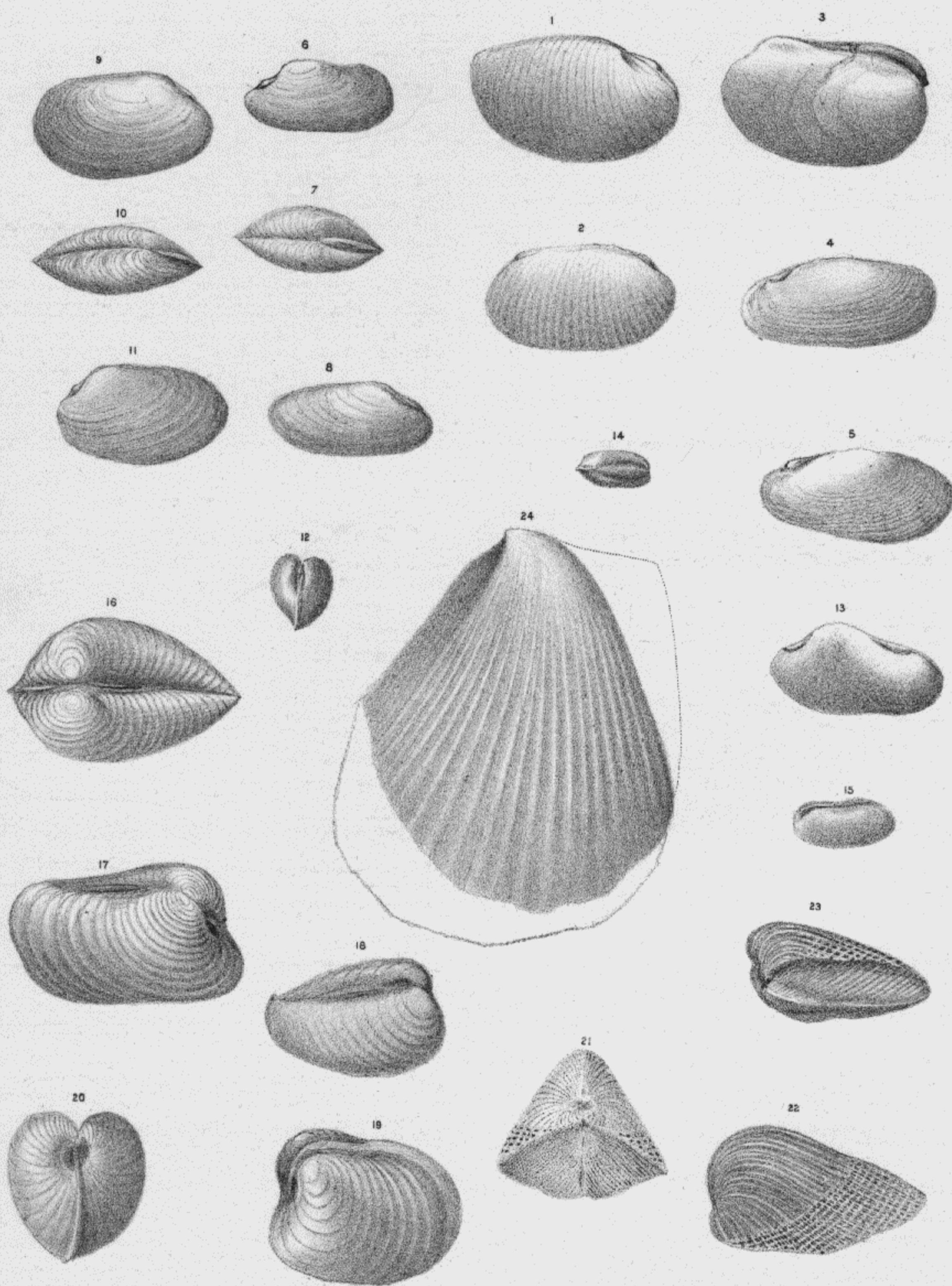


PLATE V.

Glyptodesma cancellata.

Fig. 1. View of a left valve.

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Nucula niotica.

Fig. 2-4. Anterior, left and cardinal view of a specimen.

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Nucula neda.

Fig. 5, 6. Right and anterior view of a specimen.

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Modiomorpha charlestownensis.

Fig. 7. Right view of a specimen.

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Fig. 8, 9. Profile view of two specimens.

Conocardium cuneus.

Fig. 10, 11. Dorsal and ventral view of a specimen.

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Fig. 12, 13, 15. Ventral views of three specimens, showing variations
in size and ornamentation.

Fig. 14. Lateral view, showing shield.

Fig. 16. Ventral view of a young specimen.

Fig. 17. Dorsal view of a young, very perfect specimen.

Fig. 18. Side view of a young specimen.

Fig. 19. Enlargement of a fragment of test, showing ornamentation.

Paracyclas ohioensis.

Fig. 20. Right view of an average size specimen.

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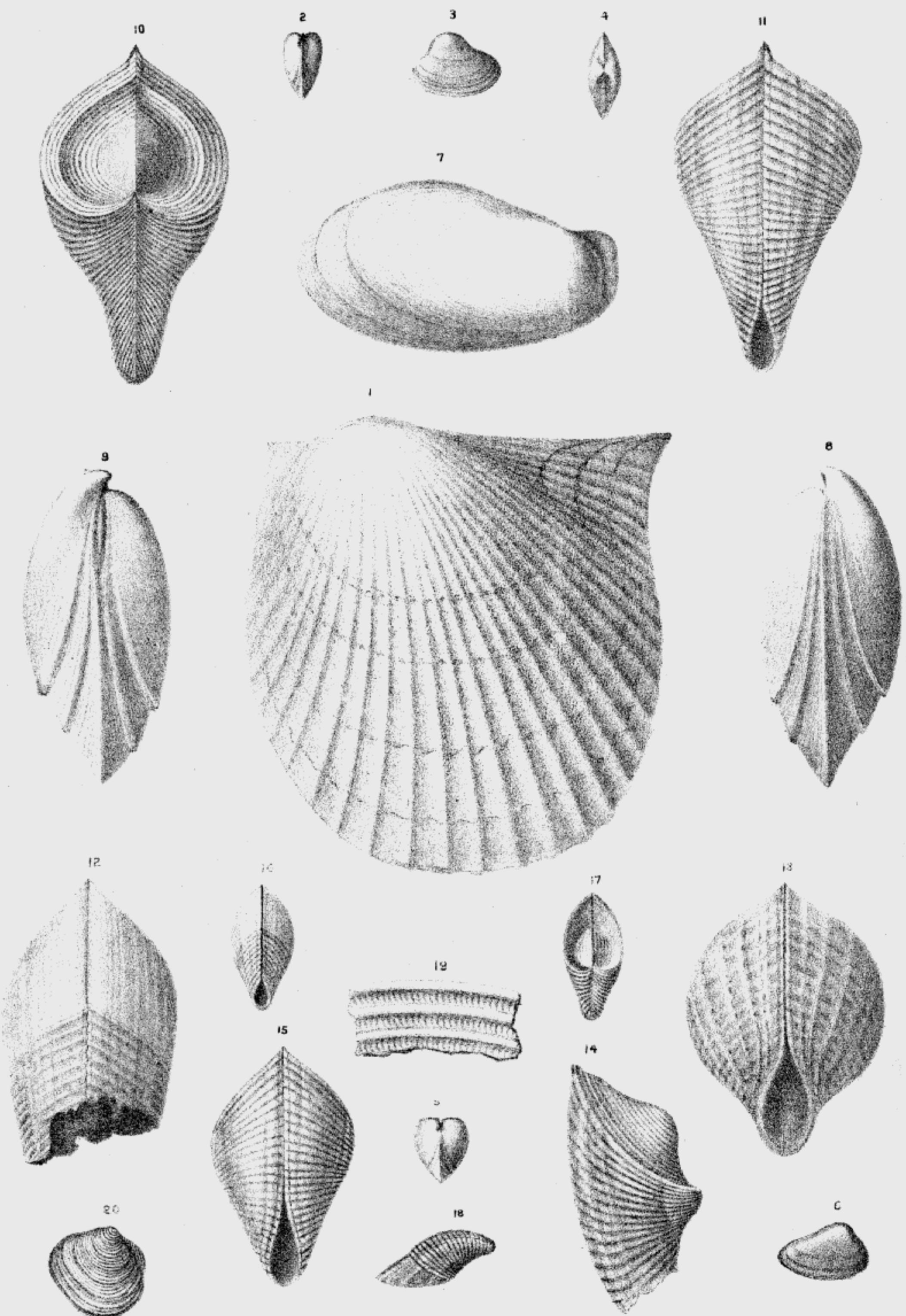


PLATE VI.

Spirifera euruteines.

Fig. 1-7, 9, 11-17. A series of specimens showing principal varieties of form.

Page 115

Fig. 21, 22. View of two specimens broken so as to show the spiral cones.

Spirifera euruteines, var. fornacula.

Fig. 8, 10. Cardinal and ventral view of a large specimen.

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Fig. 18, 19, 20. Dorsal, ventral and profile view of a small specimen.

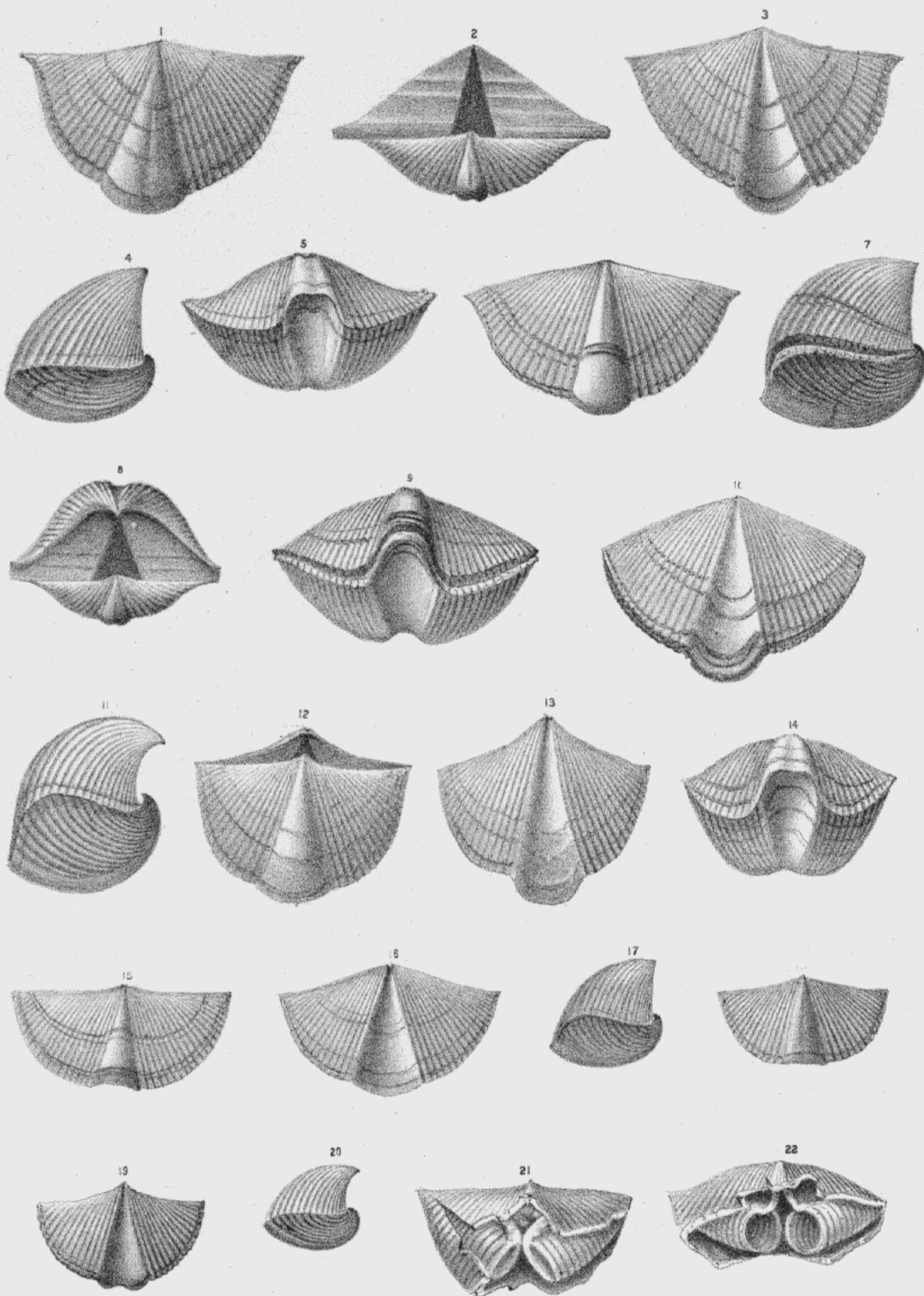


PLATE VII.

Spirifera oweni.

Fig. 1-4, 7. Dorsal, profile, cardinal, ventral and front view of specimen.

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Fig. 5, 6. Lateral and dorsal view of a young specimen.

Fig. 8, 9, 10. View of three specimens broken so as to show the spiral cones.

Spirifera conradana.

Fig. 11, 12. Dorsal and ventral view of a specimen.

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Fig. 13. Dorsal view of a small specimen.

Spirifera knappiana.

Fig. 14. Ventral view of a specimen.

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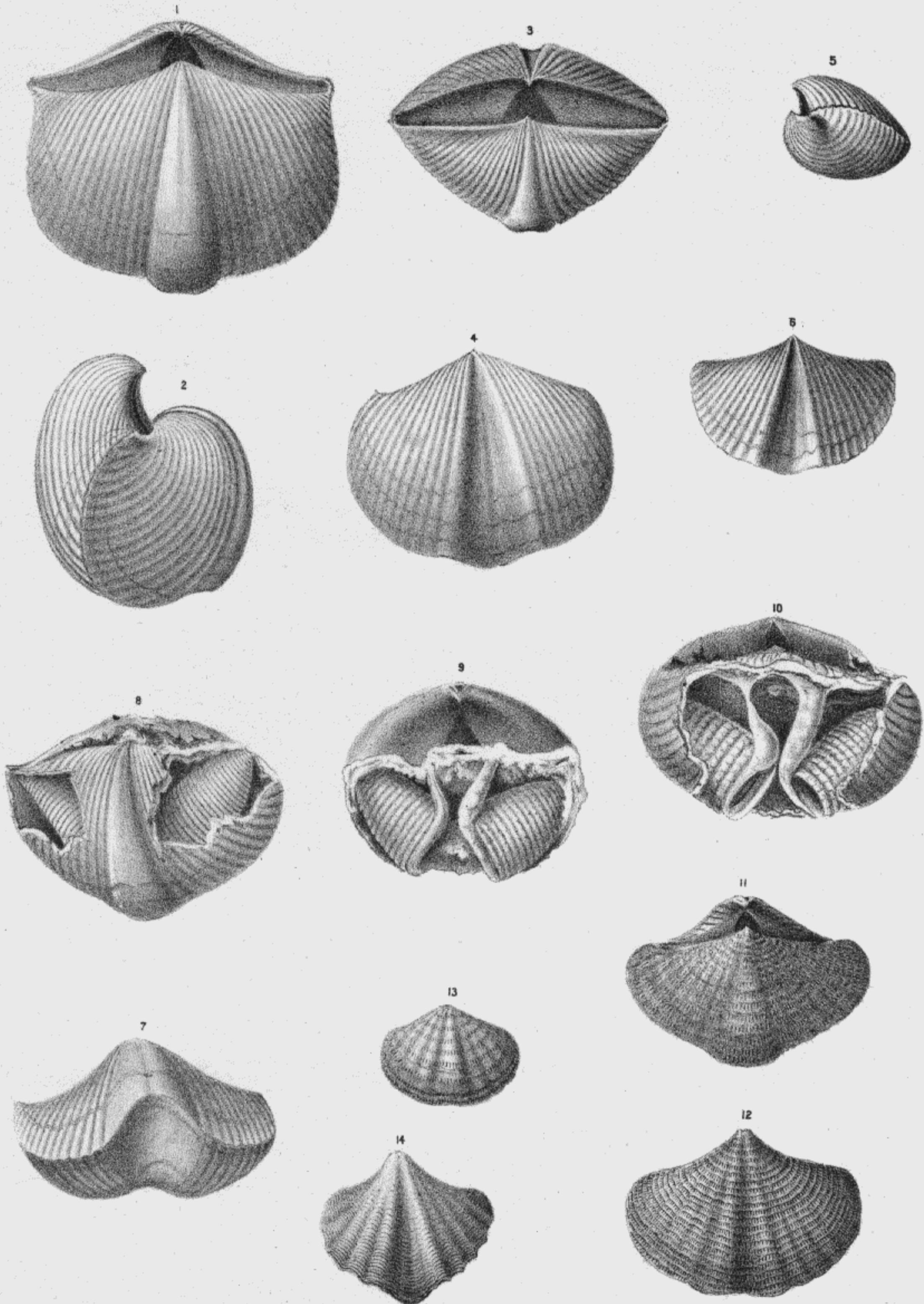


PLATE VIII.

Spirifera acuminata.

Fig. 1[-5]. Dorsal, ventral, profile, front and cardinal view of a specimen.

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Fig. 6, 7, 8. Cardinal, ventral and dorsal view of an internal cast.

Spirifera gregaria.

Fig. 9-13. Ventral, dorsal, front, profile and cardinal view of a specimen.

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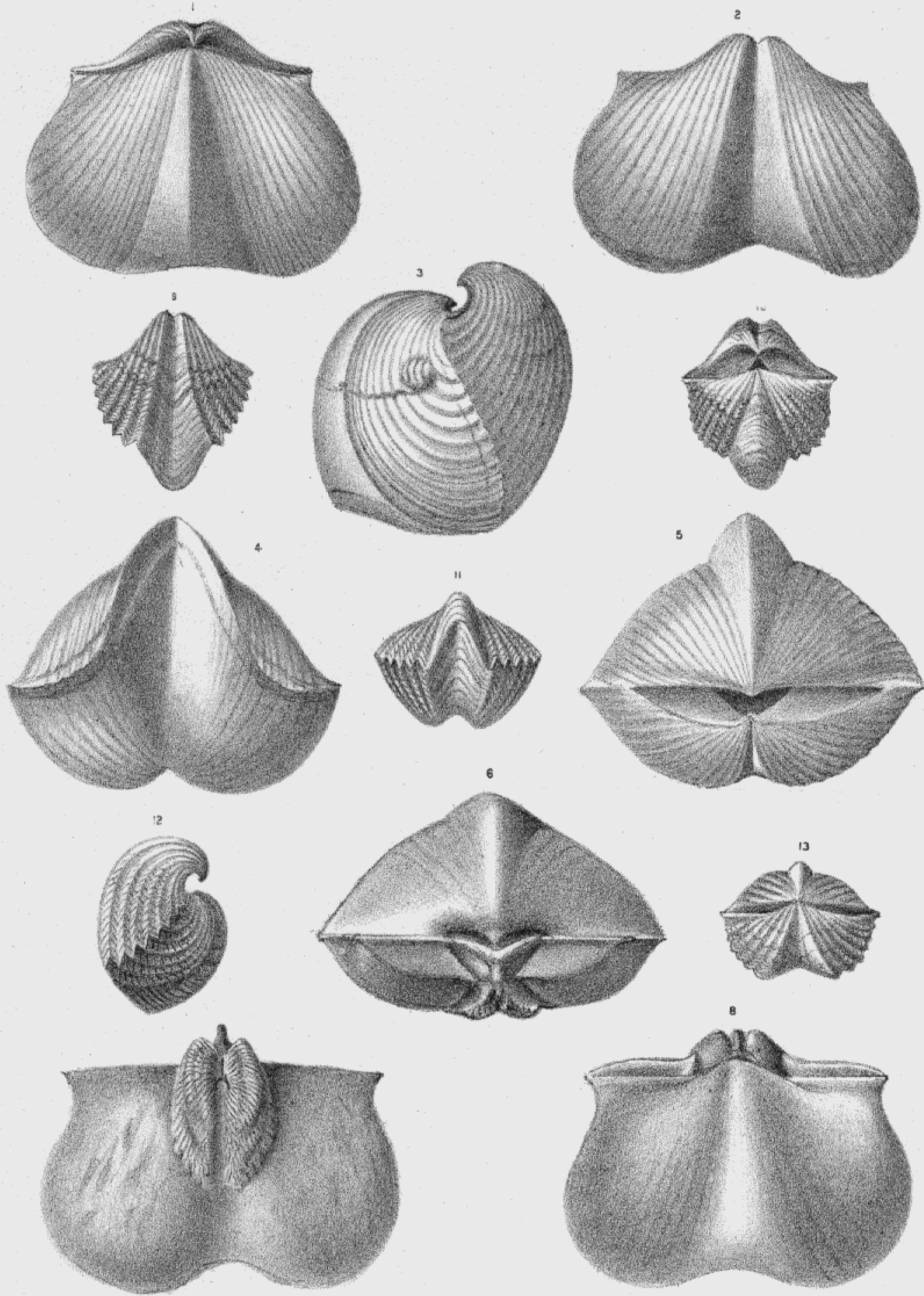


PLATE IX.

Spirifera atwaterana.

Fig. 1-5. Dorsal, ventral, front, cardinal and profile view of a specimen.

Fig. 6, 7. Dorsal and ventral view of a smaller specimen.

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Spirifera grieri.

Fig. 8-12. Cardinal, front, dorsal, profile and ventral view of a speci-

men.

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Fig. 13, 14. Dorsal and profile view of a small specimen.

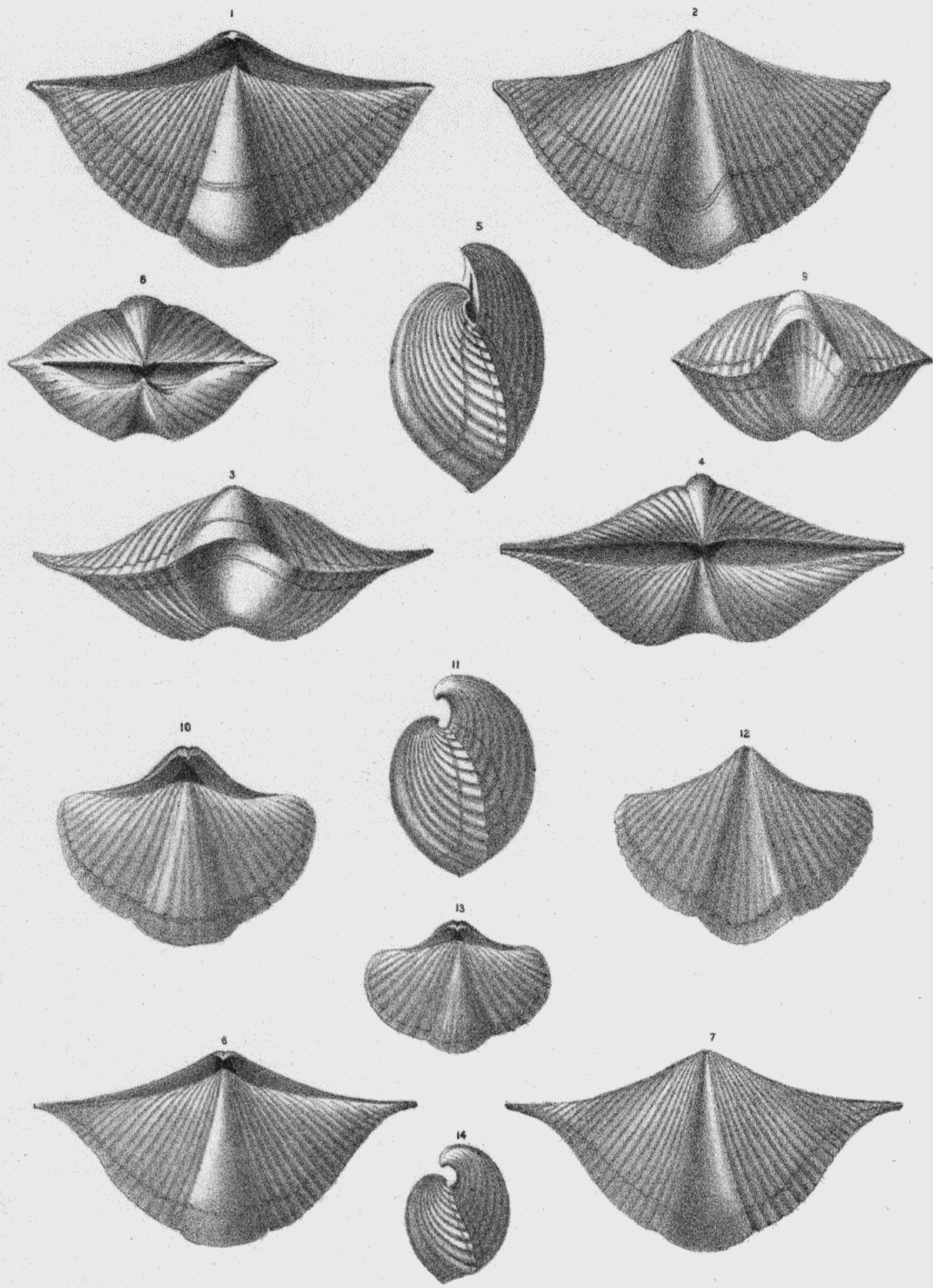


PLATE X.

Spirifera byrnési.

Fig. 1-5. Dorsal, ventral, front, cardinal and profile view of a specimen.	Page
Fig. 31-34, 36-39. A series of specimens, showing variety in form and ornamentation. [for 32 in lower left-hand corner, change to 36.]	109

Spirifera gregaria.

Fig. 6-10. Dorsal, ventral, front, cardinal and profile view of a specimen.	Page
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Spirifera varicosa.

Fig. 11-20, 23-25. A series of specimens showing variety in size, form and ornamentation.	Page 134
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Spirifera hobbsi.

Fig. 21, 22. Dorsal and ventral view of a specimen.	Page 121
Fig. 26-30. Dorsal, ventral, front, cardinal and lateral view of specimen.	
Fig. 35, 40. Dorsal and ventral view of a specimen, showing extreme extension of hinge-line.	

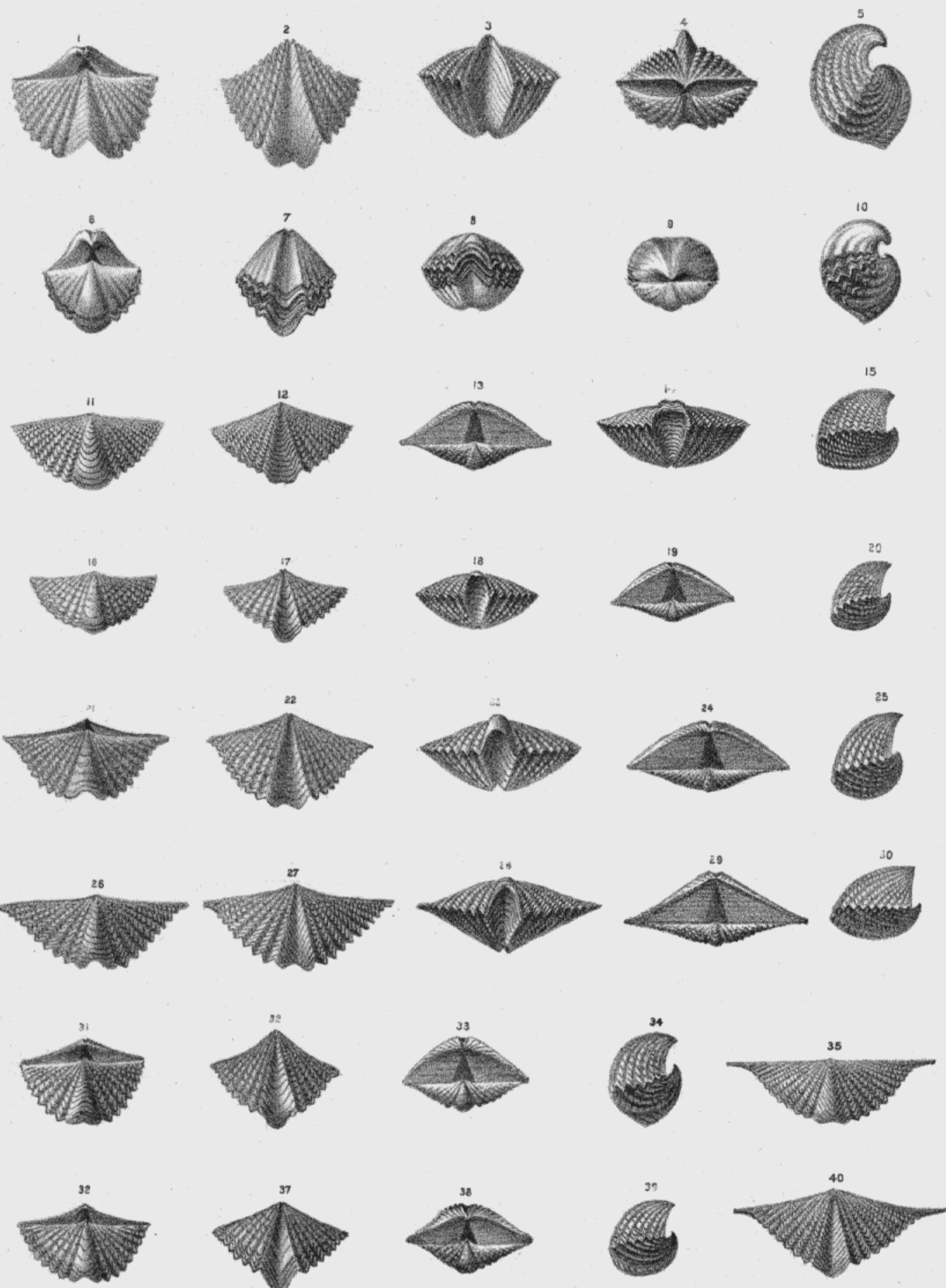


PLATE XI.

Spirifera mccoanathii.

Fig. 1-5. Ventral, cardinal, dorsal, front and profile view of a specimen.

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Spirifera divaricata.

Fig. 6-10. Dorsal, front, cardinal, ventral and profile-view of a specimen.

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Fig. 11. An enlargement of a portion of the test of a specimen.

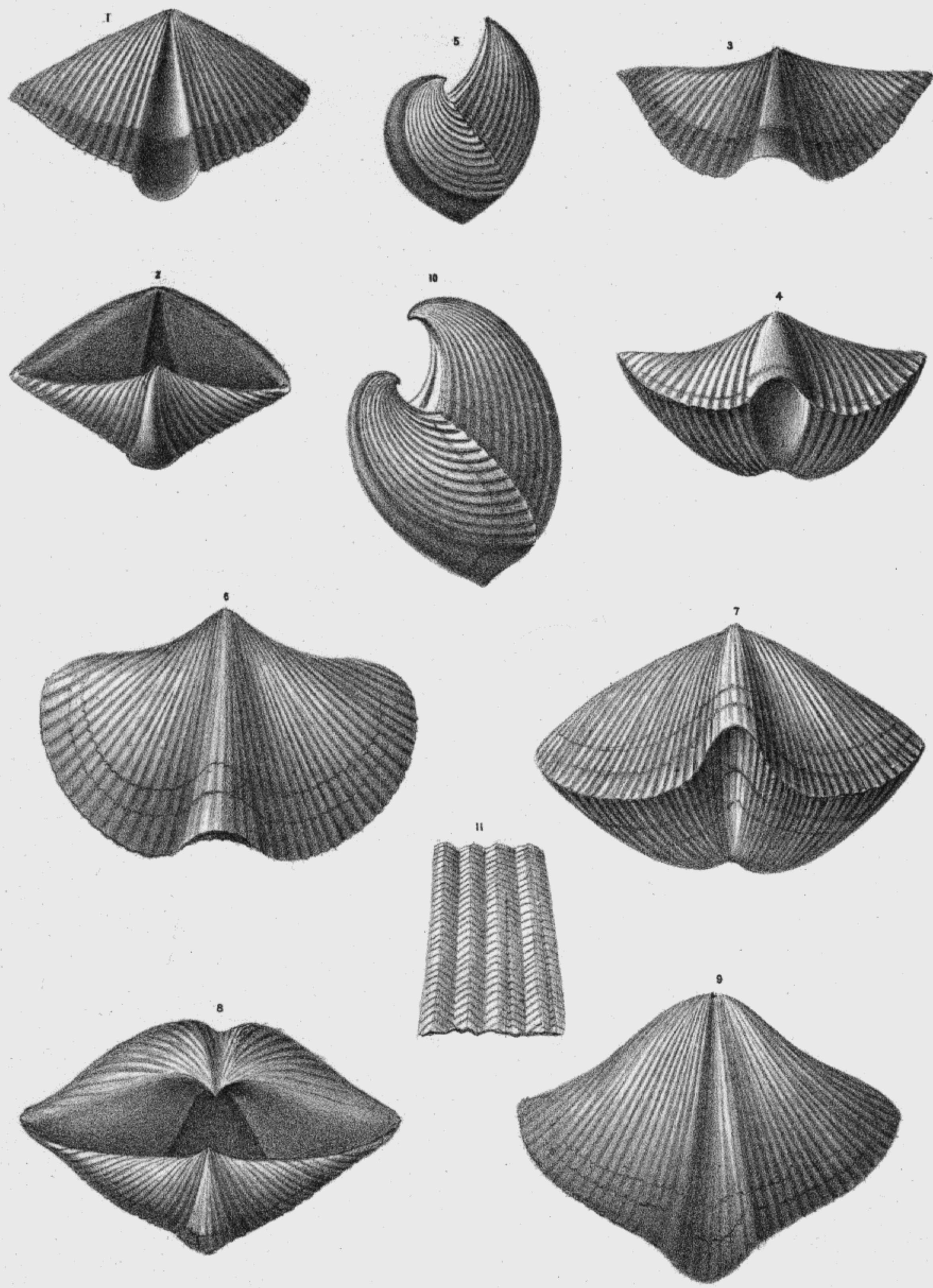


PLATE XII.

Spirifera davisii.

Fig. 1-4. Dorsal, front, ventral and profile view of a specimen.

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Spirifera divaricata.

Fig. 5-11. A series of specimens showing variations in form and size.

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Spirifera duodenaria.

Fig. 12, 13, 16. Ventral, dorsal and profile view of a specimen.

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Spirifera arctisegmenta.

Fig. 14, 15. Ventral and dorsal view of a specimen.

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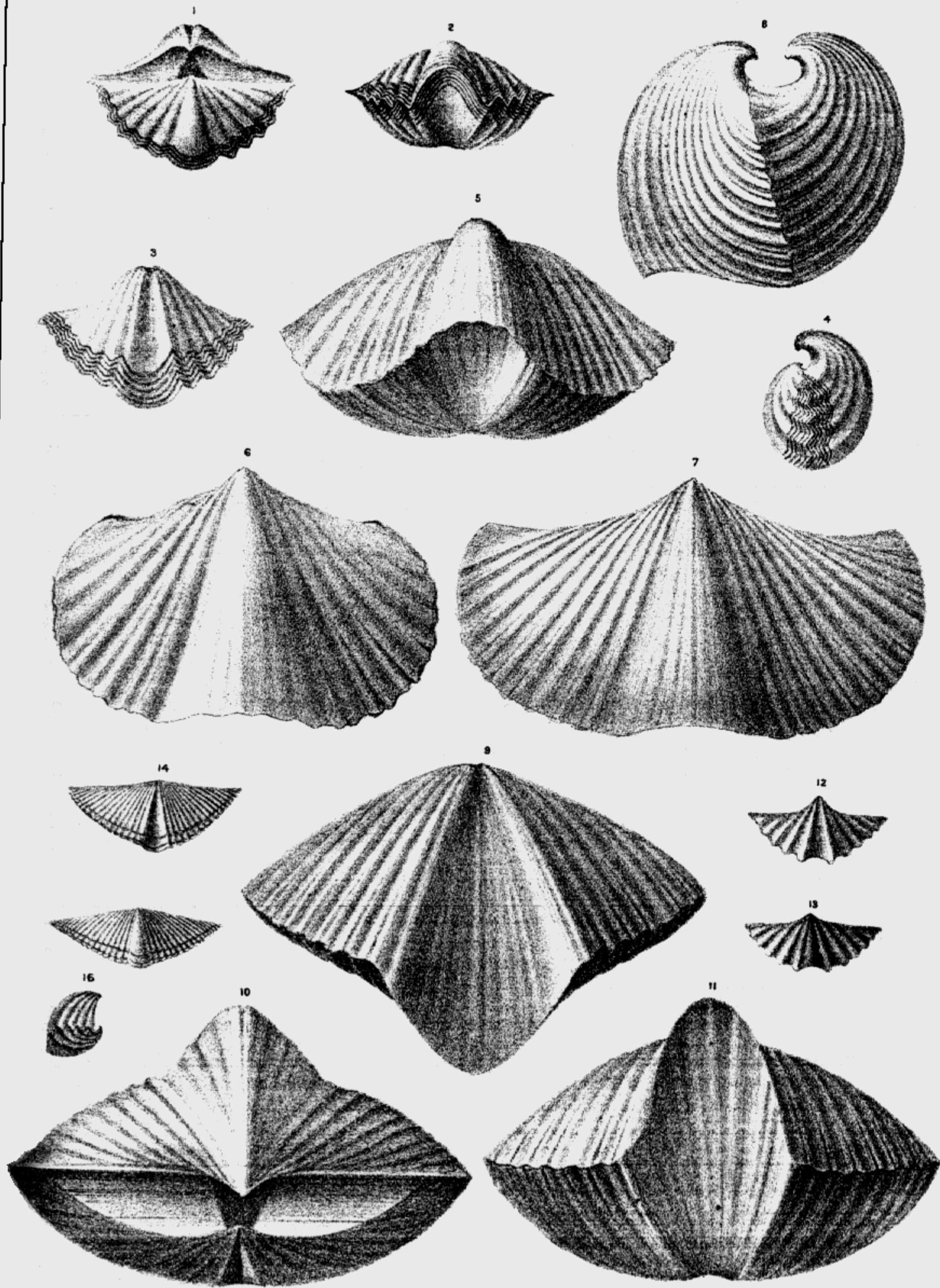


PLATE XIII .

Rhynchonella tethys.

Fig. 25-33. A series of specimens showing variations in size and number of plications. [23 on 2nd line, lower left-hand corner should be 32.]

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Spirifera segmenta.

Fig. 36-38. Dorsal, ventral and profile view of specimen.

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Rynchonella carolina.

Fig. 1-3, 34, 35. A series of specimens showing variations in size.

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Cyrtina hamiltoniae.

Fig. 4-12. A series of specimens showing variations in size and ornamentation.

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Cyrtina hamiltoniae, var. recta.

Fig. 13. View of a small dorsal valve.

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Fig. 14. Ventral view of a specimen.

Fig. 15. Profile view of a specimen.

Fig. 16. View of a larger dorsal valve.

Pentamerella arata.

Fig. 17-20. Dorsal, ventral, front and profile view of a specimen.

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Cyrtina crassa.

Fig. 21-24. Ventral, cardinal, profile and dorsal view of a specimen.

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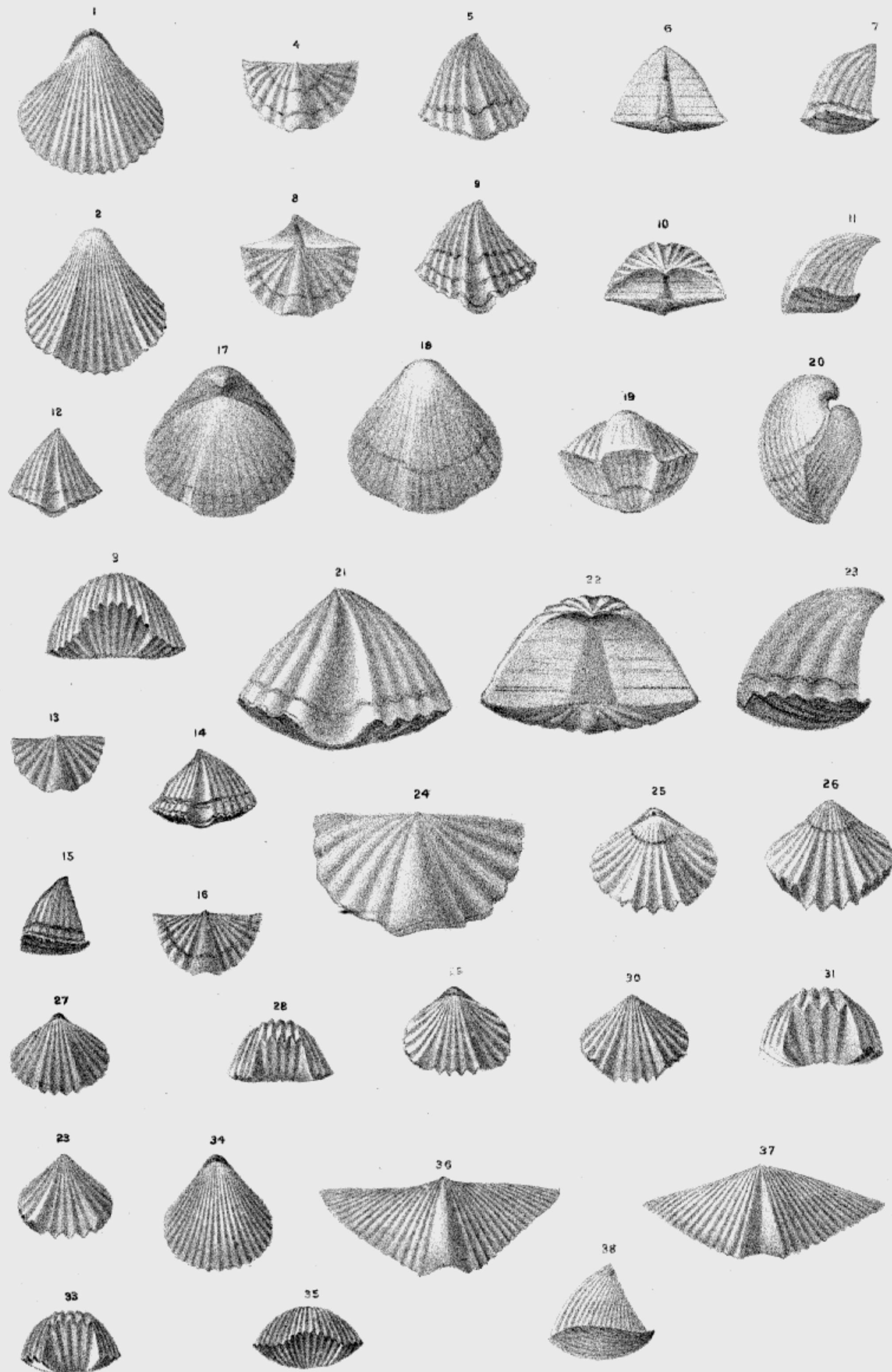


PLATE XIV.

Atrypa aspera.

Fig. 1-5, 7-11. A series of specimens showing variations in form and size.

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Fig. 6. Interior of a ventral valve.

Atrypa reticularis.

Fig. 12-17, 19. A series of specimens showing variations in form and size.

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Fig. 18. Dorsal view of a specimen, broken so as to show spiral cones.

Fig. 20. Ventral view of a specimen, broken so as to show spiral cones.

Fig. 21. Side view of a specimen, broken so as to show spiral cones.

Fig. 22. View of a single spiral cone.

Fig. 23. View of interior of a ventral valve.

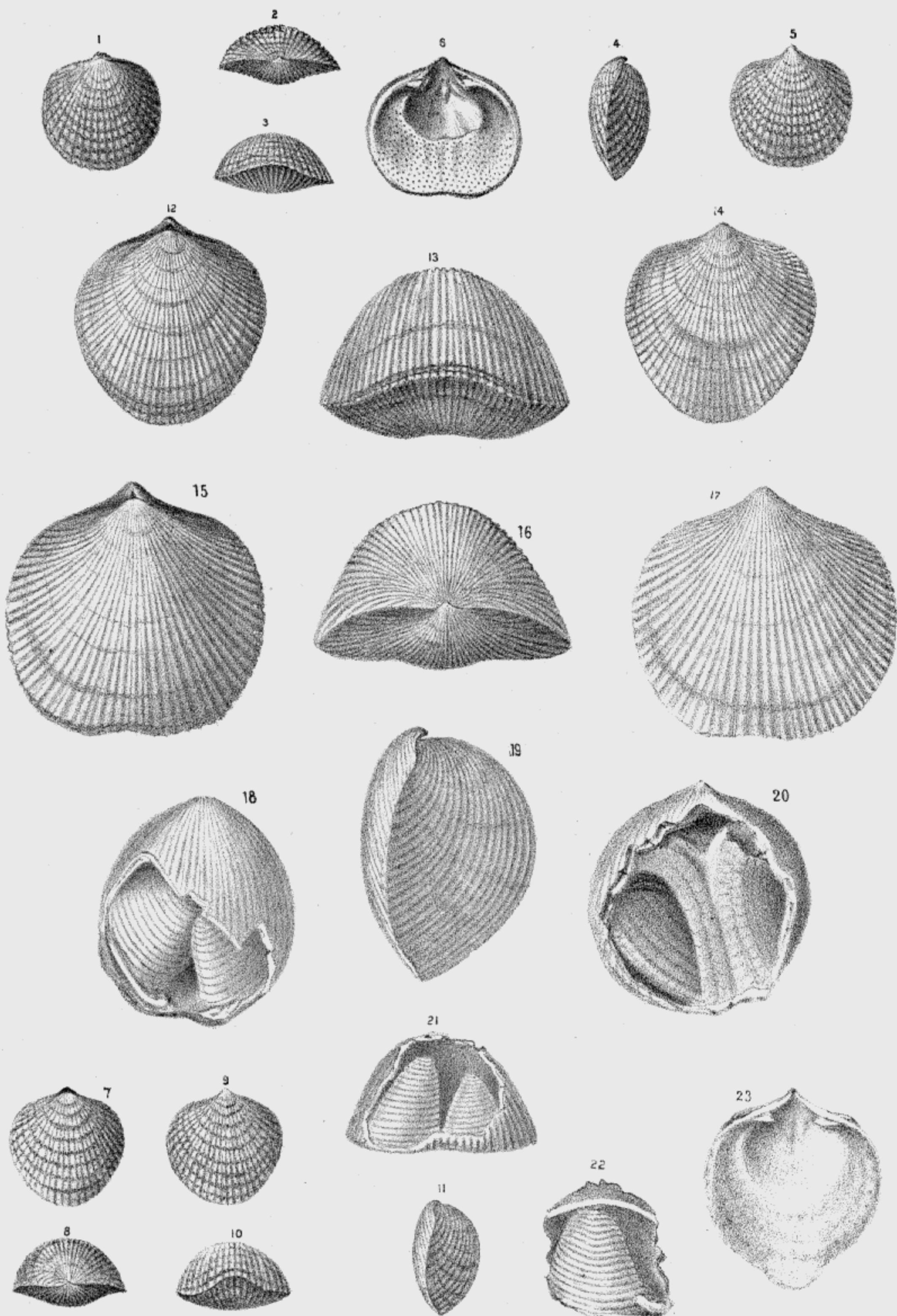


PLATE XV.

Atrypa reticularis.

Fig. 1. Ventral view of a very rugose specimen.

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Meristella nasuta.

Fig. 2-5. Cardinal, dorsal, profile and ventral view of specimen.

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Fig. 6-8. Cardinal, ventral and dorsal view of an interior cast.

Meristella unisulcata.

Fig. 9-16. A series of specimens showing variations in size and form.

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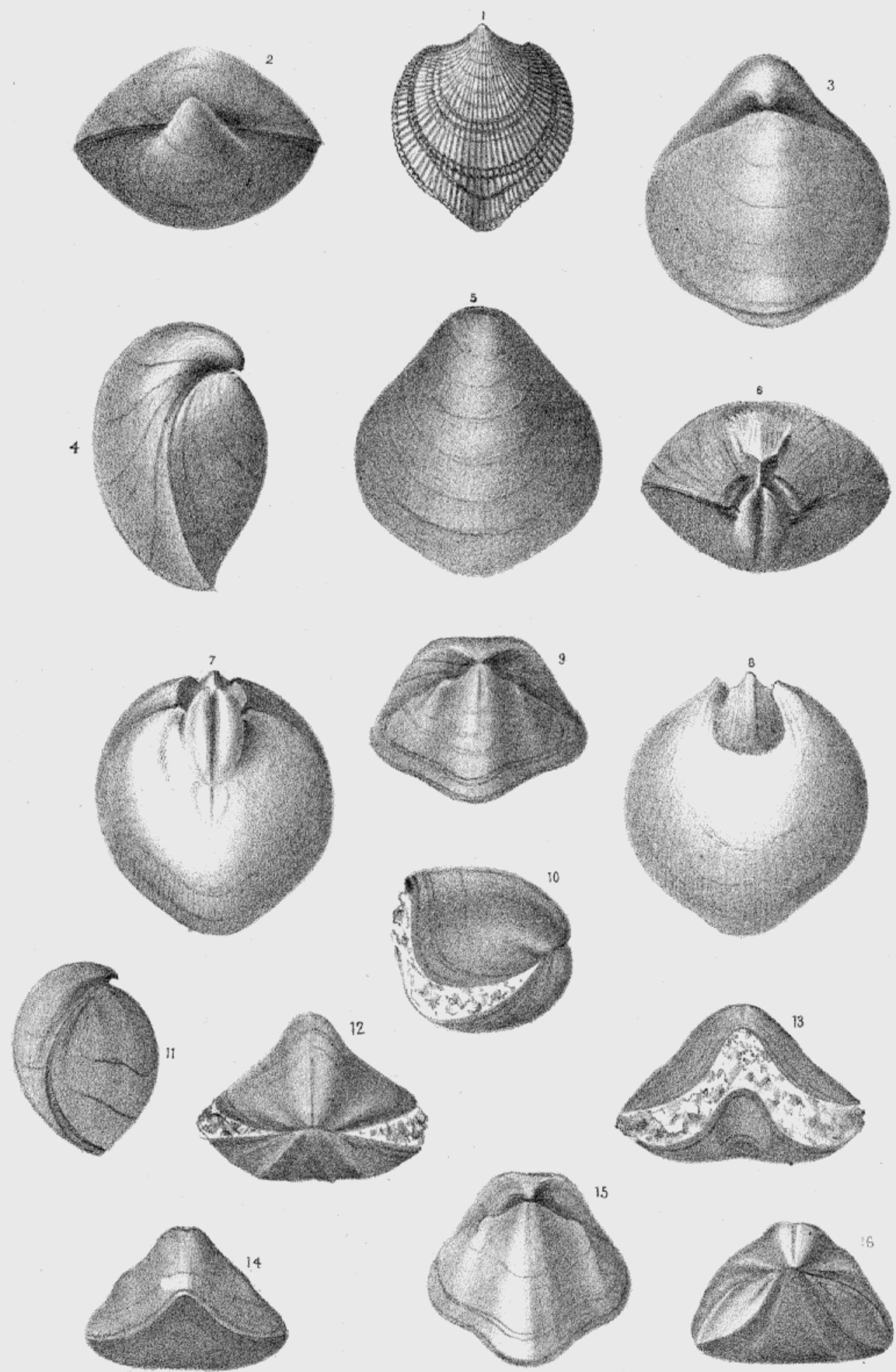


PLATE XVI.

Orthis propinqua.

Fig. 1-3, 7-11. A series of specimens showing variations in size. Page 43

Orthis vanuxemi.

Fig. 4-6, 12, 12a-14. A series of specimens showing variation in size. Page 45

Trematospira hirsuta.

Fig. 15-19. Profile, dorsal, ventral, front and cardinal view of specimen. Page 136

Terebratula roemingeri.

Fig. 20-22. Profile, ventral and dorsal view of a specimen. Page 155

Orthis livia.

Fig. 23, 24. Dorsal and ventral view of a specimen. Page
40

Athyris vittata.

Fig. 25-29, 31, 32. A series of specimens showing variations in size
and ornamentation. Page

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Fig. 30. Ventral valve broken to show position of spiral cones.

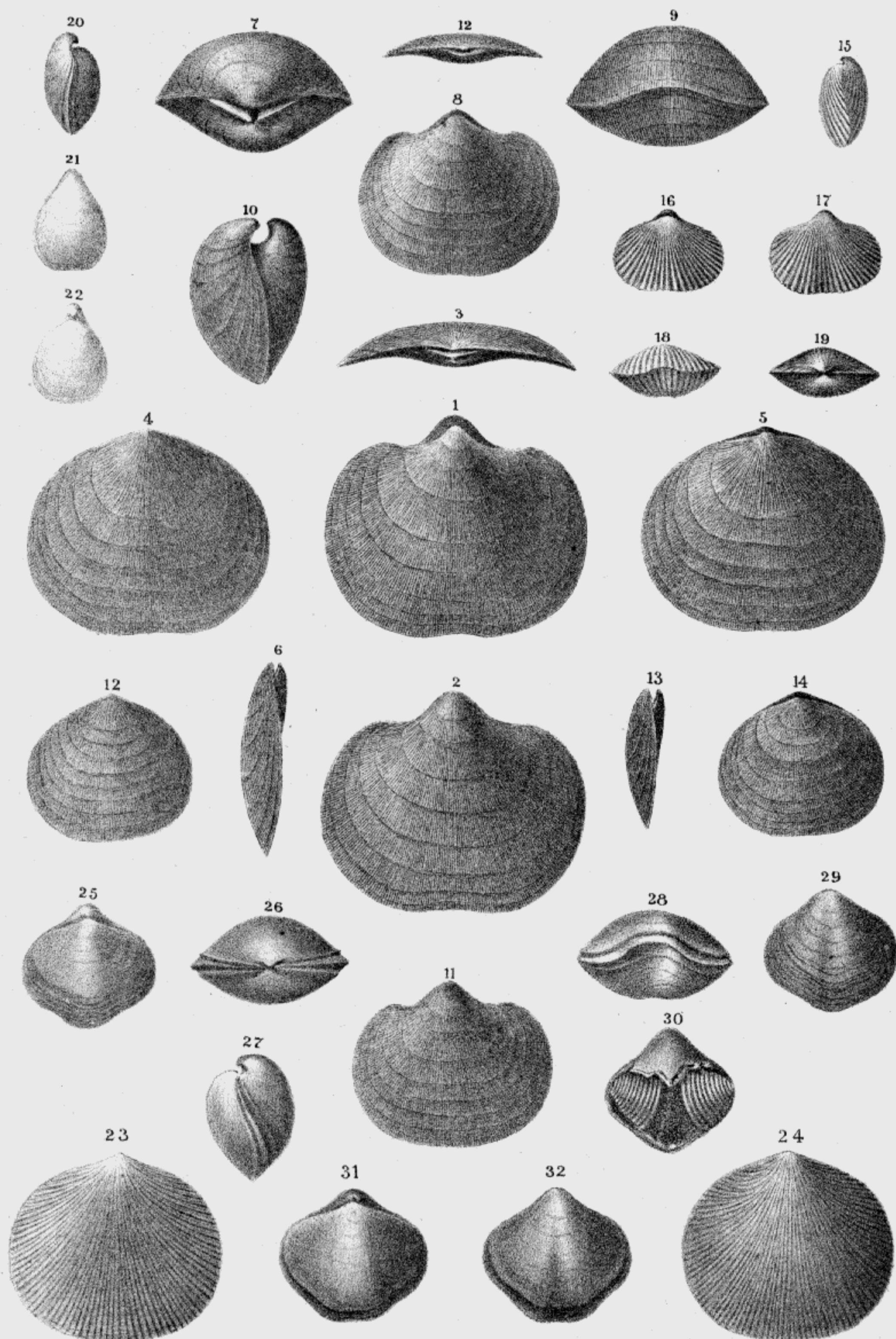


PLATE XVII.

Terebratula harmonia.

Fig. 1-4. Profile, dorsal, front and ventral view of a specimen. Page 154

Productella subaculeata, var. cataracta.

Fig. 5-8. Dorsal, ventral and front and transverse view of a specimen. Page 69
Fig. 9. Ventral view of a specimen, showing almost perfect spines.

Strophodonta inequistriata.

Fig. 10. Ventral valve of a specimen. Page 145
Fig. 11. An enlargement of a portion of the surface, showing intercalated striae.

Bellerophon leda.

Fig. 12. 13. Profile and side view of a specimen. Page 158

Tropidoleptus carinatus.

Fig. 14, 15. Dorsal and ventral view of a specimen. Page 46

Chonetes yandelliana.

Fig. 16-18. Ventral and dorsal view and transverse section of specimen.
Fig. 19. Dorsal view of a larger specimen. Page 68

Strophodonta profunda.

Fig. 20. Ventral valve of a specimen. Page 148
Fig. 21. An enlargement of a portion of the surface showing radiating striae.

Terebratula lincklaeni.

Fig. 22-24. Ventral, dorsal and profile views of a specimen.

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Ambocoelia umbonata.

Fig. 25, 26. Dorsal and profile view of a specimen.

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Rhynchonella tenuistriata.

Fig. 27, 28, 29. Ventral, dorsal and front view of a specimen.

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Orthis goodwini.

Fig. 30-32. Dorsal, ventral and profile view of a specimen.

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Orthis livia.

Fig. 33-35. Ventral, dorsal and profile view of a specimen.

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Spirifera crispa, var. simplex.

Fig. 36, 37. Dorsal and ventral view of a specimen.

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Spirifera raricosta.

Fig. 38-42. Profile, front, cardinal, ventral and dorsal view of a specimen.

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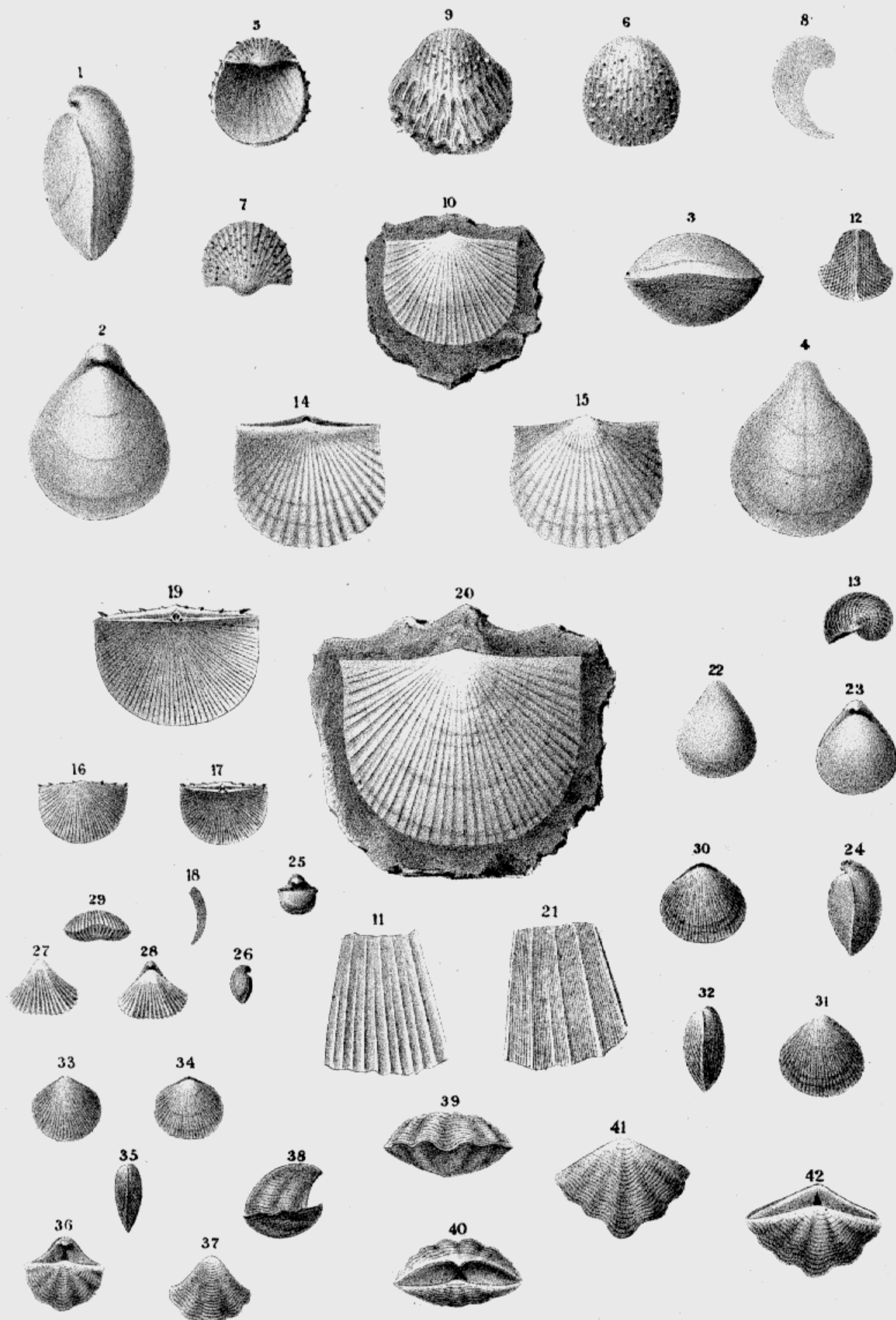


PLATE XVIII.

Strophomena rhomboidalis.

Fig. 1-3. Ventral, dorsal and profile view of a specimen.

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Strophodonta hemispherica.

Fig. 4-6. Ventral, dorsal and lateral view of specimen.

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Fig. 7-9. Dorsal, ventral and lateral view of an internal cast.

Strophodonta demissa.

Fig. 10-15. A series of specimen showing variations in size.

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Fig. 16. Lateral view of a specimen.

Strophodonta perplana.

Fig. 17. Ventral view of a specimen.

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Chonetes acutiradiata.

Fig. 18-20. Ventral, dorsal and profile view of a specimen.

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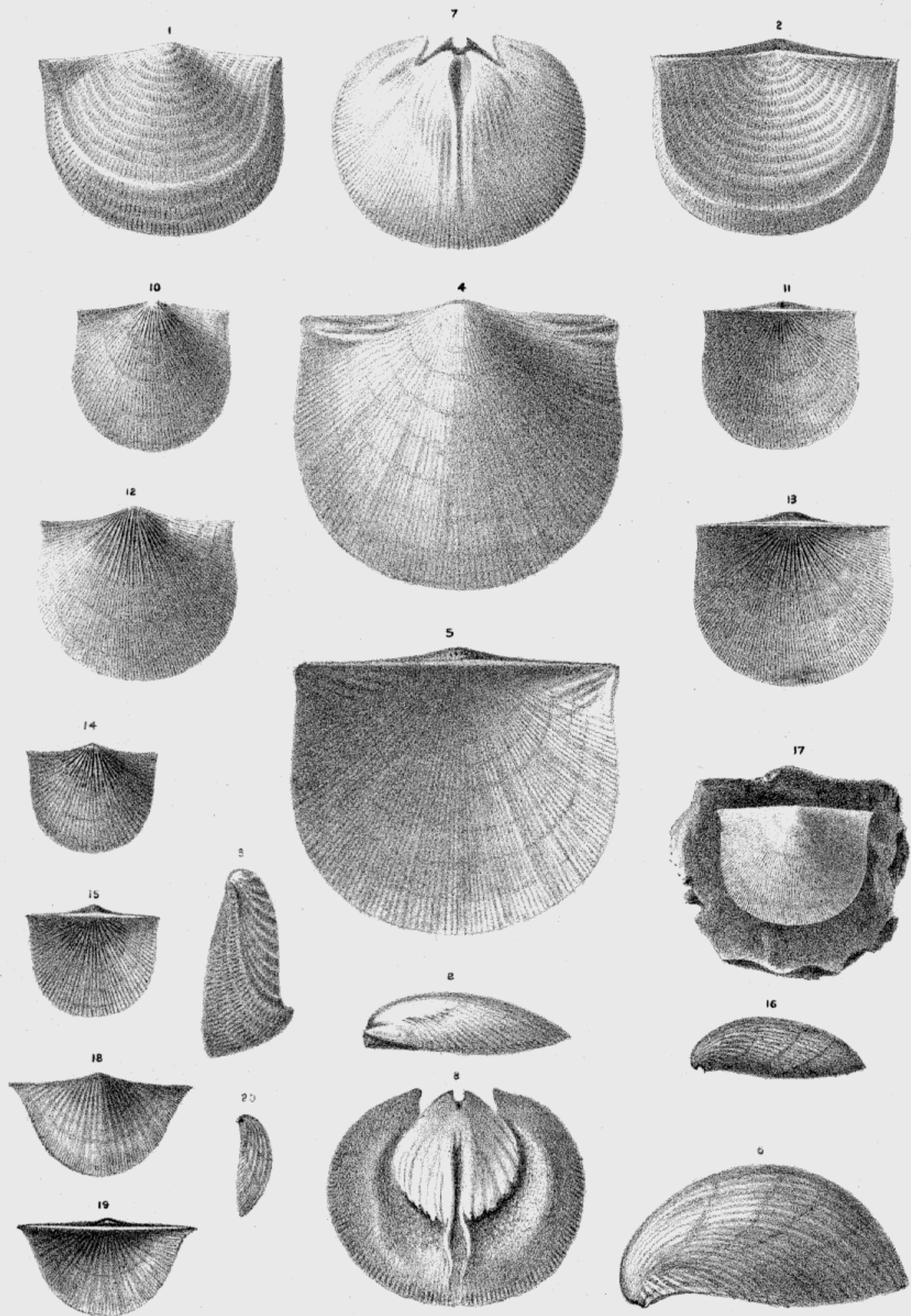


PLATE XIX.

Turbo shumardi.

- | | |
|---|----------|
| Fig. 1. Apertural view of a specimen. | Page 191 |
| Fig. 2. Dorsal view of a specimen. | |
| Fig. 3. Vertical view of a specimen. | |
| Fig. 4. Vertical view of a larger specimen. | |

Platyostoma lineata.

- | | |
|--|----------|
| Fig. 5. Vertical view of a specimen. | Page 183 |
| Fig. 6. An enlargement of a portion of the test. | |
| Fig. 7. Apertural view of a specimen. | |
| Fig. 8. Dorsal view of a specimen. | |

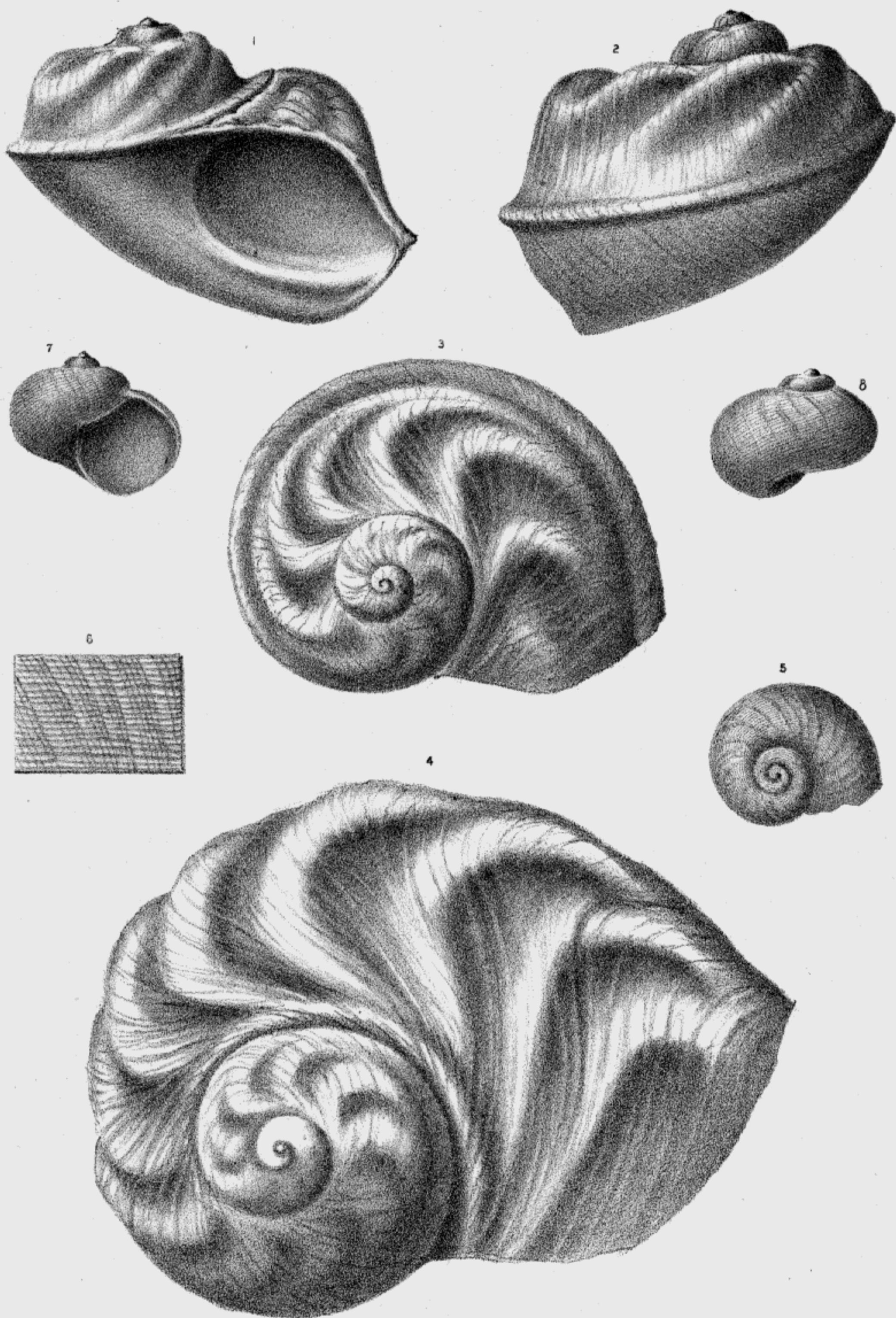


PLATE XX

Polypheopsis louisvillae.

Fig. 16-19. A series of specimen showing variations in size.

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Macrocheilus carinatus.

Fig. 20-23. A series of specimen showing variations in size.

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Trochonema rectilatera.

Fig. 1, 2. Apertural and dorsal view of a specimen.

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Trochonema yandellana.

Fig. 3. Apertural view of a specimen.

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Callonema bellatula.

Fig. 4-7. A series of specimen showing variations in size and orna-
mentation.

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Loxonema hydraulicum.

Fig. 8, 9. View of three specimen enclosed in matrix.

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Cyclonema cancellata.

Fig. 10, 11. Dorsal and apertural view of a specimen.

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Callonema imitator.

Fig. 12, 13. Vertical and apertural view of a specimen.

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Goniatites discoideus.

Fig. 14, 15. Basal and profile view of a specimen.

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PLATE XXI.

Euomphalus decewi.

Fig. 1, 2. Profile and upper surface view of a specimen.

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Euomphalus sampsoni.

Fig. 3, 4. Profile and lateral view of a specimen.

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Platyostoma turbinata.

Fig. 5, 6. Dorsal and vertical view of a specimen.

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Platyostoma lineata.

Fig. 7, 8. Vertical and dorsal view of a specimen.

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Pleurotomaria procteri.

Fig. 9, 10. Dorsal and vertical view of a specimen.

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Fig. 13. Dorsal view of a small specimen.

Pleurotomaria sulcomarginata.

Fig. 11, 12. Vertical and dorsal view of a specimen.

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Platyostoma lineata, var. callosa.

Fig. 14. Lateral view of a specimen.

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Gomphoceras turbiniforme.

Fig. 15, 16. View of two specimens showing variation in size.

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Gomphoceras oviforme.

Fig. 17. Side view of a specimen.

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Fig. 18. View of the aperture of a specimen.

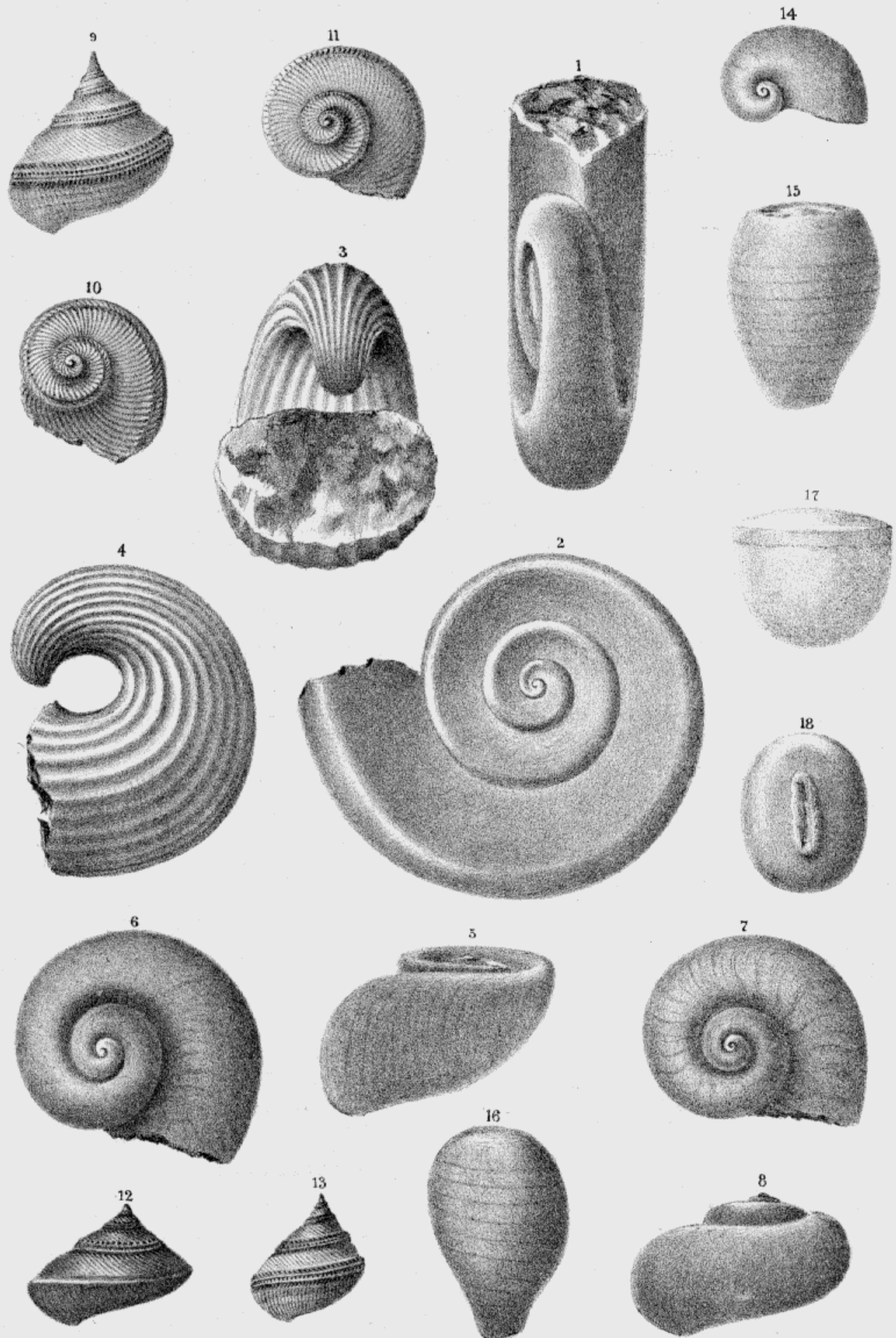


PLATE XXII.

Turbo shumardi.

Fig. 1. Dorsal view of an internal cast of a specimen.
Fig. 2. Dorsal view of a perfect specimen, very large.

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Bucania devonica.

Fig. 3, 4. Vertical and front view of a specimen.

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Cyclonema multilira.

Fig. 5. View of a gutta percha cast.

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Strophostylus varians.

Fig. 6, 7. Dorsal and vertical view of a specimen.

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Loxonema laeviusculum.

Fig. 8. View of a somewhat distorted specimen.
Fig. 9. View of a more perfect specimen.

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Platyostoma lineata var. callosa.

Fig. 10, 11. Side and summit view of a specimen.

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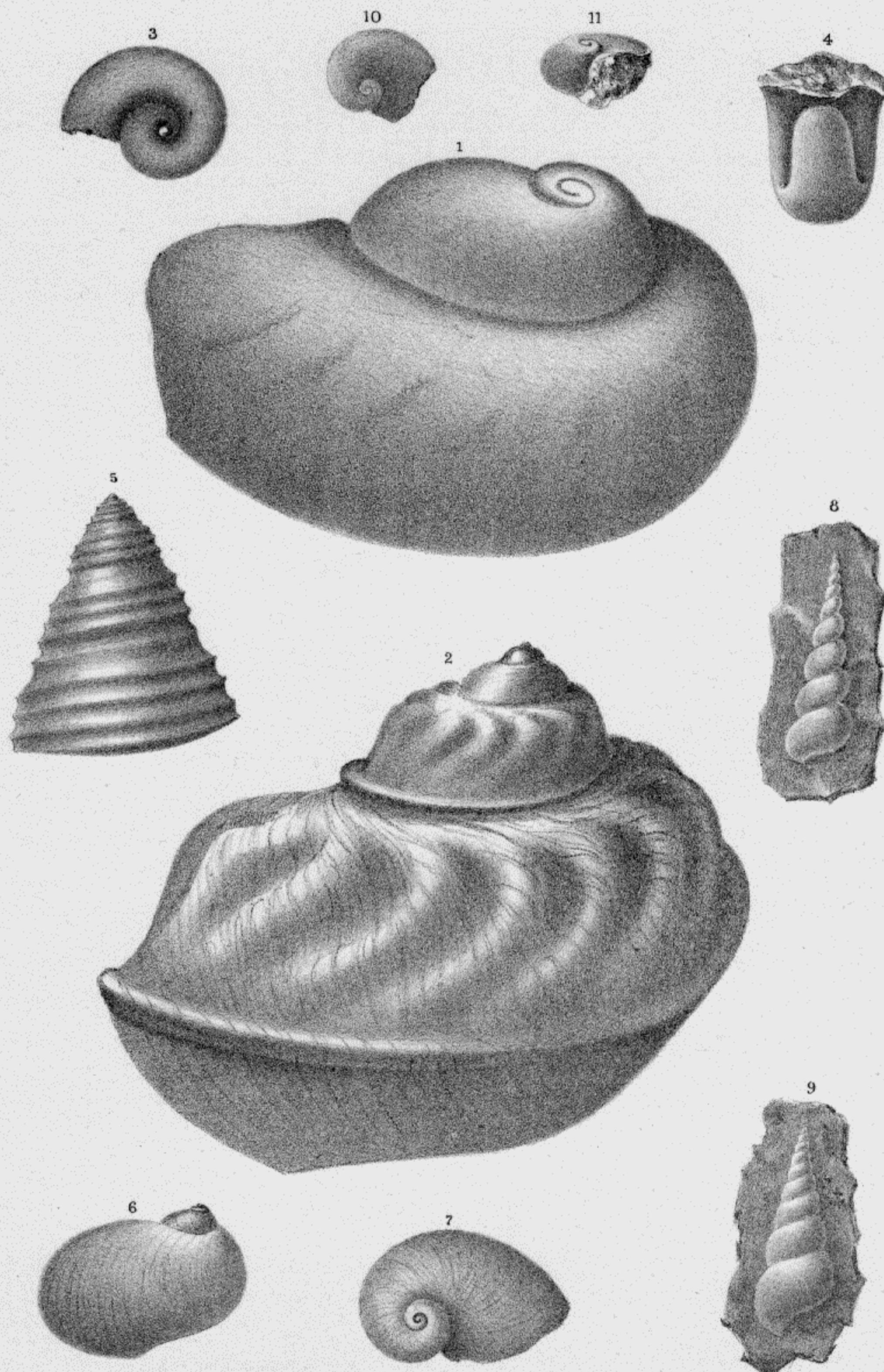


PLATE XXIII.

Platyceras dumosum.

Fig. 1-4. A series of specimen showing variations in size, distribution and condition of spines.

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Fig. 5, 6. View of two specimen exfoliated, and showing spine bases.

Fig. 12. Vertical view of a young specimen.

Platyceras dumosum, var. rarispinum.

Fig. 7, 8. Dorsal and lateral view of a specimen.

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Platyceras bucculentum.

Fig. 9, 11. Lateral view of two specimen, showing variation in size. Page 160

Platyceras symmetricum.

Fig. 10. Lateral view of a specimen.

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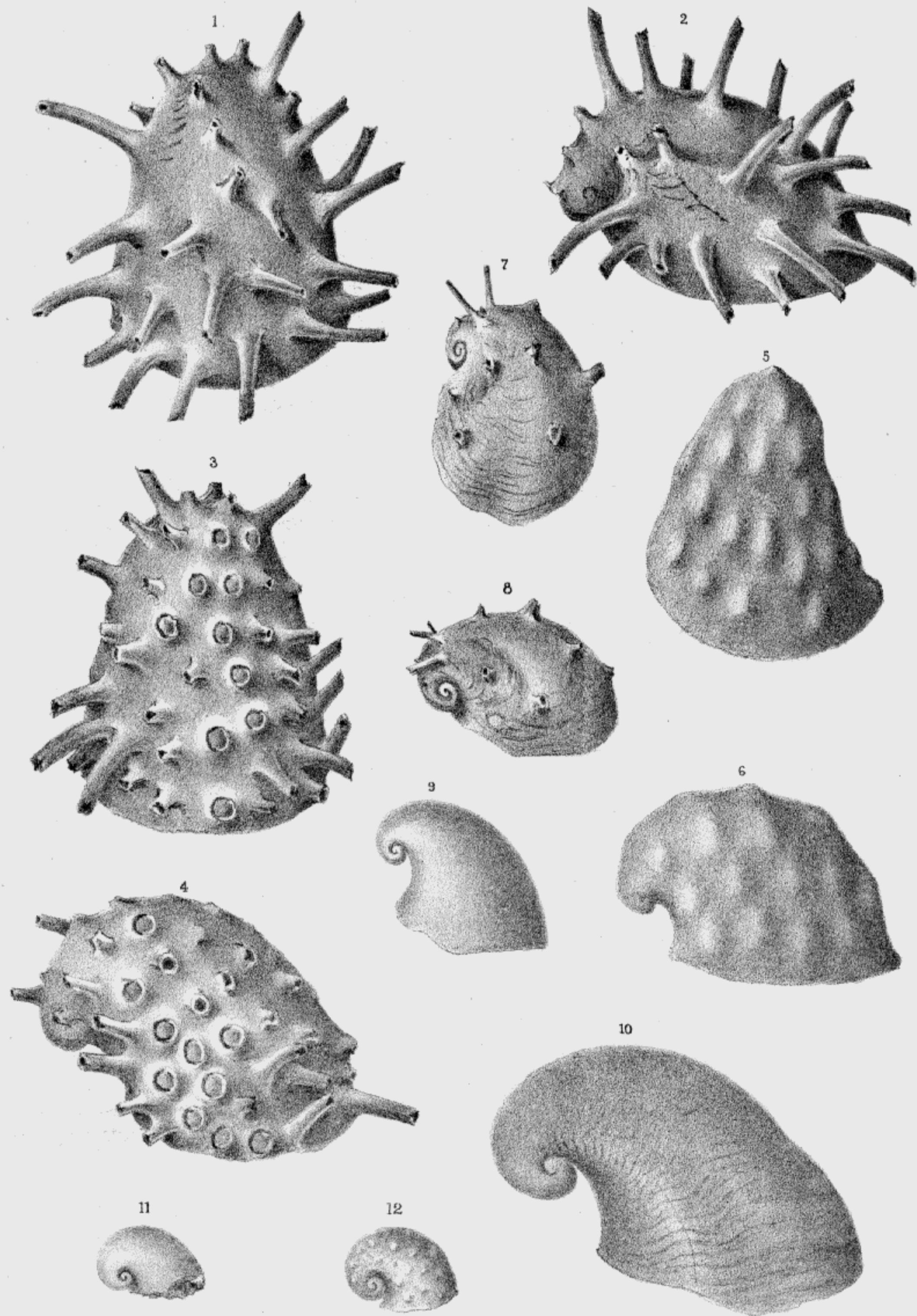


PLATE XXIV.

Nautilus maximus.

Fig. 1. Side view of a specimen.

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Callonema clarki.

Fig. 2. Summit view of a specimen.

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Fig. 3. Side view of a specimen.

Fig. 4. Apertural view of a specimen.

Fig. 5. Side view of a smaller specimen.

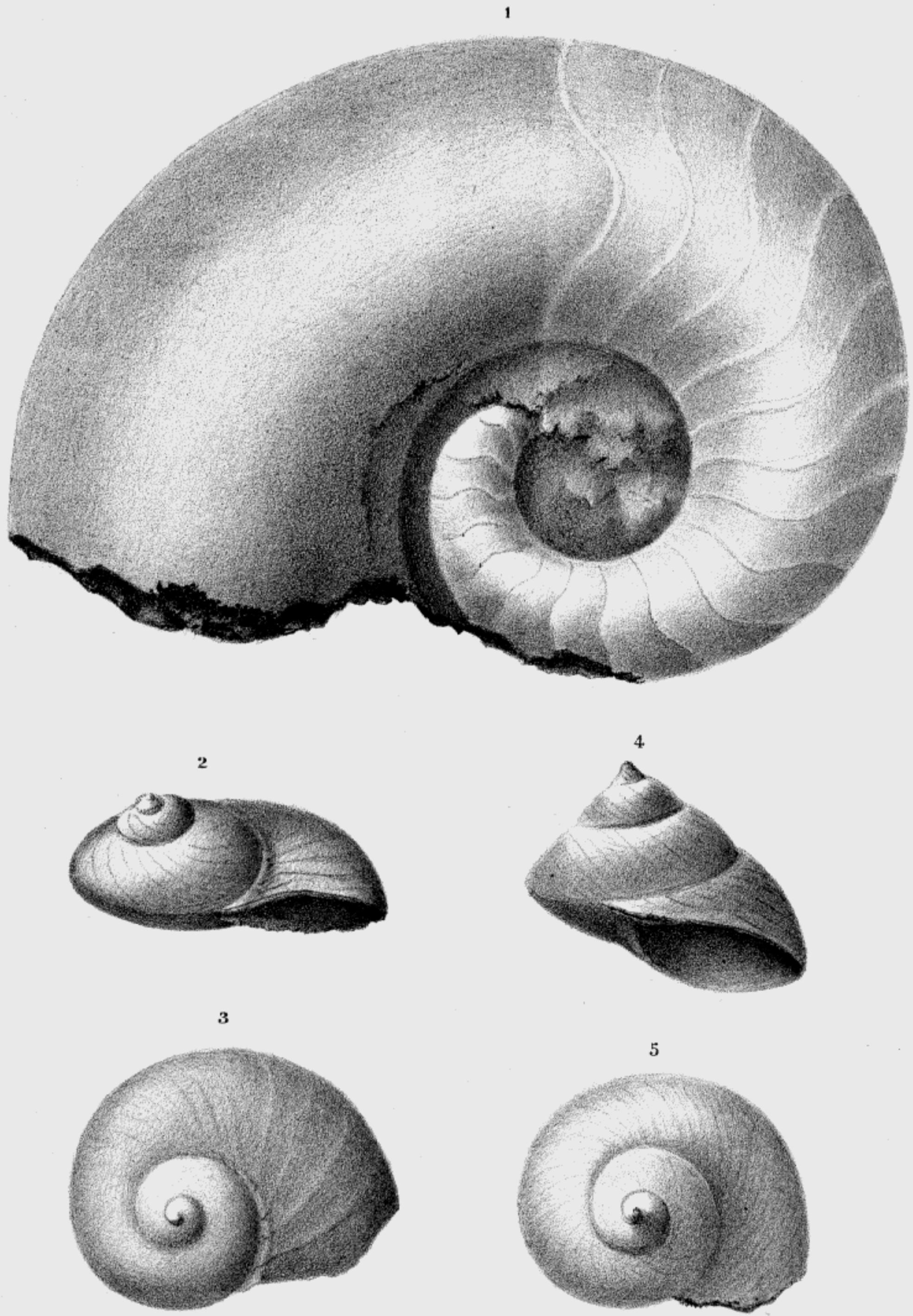


PLATE XXV.

Platyceras milleri.

Fig. 1. Anterior view of a specimen.

Page 165

Platyceras conicum.

Fig. 2, 11. Dorsal view of two specimen, showing variation in size.

Page 161

Platyceras bucculentum.

Fig. 3. Anterior view of a specimen.

Page 160

Platyceras multispinosum.

Fig. 4. View of a cast of a very large specimen.

Page 166

Platyostoma lineata, var. callosa.

Fig. 5-7. Apertural, side and dorsal view of a specimen.

Page 184

Platyceras compressum.

Fig. 8, 9. Dorsal and posterior view of a specimen.

Page 162

Platyceras ventricosum.

Fig. 6[10]. Anterior view of a specimen.

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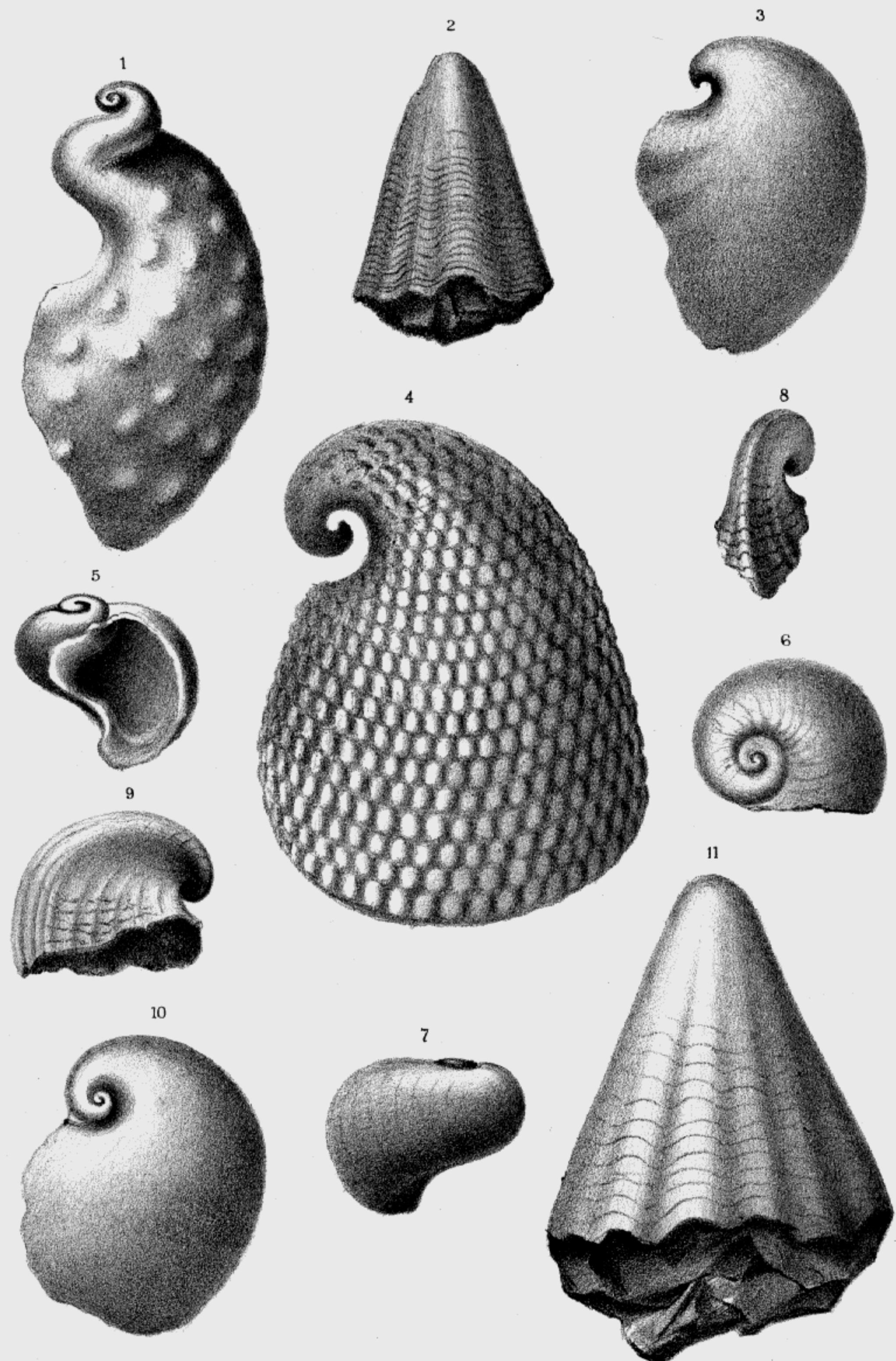


PLATE XXVI .

Lingula triangulata.

Fig. 1. Ventral view of a specimen.

Page 34

Spirifera medialis.

Fig. 2-5. Cardinal, ventral, dorsal and profile view of a specimen.

Page 125

Rhynchonella acinus.

Fig. 6, 13, 14. Dorsal, profile and front view of a specimen.

[13 and 14 are upper and lower unnumbered figures.]

Page 73

Productella semiglobosa.

Fig. 7. Ventral view of a specimen.

Page 70

Murchisonia desiderata.

Fig. 8. View of an internal cast of a specimen, which is entirely covered by an incrusting coral, studded with somewhat irregularly distributed tubercles.

Page 169

Bucania devonica.

Fig. 9. View of an internal cast.

Page 160

Modiomorpha alta.

Fig. 10. Left view of a specimen.

Page 217

Pleurotomaria casii.

Fig. 11. Dorsal view of a specimen.

Page 171

Pleurotomaria arabella.

Fig. 12. Apertural view of an internal cast retaining a small portion of the test.

Page 171

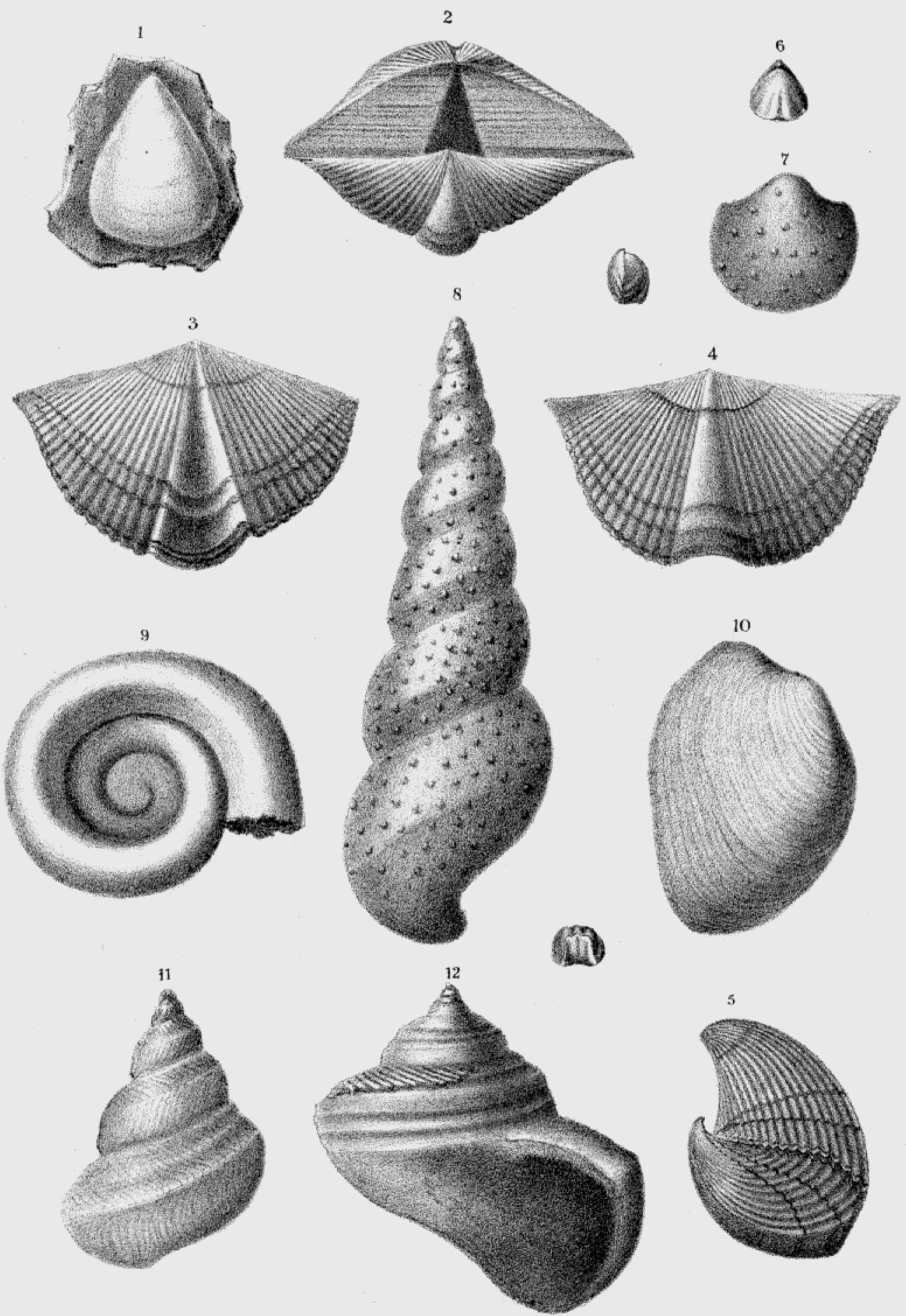


PLATE XXVII.

Orthis rugaeplacata.

Fig. 1-3. Dorsal, profile and ventral view of a specimen. Page 44

Orthis nisia.

Fig. 4, 5. Ventral and profile view of a specimen. Page 42

Cyrtia exorrecta.

Fig. 6, 7, 8, 20. Dorsal, front, cardinal and profile view of specimen. Page 93

Rhynchonella stricklandi.

Fig. 9-11. Dorsal, profile and ventral view of a specimen. Page 81

Pentamerus littoni.

Fig. 12, 13. Dorsal and profile view of a specimen. Page 58

Pentamerus complanatus.

Fig. 14. Cardinal view of a specimen. Page 53

Fig. 15, 16. Dorsal view of two specimen, showing variations in size.

Spirifera rostellum.

Fig. 17-19. Dorsal, ventral and front view of a specimen. Page 129

Cyrtia exorrecta, var. arrecta.

Fig. 21. Profile view of a specimen.

Page 94

Rhynchonella saffordi.

Fig. 22-24. Dorsal, front and profile view of a specimen.

Page 79

Pentamerus nucleus.

Fig. 25-27. Front, profile and dorsal view of a specimen.

Page 59

Fig. 28. An enlargement of a portion of surface of test.

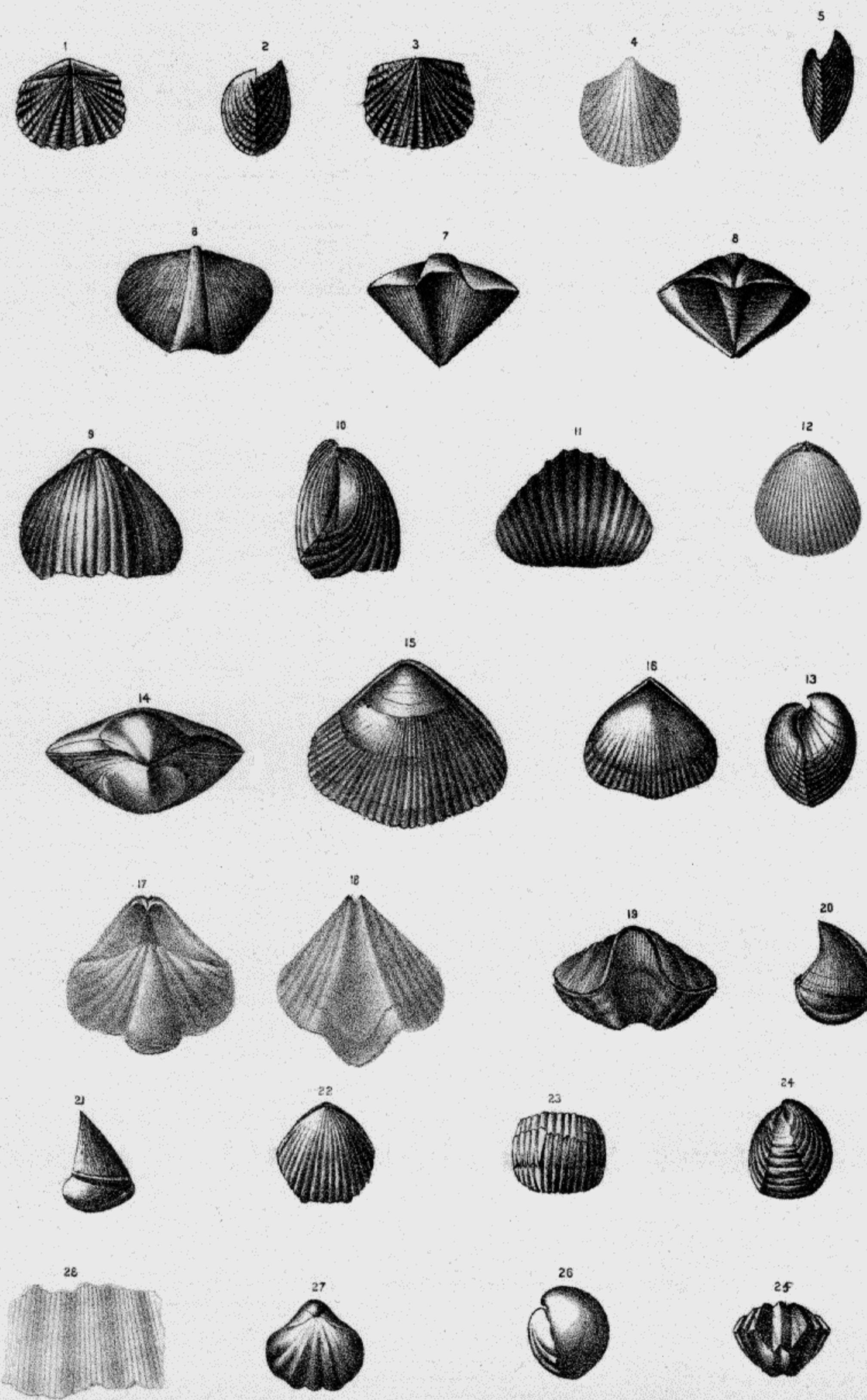


PLATE XXVIII.

Pentamerus knappi.

Fig. 1-4. Dorsal, ventral, profile and cardinal view of a specimen.

Page 55

Pentamerus nysius, var. crassicostus.

Fig. 5-8. Profile, cardinal, dorsal and ventral view of a specimen.

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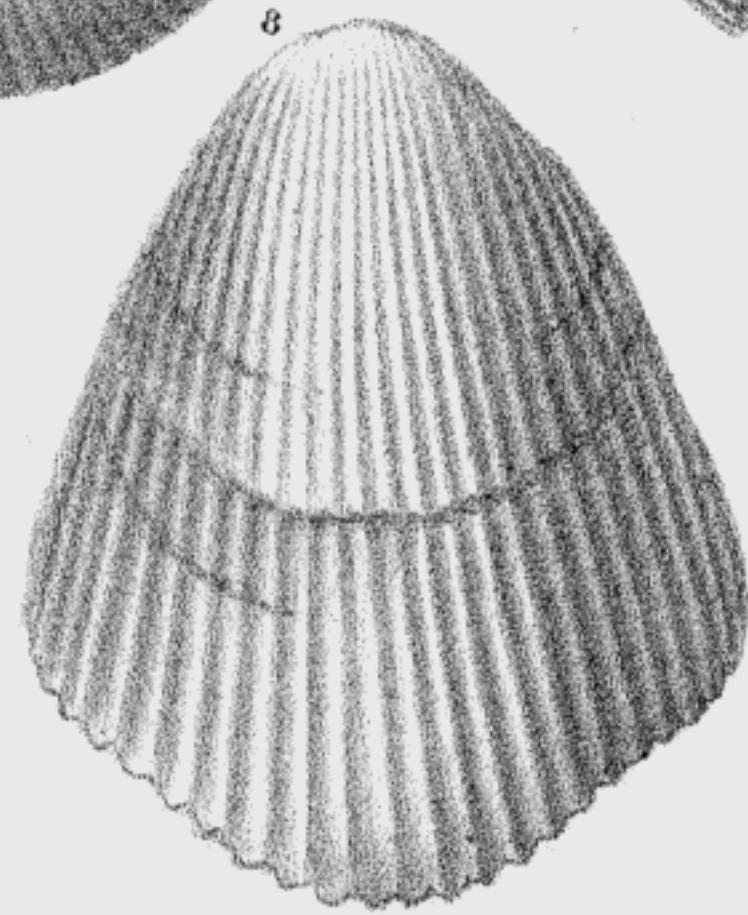
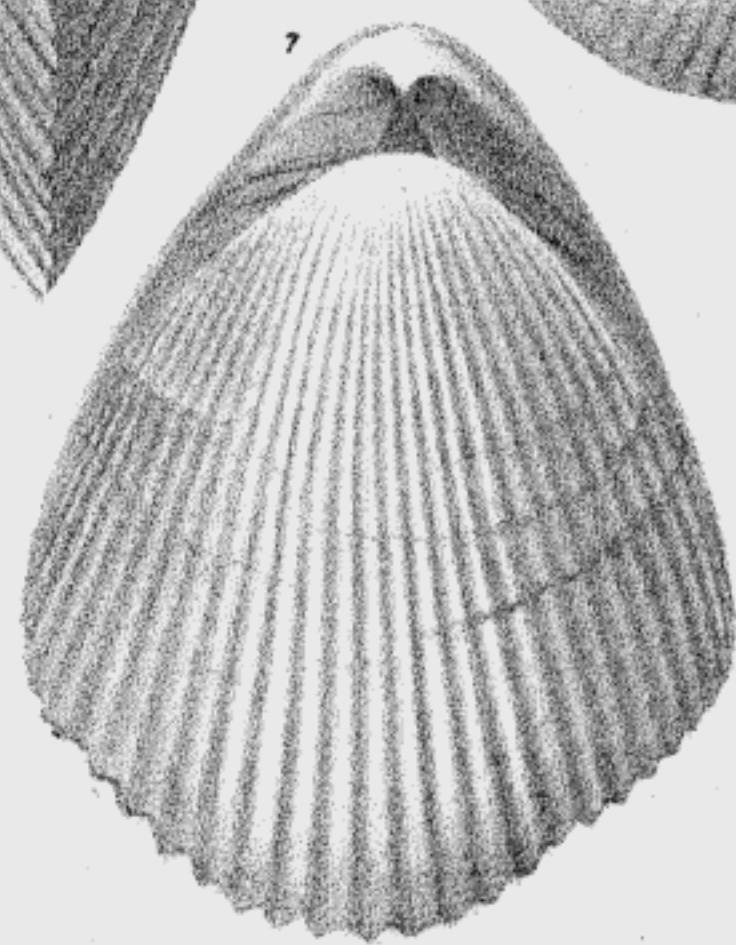
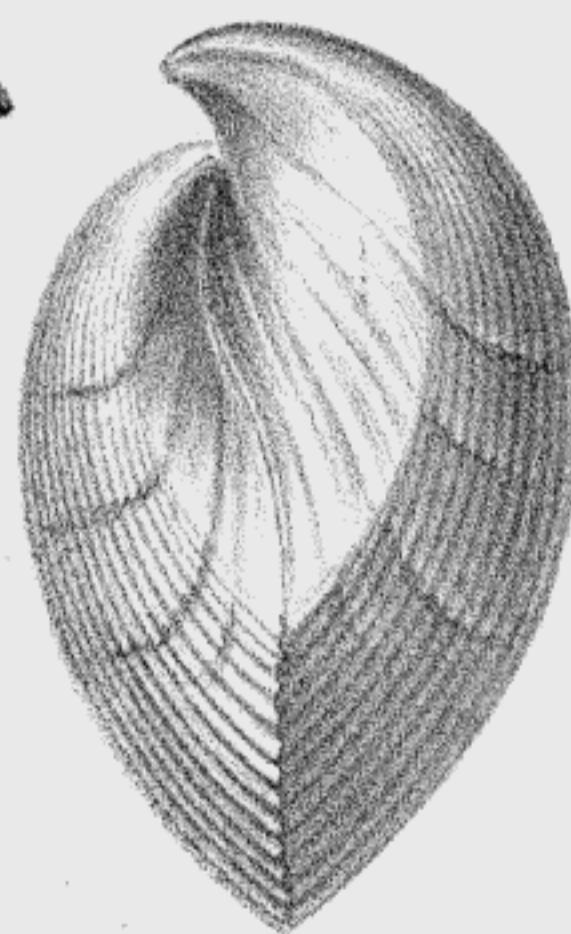
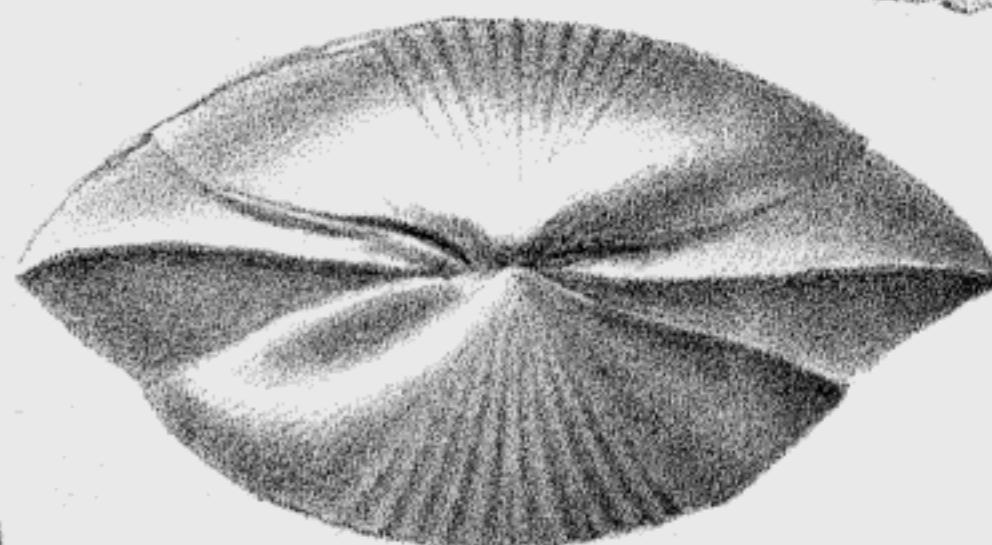
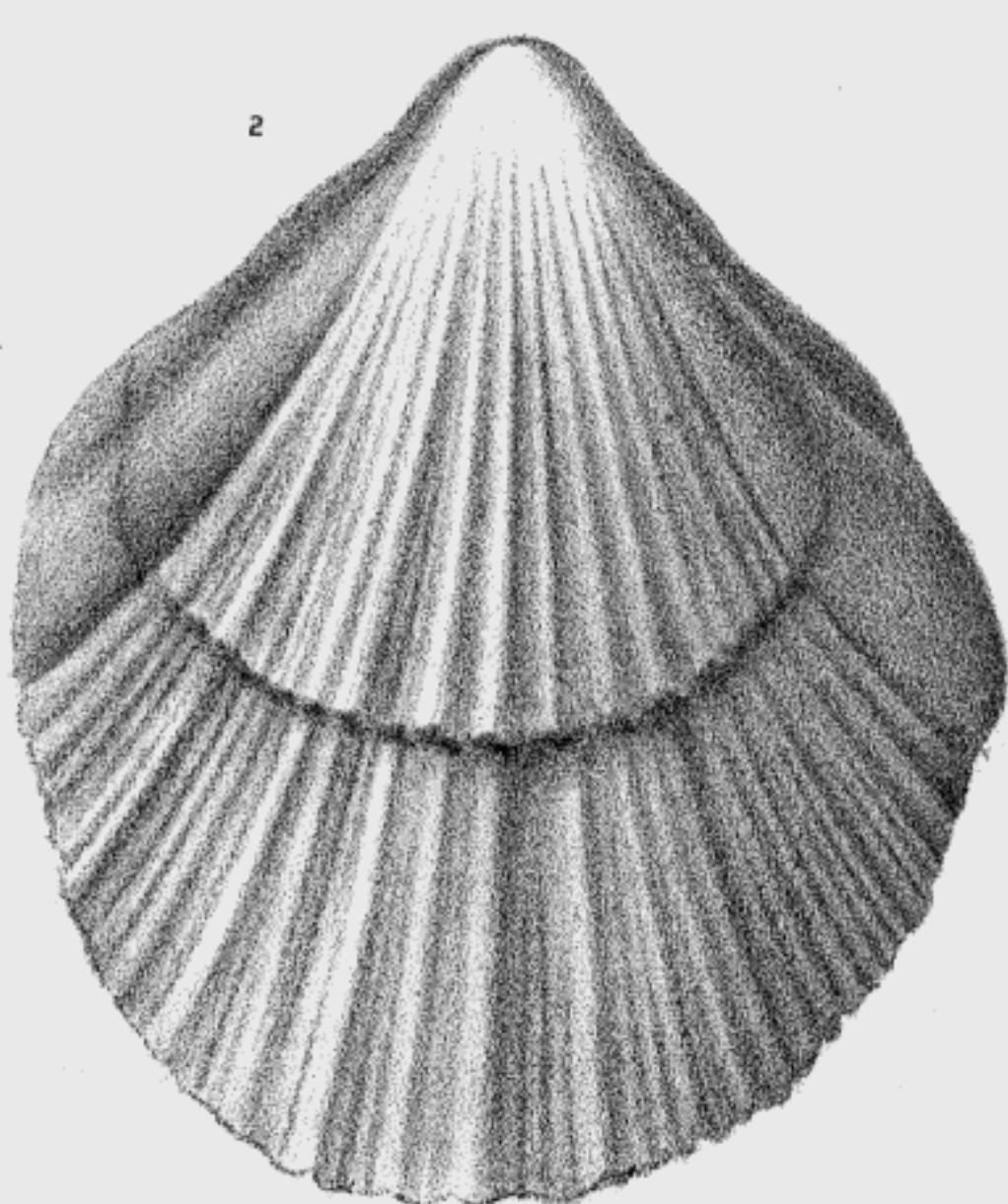
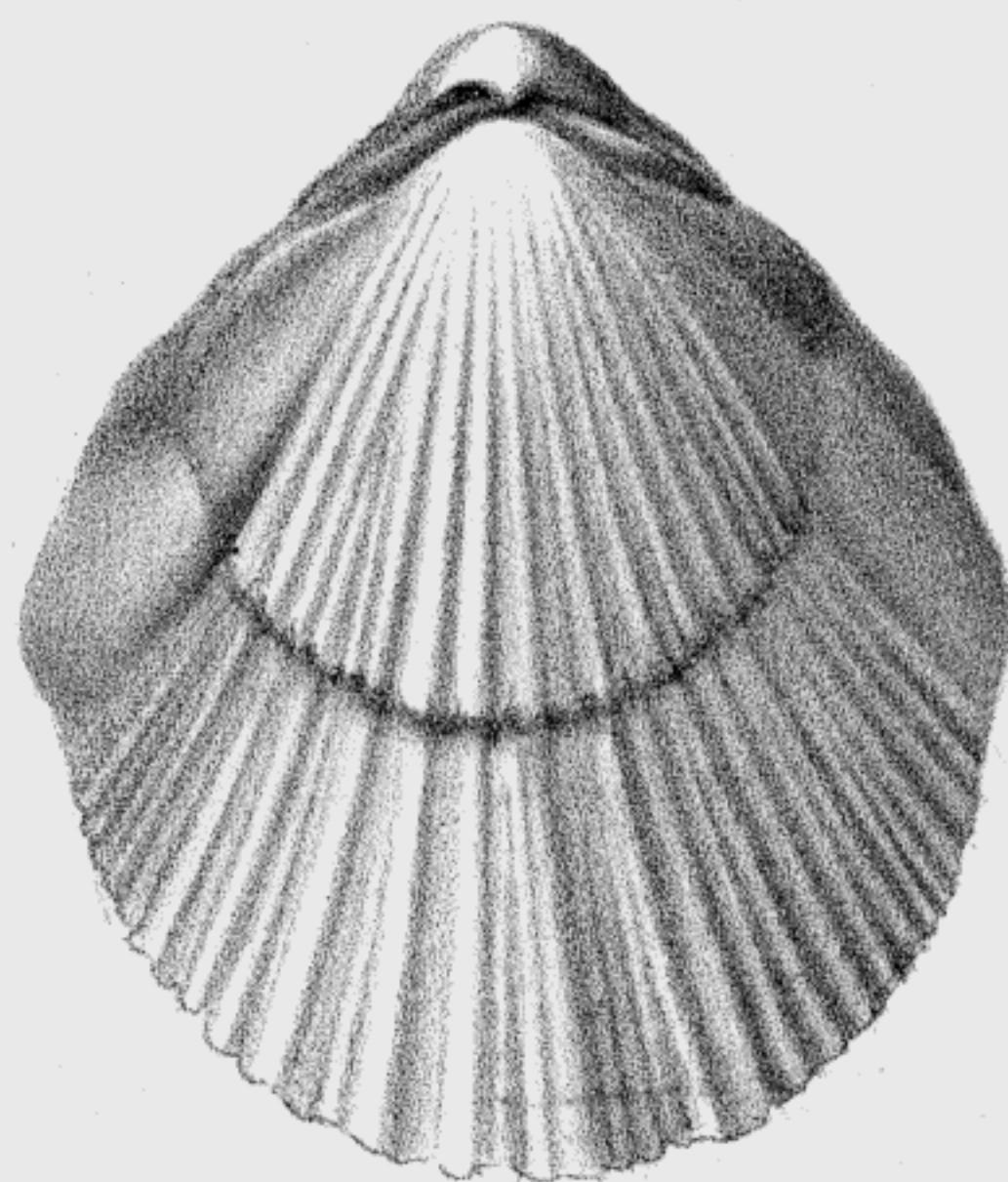


PLATE XXIX.

Pentamerus knighti.

Fig. 1, 2. Dorsal and profile view of a specimen. Page 51
Fig. 17. Profile view of an unusually large specimen.

Rhynchonella stricklandi.

Fig. 3-6. Dorsal, cardinal, profile and front view of a specimen. Page 81

Meristina maria.

Fig. 7-10. Dorsal, ventral, profile and front view of a specimen. Page 101

Streptorhynchus subplanus.

Fig. 11, 12. Profile and ventral view of a specimen. Page 141

Spirifera radiata.

Fig. 13-16. Dorsal, ventral, profile and cardinal view of a specimen. Page 130

Orthis biforata.

Fig. 18-22. Ventral, profile, dorsal, front and cardinal view of a specimen Page 35

Pentamerus pergibbosus.

Fig. 23, 24. Profile and dorsal view of a specimen. Page 62

Spirifera rostellum.

Fig. 25. Dorsal view of a specimen. Page 129

Strophodonta profunda.

Fig. 26. Ventral view of a specimen. Page 148

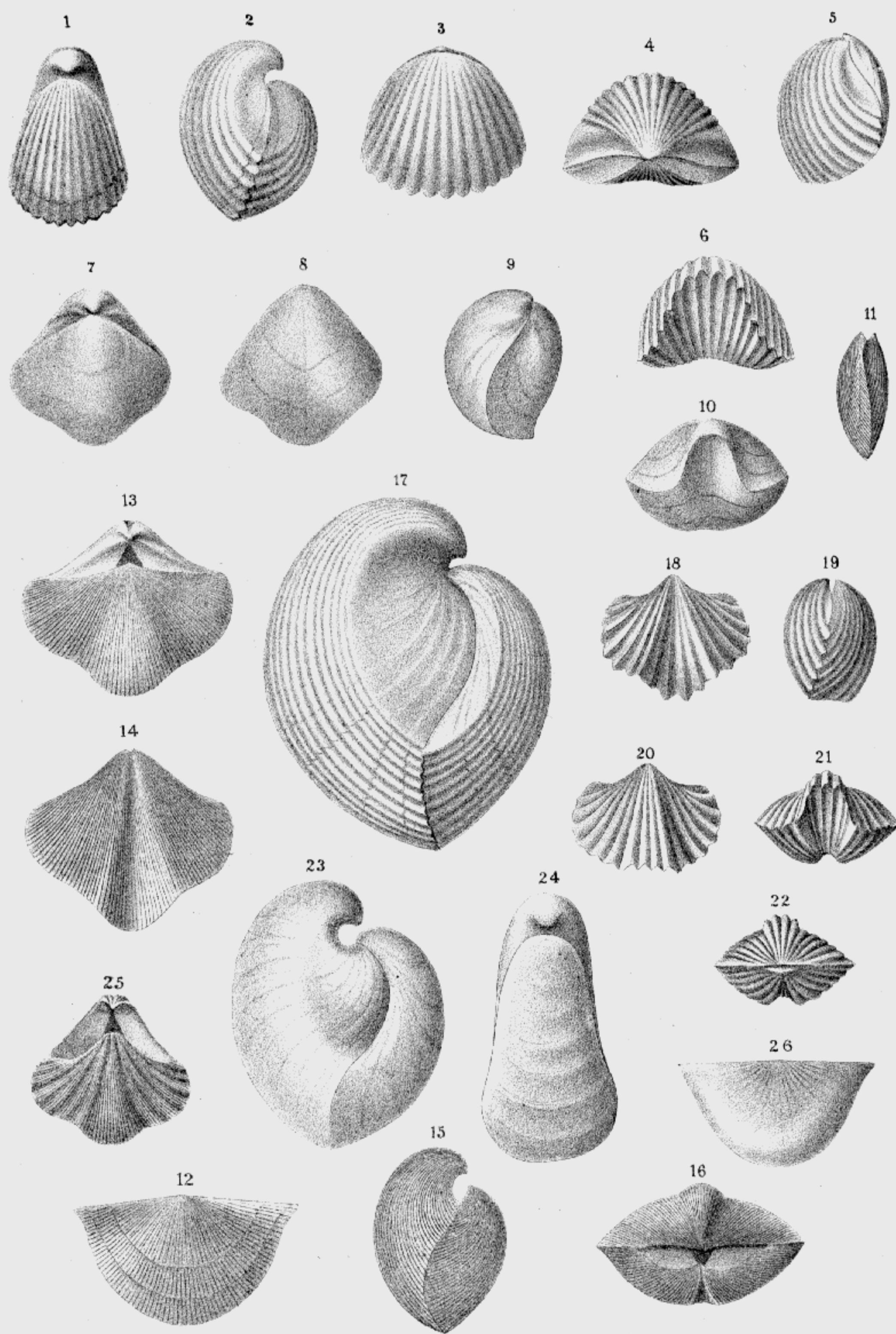


PLATE XXX.

Lituites marshi.

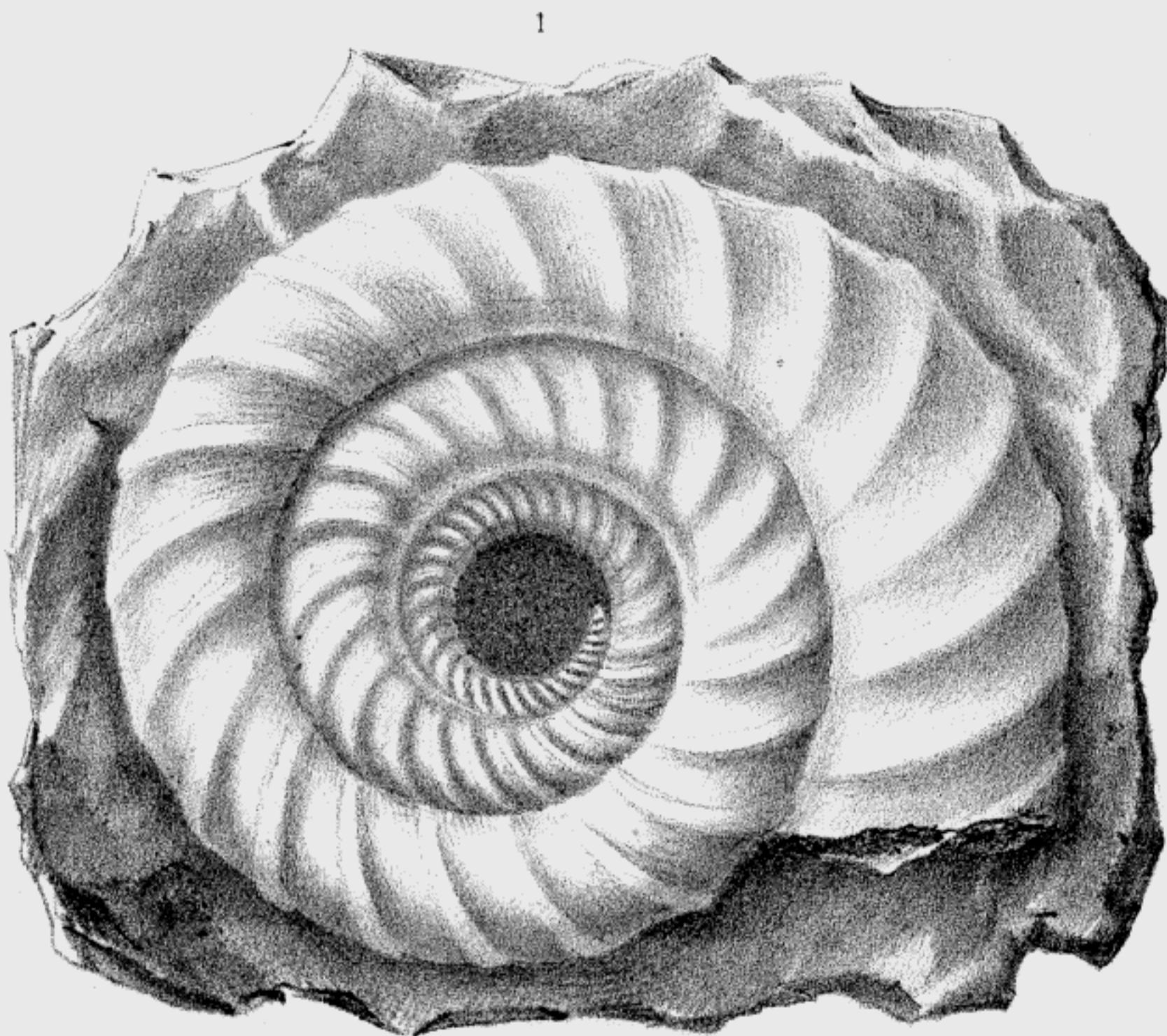
Fig. 1. Anterior view of a specimen.

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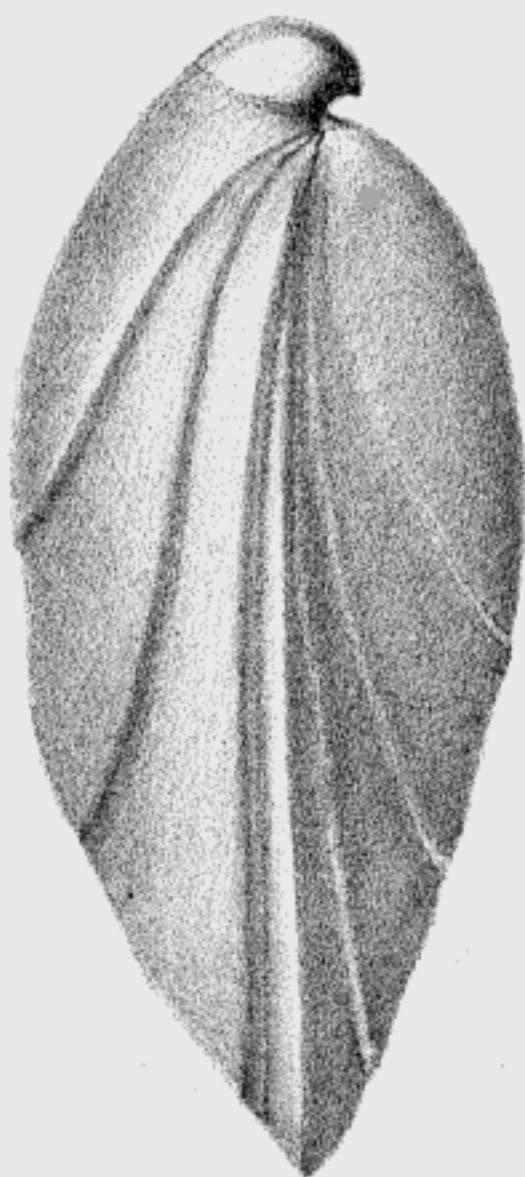
Pentamerus oblongus, var. cylindricus

Fig. 2-4. Profile, dorsal and ventral view of a specimen.

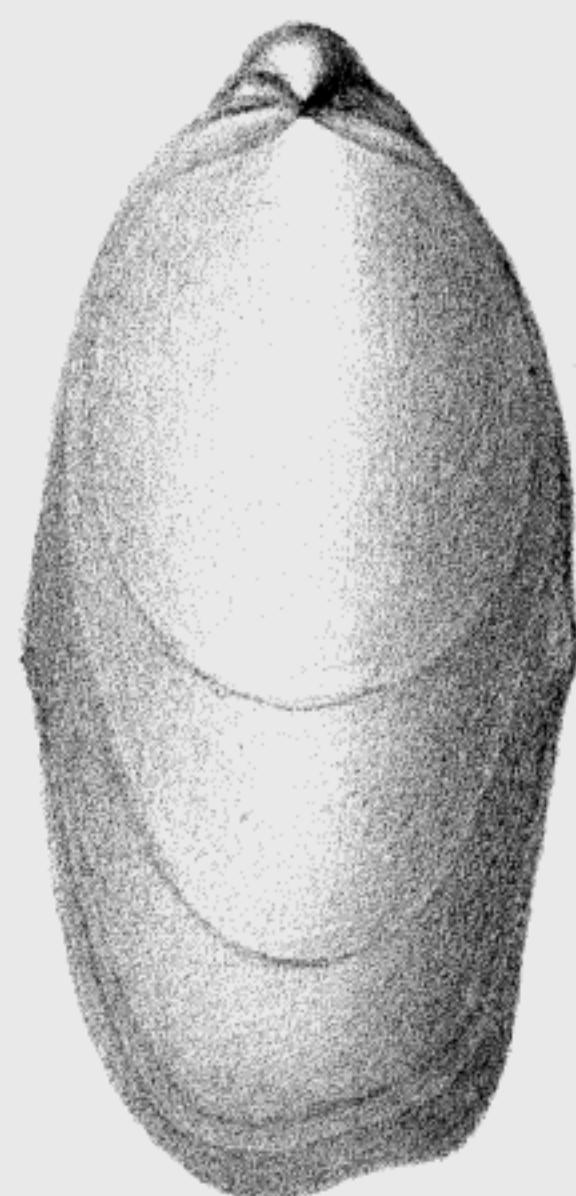
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2



3



4

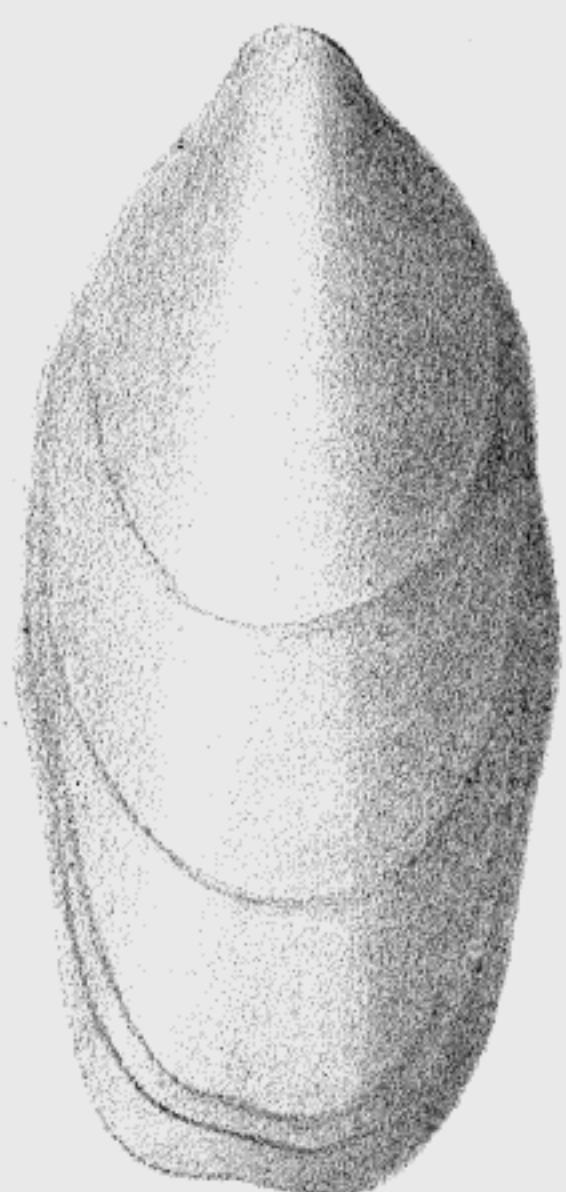


PLATE XXXI.

Rhynchonella louisvillensis.

Fig. 1-4. Dorsal, ventral, front and profile view of a specimen.

Page 77

Murchisonia petilla. [petila]

Fig. 5. View of an internal cast.

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170

Rhynchonella gainesi.

Fig. 6, 7. Dorsal view of two specimens.

Page 76

Fig. 8, 9. Front and ventral view of a specimen.

Spirifera mucronata.

Fig. 10, 11. Ventral and dorsal view of a specimen.

Page 126

Tentaculites scalariformis.

Fig. 12. View of a specimen, enlarged xi[twice].

Page 156

Spirifera sculptilis.

Fig. 13. Ventral view of a valve.

Page 132

Centronella glans-fagea.

Fig. 14-17. Front, profile, dorsal and ventral view of a specimen.

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Paracyclas octerlonii.

Fig. 18. Left view of a specimen.

Page 212

Chonetes yandelliana.

Fig. 19, 20. Ventral and profile view of a specimen.

Page 68

Fig. 30. Transverse section of a specimen.

Platyceras echinatum.

Fig. 21. Side view of a specimen.

Page 164

Rhynchonella tethys.

Fig. 22-25. Dorsal, profile, front and ventral view of a specimen.

Page 83

Pentamerella thusnelda.

Fig. 26-28. Profile, dorsal and ventral view of a specimen.

Page 51

Loxonema hamiltoniae.

Fig. 29. View of a rather perfect specimen.

Page 177

Streptorhynchus arctostriata

Fig. 31-33. Cardinal, ventral and dorsal view of a specimen.

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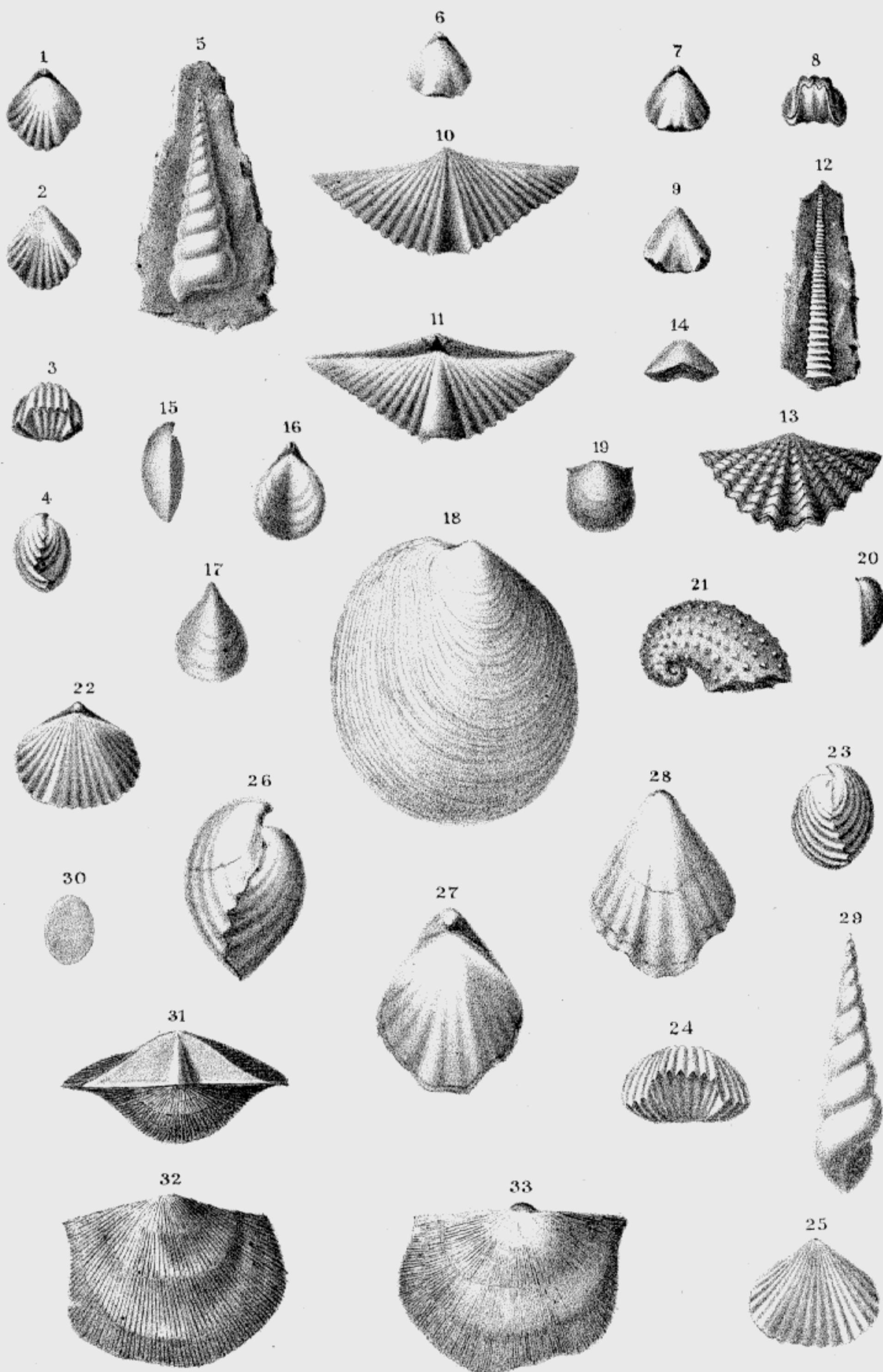


PLATE XXXII.

Nucleospira concinna.

Fig. 1-4. Dorsal, ventral, front and profile view of a specimen.

Page 103

Atrypa reticularis, var. niagarensis.

Fig. 5-8. Profile, dorsal, front and ventral view of a specimen.

Page 92

Fig. 44-47. Dorsal, ventral, profile and front view of a specimen, showing variation in size.

Pentamerus knotti.

Fig. 9-12. Dorsal, profile, ventral and front view of specimen.

Page 56

Rhynchonella acinus.

Fig. 13-16. Dorsal, ventral, profile and front view of a specimen.

Page 73

Anastrophia internascens.

Fig. 17-20. Dorsal, ventral, front and profile view of a specimen.

Page 47

Leptocoelia hemispherica,

Fig. 21-23. Dorsal, ventral and profile view of a specimen.

Page 152

Fig. 36-39. Profile, front, ventral and dorsal view of a larger specimen.

Rhynchonella pisa.

Fig. 24-27. Profile, dorsal, ventral and front view of a specimen.

Page 78

Spirifera foggi.

Fig. 28-31. Dorsal, front, ventral and profile view of a specimen.

Page 117

Orthis hybrida.

Fig. 32-35. Dorsal, ventral, front and profile view of a specimen.

Page 39

Trematospira helena.

Fig. 40-43. Dorsal, ventral, profile and front view of a specimen.

Page 137

Rhynchonella rugaecosta.

Fig. 48-51. Dorsal, front, ventral and profile view of a specimen; all
enlarged xi. [twice]

Page 78

Orthis elegantula.

Fig. 52-57. A series of specimens showing variations in size.

Page 37

**Rhynchonella [Rhynchotreta] cuneata, var.
americana.**

Fig. 58, 59. Dorsal and ventral view of a specimen.

Page 85

Fig. 62, 63. Front and profile view of a specimen.

Cyrtia exorrecta, var. arrecta.

Fig. 60, 61. Profile and cardinal view of a specimen.

Page 94

Atrypa calvini.

Fig. 64-66. Profile, ventral and dorsal view of a specimen.

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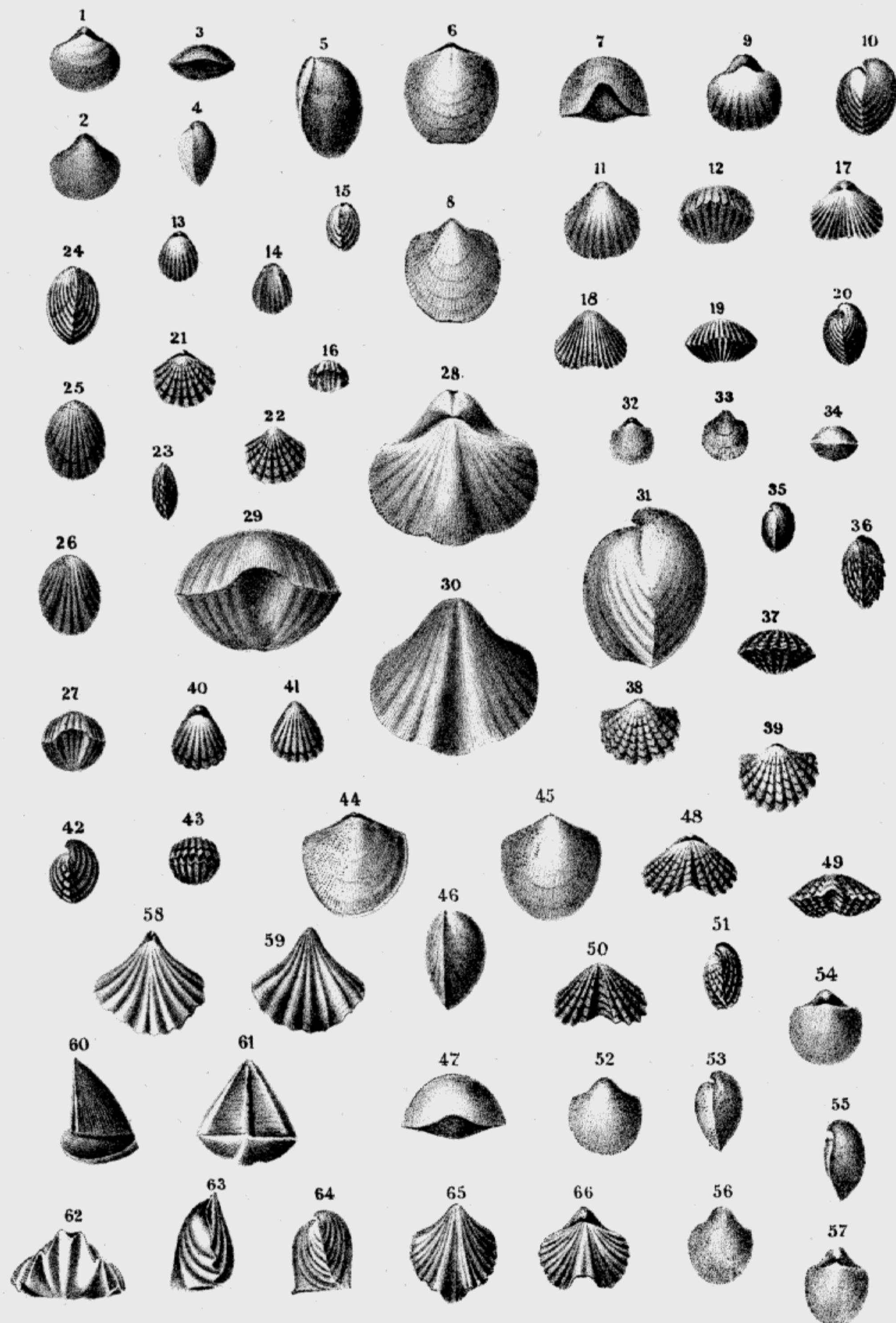


PLATE XXXIII.

Rhynchonella saffordi, var. depressa.

Fig. 1-3. Dorsal, ventral and profile view of a specimen.

Page 80

Rhynchonella saffordi.

Fig. 4-6. Profile, dorsal and ventral view of a specimen.

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Nucleospira pisiformis.

Fig. 7-9. Profile, dorsal and ventral view of a specimen.

Page 104

Meristina nitida.

Fig. 10, 11. Dorsal and profile view of a specimen.

Page
102

Pentamerus ventricosus.

Fig. 12-14. Dorsal, profile and ventral view of a specimen.

Page 64

Pentamerus oblongus.

Fig. 15-17. Dorsal, profile and ventral view of a specimen.

Page 60

Rhynchonella indianensis.

Fig. 18-20. Dorsal, ventral and profile view of a specimen.

Page 76

Cyclonema rugaelineata.

Fig. 21. Anterior view of a partly exfoliated specimen.

Page 187

Strophodonta demissa.

Fig. 22. Ventral view of a specimen.

Page 143

Spirifera dubia.

Fig. 23, 24. Dorsal and profile view of a specimen

Page 115

Pentamerus uniplicatus.

Fig. 25, 26. Dorsal view of a specimen

Page 63

Pentamerus nucleus.

Fig. 27-29, 31-33. A series of specimens showing variation in size.

Page 59

Platyostoma niagarensse.

Fig. 30. Vertical view of a young specimen.

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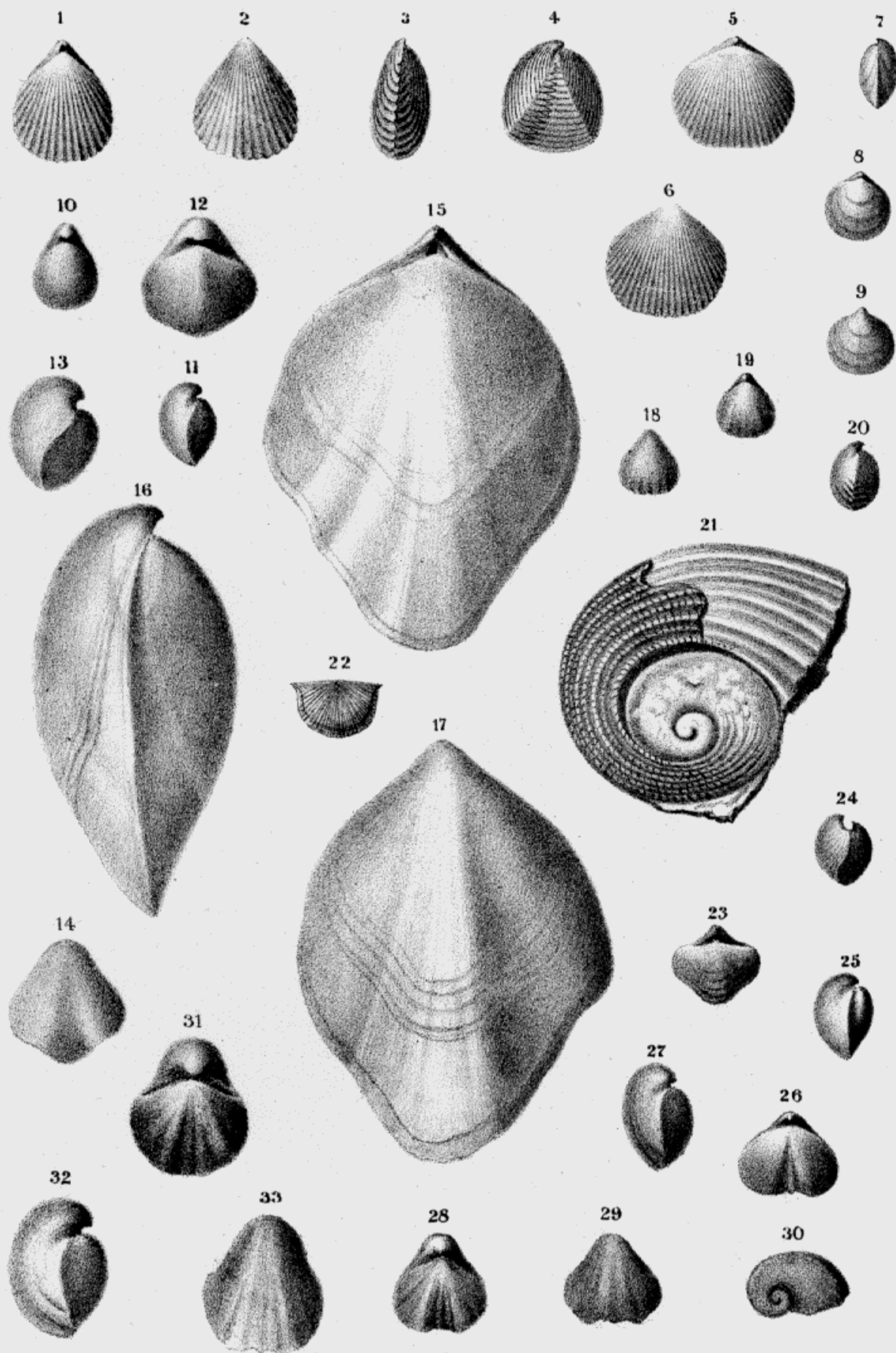


PLATE XXXIV.

Cypricardites halli.

Fig. 1-6. A series of specimens showing variation in size and form.

Page
206

Orthis linneyi.

Fig. 7-13. A series of specimens showing variation in size and form.

Page 41

Orthis borealis.

Fig. 14-20. A series of specimens showing variation in size and form.

Page 36

Zygospira kentuckiensis.

Fig. 21-25. A series of specimens showing variation in size and form.

Page 138

Rhynchonella increbescens [capax].

Fig. 26-29. Dorsal, ventral, front and profile view of a specimen.

Page 83

Orthis flabellum [flabellulum].

Fig. 30. Dorsal view of a specimen.

Page 38

Stricklandinia louisvillensis.

Fig. 31-34. Ventral, dorsal, profile and cardinal view of a specimen.

Page 65

Cyrtia exorrecta, var. arrecta.

Fig. 35. Cardinal view of a specimen.

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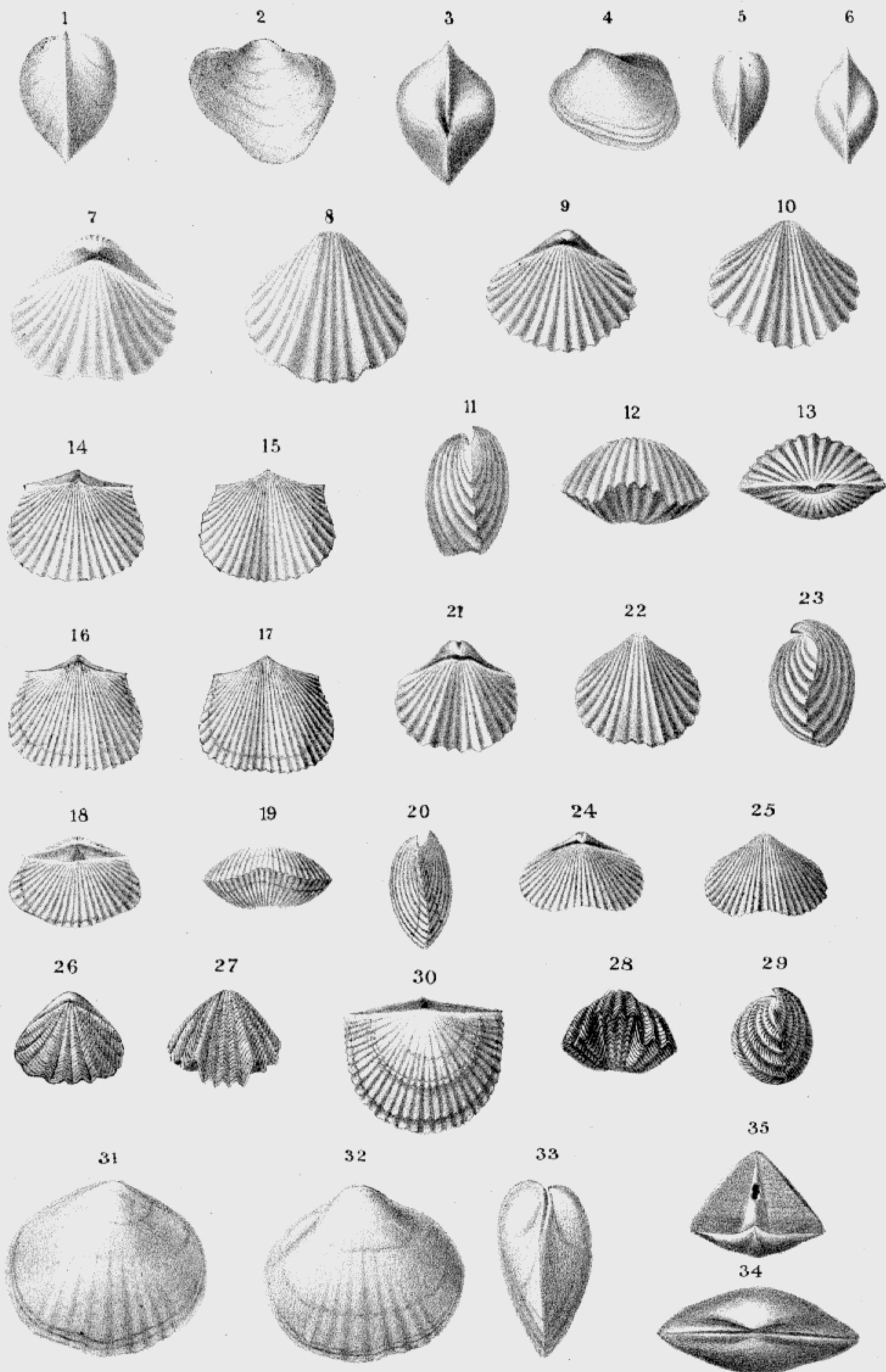


PLATE XXXV.

Ptilodictya hilli.

Fig. 1. Transverse section of a specimen.

Page 30

Fig. 2. View of an unusually large front.

Fig. 4. A portion of a frond enlarged.

Fig. 5. View of a small, imperfect frond.

Brachiospongia digitata.

Fig. 3. Basal view of an unusually perfect specimen.

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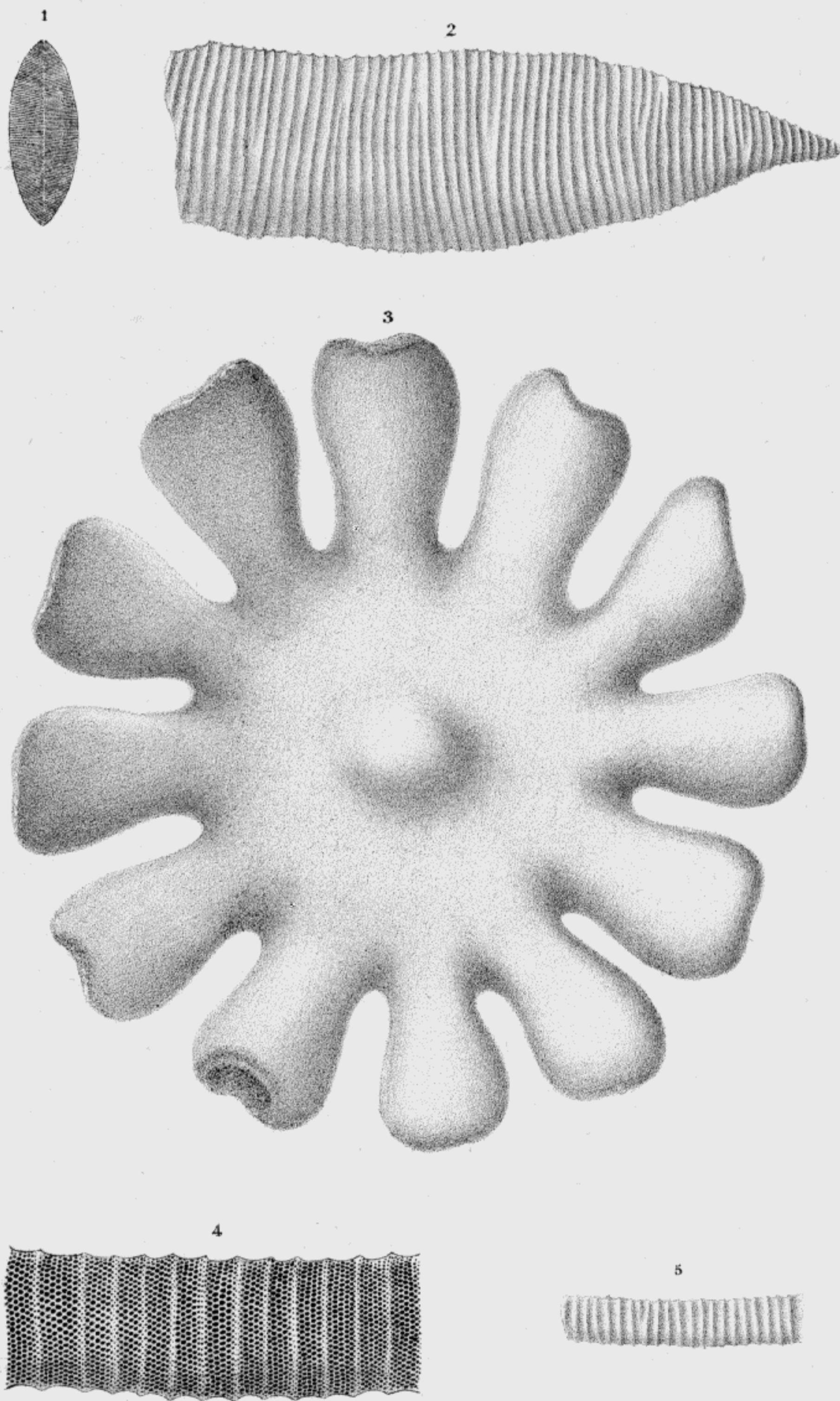


PLATE XXXVI.

Brachiospongia digitata.

Fig. 1. Front view of the specimen figured on Plate XXXV.
Fig. 2. Summit view of the same.

Page 29

