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ATLAS.
MOLLUSCA AND SHELLS.

BY

AUGUSTUS A. GOULD, M.D.,

FELLOW OF THE AMERICAN ACADEMY OF ARTS AND SCIENCES; AND OF THE AMERICAN PHILOSOPHICAL SOCIETY;
MEMBER OF THE ACADEMY OF NATURAL SCIENCES AT PHILADELPHIA; OF THE
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PLATE 40.

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Fig. 565. MYTILUS DIVARICATUS, lateral, and 565 *a*, dorsal views of the shell.—p. 449.

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Fig. 570. PECTEN HERICUS, the upper valve; 570 *a*, the lower valve; 570 *b*, edge view of the shell; 570 *c*, details of sculpture, upper valve.—p. 457.

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PLATE 43.

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PLATE 44.

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Fig. 585. MYTILUS (Modiolarea) PUSILLUS, lateral, 585 *a*, dorsal, and 585 *b*, hinge views of the shell, enlarged; 585 *c*, natural size.—p. 455.

Fig. 586. ERYCINA (Kellia) QUADRATA, lateral, and 586 *a*, dorsal views of the shell; 586 *b*, the hinge, magnified; 586 *c*, natural size.—p. 402.

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PLATE 45.

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Fig. 586*. OCTOPUS MEGALOCYATHUS, dorsal, and 586 *a*, ventral views of the animal, reduced; 586 *b*, mouth and circle of arms, with the arrangement of the cupules; 586 *c*, cupule, from above; 586 *d*, lateral view of a cupule.—p. 471.

PLATE 46.

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PLATE 48.

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PLATE 49.

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PLATE 50.

Fig. 595. ONYCHOTEUTHIS RUTILUS, dorsal, and 595 *a*, ventral views of the animal; 595 *b*, mouth, and circle of arms; 595 *c*, cupule, from above; 595 *d*, ranges of cupules; 595 *e*, hook capsules of the tentacular arms.—p. 482.

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PLATE 51.

Fig. 597. ATLANTA PRIMITIA, shell and animal, magnified; 597 *a*, the head and proboscis, much magnified; 597 *b*, natural size; 597 *c*, thoracic tube and sac; 597 *d*, section of the shell.

DETAILS. *a*. The eye, a transparent globe, resting on a dark base. *b*. Bag and tube, hanging free externally. *c*. Mouth, the tube below enlarging into a stomach. *d*. Intestine. *e*. Ovate organ, probably the heart, beating regularly when the head is exerted, but not observed in action when the head is retracted. *f*. Lamella, facing the beak. *g*. Two small plates on the lateral lunella, *h*. *i*. Fleshy antennæ. *k*. Tube, connected with the bag *b*, having vibratile ciliæ at the aperture.

Fig. 598. ATLANTA CUNICULA, the animal and shell, magnified; 598 *a*, the head, still more enlarged; 598 *b*, the cervical ganglion and its branches; 598 *c*, natural size.

DETAILS. *a*. Cephalic ganglion. *b*. Otolithes (?). *c*. Alimentary canal. *d*. Abdominal nerve. *e*. Nerve to the thoracic ganglion.

Fig. 599. ATLANTA VIOLACEA, lateral, and 599 *a*, superior views of the shell, enlarged; 599 *b*, natural size.

Fig. 600. ATLANTA TESSELLATA, lateral, and 600 *a*, dorsal views of the shell, enlarged; 600 *b*, natural size.

Fig. 601. LIMACINA (?) CUCULLATA, right, 601 *a*, left views of the shell; 601 *b*, view of the shell, with the animal.

Fig. 602. LIMACINA SCAPHOIEEA, lateral, and 602 *a*, longitudinal views of the shell and animal, magnified; 602 *b*, natural size.

Fig. 603. HYALEA FEMORATA, shell, with the animal, expanded.

Fig. 604. HYALEA INERMIS, shell, with the animal; 604 *a*, ventral, and 604 *b*, lateral views of the shell.

Fig. 605. CLEODORA EXACUTA, shell and animal, enlarged; 605 *a*, transverse section of the shell; 605 *b*, natural size.

Fig. 606. CLEODORA PLACIDA, front view of the shell and animal, enlarged; 606 *a*, natural size.

Fig. 607. CLEODORA MUNDA, front view of the animal and shell, enlarged; 607 *a*, lateral view of the same; 607 *b*, natural size.

Fig. 608. CLEODORA FALCATA, shell, with the animal, enlarged; 608 *a*, natural size.

PLATE 52.

Fig. 609. CYNITHIA AMPHORA.

Fig. 610. PHALLUSIA VIOLACEA.

Fig. 611. ASCIDIA MONSTRANS, several figures, in various attitudes.

Fig. 612. BOLTENIA COACTA, lateral view.

Fig. 613. ASCIDIAN, attached to coral from Balabac Passage, Sooloo Sea; 613 *a*, an individual, magnified. (J. D. Dana.)

Fig. 614. BOTRYLLOID, of a fleshy texture, from Feejee Islands; soft, fleshy, eight points to stars; stars are openings, but open only half the diameter of the star; the openings appear large, but they are mostly covered by a very thin membrane; tentacles on sides of mass. Animal contracts immediately when approached within a few inches.

The stellar openings are mouths of distinct animals, each having its œsophagus and stomach; œsophagus has transverse folds (light-yellow color) in membrane; folds are not continuous in the tube, but are interrupted in two lines traversing the tube longitudinally, and are also partially flexed in two other bisecting lines; observed two large, deep-yellow masses, which appear to indicate distinct lobes to the cavity; the stomach is attached below to the inferior or basal membrane of the mass, the whole alimentary canal being nearly or quite vertical; no stomach, as far as could be seen, to the large general mouth; 614 *a*, detached portion; 614 *b*, œsophagus and stomach to the stellar mouths. A structure of this nature, seen in mouth and œsophagus, appears to be double; forming the œsophagus-tube, or attached to its inner surface; 614 *c*, natural size. (J. D. Dana.)

Fig. 615. EUCÆLIUM ERUBESCENS, G., of a spongy texture, attached to coral from Sooloo Sea. (J. D. Dana.)

Fig. 616. EUCÆLIUM —, from coral reef, Balabac Passage, Sooloo Sea; 616 *a*, enlarged view. (J. D. Dana.)

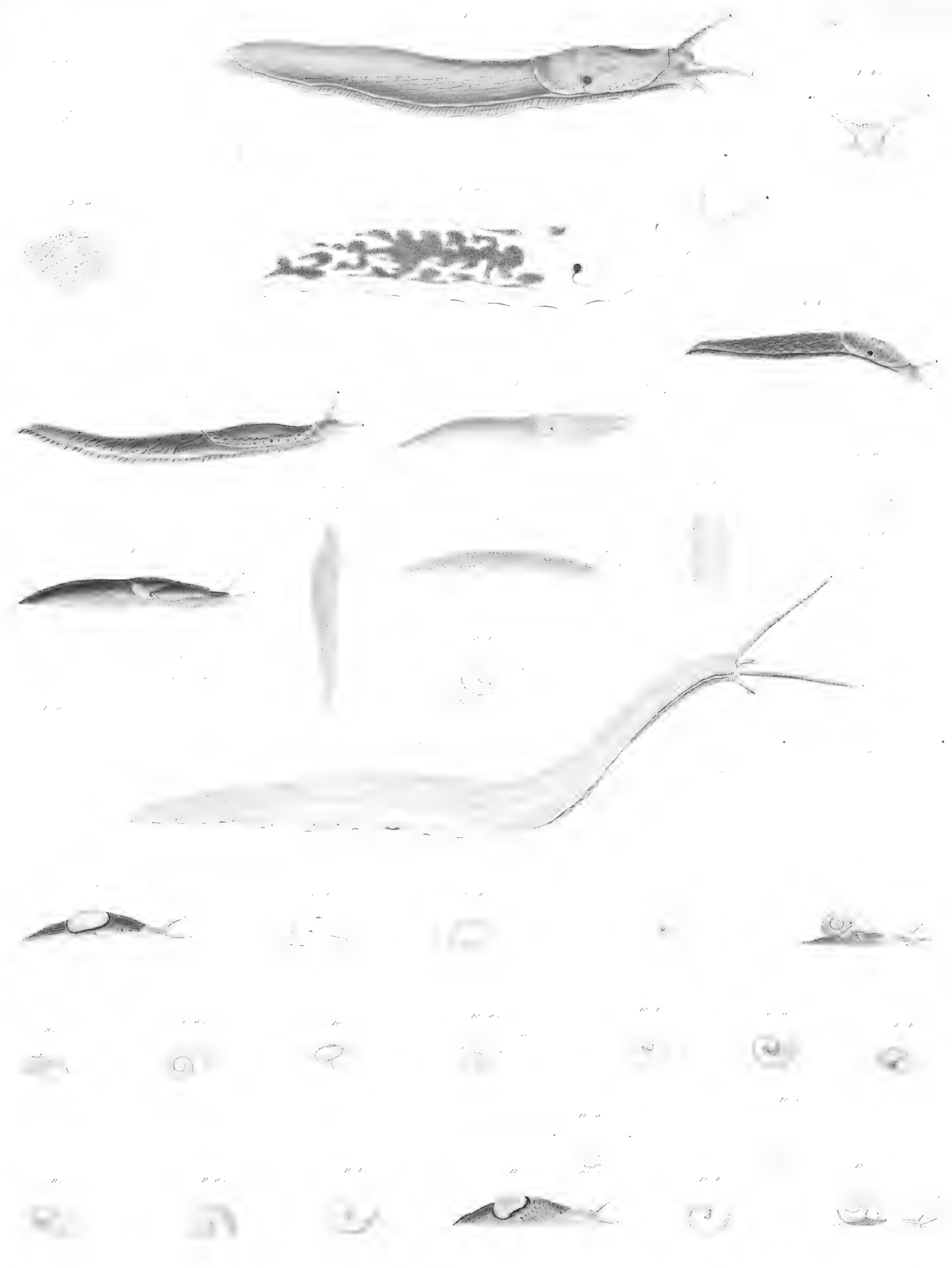
Fig. 617. EUCÆLIUM —, from Feejee Islands; surface minutely papillose; spongy substance contracts and closes the mouths and star openings when irritated; 617 *a*, natural size. (J. D. Dana.)

Fig. 618. EUCÆLIUM LIVIDUM, G., from Feejee Islands; mass without regular form; two or three mouths in the mass; numerous stellate openings; six-pointed stars; these openings the extremities of tubes, which may be traced into the mass nearly to —; texture of frond spongy and tough; the stellar openings contract when frond is irritated, but the large mouths still remain open even when needle ran into it; 618 *a*, enlarged drawing, showing the large mouth and some of the stellate openings at the extremity of the internal tubes; 618 *b*, the frond being torn in two, showed the exterior of the internal vessels connected with the stellar openings; the upper banded portion is the œsophagus; there are ten or eleven yellow bands; the lower portion is the stomach, and is deep yellow. (J. D. Dana.)

Fig. 619. DIACOMA (?) —, soft and fleshy, from Feejee Islands; 619 *a*, one of the small mouths, magnified, situated around the large central mouth. (J. D. Dana.)

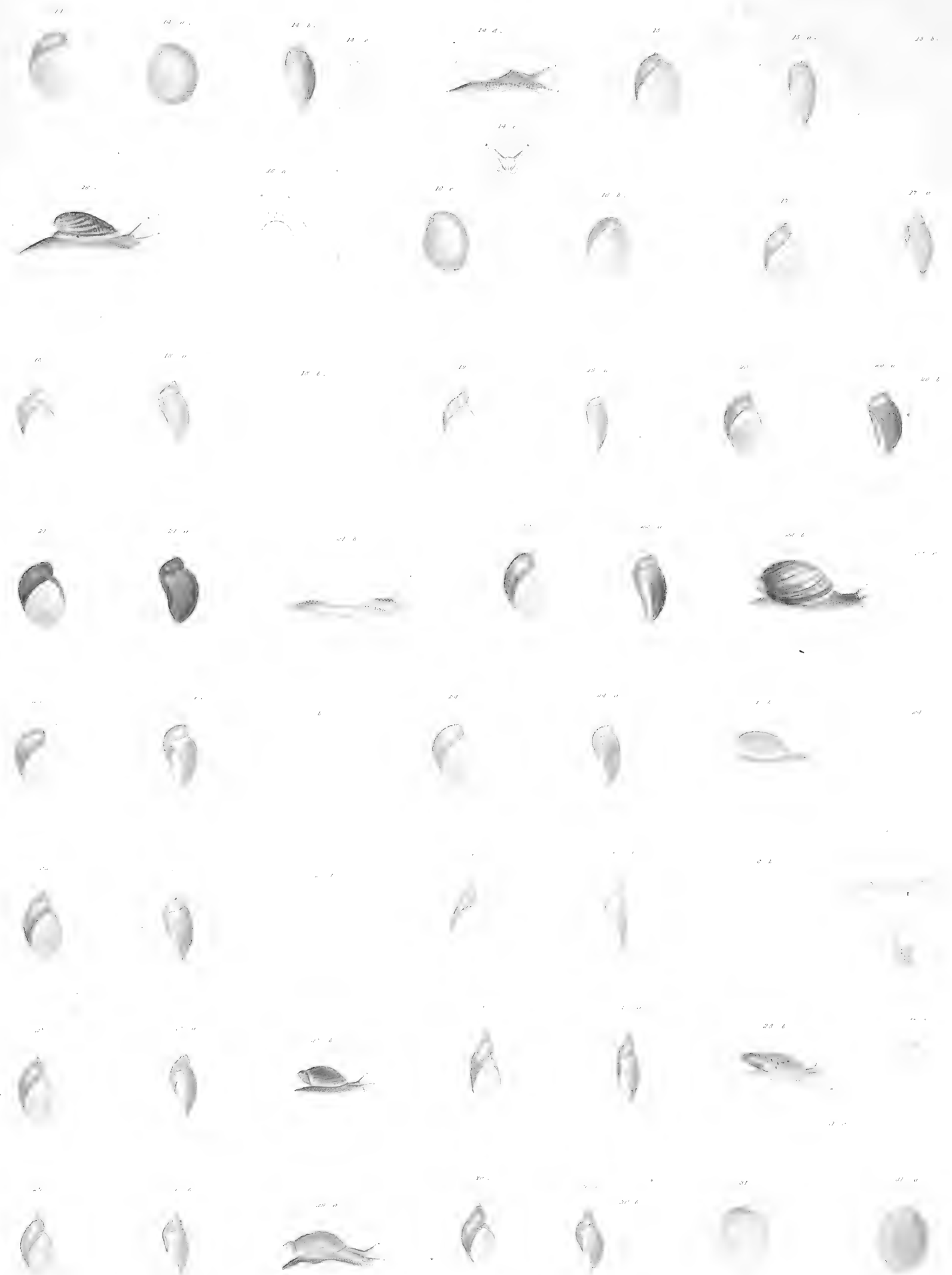
Fig. 620. POLYCLINUM —, from dead coral, Sandalwood Bay, Feejee Islands; 620 *a*, portion enlarged 25 diameters; it is of a spongy texture; a circle formed by six irregular white spots surrounds the mouth; three white points surround the mouth at the centre; these points sometimes exhibit motions; the mouth opens but very slightly, and contracts when irritated. (J. D. Dana.)

Fig. 621. NEPITHIS (?) —, dredged from about nine fathoms, Sooloo Sea; 621 *a*, *b*, front and lateral views of an individual, magnified.



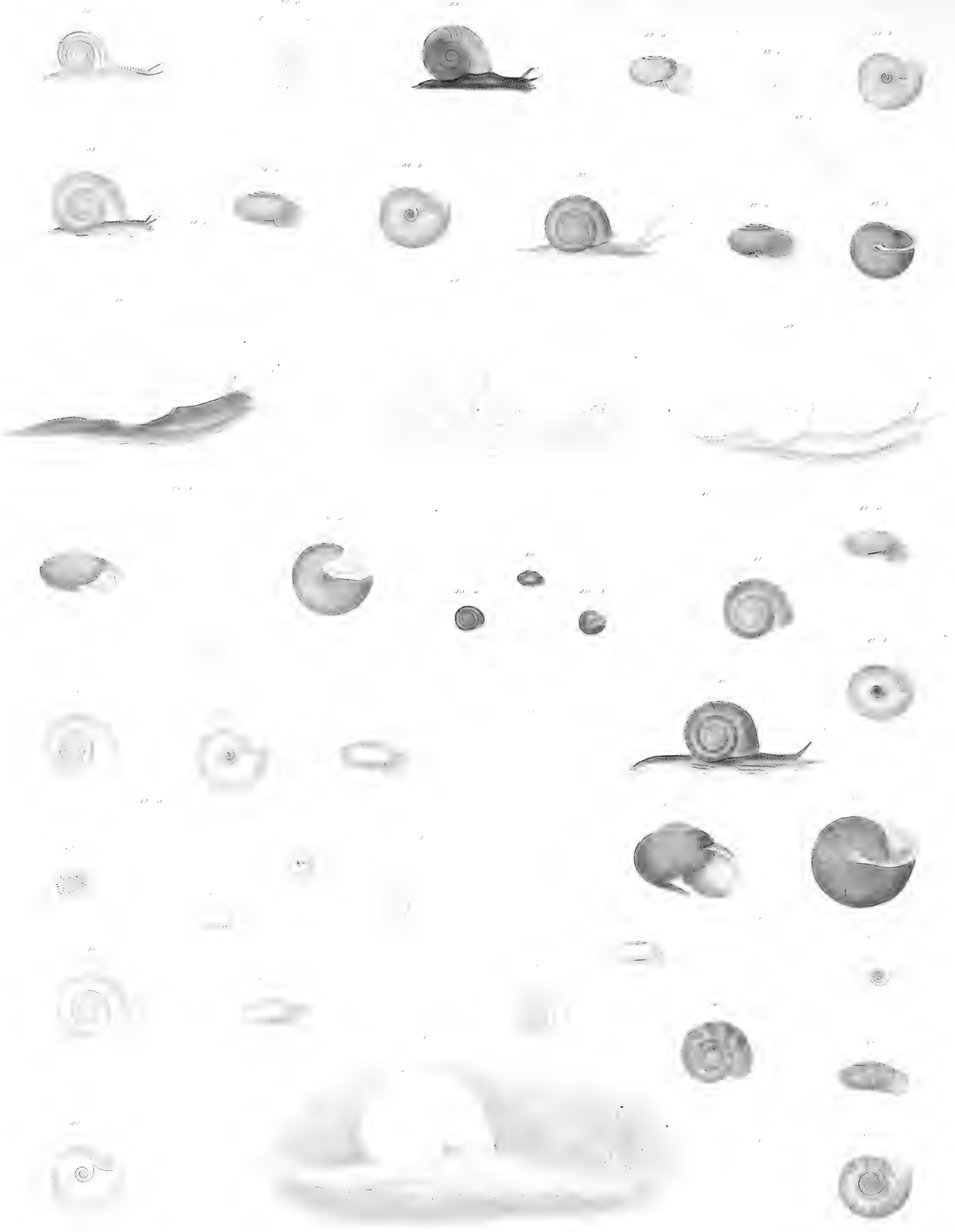
1 a c	<i>Limac. Columbianus</i> G.	5 a, b	<i>Vaginulus Tennesseus</i> Fer.	10 a c	<i>Vitrina tenella</i> G.
2 a, b	— <i>fibulatus</i> G.	6 a c	<i>Atheracephalus lobatoculatus</i> G.	11 a, b	— <i>robusta</i> G.
3 a, b	— <i>olivaceus</i> G.	7 a d	<i>Vitrina Buivensis</i> Cuth.	12 a c	— <i>maurula</i> G.
4 a	— <i>fuliginosus</i> G.	8 a, b	— <i>nitida</i> G.	13	— <i>larva</i> Lenz.
		9 a	— <i>capitata</i> G.		





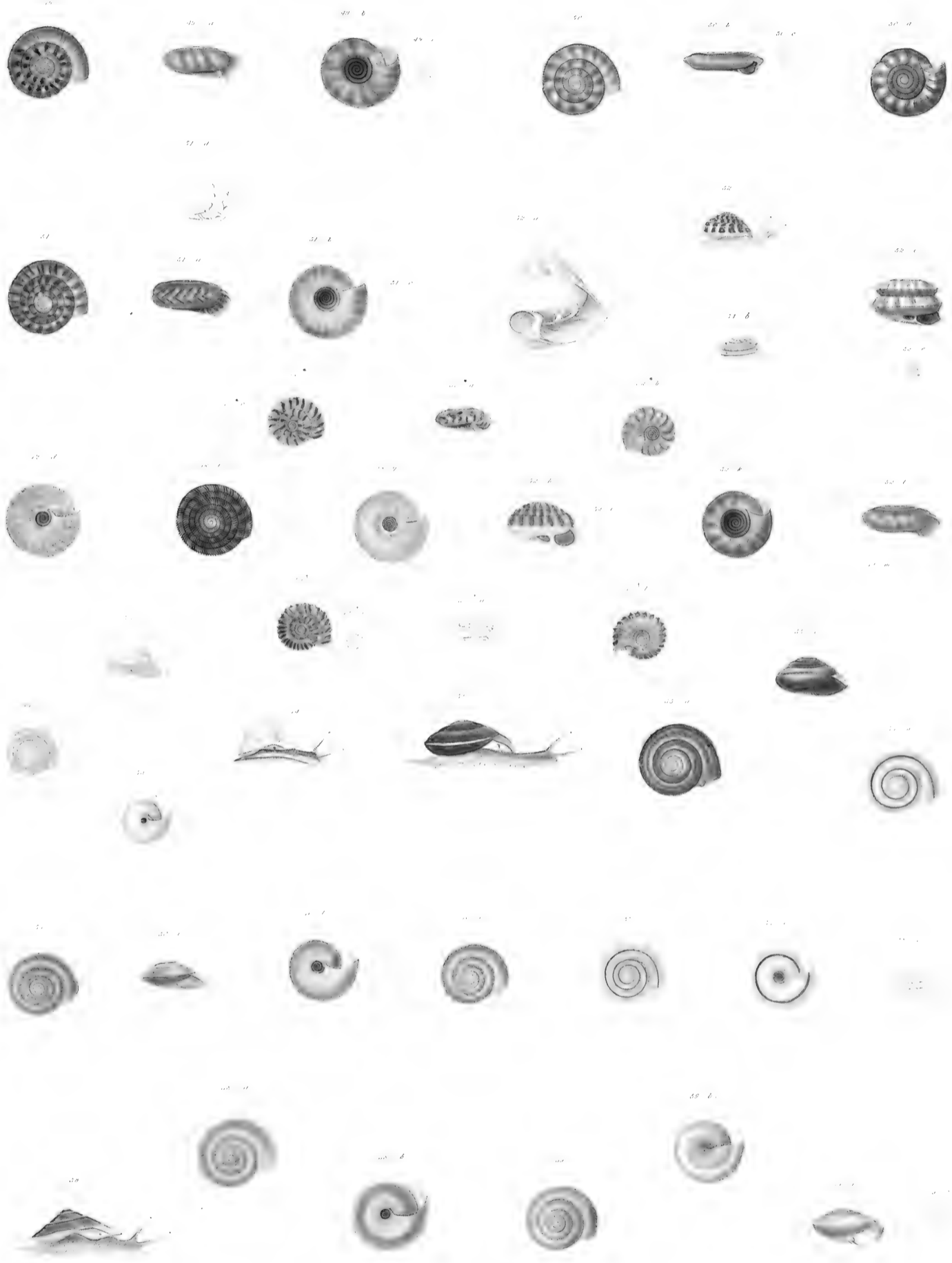
14 a, c	<i>Succinea rotundata</i> G.	20 a, b	<i>Succinea canella</i> G.	26 a, d	<i>Succinea infundibuliformis</i> G.
15 a, b	— <i>exulta</i> G.	21 a, b	— <i>crevata</i> G.	27 a, b	— <i>pudicina</i> G.
16 a, c	— <i>patana</i> G.	22 a, c	— <i>Magellanica</i> G.	28 a, b	— <i>provera</i> G.
17 a	— <i>vestibalis</i> G.	23 a, b	— <i>Minnana</i> G.	29 a, b	— <i>rusticana</i> G.
18 a, b	— <i>lumbalis</i> G.	24 a, c	— <i>medusa</i> G.	30 a, b	— <i>caduca</i> Michels.
19 a	— <i>humerosa</i> G.	25 a, b	— <i>vinosa</i> G.	31 a, c	— <i>explorata</i> G.





- | | | | | | | | | | | | |
|-----------|--------------|-----------------------|-------|-----------|--------------|-------------------|------|--------|--------------|--------------------|----|
| 12 32 a | <i>Helix</i> | <i>mituliscula</i> | Soub. | 38 | <i>Helix</i> | <i>Mitelliana</i> | Lea. | 44 a-d | <i>Helix</i> | <i>ziezoe</i> | G. |
| 13 33 a-c | — | <i>saculhis</i> | G. | 39 39 a | — | <i>hericatu</i> | G. | 45 a-c | — | <i>spirillus</i> | G. |
| 24 34 a-c | — | <i>lyrata</i> | G. | 40 40 a-c | — | <i>germana</i> | G. | 46 a-c | — | <i>paucellus</i> | G. |
| 25 35 a-c | — | <i>labiosa</i> | G. | 41 41 a,b | — | <i>strigosa</i> | G. | 47 | — | <i>intumescens</i> | G. |
| 36 | — | <i>Tewinsculiana</i> | Lea. | 42 42 a,b | — | <i>sporetella</i> | G. | 48 a-c | — | <i>granulata</i> | G. |
| 37 | — | <i>lanconverensis</i> | Lea. | 43 43 a,b | — | <i>gulesa</i> | G. | | | | |





49 a c *Helix rubiginosa* G.
 50 a c — *obelus* G.
 51 a d — *baicalica* G.
 52 a m — *laesatella* G.

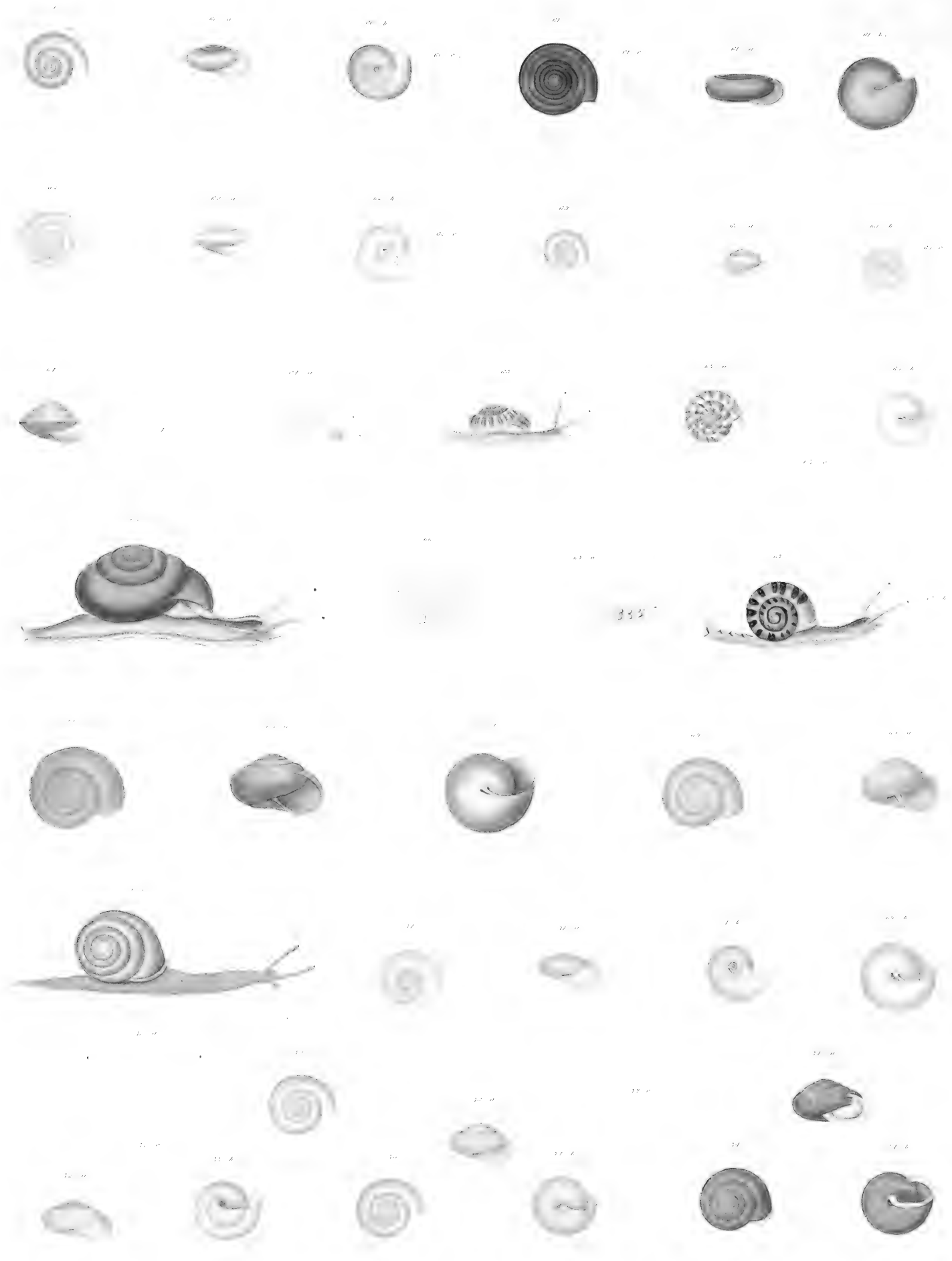
52* a c *Helix hystrix* Michels.
 52^b a c — *stellula* G.
 53 a b — *tumulus* G.
 54 — *tentaculata* G.
 55 a c — *viculus* G.

56 a c *Helix Cressida* G.
 57 a b — *Encyclia* G.
 58 a b — *trichilemis* Fer.
 59 a c — *caltrata* G.

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 & G. Engel

1946

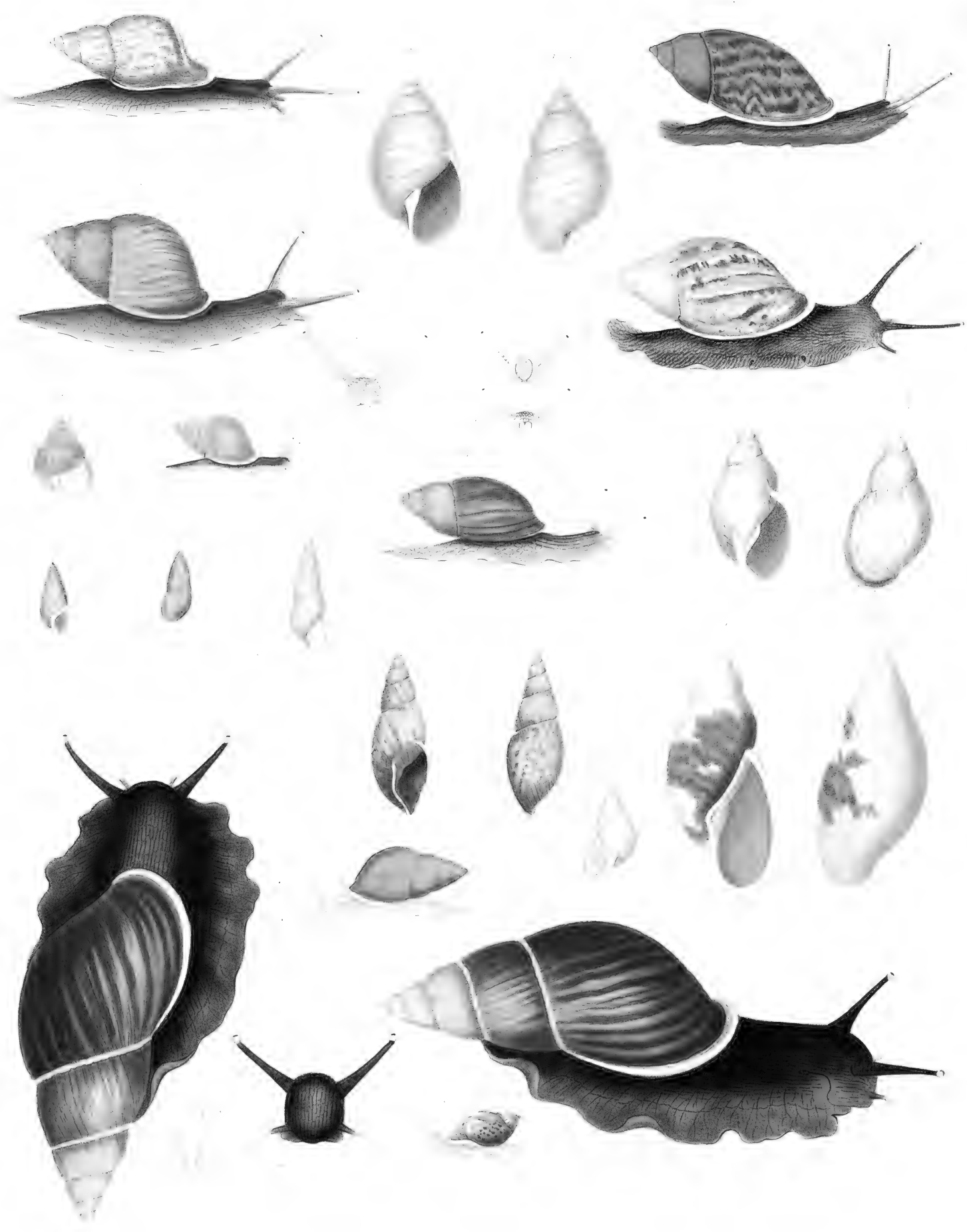




57	<i>Heber</i>	<i>perennis</i> G.	65	<i>Nanina</i>	<i>irradiata</i> G.	70	<i>Streptaxis</i>	<i>retusa</i> Fer.
61	a, c	<i>caequata</i> G.	66	a	<i>rubricata</i> G.	71	a, b	<i>Nanina</i>
62	a, c	<i>subtilissima</i> G.	67	a, b	<i>scorpio</i> G.	72	a, c	<i>Heber</i>
63	a, c	<i>calvesa</i> G.	68	a, b	<i>lurida</i> G.	73	a, c	<i>caequata</i> G.
64	a	<i>Tangana</i>	69	a, b	<i>casca</i> G.	74	a, b	<i>dentis</i> G.

Drawn by J. Drayton & Douglas





15	<i>Bulinus</i>	<i>auris leporis</i>	Brug.	30	<i>a</i>	<i>Bulinus</i>	<i>ciliatus</i>	G.	35	<i>a</i>	<i>Bulinus</i>	<i>Shongö</i>	Less.	
16	"	"	<i>protus</i>	Frod.	31	<i>a, b</i>	"	<i>Chilensis</i>	Less.	36	<i>a</i>	"	<i>egyptus</i>	Pr.
17	"	"	<i>fulvireatus</i>	Jay.	32	<i>a</i>	"	<i>incresus</i>	G.	37	<i>a, b</i>	"	<i>juvencus</i>	G.
18	"	"	<i>mallosatus</i>	Jay.	33	<i>a</i>	"	<i>pinusius</i>	G.	38	<i>a</i>	<i>Portula</i>	<i>conica</i>	G.
19	"	"	<i>pedatus</i>	G.	34	<i>a</i>	"	<i>delatus</i>	G.	39	<i>a</i>	"	<i>zebrina</i>	G.





90 a *Portula pusilla* G.
 91 *Tahitana* Brug.
varia Boud.
 92 *Tahitensis* G. & G.
 93 a *Achatinella marmorata* G.
 95 *nubilosa* G.
 96 a *alpsicola* G.
 97 a *acuta* G.

98 a *Achatinella guttata* G.
 99 a *caerulis* G.
 100 a *acuminata* G.
 101 *Megaspira data* G.
 102 *Latour Spiz.*
 103 a b *Vesicigera taitilla* G.
 104 a c *Pupa pepenum* G.
 105 a b *Balea peregrina* G.
 106 a c *Helicina calypso* G.

107 a b *Helicina musiva* G.
 108 a b *lucinea* Mighels.
 109 a c *trichia* G.
 110 a c *multicolor* G.
 111 a *hercynia* G.
 112 *Mungera gray.*
 113 a c *pallida* G.
 114 a c *aberta* G.





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|----------|------------------|-------------------|----|----------|--------------------|--------------------|-----|----------|------------------|---------------------|-------------|
| 116 a | <i>Cyclotoma</i> | <i>luna</i> | G. | 123 a, b | <i>Cyclotoma</i> | <i>scintum</i> | G. | 131 a-c | <i>Planorbis</i> | <i>vermicularis</i> | G. |
| 117 a, b | --- | <i>strigatum</i> | G. | 124 a, b | --- | <i>diatretum</i> | G. | 132 a-c | --- | <i>opercularis</i> | G. |
| 118 a, b | --- | <i>plicatum</i> | G. | 125 a, b | <i>Truncatella</i> | <i>aurantia</i> | G. | 133 | --- | <i>keratoides</i> | D'Orb. |
| 119 a | --- | <i>obliquatum</i> | G. | 126 a, b | --- | <i>liliana</i> | G. | 134 a, b | <i>Physa</i> | <i>venustula</i> | G. |
| 120 a, b | --- | <i>terebinte</i> | G. | 127 a-c | --- | <i>perrecta</i> | G. | 135 | --- | <i>ranalis</i> | Pot & Mich. |
| 121 a, b | --- | <i>reseni</i> | G. | 128 a, b | --- | <i>rostrata</i> | G. | 136 a, b | --- | <i>tabulata</i> | G. |
| 122 a | --- | <i>vallatum</i> | G. | 130 a, b | <i>Planorbis</i> | <i>corpulentus</i> | Say | 137 a | --- | <i>gibbosa</i> | G. |

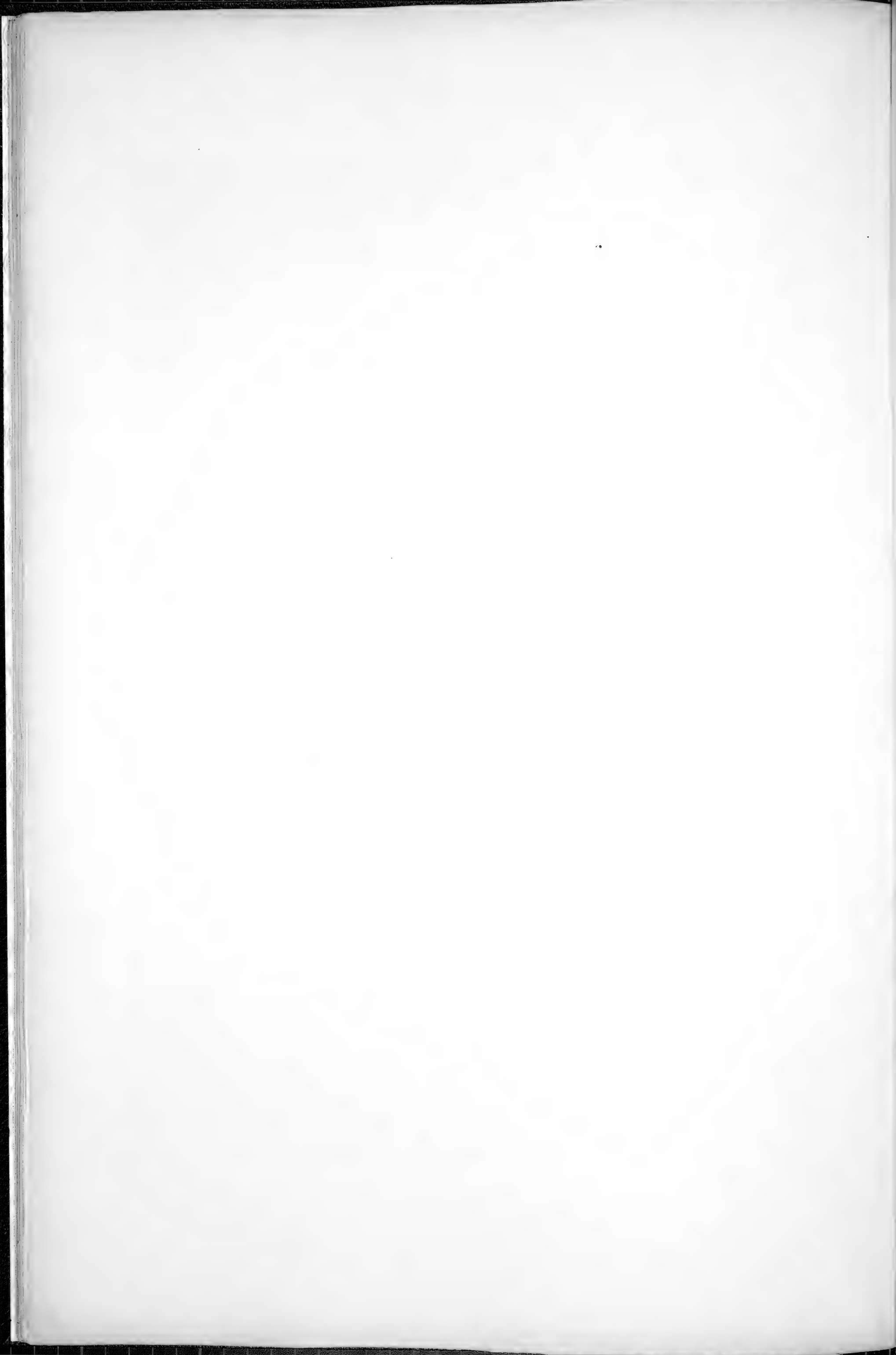




138 a *Physa virginea* G.
 139 a *sinuata* G.
 140 a, b *reticulata* G.
 141 a *Lymnaea lapida* G.
 142 a, b *volvata* G.
 143 a *Drombeya clavata* G.

144 a *Drombeya flavinea* D'Orb.
 145 a *roseata* G.
 146 a, b *Melanopsis zelandica* G.
 147 a *Anapallaria eclamellaris* G.
 148 a *Annexa antipodarum* G.
 149 a, b *Melania cerolla* G.
 150 a, b *luda* G.

151 a, b *Melania gracilis* G.
 152 a, b *Ungula petalingensis* G.
 153 a, b *Melania tetrica* G.
 154 a, c *cybele* G.
 155 a, b *terpsichere* G.
 156 a, c *scipio* G.





157 a, b *Melania* *Vainatii* G.
 158 a, b ——— *scutula* G.
 159 a, c ——— *lutesa* G.
 160 a, c ——— *perpinguis* Hinds.
 161 a ——— *corporea* G.
 162 a ——— *turthresca* G.

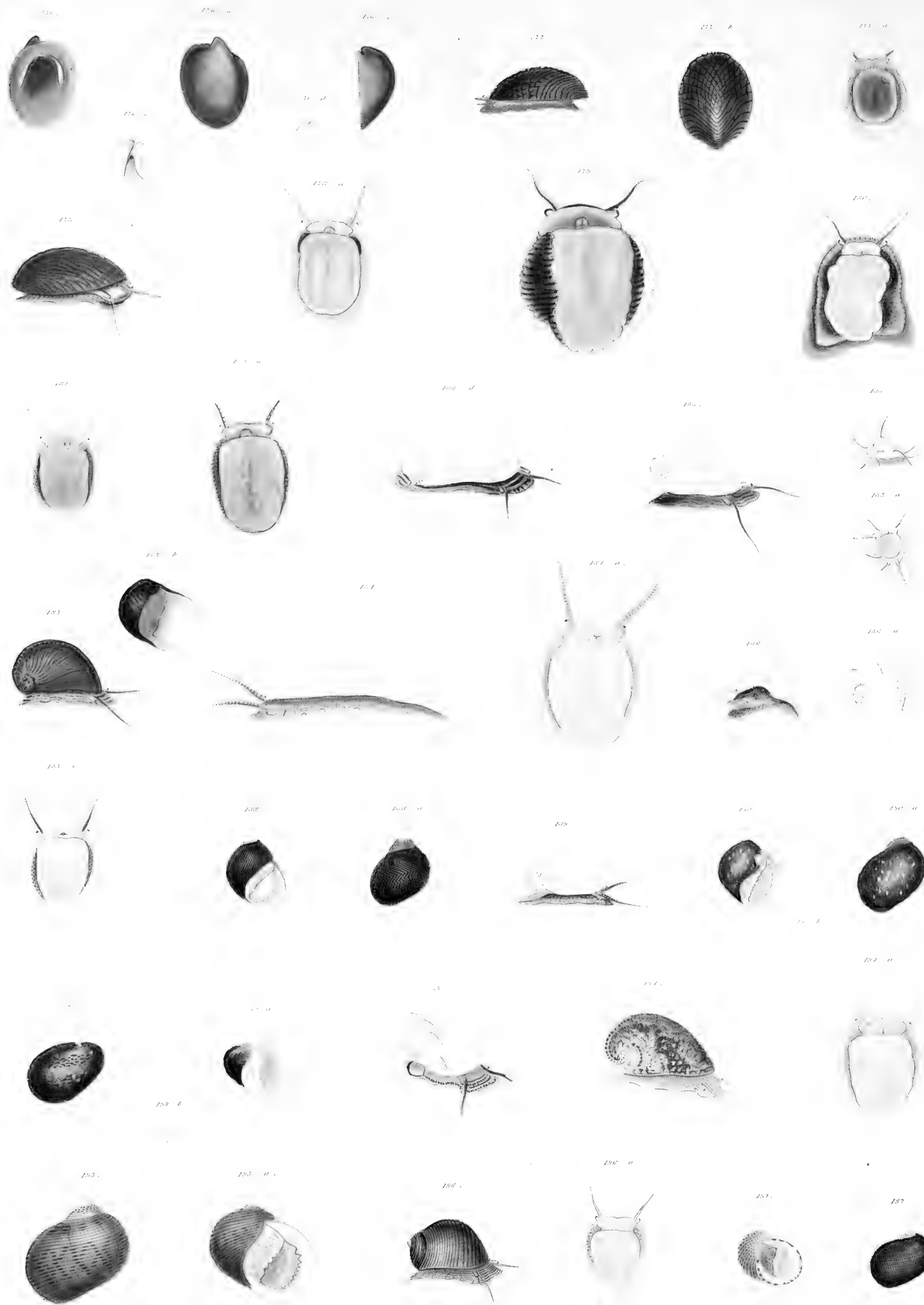
163 a *Melania* *lutesa* G.
 164 a ——— *silicula* G.
 165 ——— *placitæra* Lea.
 166 a *Cerithium* *sacratum* G.
 167 a, b ——— *aduncum* G.
 168 a ——— *arceatum* G.
 169 a ——— *incognitum* G.

170 a-c *Cerithium* *sordidulum* G.
 171 a, b ——— *egenum* G.
 172 a, b ——— *pusillum* G.
 173 a, b ——— *parvulum* G.
 174 a, d ——— *celatum* G.
 175 a-c ——— *tilosum* G.

J.H. Arnold. Sc.

Drawn by A. Dreyer & H. Dreyer





176 a, d *Pelec latensis* G.
 177 a, b *Navicella Freycineti* Recluz.
 178 a ——— *porcellana* Chem.
 179 ——— *graciosa* Sculb.
 180 ——— *Lamarckii* Desh.
 181 ——— *haleensis* Sculley.
 182 a ——— *caudis* Sculb.

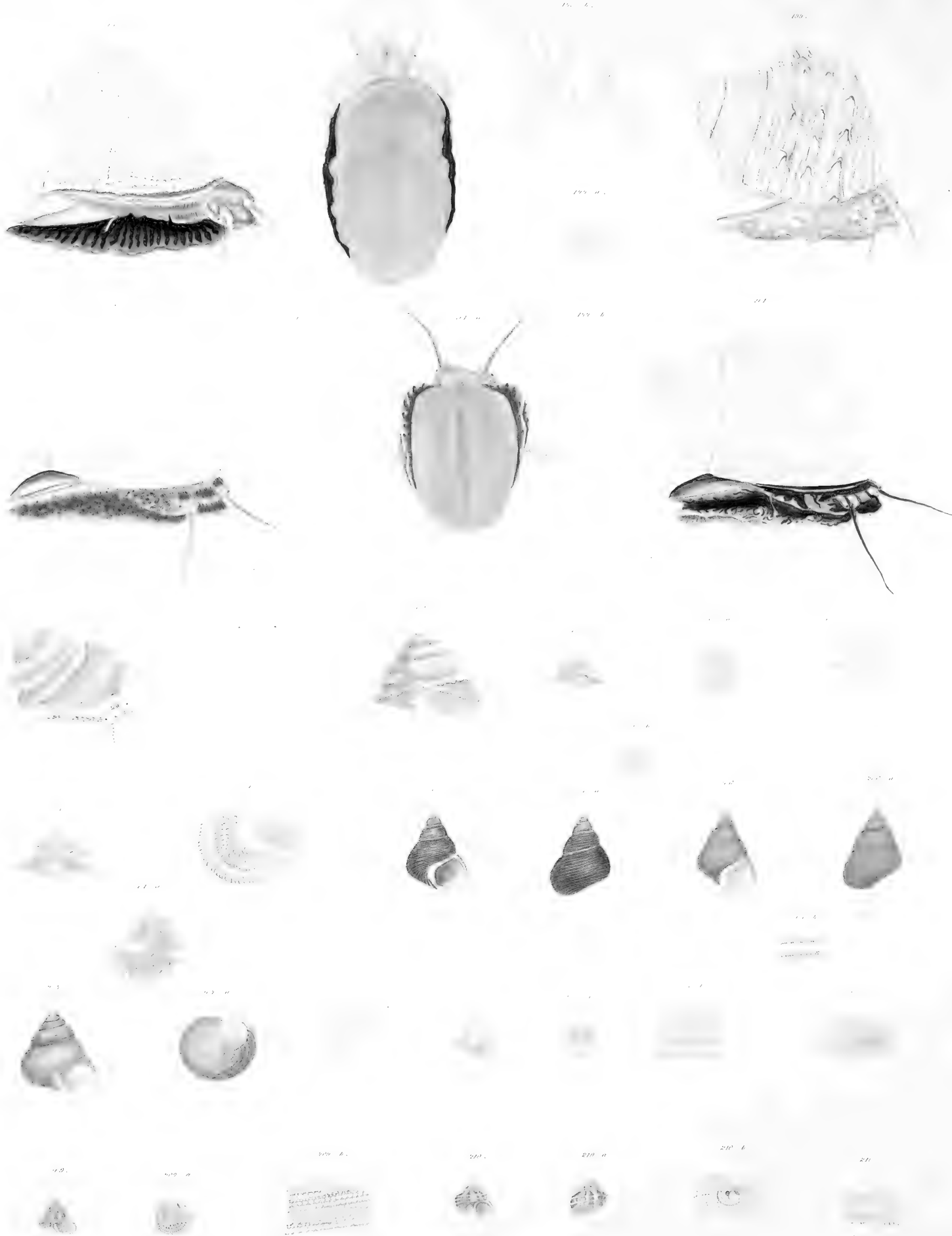
183 *Neritina gagates* Desh.
 184 a ——— *cernea* L.
 185 a ——— *ruginosa* young Recl.
 186 a ——— ——— adult ———
 187 a, c ——— *cholerica* G.
 188 a ——— *chrysoceella* G.
 189 ——— *caltra* Gray.
 190 a, b ——— *sulcata* G.

191 a *Neritina porosa* G.
 192 a, b ——— *amea* G.
 193 ——— *undata* Desh.
 194 a *Nerita albicella* L.
 195 a ——— *erassa* G.
 196 a ——— *undata* L.
 197 a ——— *musiva* G.

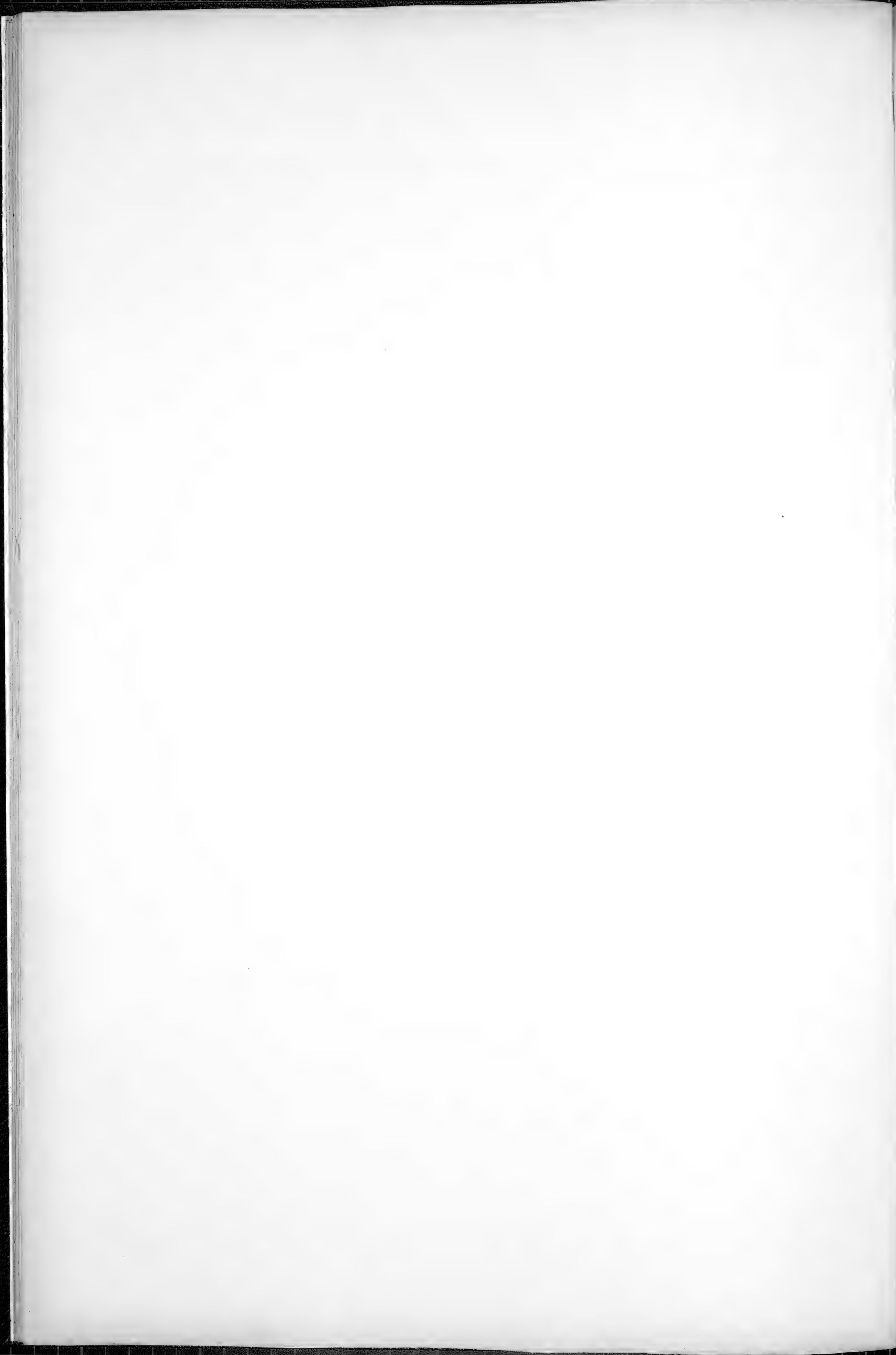
Drawn by J. DeKay.

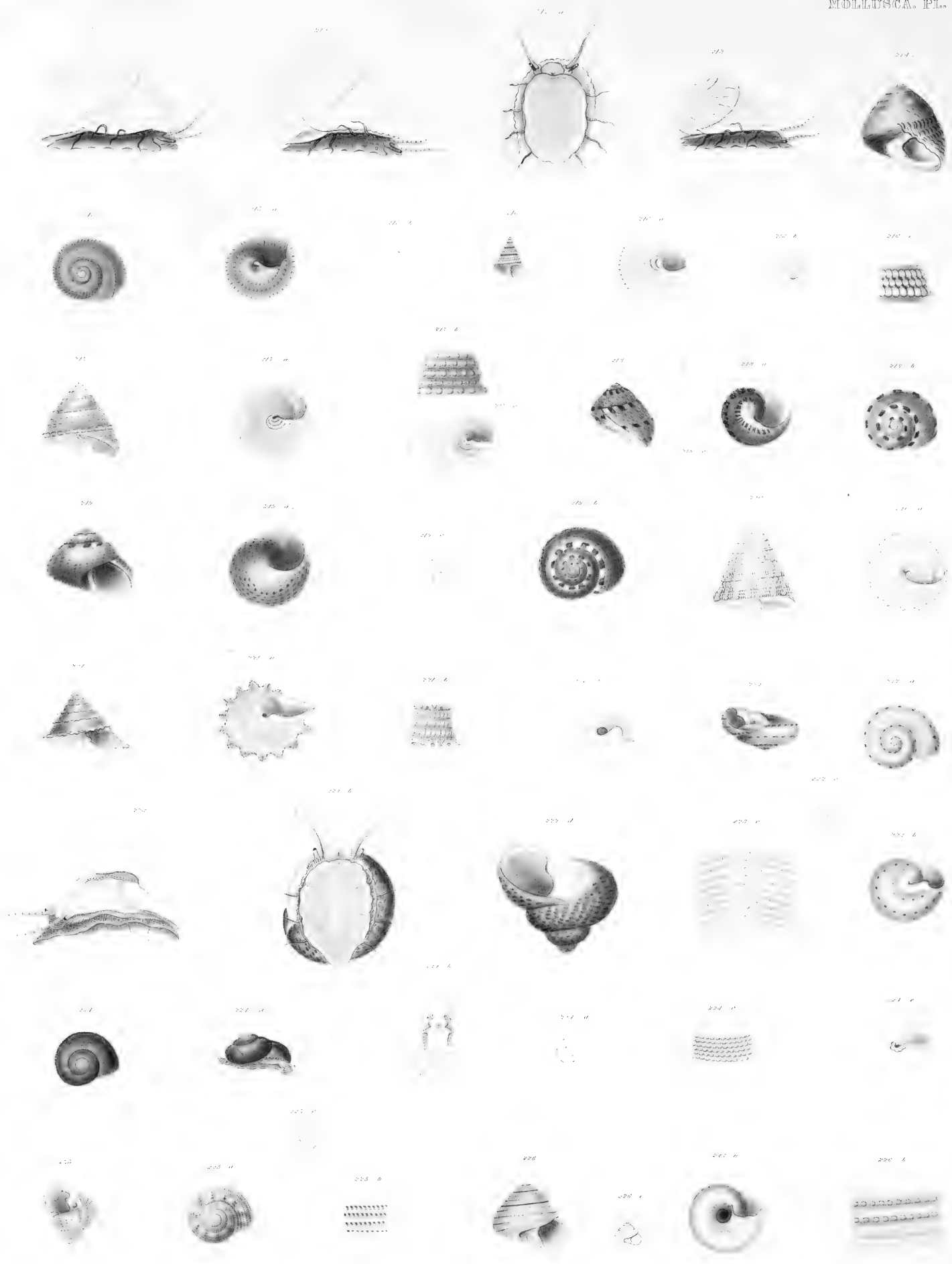
H. G. Norton Sc.





198 a-c	<i>Turbo setosus</i>	Gmel.	202 a, b	<i>Turbo confragens</i>	G.	206 a, b	<i>Trechus testurans</i>	G.			
199 a, b	—	<i>argyresteus</i>	L.	203 a-c	—	<i>sirius</i>	G.	207 a, b	—	<i>ligatus</i>	G.
200	—	<i>sparverius</i>	Gmel.	204 a-c	—	<i>laciniatus</i>	G.	208 a-c	—	<i>pupillus</i>	G.
201 a	—	<i>pellucidus</i>	L.	205 a, b	<i>Trechus prunians</i>	G.	209 a-c	—	<i>junius</i>	G.	
				20	a c	<i>gradatus</i>	G.				

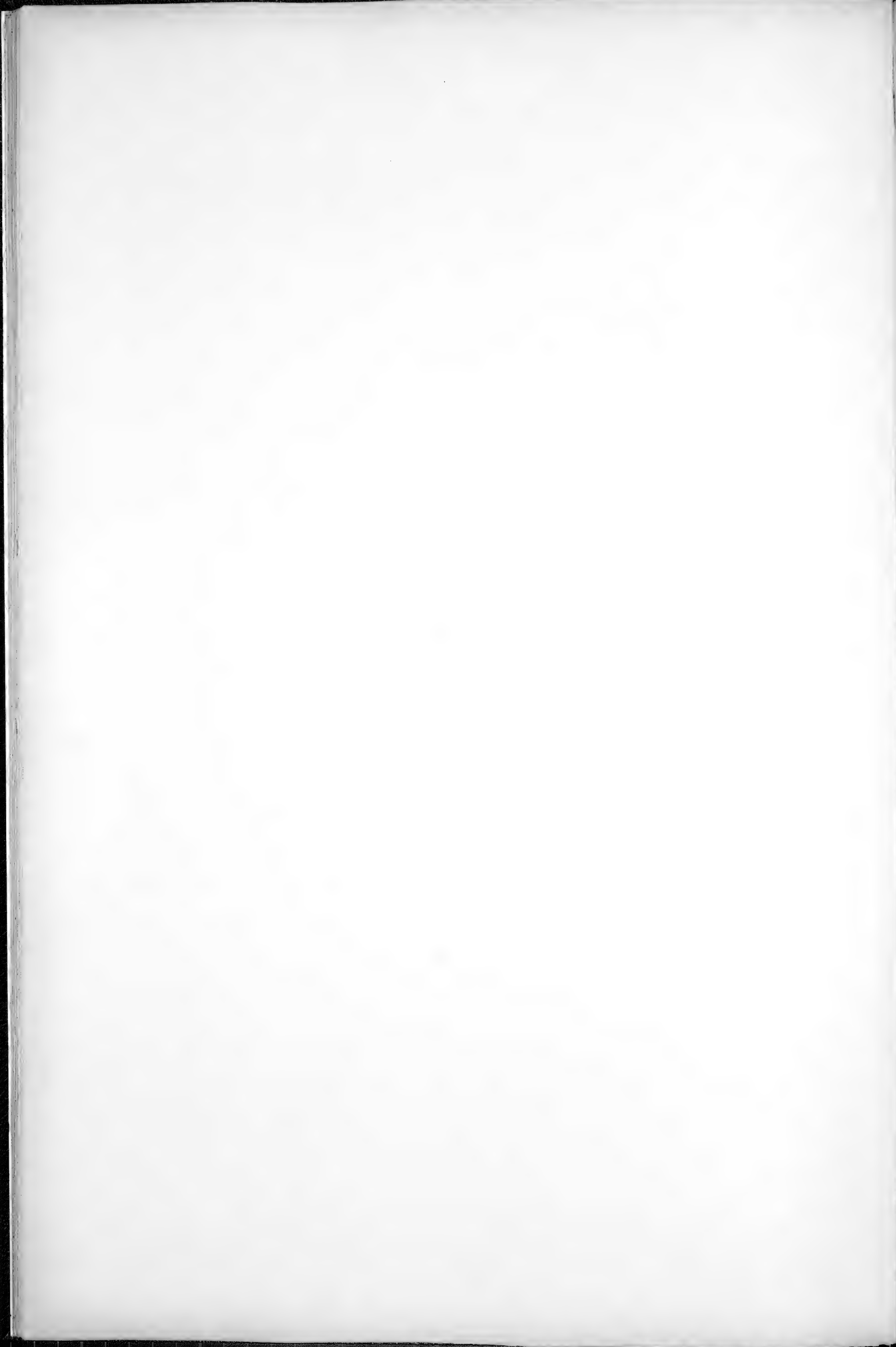


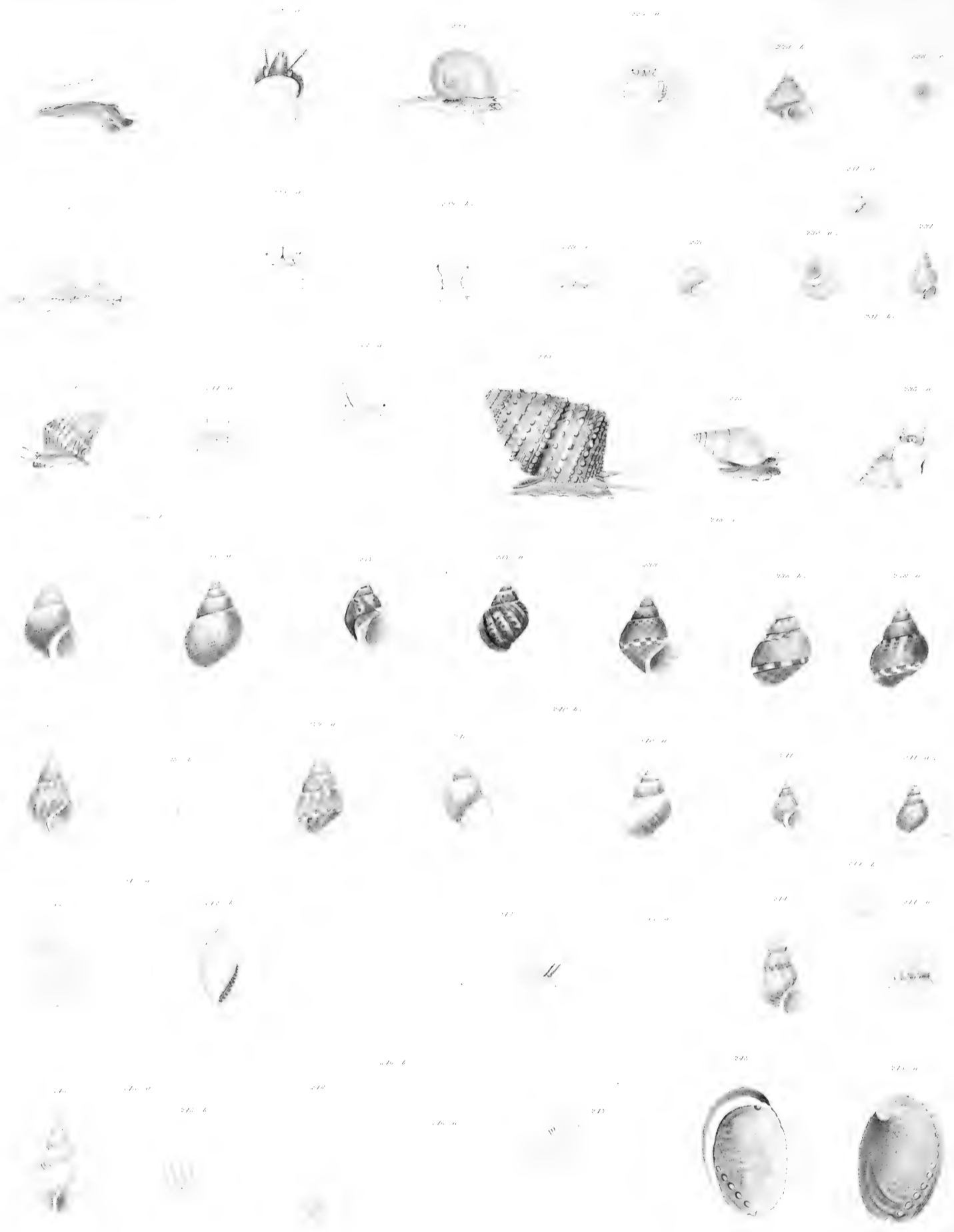


211	<i>Trochus ater</i> Lessen.	216 a, c	<i>Trochus elisus</i> G.	222 a, c	<i>Trochus retellinus</i> G.
212 a	— <i>niger</i> Gray.	217 a, c	— <i>acinesus</i> G.	223 a, c	— <i>calabronus</i> G.
213	— <i>araneus</i> Wrb.	218 a, c	— <i>amicus</i> G.	224 a, c	— <i>atrepurpureus</i> G.
214	— <i>maestas</i> Anis.	219 a, c	— <i>spureus</i> G.	225 a, c	— <i>instructus</i> G.
215 a, b	— <i>tentillus</i> G.	220 a	— <i>circumsutus</i> G.	226 a, c	<i>Solarium egeum</i> G.
		221 a, c	— <i>hiematus</i> G.		

Drawn by J. Drayton.

P. G. Norton del.





227 a *Pemlicium squamigerum* Ksch.
 228 a c *Margarita Magellanica* G.
 229 a c *conica* DCrb.
 230 a *persica* G.
 231 a b *Lucina carinata* G.
 233 a *Littorina grandinosa* Chem.
 234 a *pyramidalis* Ksch.

235 a *Littorina obesa* Swb.
 236 a, b *pleia* G.
 237 a *patula* G.
 238 a c *lapida* G.
 239 a, b *acuminata* G.
 240 a, b *caliginosa* G.
 241 a *scutulata* G.

242 *Melampus mucronatus* G.
 243 a
 244 a, b *Scalaria testudinata* G.
 245 a, b *gracilata* G.
 246 a, b *Stilifer acicula* G.
 247
 248 a *Halictis crispata* G.





249 a *Stomatella tumida* G.
 250 a, b — — — — — *decolorata* G.
 251 a, b *Planaxis lineolatus* G.
 252 a *Littorpa decussata* G.
 253 a *Natica Lewisii* G.
 254 a — — — — — *caurina* G.

255 a *Natica dilecta* G.
 256 a — — — — — *algida* G.
 257 a — — — — — *soluta* G.
 259 a-c *Sigaretus antarcticus* Couth.
 260 a, b — — — — — *pretenuis* Couth.
 261 a-c *Rissova ambigua* G.

262 a *Pyramidella*
 263 a, b *Tornatella bullata* G.
 264 *Bulla bifasciata* Mart.
 265 a-d — — — — — *diaphana* Couth.
 266 a — — — — — *rubiginosa* G.
 267 a — — — — — *parallela* G.

Drawn by J. Droyton
 & J. P. Couthery.

J. H. Arnold Sc.



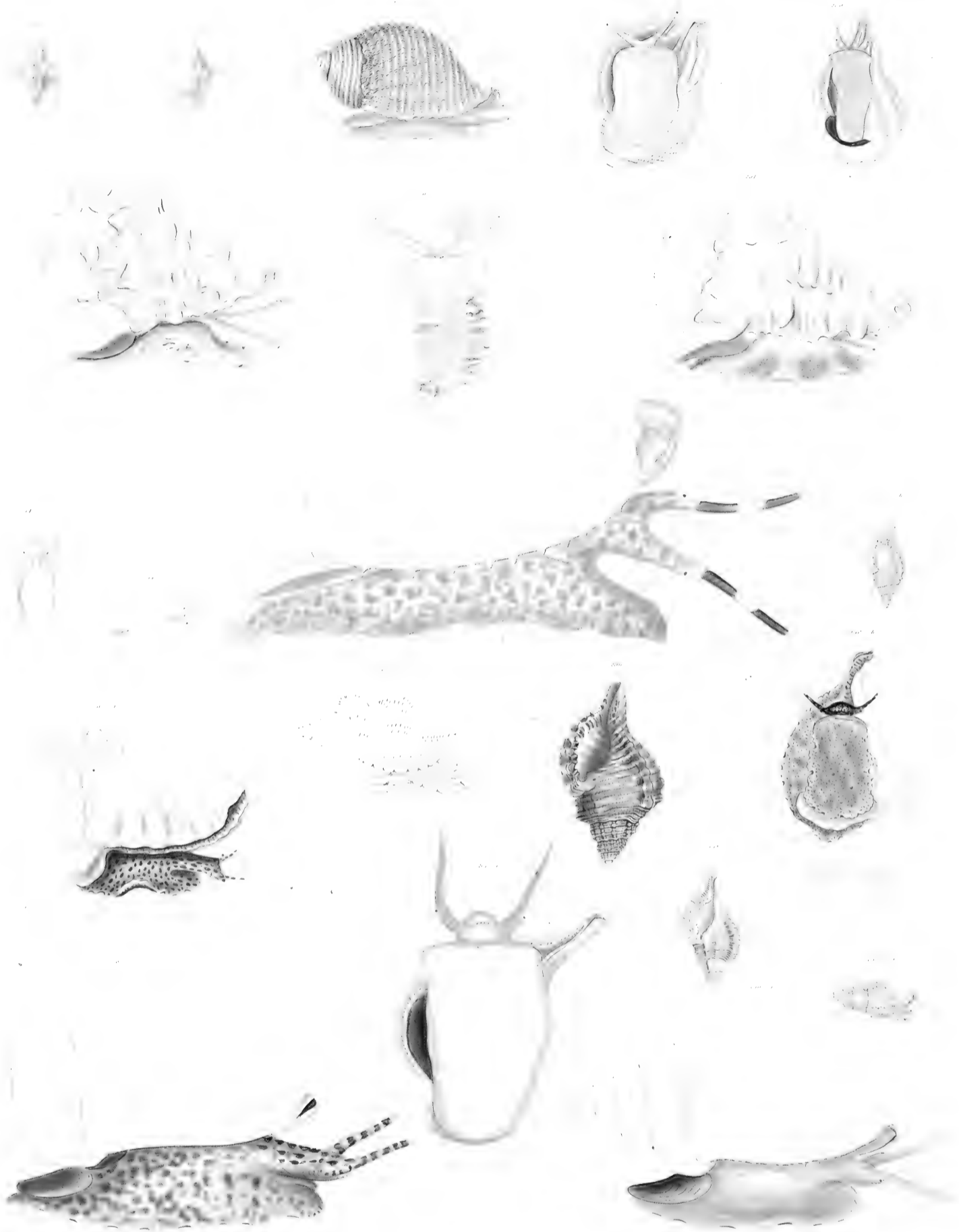


269	<i>Aplysia pulcherrima</i> G.	274 a, b	<i>Trichotropis pusillus</i> G.	281 a	<i>Fusus plumbeus</i> Phil.
270 a	<i>Bursatella laciniata</i> Cuth.	275	———— <i>cancellata</i> Hinds oper.	282 a, b	———— <i>brutus</i> Cuth.
271 a, b	<i>Stelochelone lineolatus</i> G.	276 a	<i>Purula deloensis</i> Lam.	283 a	———— <i>incrusus</i> G.
271	———— <i>quercinus</i> G.	277 a, b	<i>Fusus biversianus</i> Pullus	284 a, b	———— <i>tilicola</i> G.
272 a	<i>Audinia exigua</i> Lam.	278	———— <i>laciniatus</i> Martyn	285 a, b	———— <i>exilis</i> G.
273	———— <i>trigula</i>	279 a, c	———— <i>crispus</i> G.	286 a, b	———— <i>sulcatus</i> G.
		280	———— <i>deckeri</i> Phil.		

Drawn by J. Dreyfus & J. P. Gouhony

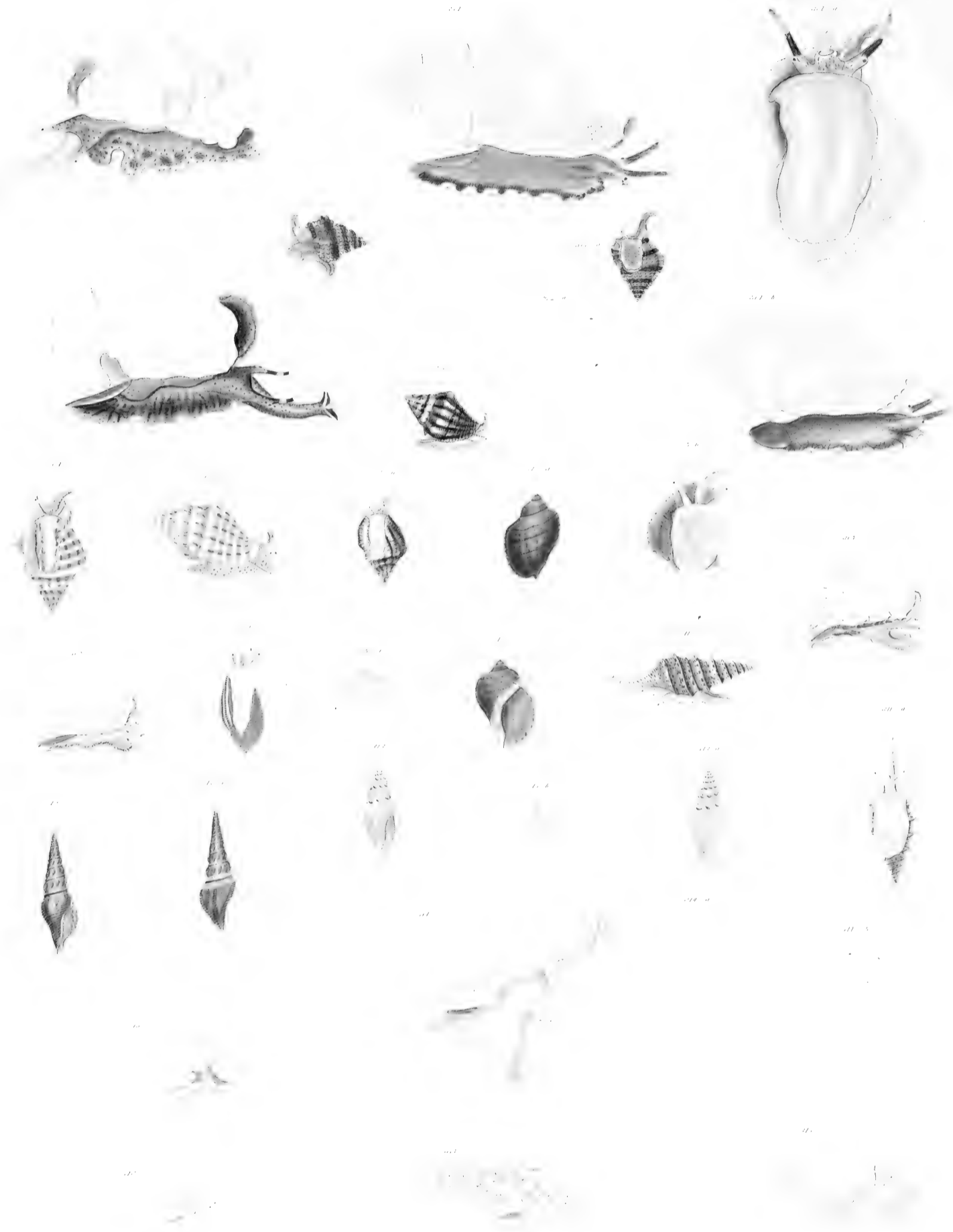
J. H. Arnold Sc.





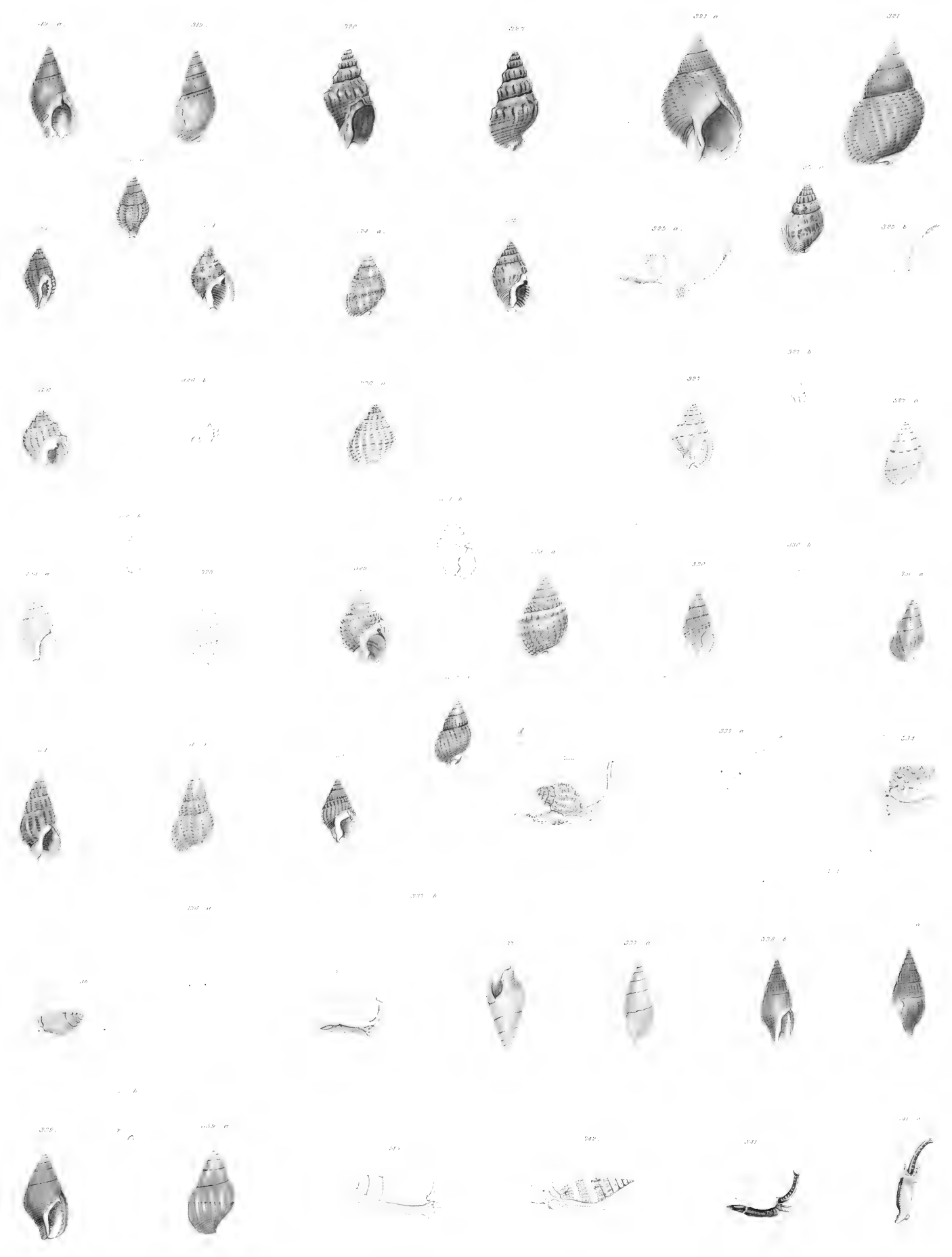
287 a	<i>Trochus tintinnus</i> G.	291	<i>Turbinella ornata</i> Ered.	295	<i>Triton nedesum</i> Lam.
288 a	<i>Murex imbricatum</i> Lam.	292	<i>Triton variegatum</i> Lam.	296 a, b	— <i>Brasilianum</i> G.
289	<i>Turbinella amplastre</i> Kon.	293	— <i>anus</i> Lam.	297 a, b	— <i>mandum</i> G.
290 a	— <i>oxygona</i> Lam.	294 a	— <i>distertum</i> Lam.	298 a	— <i>convallatum</i> Lam.



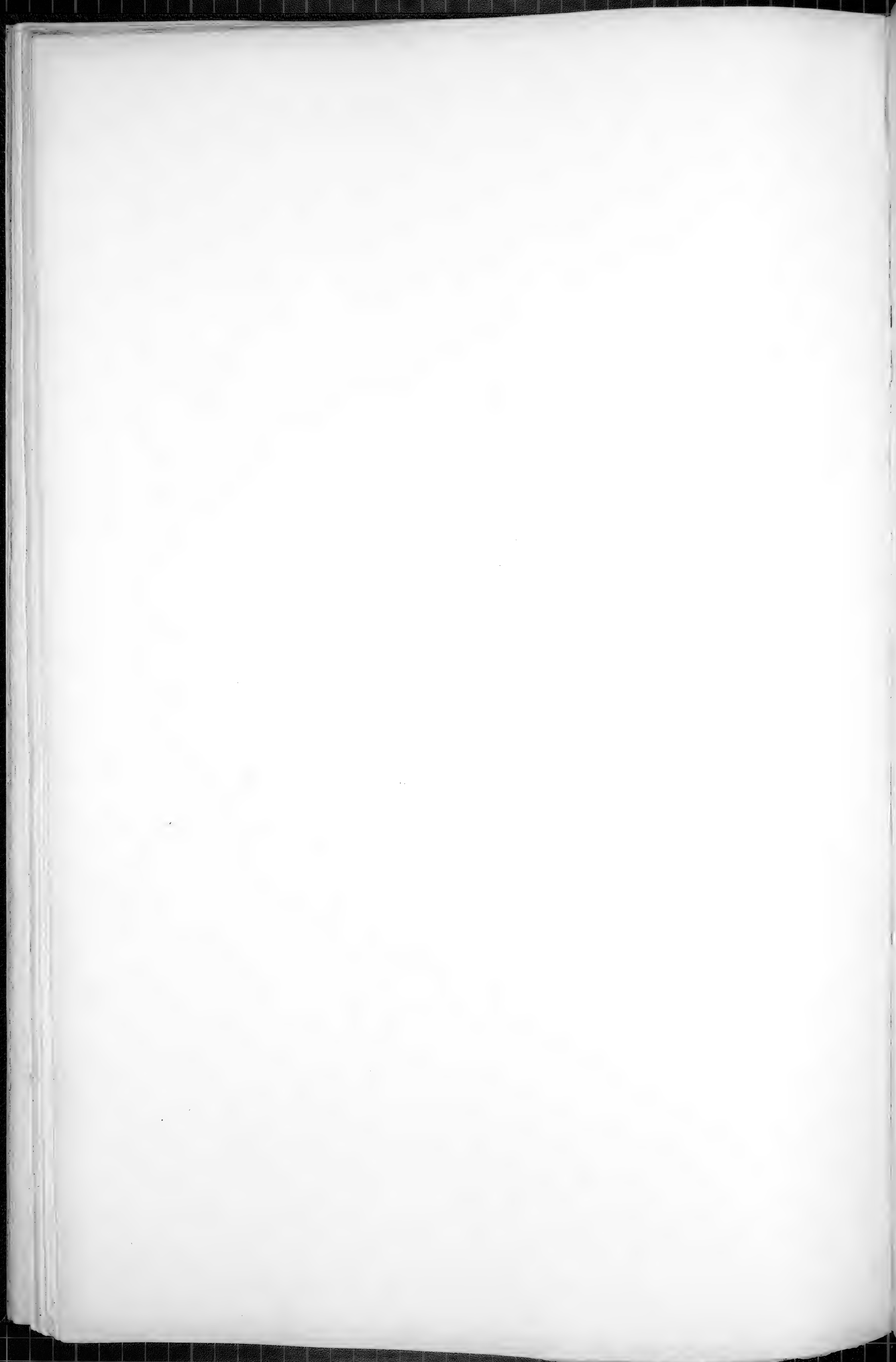


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|-----|----------------|-------------------|--------------------|-------|----------------|--------------------|-----------------|----------|-----------------|------------------|---------------------|------|
| 309 | <i>Ranella</i> | <i>babonia</i> | Gm. | 306 | <i>Purpura</i> | <i>violacea</i> | Kön. | 313 a, b | <i>Mangelia</i> | <i>cithara</i> | G. | |
| 309 | | <i>gerinus</i> | L. | 307 | | <i>arachnoides</i> | Lam. | 314 a, b | <i>Terebra</i> | <i>crenolata</i> | L. | |
| 309 | | <i>ocellum</i> | Sowb. | 308 | | <i>adhrata</i> | Lam. | 315 | | <i>babylonia</i> | Lam. | |
| 309 | u | <i>ventricosa</i> | Bred. | 309 a | | <i>tenida</i> | Pons. | 316 | | <i>levigata</i> | Gray. | |
| 309 | u | <i>Purpura</i> | <i>elongata</i> | Quoy. | 310 a | | <i>estrina</i> | G. | 317 | | <i>sulcata</i> | L. |
| 309 | u | | <i>tuberculata</i> | Bl. | 311 a | <i>Pleurotoma</i> | <i>nigra</i> | Lam. | 318 | | <i>caerulescens</i> | Lam. |
| | | | | | 312 a | | <i>semulera</i> | G. | | | | |





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|---------|----------------------------|---------|---------------------------|---------|--------------------------------|
| 319 a | <i>Buccinum velatum</i> G. | 327 a b | <i>Nassa cinetella</i> G. | 336 a | <i>Nassa lilacina</i> G. |
| 320 a | — <i>finerum</i> G. | 328 a b | — <i>casta</i> G. | 337 a b | <i>Columbella gansopata</i> G. |
| 321 a | — <i>fessatum</i> G. | 329 a b | — <i>acinesa</i> G. | 338 a c | — <i>vulga</i> G. |
| 322 a | — <i>harmsum</i> G. | 330 a b | — <i>paupera</i> G. | 339 a b | — <i>castanea</i> G. |
| 323 a | <i>Nassa nassina</i> G. | 331 a | — <i>menhira</i> G. | 341 a | — <i>mendicaria</i> L. |
| 324 a | — <i>lurida</i> G. | 332 a | — <i>rubricata</i> G. | 342 | — <i>ligula</i> Ductes |
| 325 a b | — <i>curta</i> G. | 333 | — <i>maricata</i> Quey | 343 | <i>Mitra tilosa</i> Bern |
| 326 a c | — <i>curta</i> G. | 334 | — <i>granitèra</i> Kien. | | |



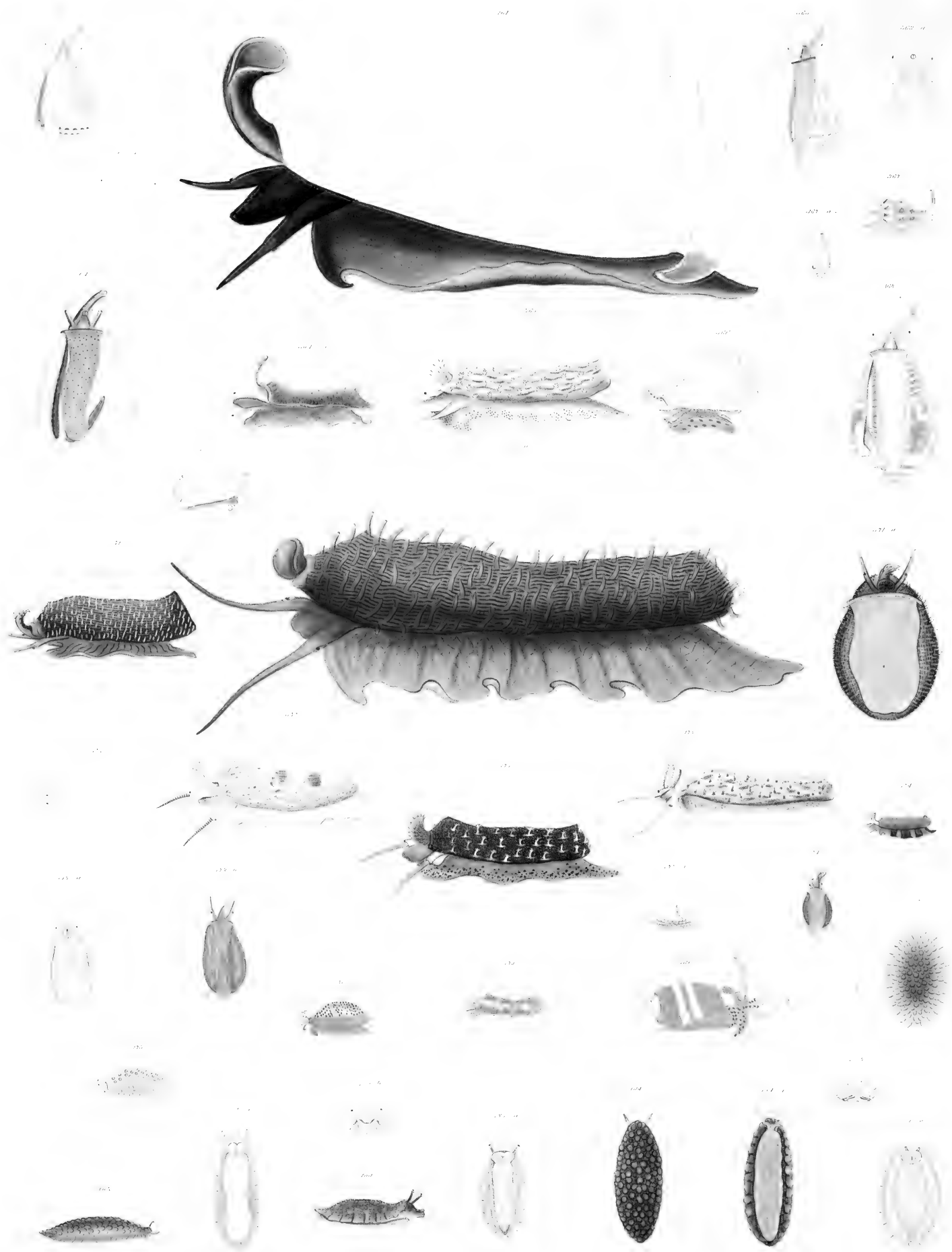


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|---------|--------------|-----------------|-------|----------|--------------|------------------|-------|----------|---------------|--------------------|---------|
| 311 a | <i>Mitra</i> | <i>adusta</i> | Lam. | 319 | <i>Mitra</i> | <i>elegans</i> | Reve. | 325 a | <i>Mitra</i> | <i>cephala</i> | G. |
| 312 bis | | <i>ambigua</i> | Sw. | 320 | | <i>crispata</i> | Ch. | 326 a, b | | <i>encosta</i> | G. |
| 313 | | <i>annulata</i> | Su. | 321 a, b | | <i>capitata</i> | G. | 327 | <i>Telata</i> | <i>Magellanica</i> | Gin. |
| 316 a | | <i>virgata</i> | Reve. | 322 a | | <i>vitellina</i> | G. | 328 | | <i>ancilla</i> | Seland. |
| 317 | | <i>maculosa</i> | " | 323 a | | <i>fidicula</i> | G. | 329 | <i>Melo</i> | <i>broderipii</i> | Gray. |
| 318 | | <i>nedesa</i> | Sw. | 324 a | | <i>revata</i> | G. | 330 a | <i>Phos</i> | <i>varicosus</i> | G. |

Drawn by J. Drayton

W. G. Norton Sc.





361 *Conus* *ve-cillum* Mart.
 362 a — *ultraris* Brug.
 363 a — *spensalis* Brug.
 364 a — *males* L.
 365 — *nanus* Bred.
 366 — *minimus* L.
 367 a — *dilectus* G.

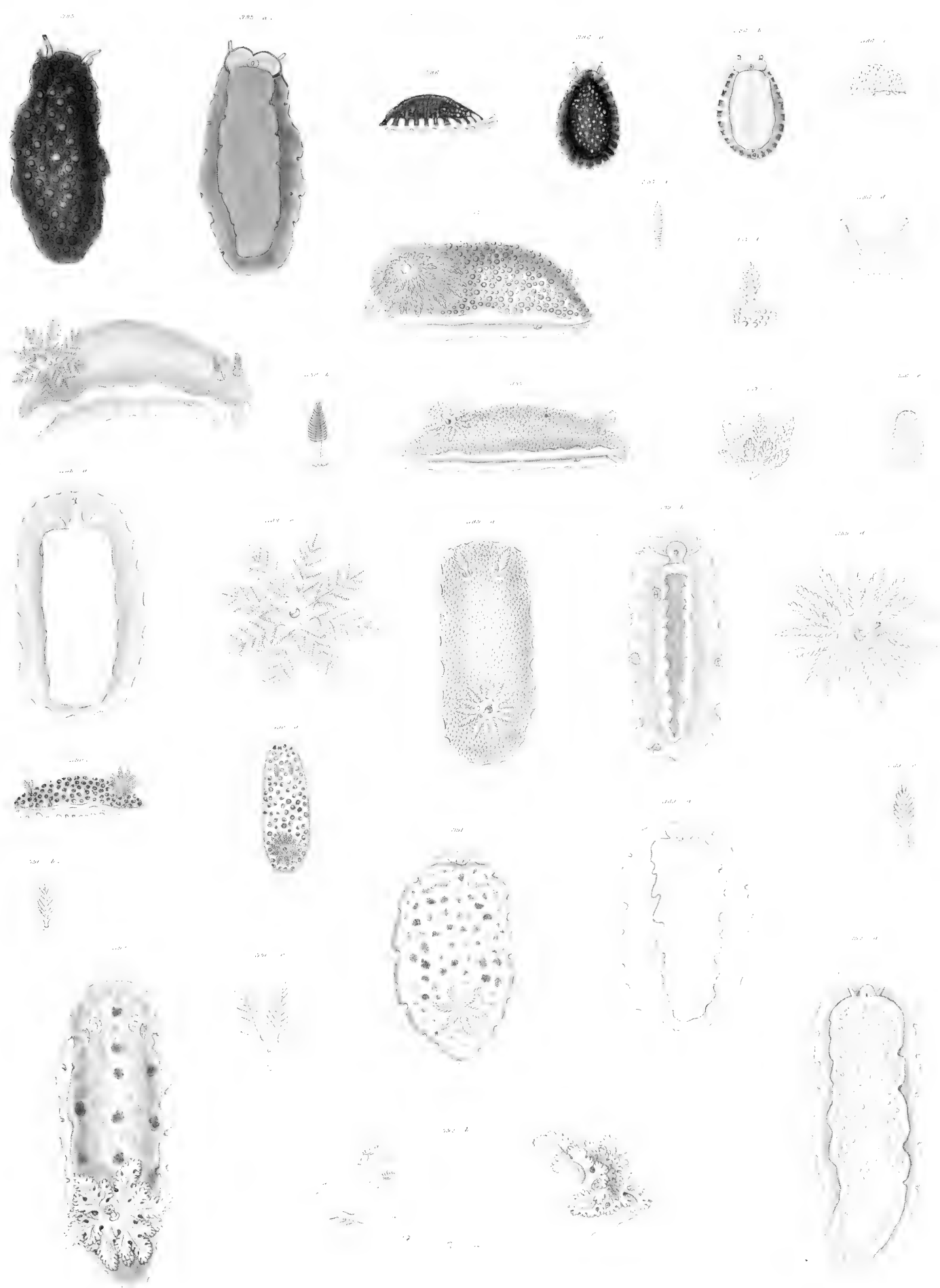
368 *Conus*
 370 *Cypraea* *testudinaria*.
 371 a — *reniculata* Martin.
 372 a — *fimbriata* Gmel.
 373 a — *caurica* L.
 374 a — *asellus* L.
 375 a — *peraria* L.

376 *Cypraea* *Humphreysii* Gray.
 379 — *obvelata* Lam.
 380 *Oliva* *carneola* Gmel.
 381 a, b *Peruvia*
 382 a — *indulens* Cuth.
 383 a, b — *irrorata* G.
 384 a — *acinesa* G.

Drawn by J. Drayton
 & J. P. Gauthier.

W. G. Newton Sc.





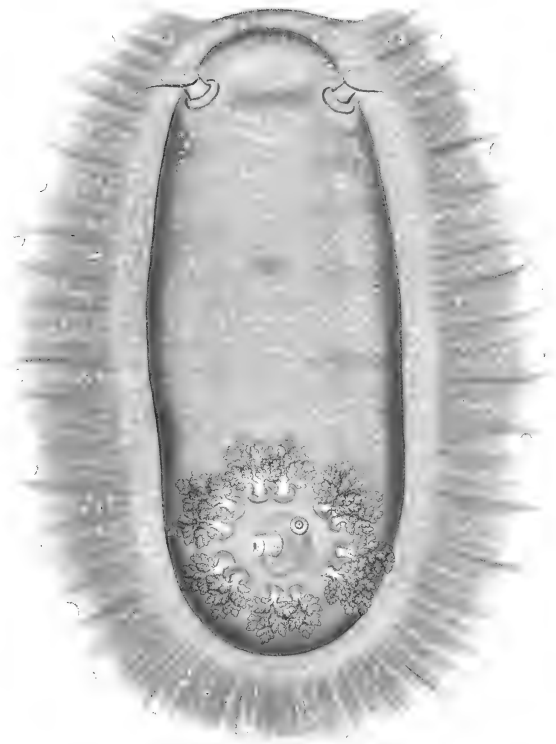
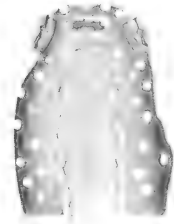
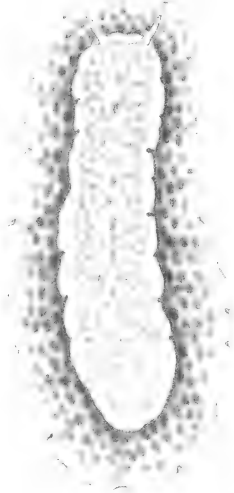
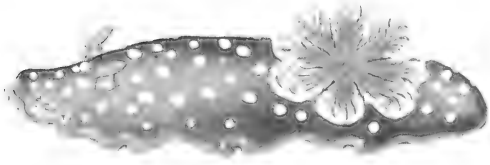
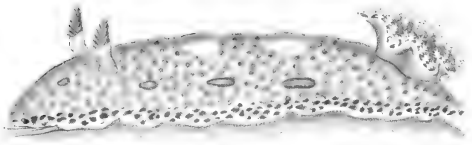
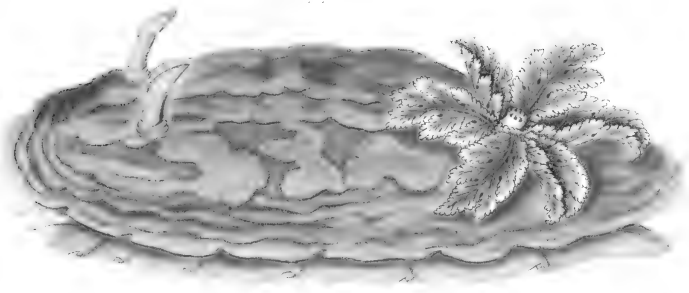
385 a *Percinia cerpulenta* G.
 386 a, c — *marginata* Couth.
 387 a, c *Doris vermicelli* G.
 388 a, c *plumulata* Couth.

389 a, d *Doris luteola* Couth.
 390 a, c — *smaragdina* G.
 391 a — *petechialis* G.
 392 a, b — *filicina* G.

Drawn by J. Dwight
 & J. P. Coulter.

J. H. Arnold Sc.





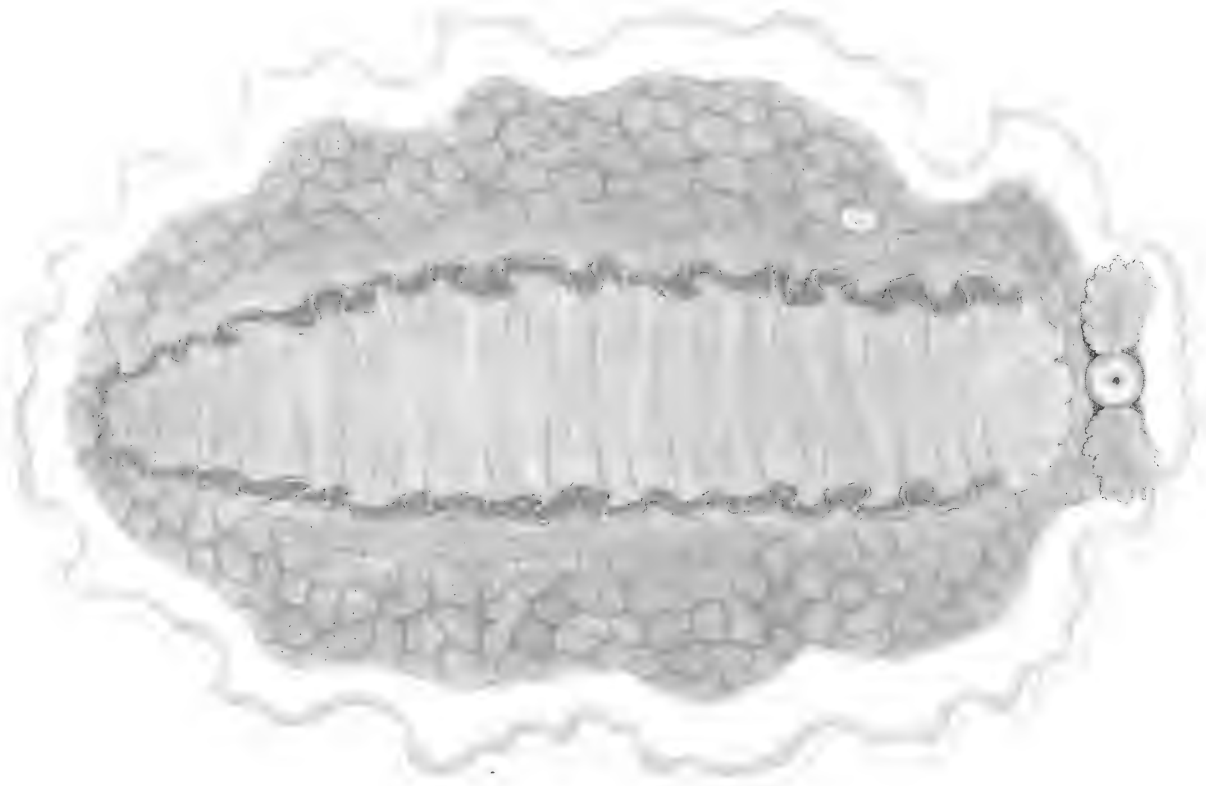
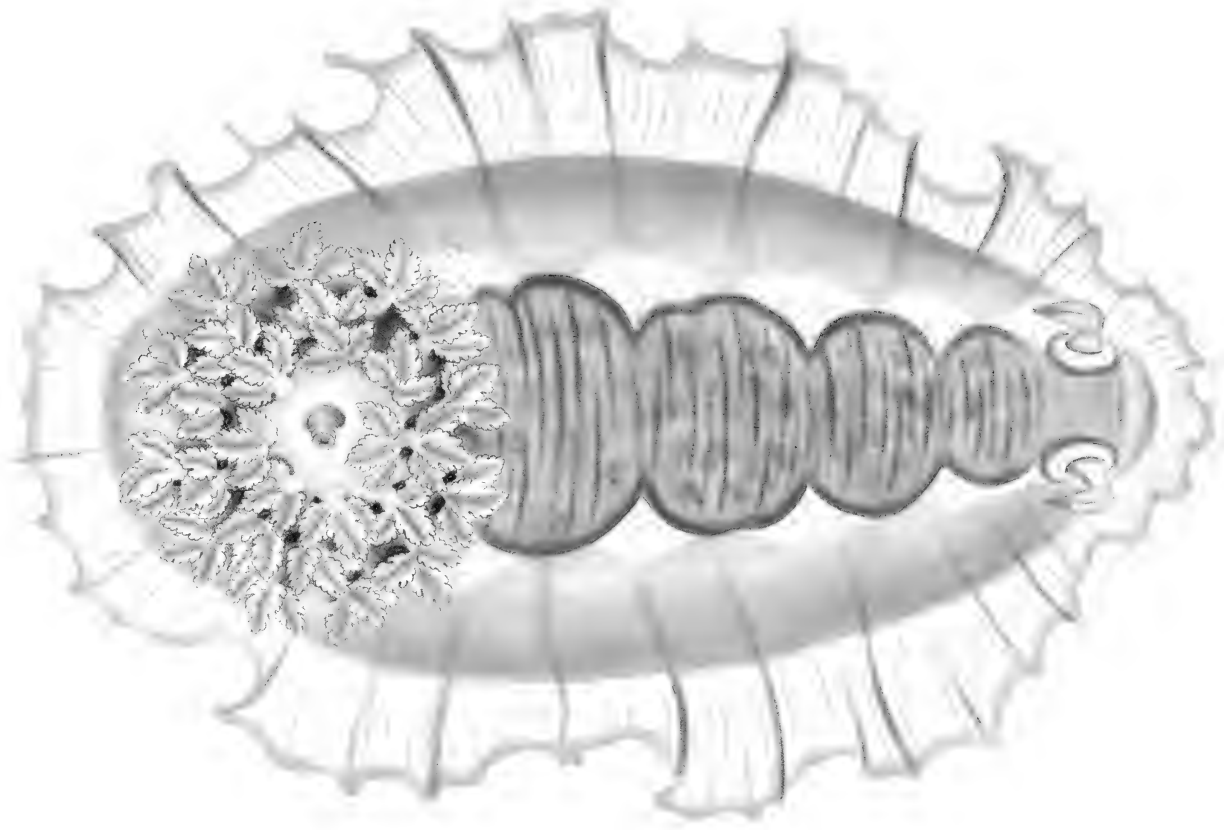
393 a c *Deris cerebralis* G.
394 a *aurata* G.

395 a b *Deris spiraculata* G.
396 a c *superba* G.

Drawn by J. Drayton.

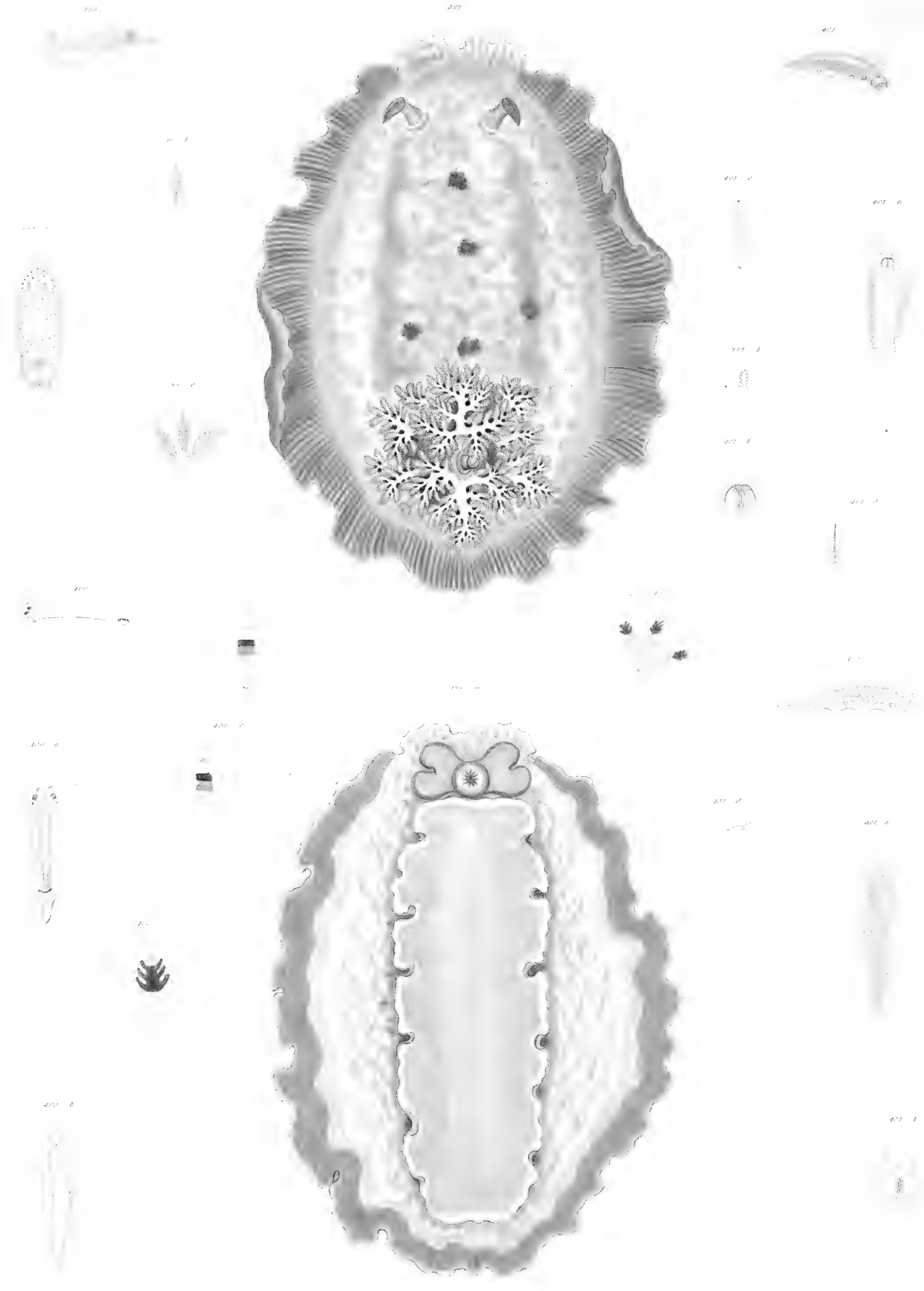
J. H. Arnold Sc.





Urtica aquatica G.





397 a, b. *Doris cardinalis* G.
399 a, c — *aspersa* G.

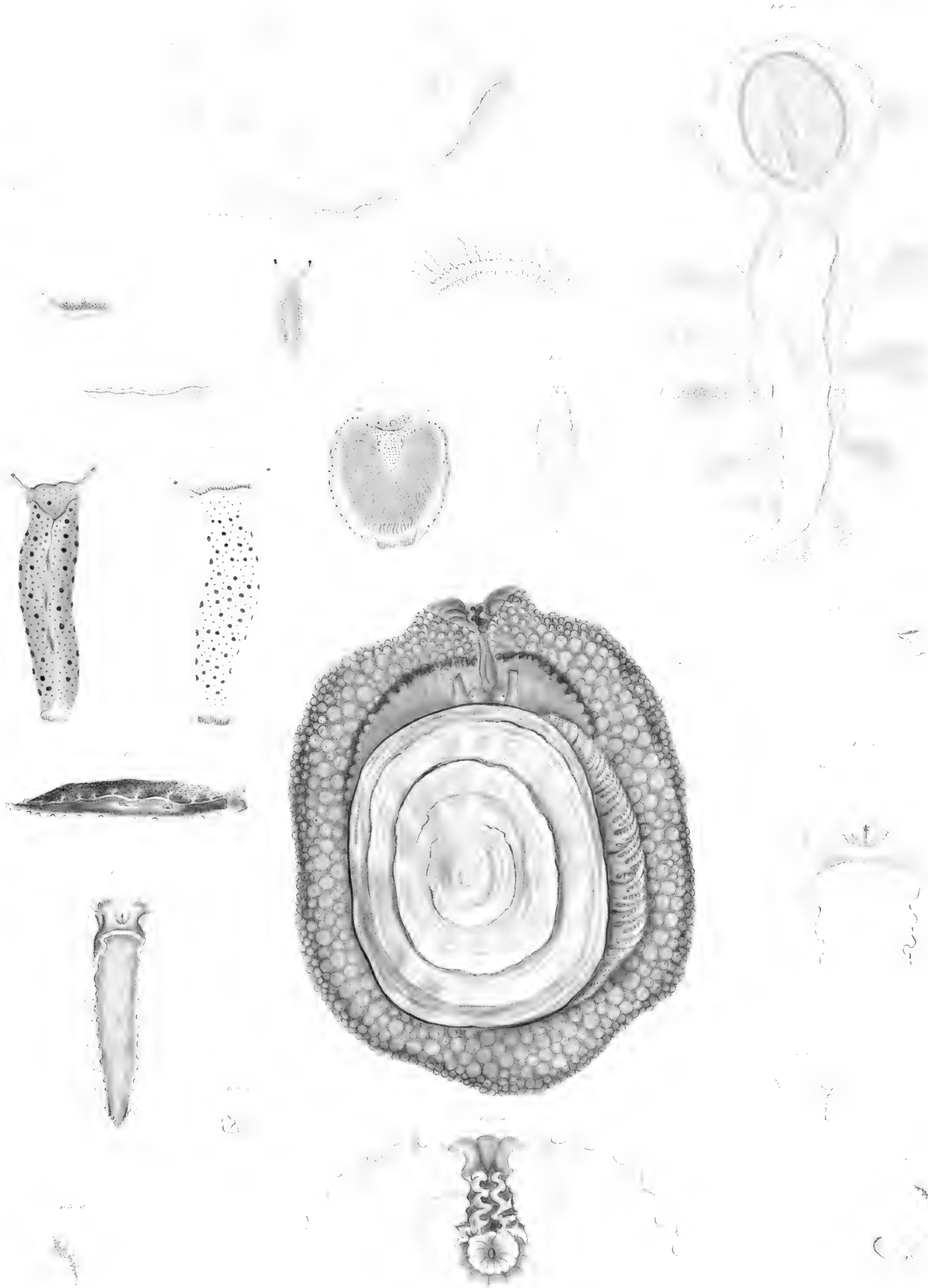
402 a-c. *Eolis cyanella* Couth.

400 a-c. *Doris dorsalis* G.
401 a-d. *Eolis attenuata* Couth.

Drawn by J. Brant
J. P. Gougeon.

W. G. Norton Sc.



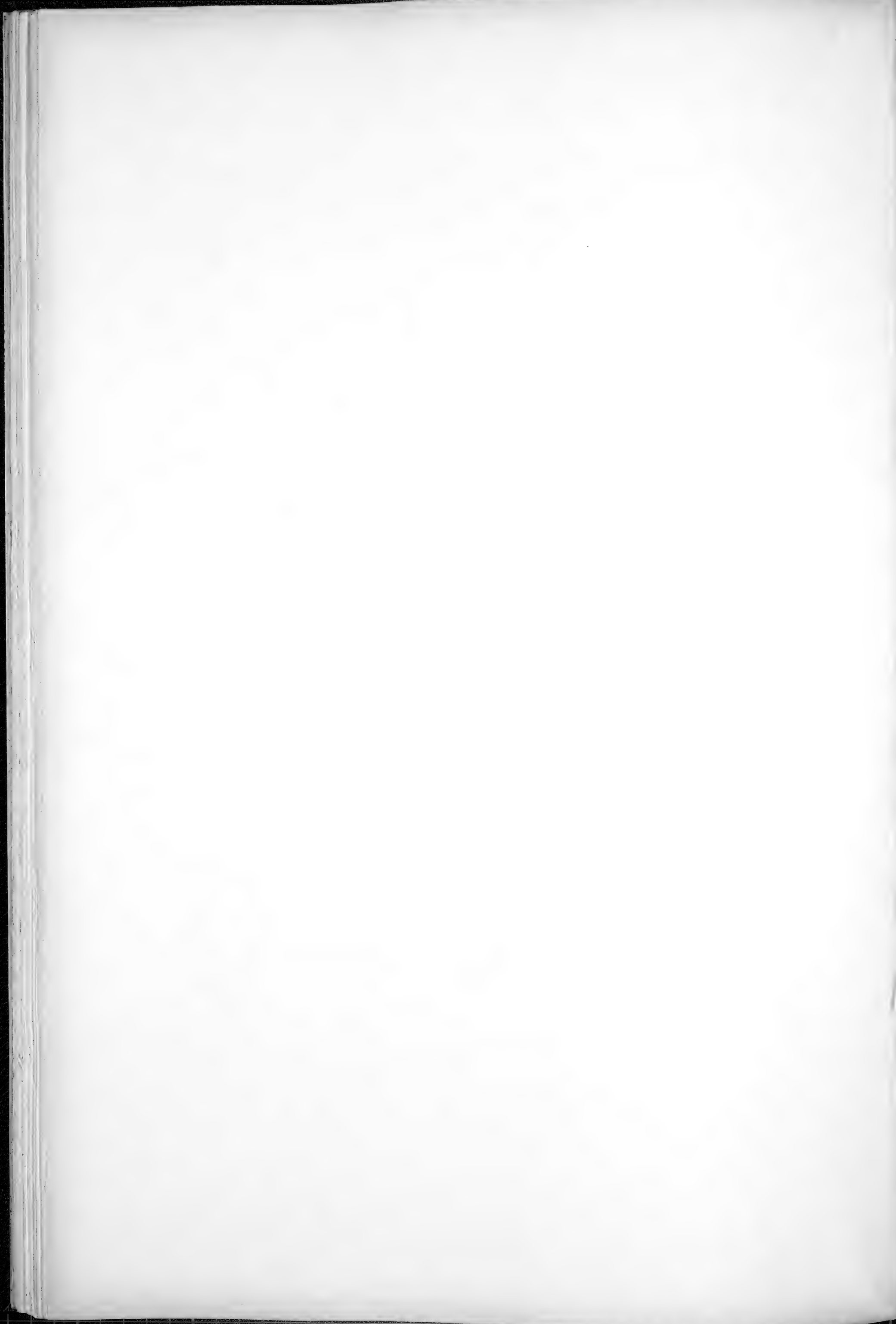


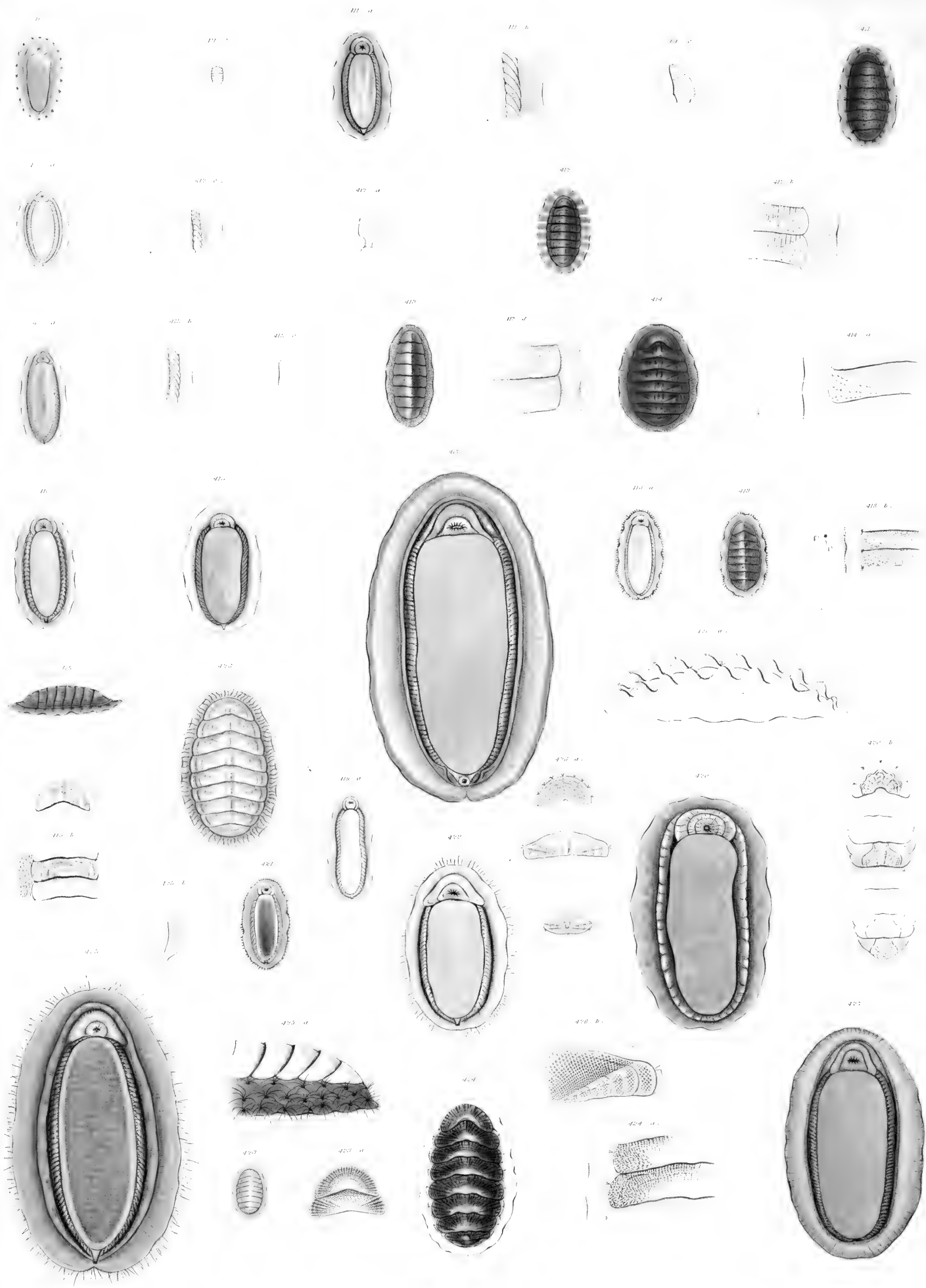
403 a, f *Tritonia cucullata* Cuth.
 404 a, b *Chiocera leonina* G.
 405 a *Elysia lobata* G.

406 a *Diphyllidia rubida* G.
 407 a-c *Placobranchus ianthobaptus* G.
 408 a *Umbrella Indica* Auct.

Drawn by J. Drayton.

W. H. Dreyfus, Sc.

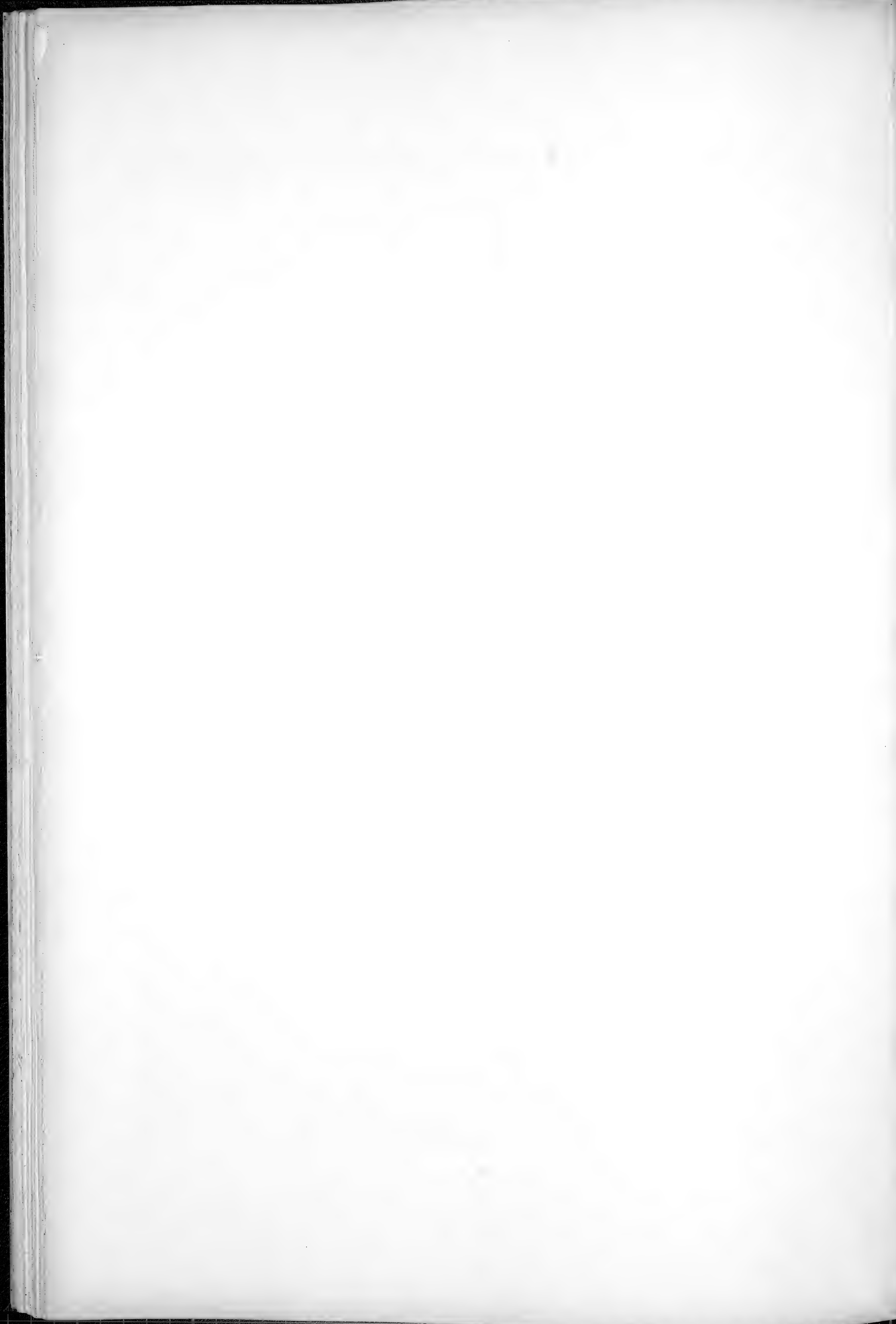


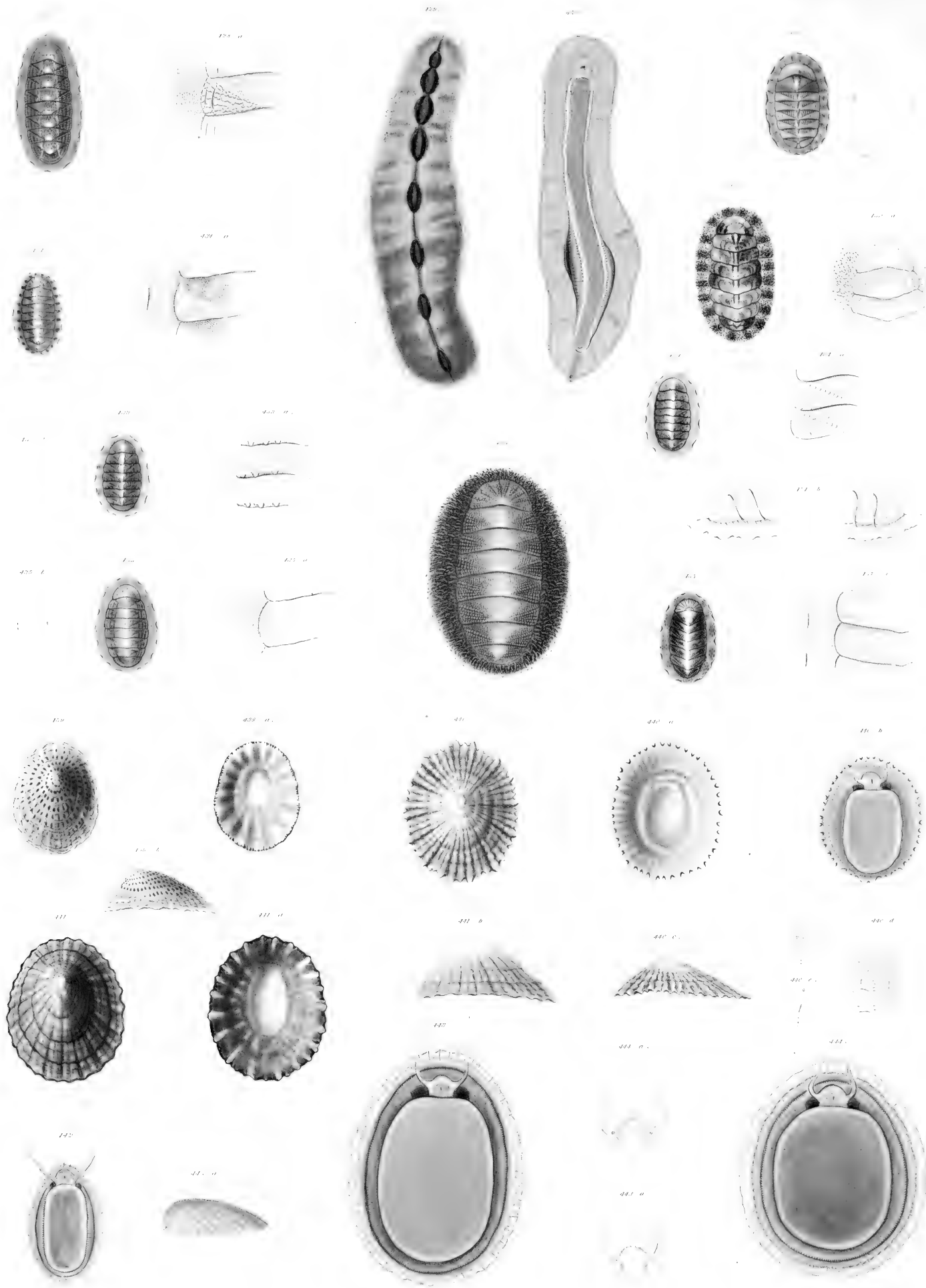


410 *Chiton Zelandicus* Quoy
 411 a d — *castaneus* Couth.
 412 a d — *panicus* Couth.
 413 a d — *viridulus* G.
 414 a — *jaspideus* G.
 415 — *atratus* Somb.

416 *Chiton lineolatus* Fremb.
 417 — *disjunctus* Fremb.
 418 a. b — *asperinus* Couth.
 419 a. b — *pruinatus* G.
 420 a. b — *violaceus* Quoy.
 421 — *Janeirensis* Somb.

422 *Chiton Peruvianus* Lam.
 423 a — *interstinctus* G.
 424 a — *lignus* G.
 425 a. b — *setiger* King
 426 a. b — *vespertinus* G.
 427 — *Copimbensis* Fremb.

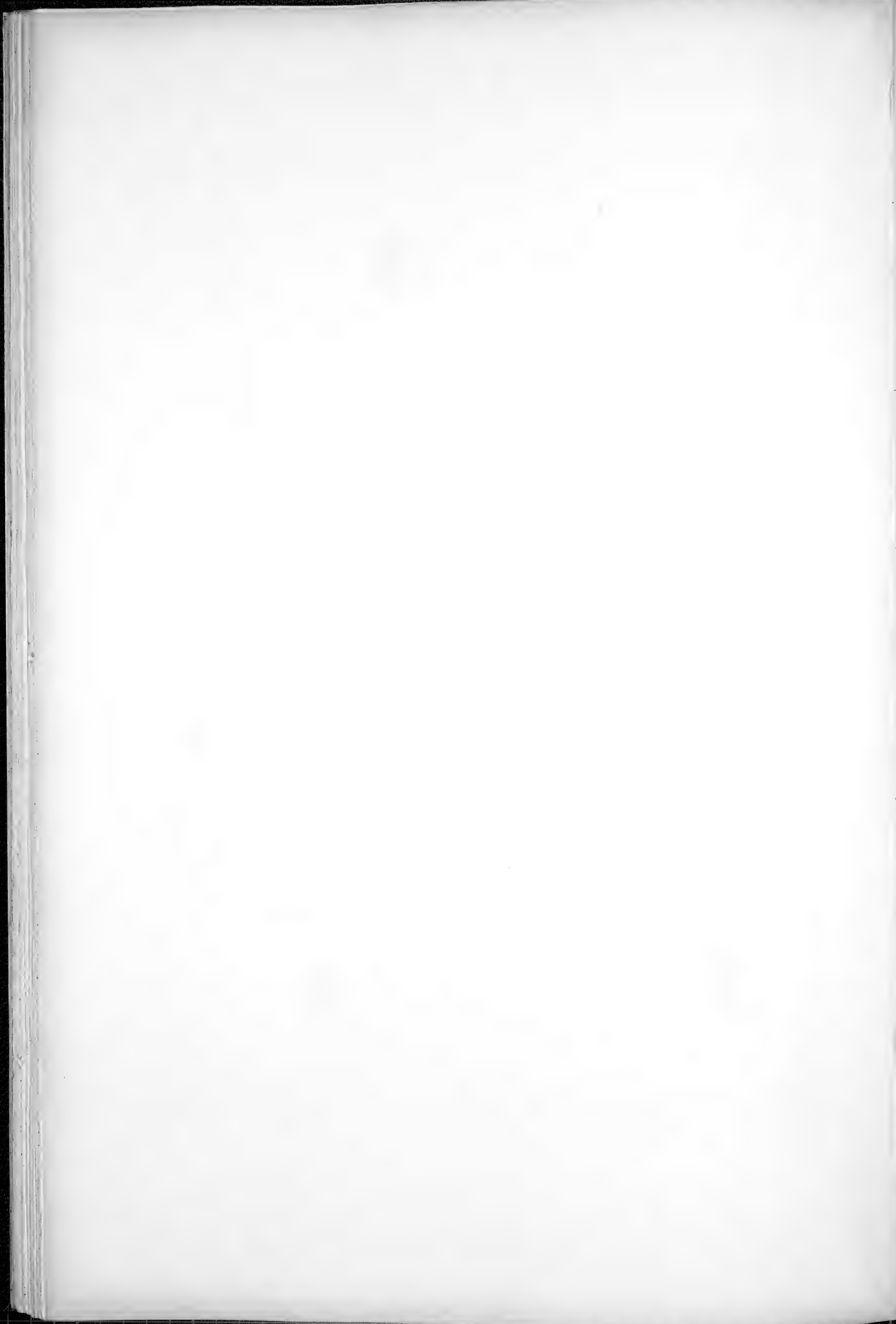


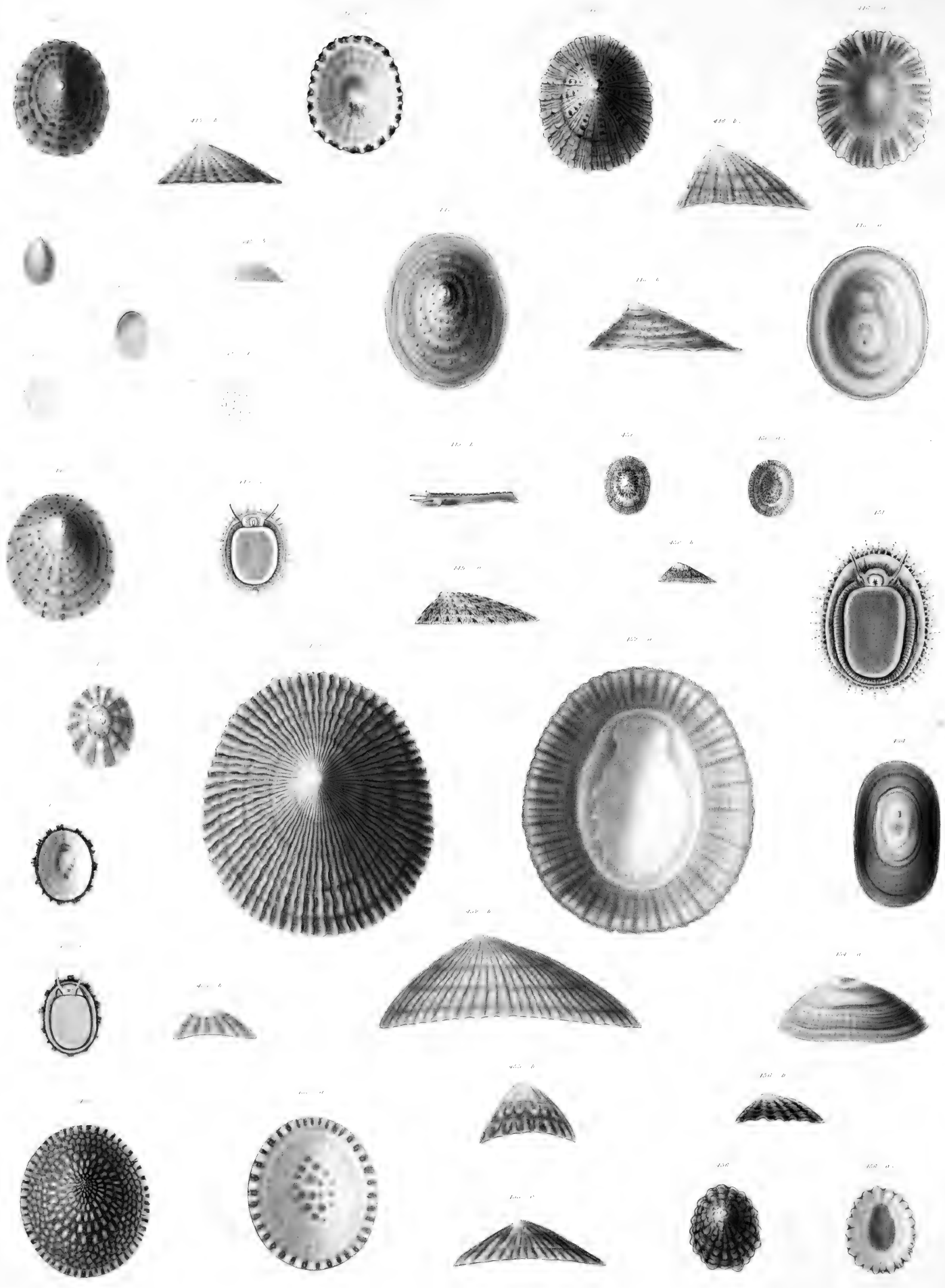


428 a *Chiton fenticosus* G.
 429 a *Chitonellus fasciatus* Quoy
 430 *Chiton jugosus* G.
 431 a — *platessa* G.
 432 a — *incanus* G.

433 a, b *Chiton dentiens* G.
 434 a, b — *centosus* G.
 435 a, b — *petaloides* G.
 436 — *muscosus* G.
 437 a — *quercinus* G.
 439 a, b *Patella piperata* G.

440 a, c *Patella Paumotuensis* G.
 441 a, b — *illuminata* G.
 442 a — *cymbalaria* Lam.
 443 a — *ferruginea* Wed.
 444 a — *decurata* Guel.



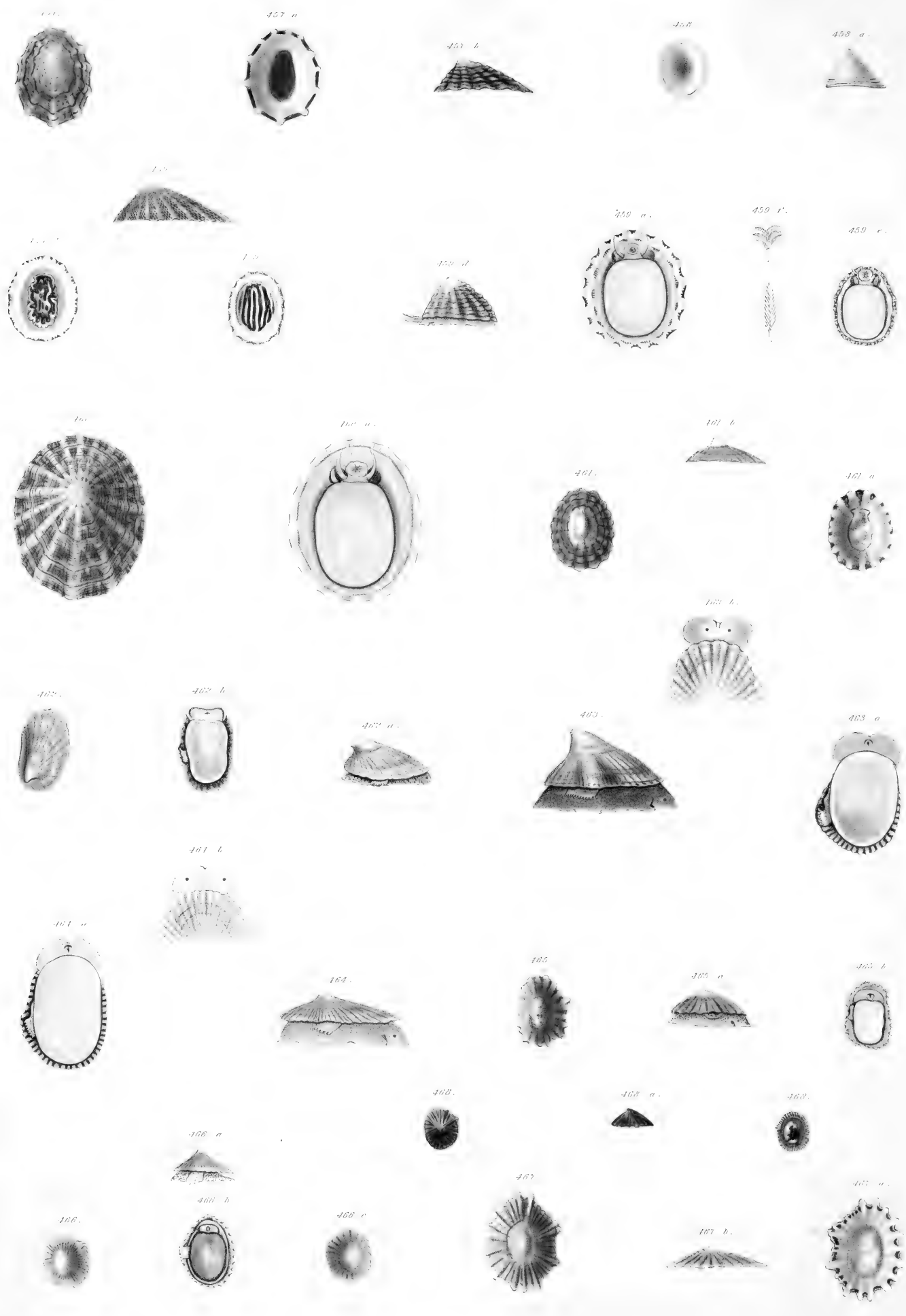


437 a, b *Patella imbricata* G. 449 a-c *Patella sagittata* G. 453 a-c *Lottia cymbata* G.
 440 a, b — *lucinesa* G. 450 a, b — *arancosa* G. 454 a — *instabilis* G.
 441 a-d — *cinnamomea* G. 451 — *argentea* G. 455 a-c — *pintadina* G.
 448 a, b — *citullus* G. 452 a, b — *talcosa* G. 456 a, b — *scabra* G.

Drawn by Johnston & Beudant

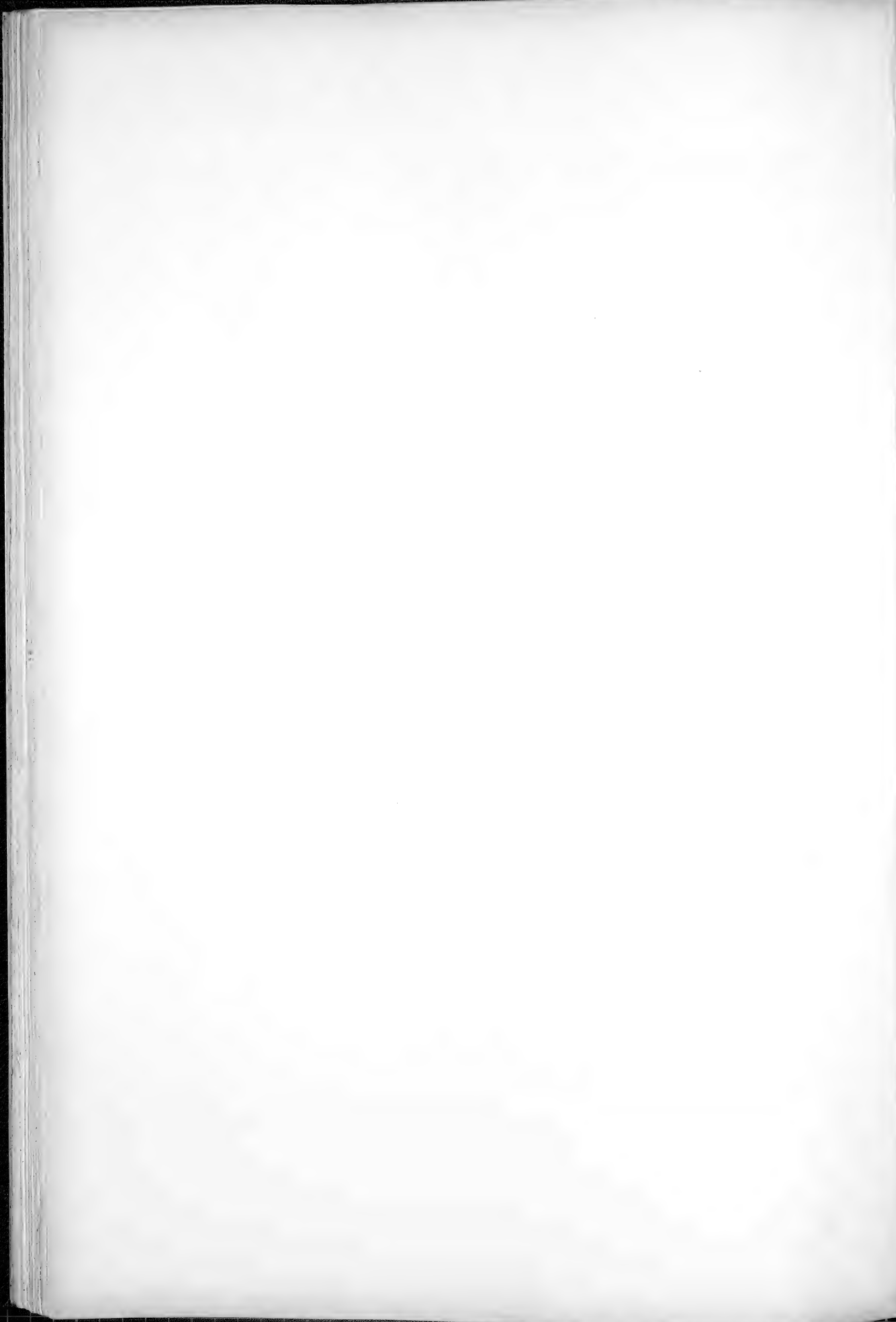
W.H. Burdett Sc.





157 a, b. *Lottia textilis* G. 460 a. *Lottia nebrina* Lessen 463 a, b. *Siphonaria* Lesson Blain.
 158 a. *venosa* G. 461 a, b. *antarctica* Coth.
 459 a, b. *viridula* Lam. 462 a, b. *Siphonaria lateralis* Coth.
 467 a, b. *Siphonaria crenata* G. 468 a, b. *normalis* G.
 464 a-c. *comata* G.
 465 a-c. *costata* (L.) M.D. n. 18.

Drawn by J. DeKay
 & Bangs

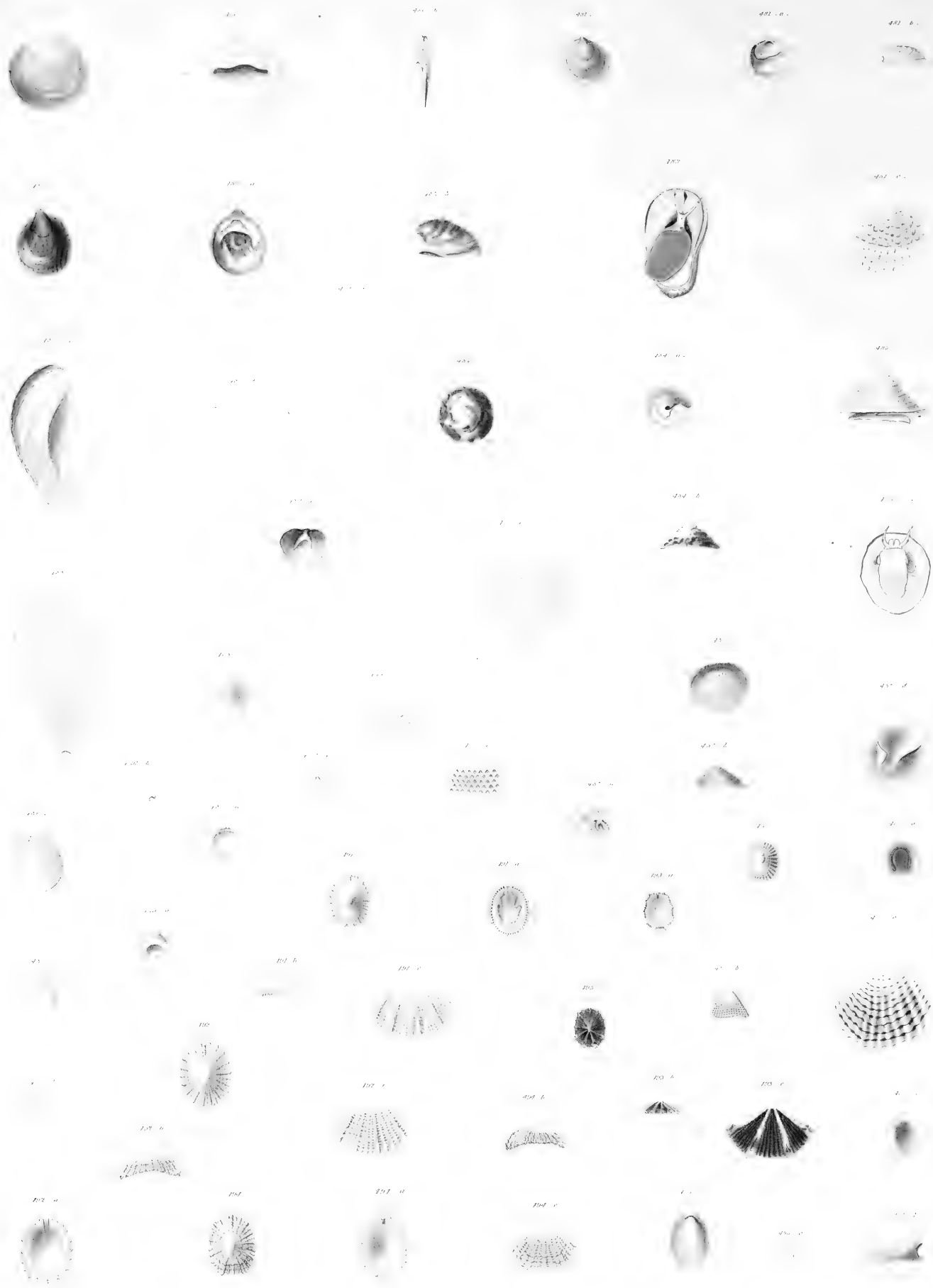




470 a *Fissurella picta* Lam.
 471 a, b ——— *crabilla* G.
 472 a-c ——— *verno* G.
 473 a, b ——— *occidens* G.

474 a-c *Fissurella cruciata* G.
 475 a-c *Kimula cucullata* G.
 476 a-c ——— *galcata* G.
 477 a-c ——— *conica* M. & B.
 478 a-c ——— *cegnata* G.



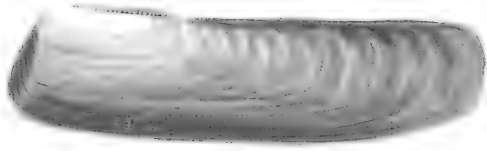


430 a, b *Crepulata* *minimaria* G.
 431 a-c ——— *lingulata* G.
 432 a, b ——— *restriformis* G.
 433 a-c *Leptocochus* *madreporum* G.
 434 a, b *Calyptrea* *fastigiata* G.

435 a *Calyptrea* *pilatus* Wrb.
 436 a, d *Capulus* *sagittifer* G.
 437 a, d *Calyptrea* *chlorina* G.
 438 a-c ——— *radiosa* G.
 439 a, b *Pileopsis* *crystallina* G.
 440 a-c *Hippopsis* *imbricata* G.

441 a-c *Emarginula* *virgata* G.
 442 a-c ——— *essea* G.
 443 a-c ——— *aspera* G.
 444 a-c ——— *cinerea* G.
 445 a-c *Ancylus* *aduncus* G.





498 a, b *Mya plicata* G.
500 a, b *Pandora cistula* G.
501 a, b *Silen siliurus* G.

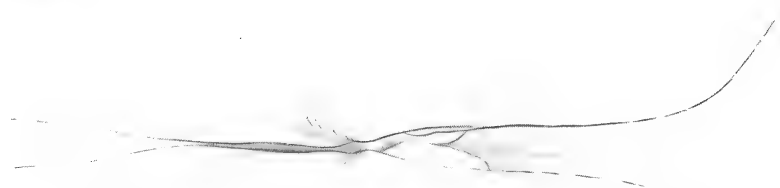
502 a, b *Silen scalprum* G.
503 a, b *Maetra delata* G.
504 a, b — *emula* G.

505 a, b *Maetra muricata* G.

Drawn by J. E. Gray
and F. S. Collins

C. L. Deane Sc.

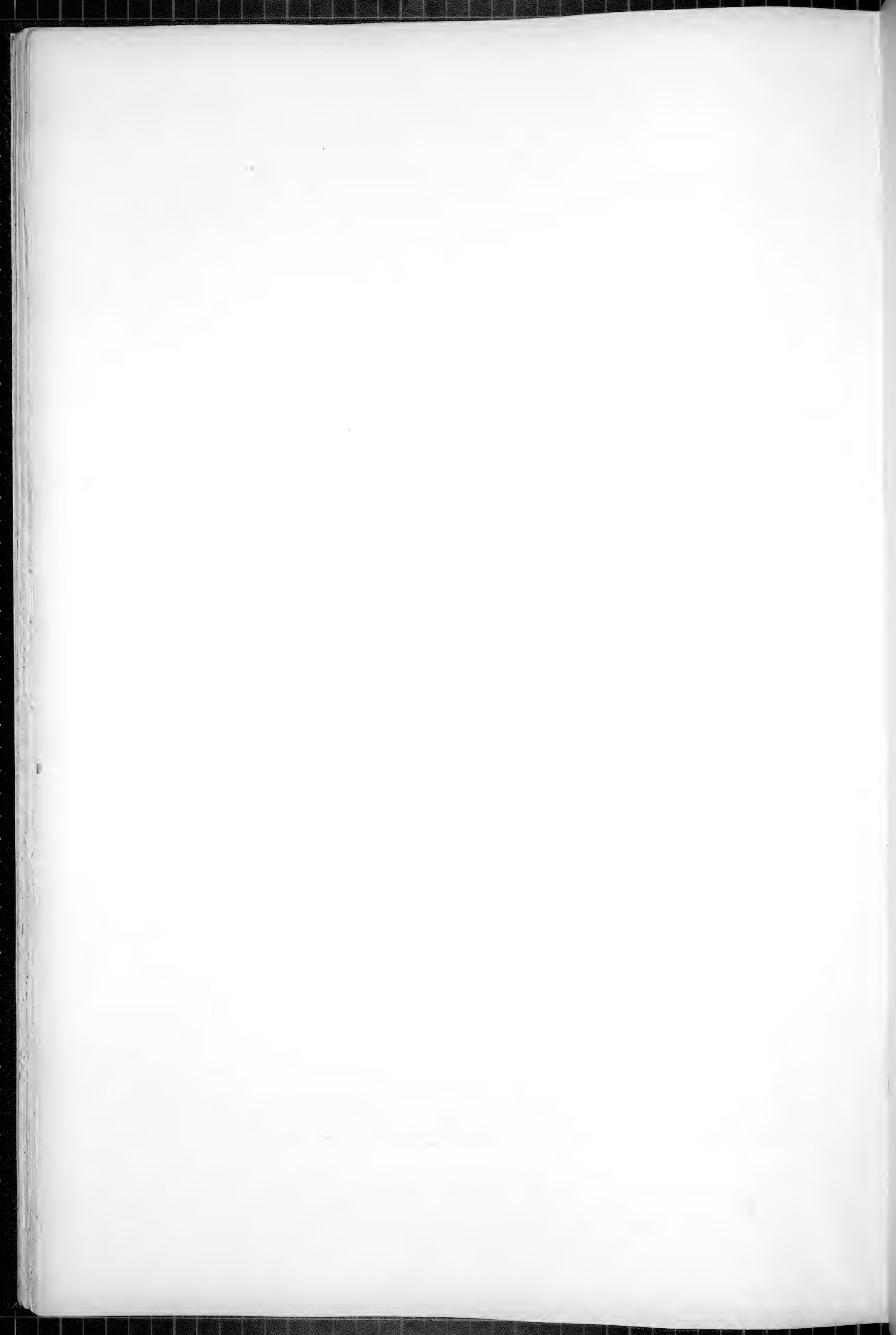




506. a b *Maetra filicata* G.
 507. a b *Pancpaea genivsa* G.
 508. a b *Lutraria cupas* G.

Drawn by A. P. Silliman.

W. H. Dall.





509 a, b *Ostrealesma bractatum* G.
 510 a, b *Brasilense* G.
 511 a, b *Mesolesma mundum* G.
 512 a, b *Amphulesma crevatum* G.
 513 a, b *Psammobia florida* G.

514 a, b *Tellina laute* G.
 515 a, b — *compta* G.
 516 a, c — *perula* G.
 517 a, b — *exculta* G.
 518 a, b — *tithenia* G.

Drawn by J. D. Dyer
 C. A. E. Bellows.

W. H. Burges del.





519 a b *Tellina concentrica* G.
 520 a b *Donax pallidus* G.
 521 a *Lucina* G.
 522 a b *Lucina* G.
 523 a b *Lucina ramulosa* G.

524 a b *Lucina inculta* G.
 525 a b *Lucina vesiculata* G.
 526 a b *Cyclus egregia* G.
 527 a b *Patella* G.
 528 a b *Lucina* G.

529 a b *Cyrenus debilis* G.
 530 a *Cardium varicosum* G.
 531 a *Cardium* G.
 532 a *Cardium blondum* G.

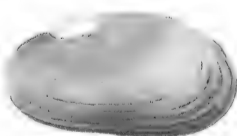
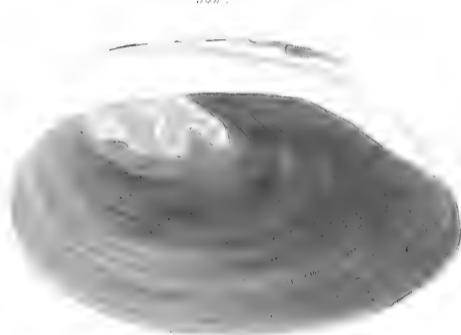
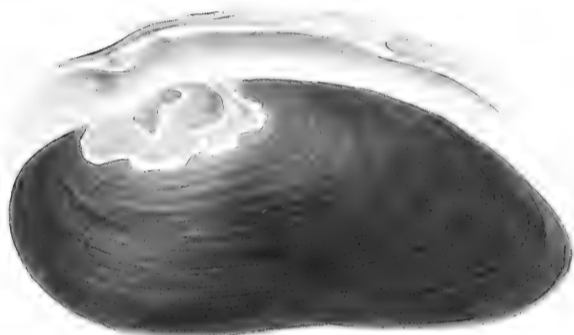
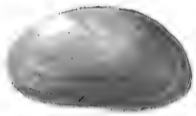
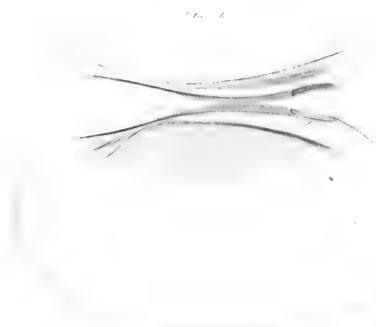
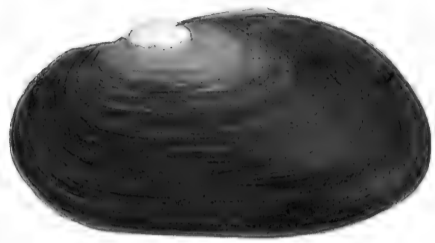




535 a, b *Cyprina rosea* G.
 536 a *Arthonis lamellata* G.
 537 a *Venus texana* G.
 538 a, b *rigida* G.

539 a, c *Nucula sulcata* G.
 540 a, b *Uvic d'arvuesis* G.
 541 a, c — *irrecundus* G.
 542 a, c — *lutulentus* G.





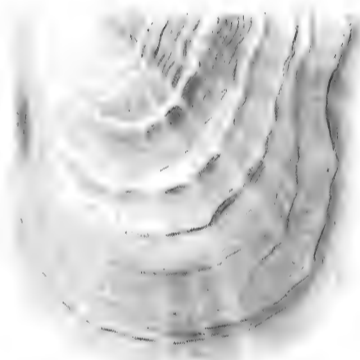
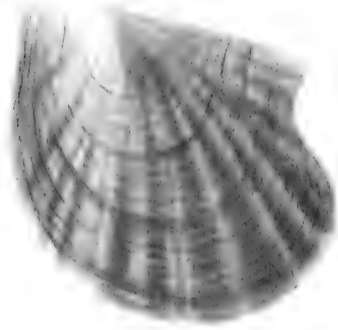
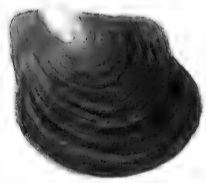
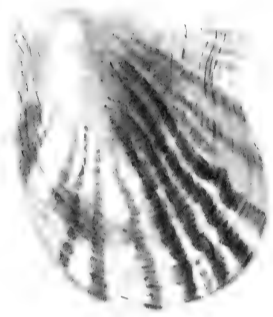
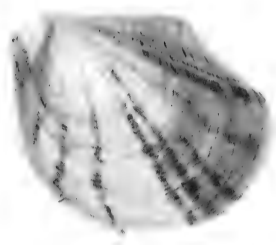
543 a, b *Unio profligatus* G.
544 a, b *limicola* G.
545 a *Musmedonta tuberculata* G.

546 a, b *Anodonta cognata* G.
547 a, b *liminalis* G.
548 a, b *puberula* G.

Drawn by J. Beudant,
S. J. P. Hebert.

W. H. Dougal Sc.



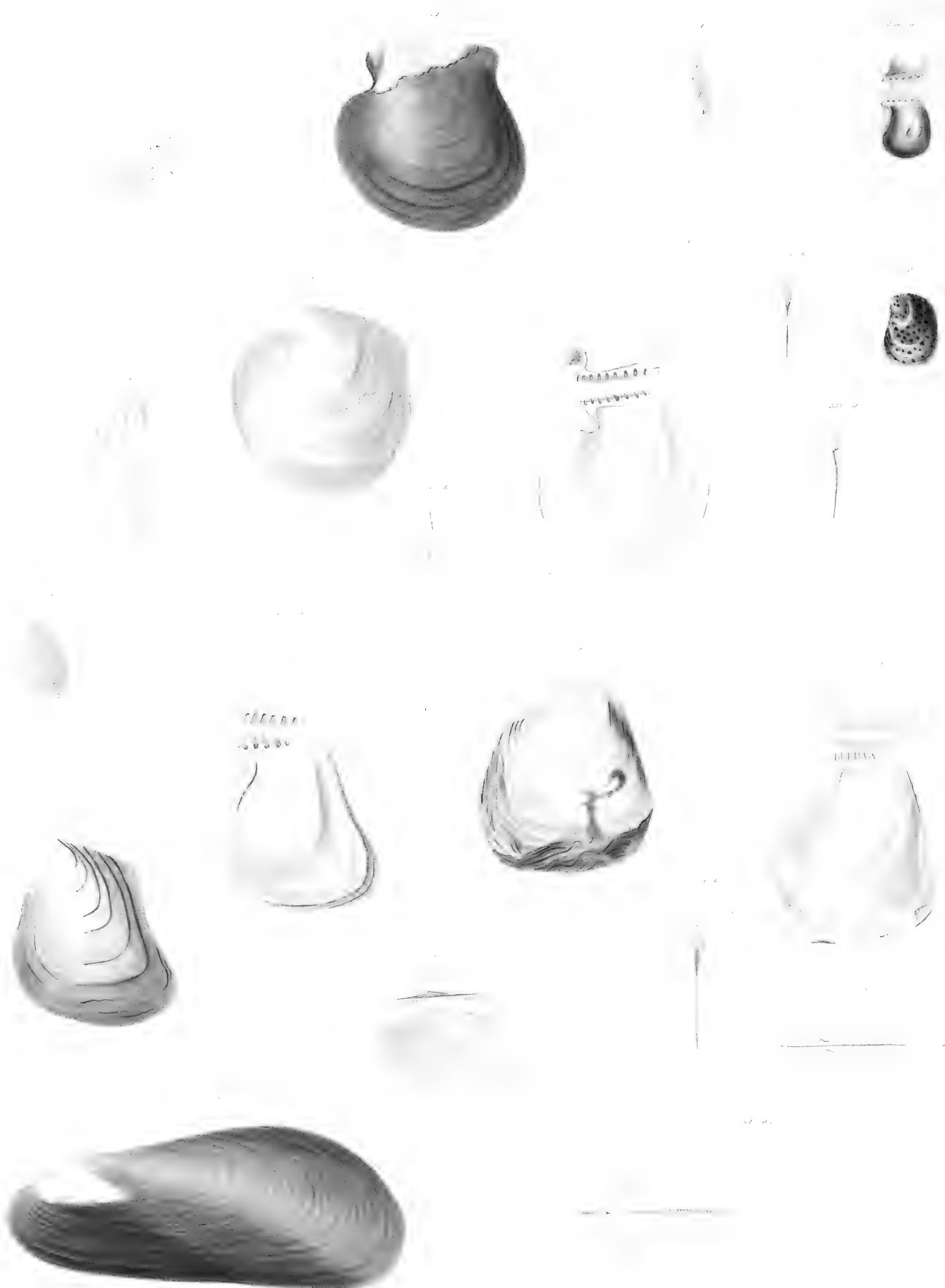


549 a, b *Avicula pica* G.
550 a, b *lurida* G.

553 a, b *Avicula vidua* G.

551 a, b *Avicula lincta* G.
552 a, b *glabra* G.





551 a, b *Avicula nigra* G.
 552 *Margarina margaritacea* Lam.
 553 a, b *Perna nana* G.
 554 a, d *Perna eximila* G.
 555 a, b *Arca* G.
 556 a, b *Perna argillacea* G.
 557 a *Arca scabra* G.
 558 a *Mytilus tuberculatus* G.

Drawn by A. A. Gould,
 J. Beudantic,
 & J. F. Bellows.

W. H. Douglass Sc.

U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C.





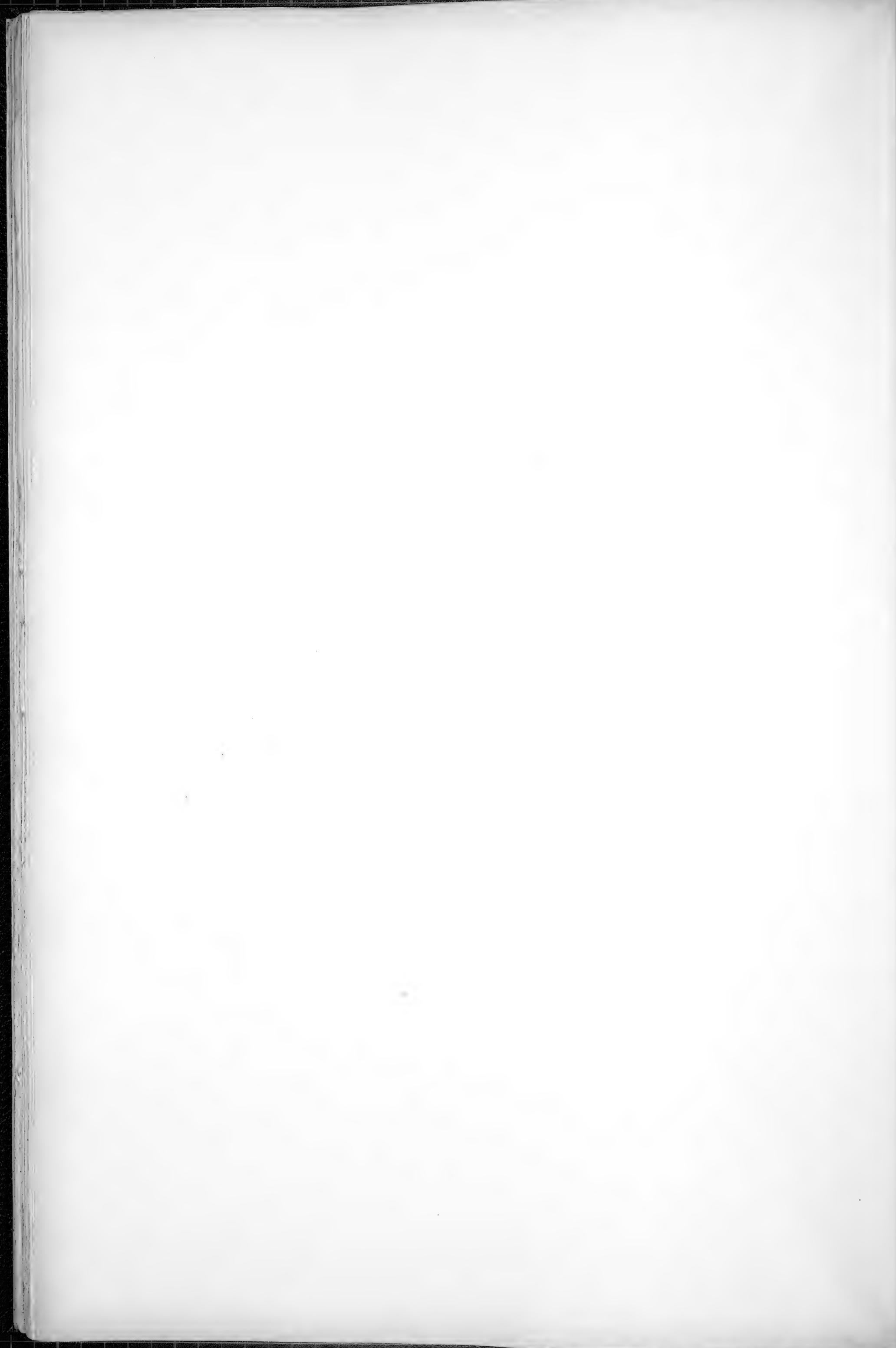
562 a *Mytilus areolatus* G.
 563 a *Mytilus lupatius* G.

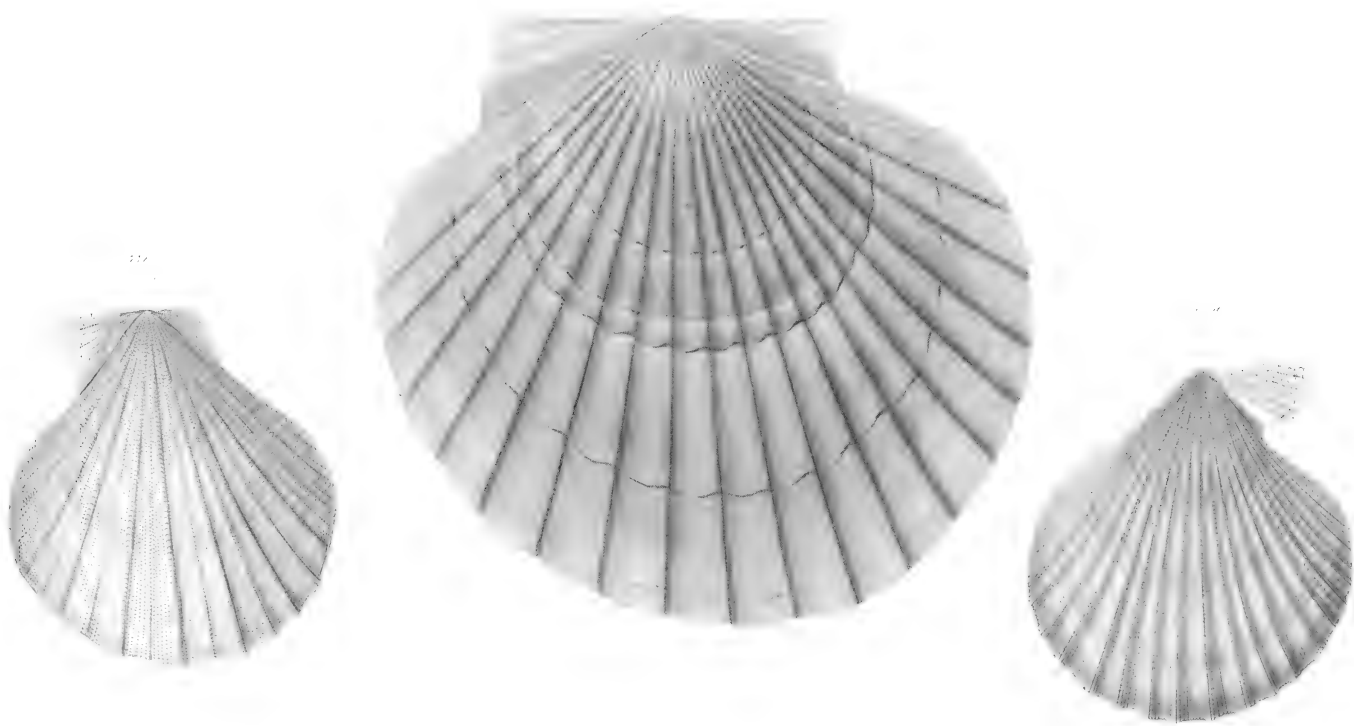
564 a *Mytilus peruvianus* G.
 565 a *Mytilus divaricatus* G.
 566 a *Mytilus alypsus* G.

567 a *Mytilus trossulus* G.
 568 a *Gaimardia trapesina* G.

Drawn by A. P. Bellows

W. H. Dall del.





Urosalpinx
umbonata
 Gmel.



Urosalpinx *umbonata* Gmel.
Urosalpinx *umbonata* Gmel.
Urosalpinx *umbonata* Gmel.

Drawn by J. F. Bellows

W. H. Dall, Sc.





535 a. *Lima taylori* Chen

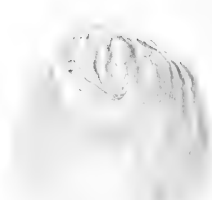
535 a, b *Ostrea merloti* G.
536 a, b - *circumsata* G.

537 a, b *Ostrea glomerata* G.

Drawn by J. E. Smith
& A. P. Silliman

W. H. Dall, Sc.





578 a b *Ostrea discoides* G.
580 a c *Crassa rubiosa* G.
581 a c *Terchetula pulcherrima* G.

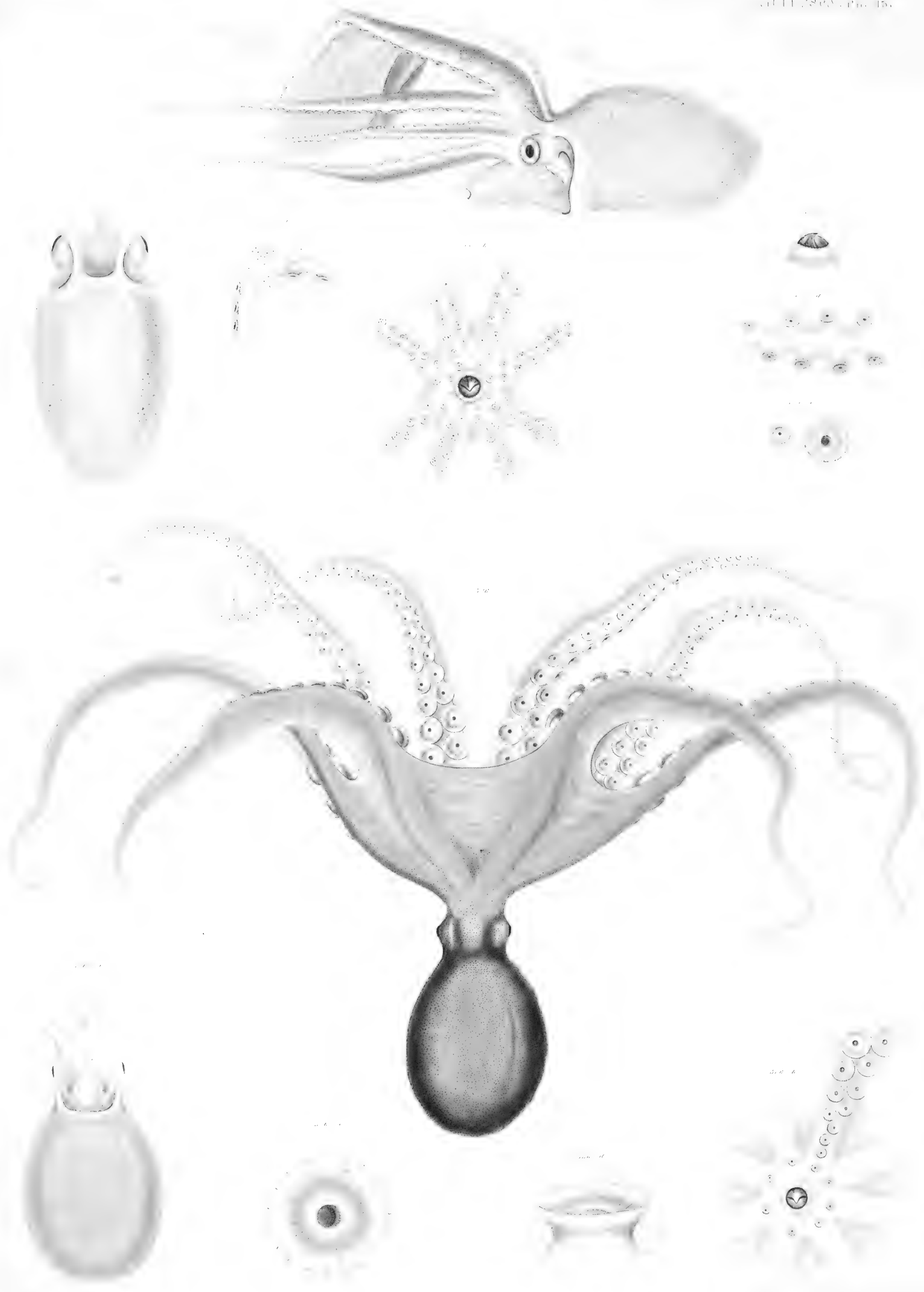
582 a c *Terchetula curvata* G.
583 a c *Terchetula curvata* G.
584 a b *Terchetula curvata* G.

585 a c *Modiolarca pusilla* G.
586 a c *Erycina (Kellia) quadrata* G.
587 a c *Erycina (Kellia) quadrata* G.

Drawn by J. Davenport
& A.F. Bellows

PLATE 44.



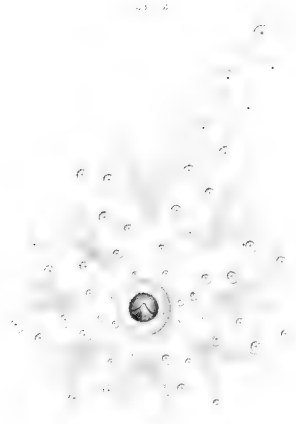
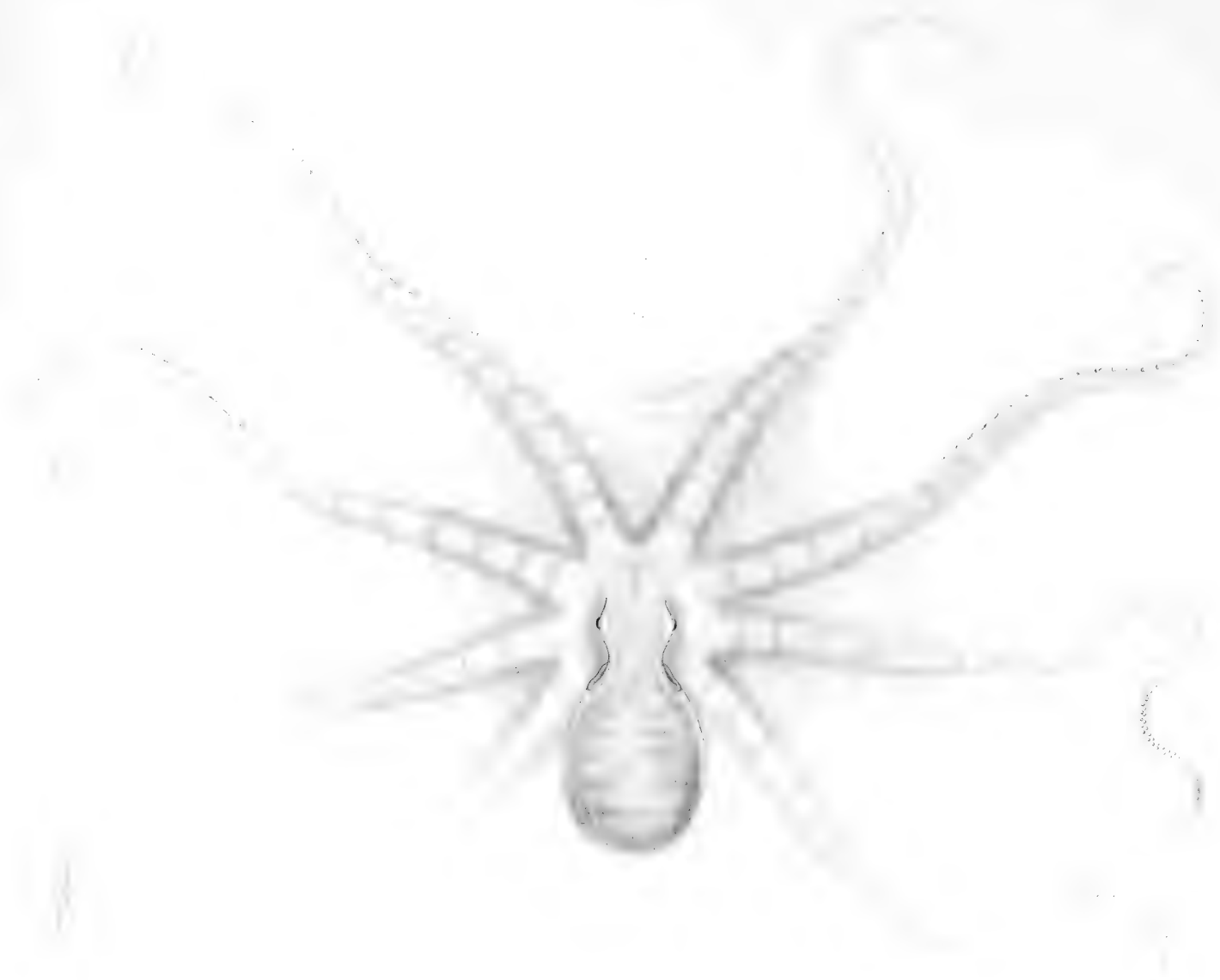


his 585 a c *Argonauta argo* G.
 his 586 a d *Octopus vulgaris* G.

Drawn by J. DeKay.

W. H. DeKay Sc.



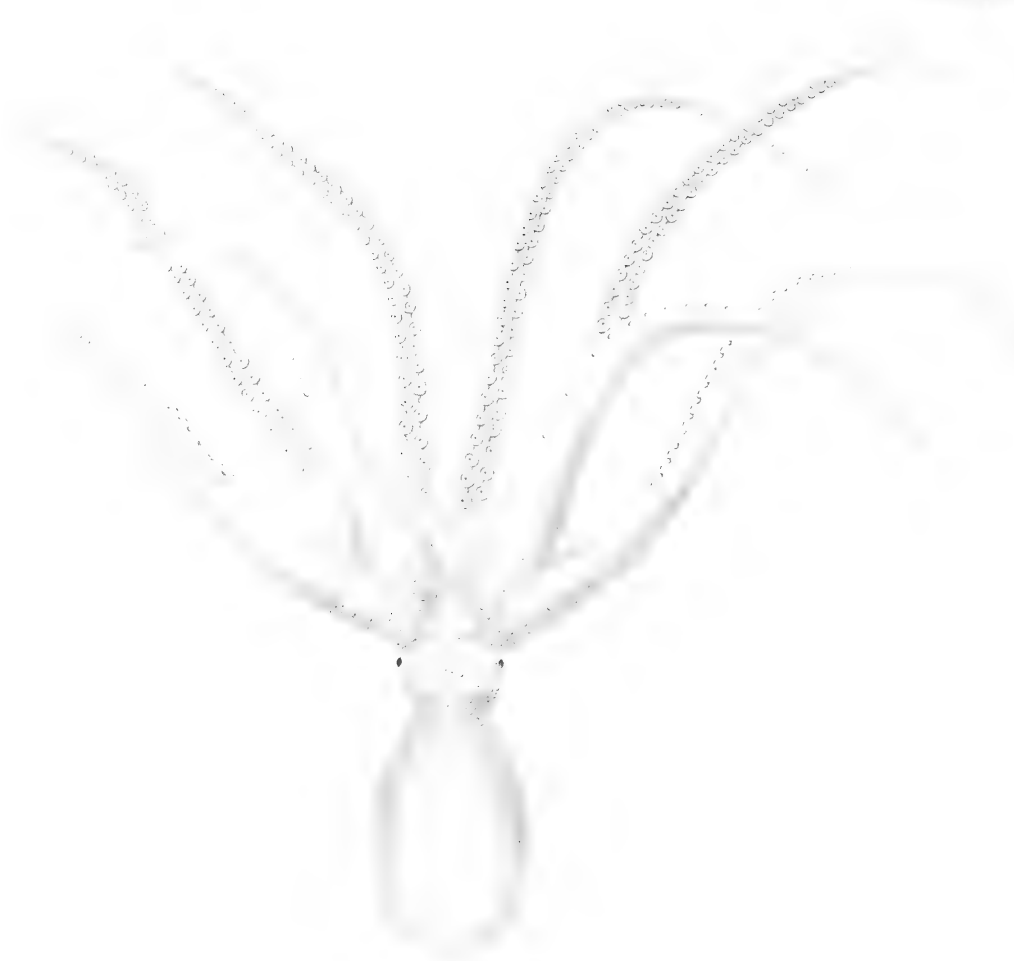


his 503 a c. Cetepeus minus G.

Drawn by J. DeKay.

H. B. DeKay Sc.



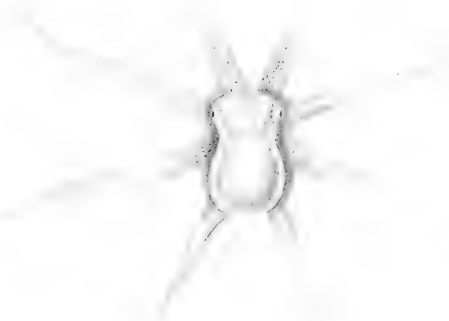
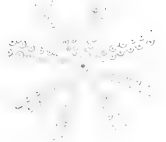
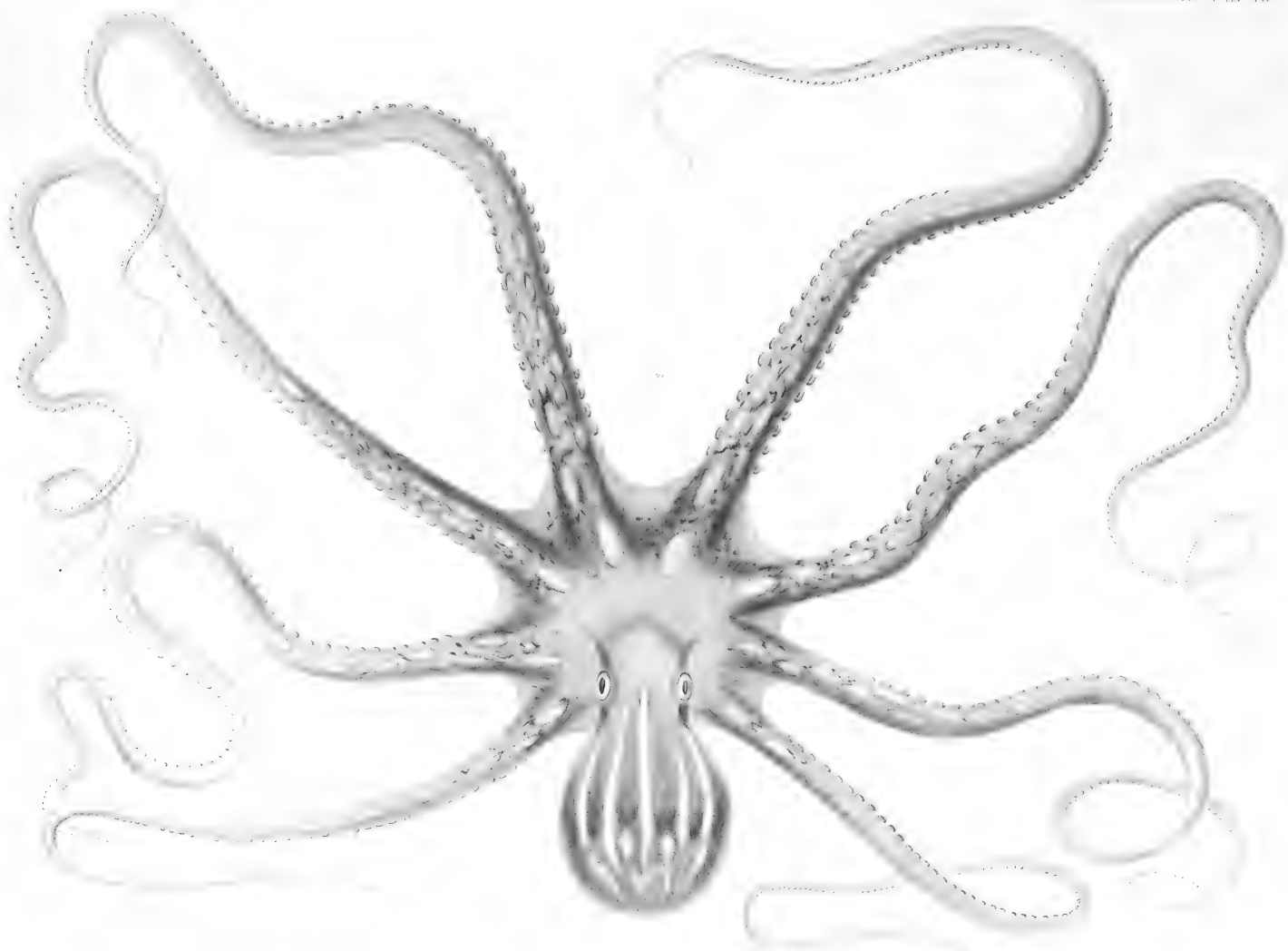


Sepia *sepia* *sepia* *sepia* *sepia* *sepia*
sepia *sepia* *sepia* *sepia* *sepia* *sepia*

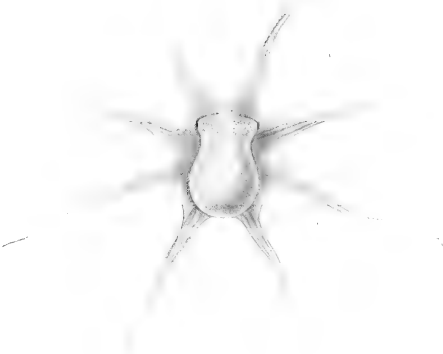
Drawn by J. DeKay

W. H. Bennett Sc.

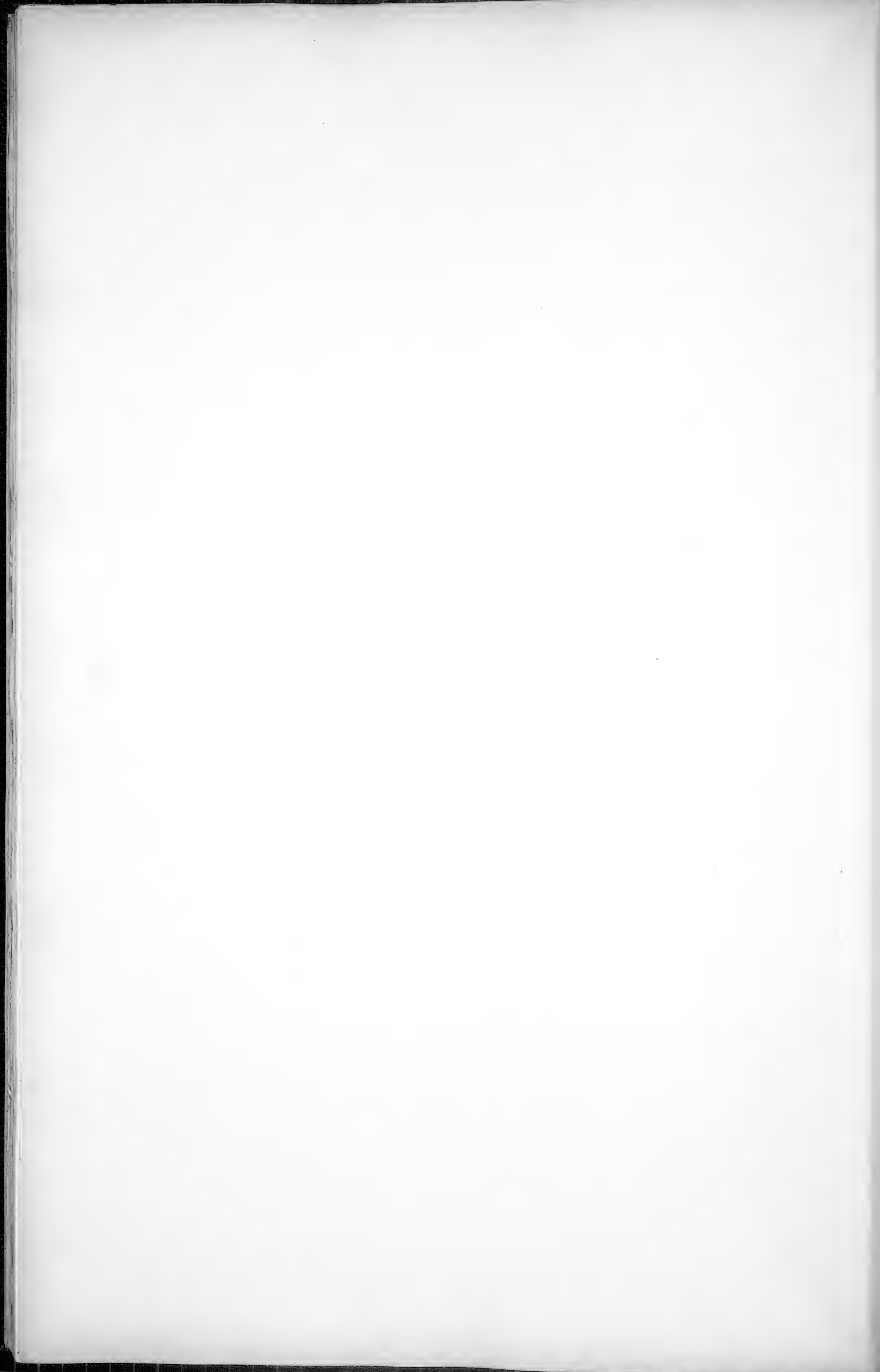


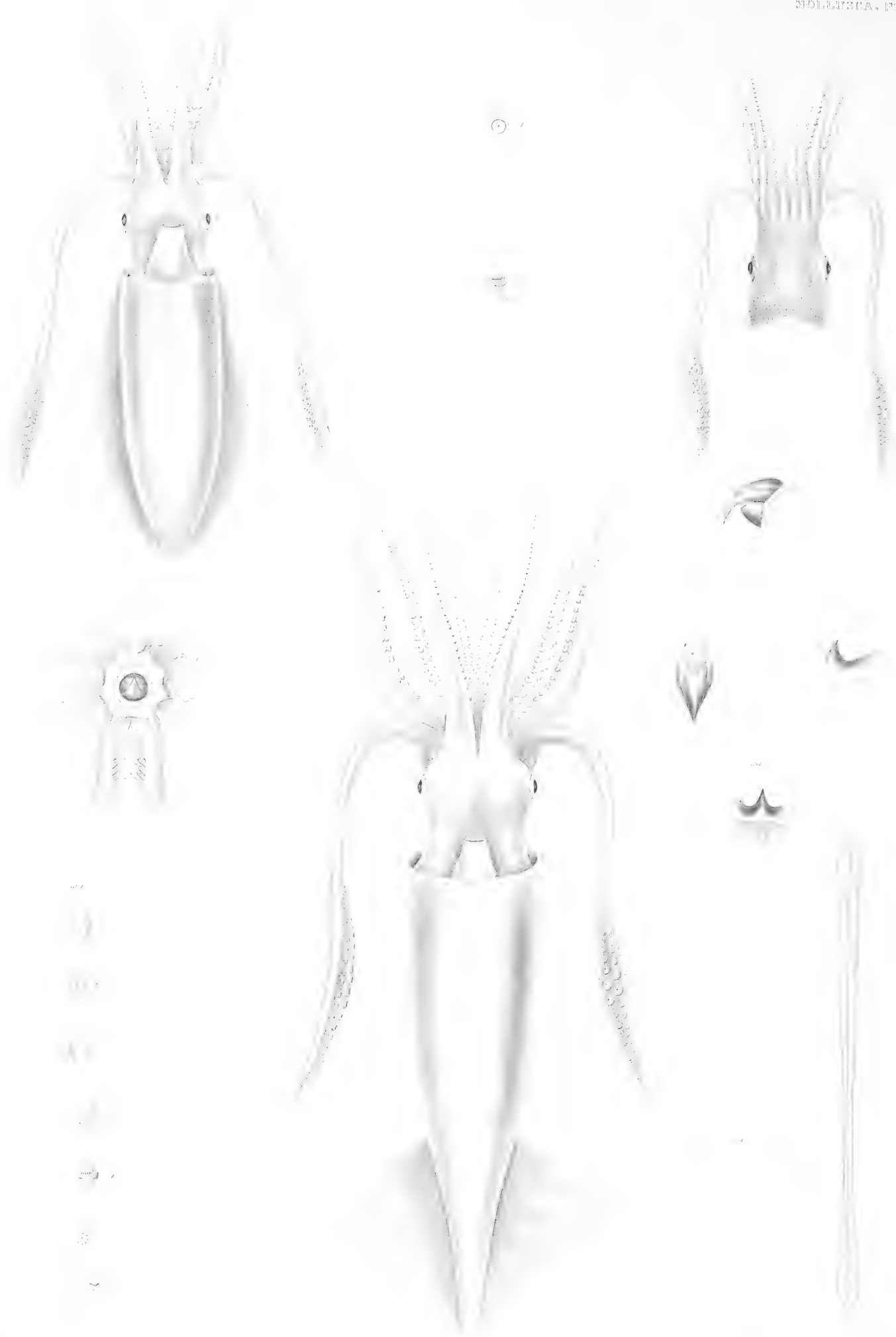


391 a.



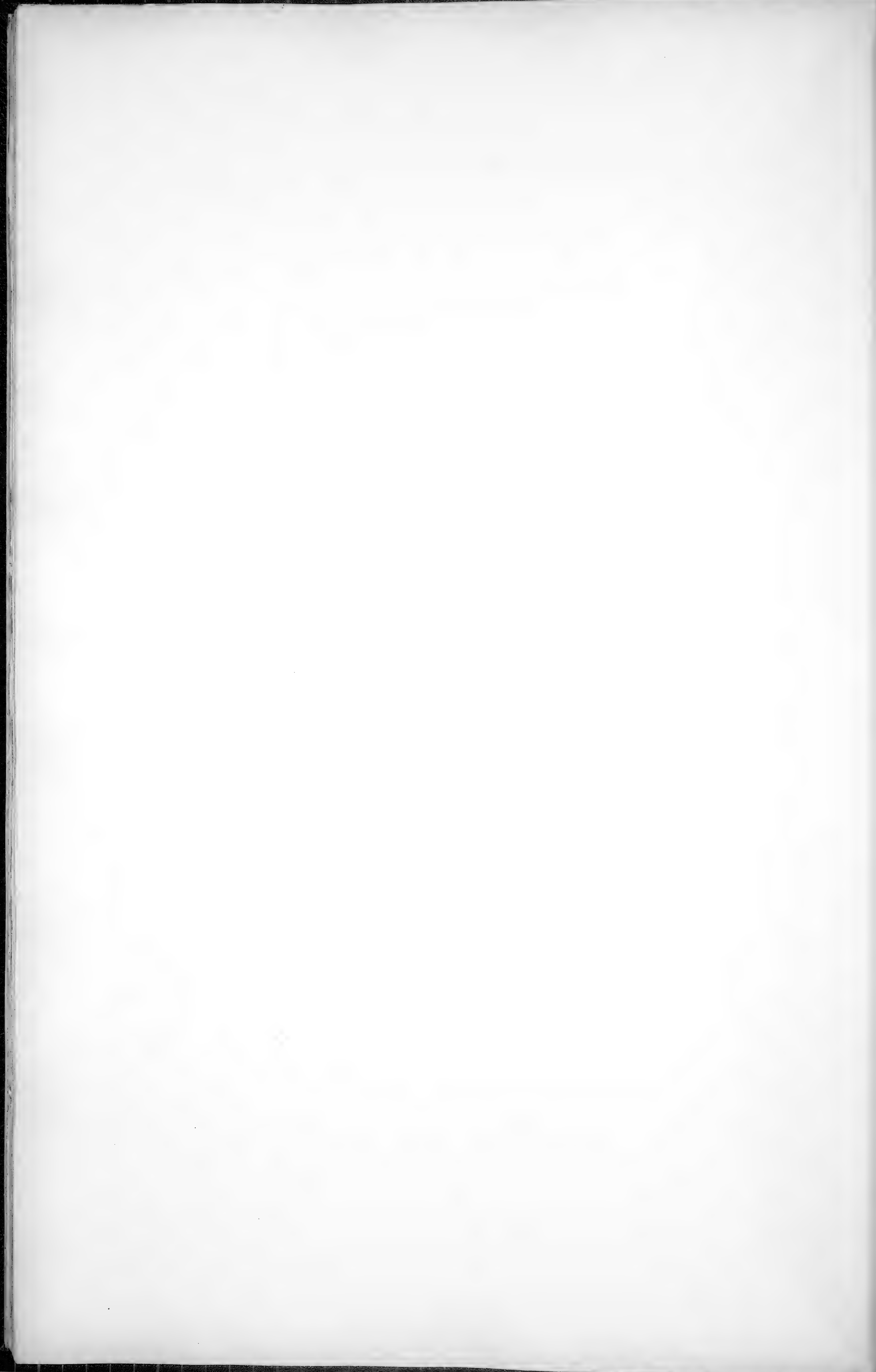
390 a c *Octopus ornatus* G.
 391 a b — *pusillus* G.
 392 a b — *nullis* G.

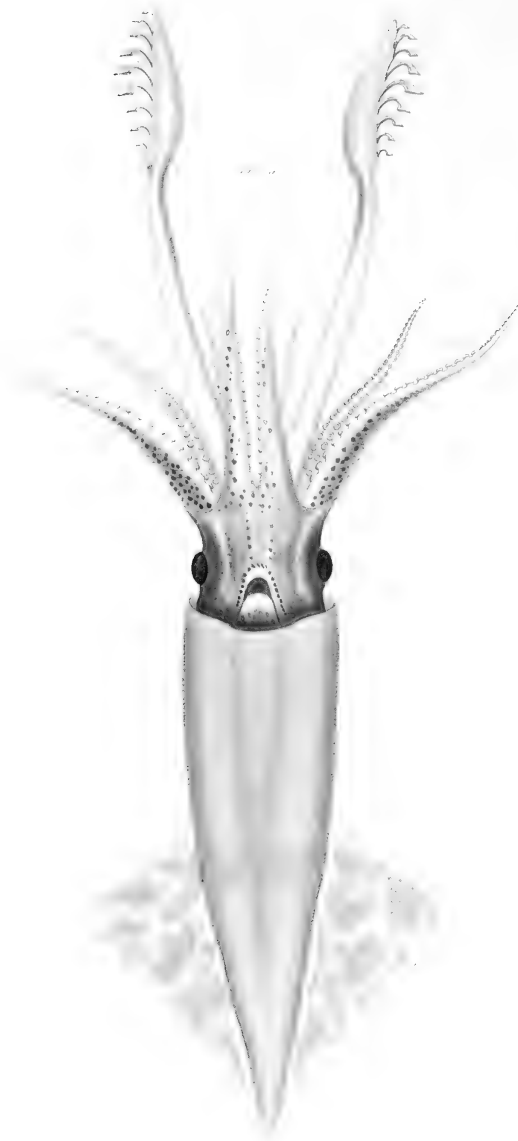
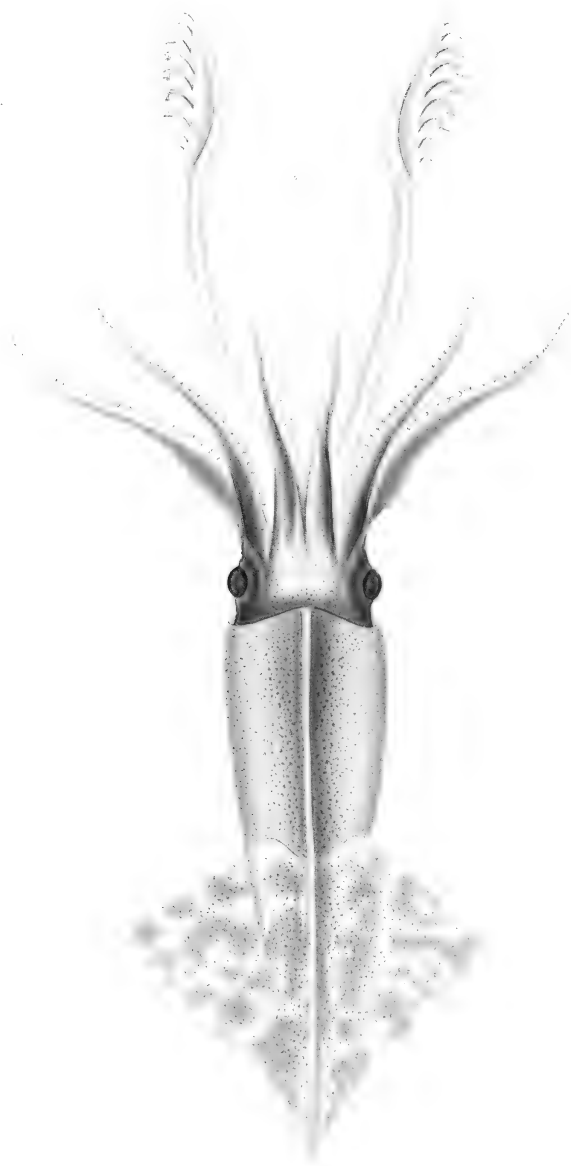




283 a c *Septentulus arctipinnis* d.
 291 a u *Umastrophes usagus* b.

Drawn by Allen.

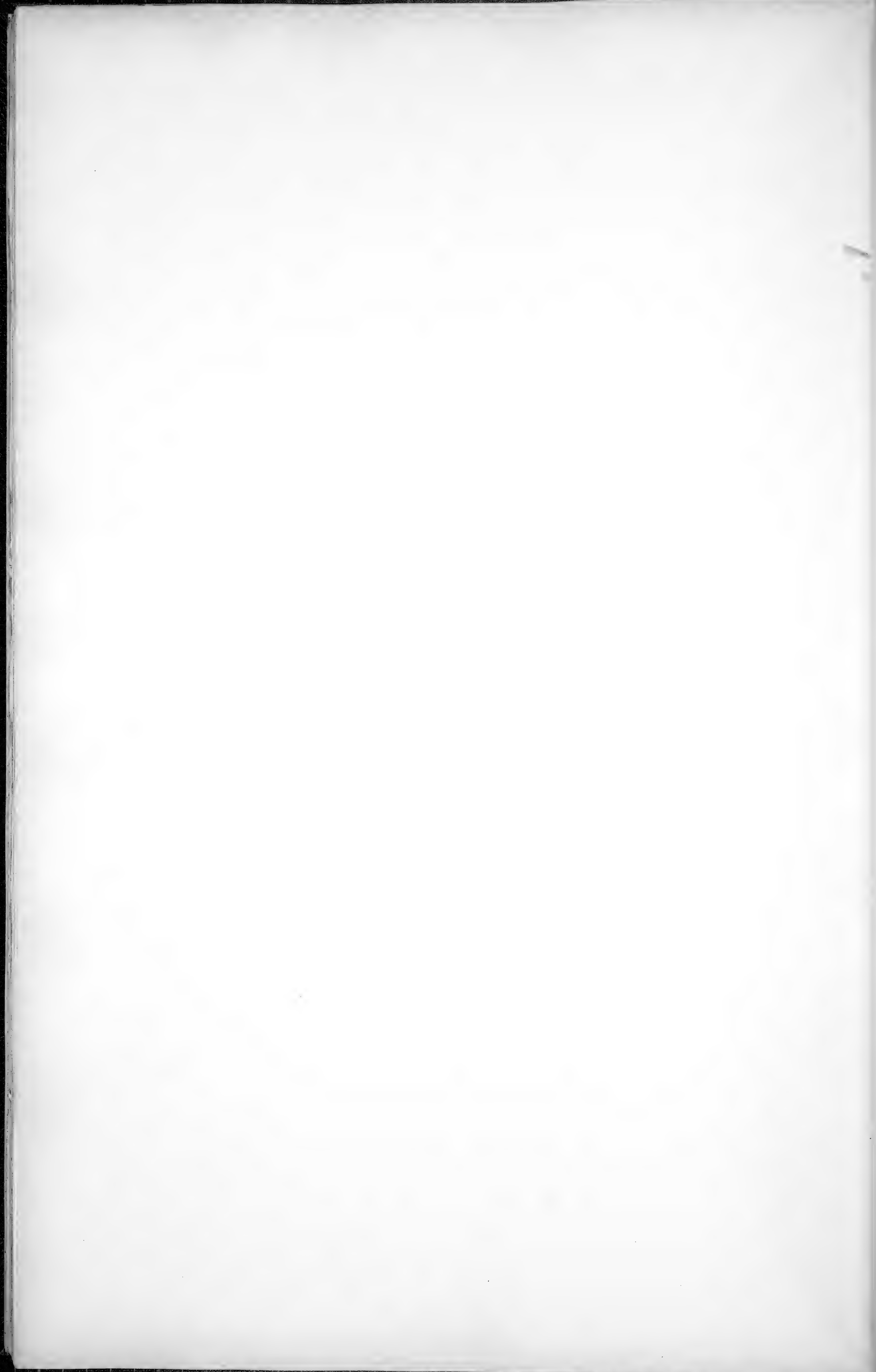




595. a. *Cycloteuthis entulus* G.
 596. *Lucasiana* G.

Drawn by J. Dreyfus

W. H. Dall del.





- | | | | | | | | | | | | |
|----------|----------------|-------------------|----|----------|-----------------|---------------------|----|----------|-----------------|-----------------|----|
| 597 a, d | <i>Atlanta</i> | <i>primitiva</i> | G. | 601 a, b | <i>Linacina</i> | <i>2. cucullata</i> | G. | 605 a, b | <i>Cleodera</i> | <i>eruenta</i> | G. |
| 598 a, c | | <i>canicula</i> | G. | 602 a, b | | <i>scaphidea</i> | G. | 606 a | | <i>placida</i> | G. |
| 599 a, b | | <i>violacea</i> | G. | 603 | <i>Hyalea</i> | <i>femorata</i> | G. | 607 a, b | | <i>minuta</i> | G. |
| 600 a, b | | <i>tessellata</i> | G. | 604 a, c | | <i>incrimis</i> | G. | 608 a | | <i>filicata</i> | G. |

Drawn by J. D. Dana
 J. P. Coulter
 J. Drayton.

W. H. Dall





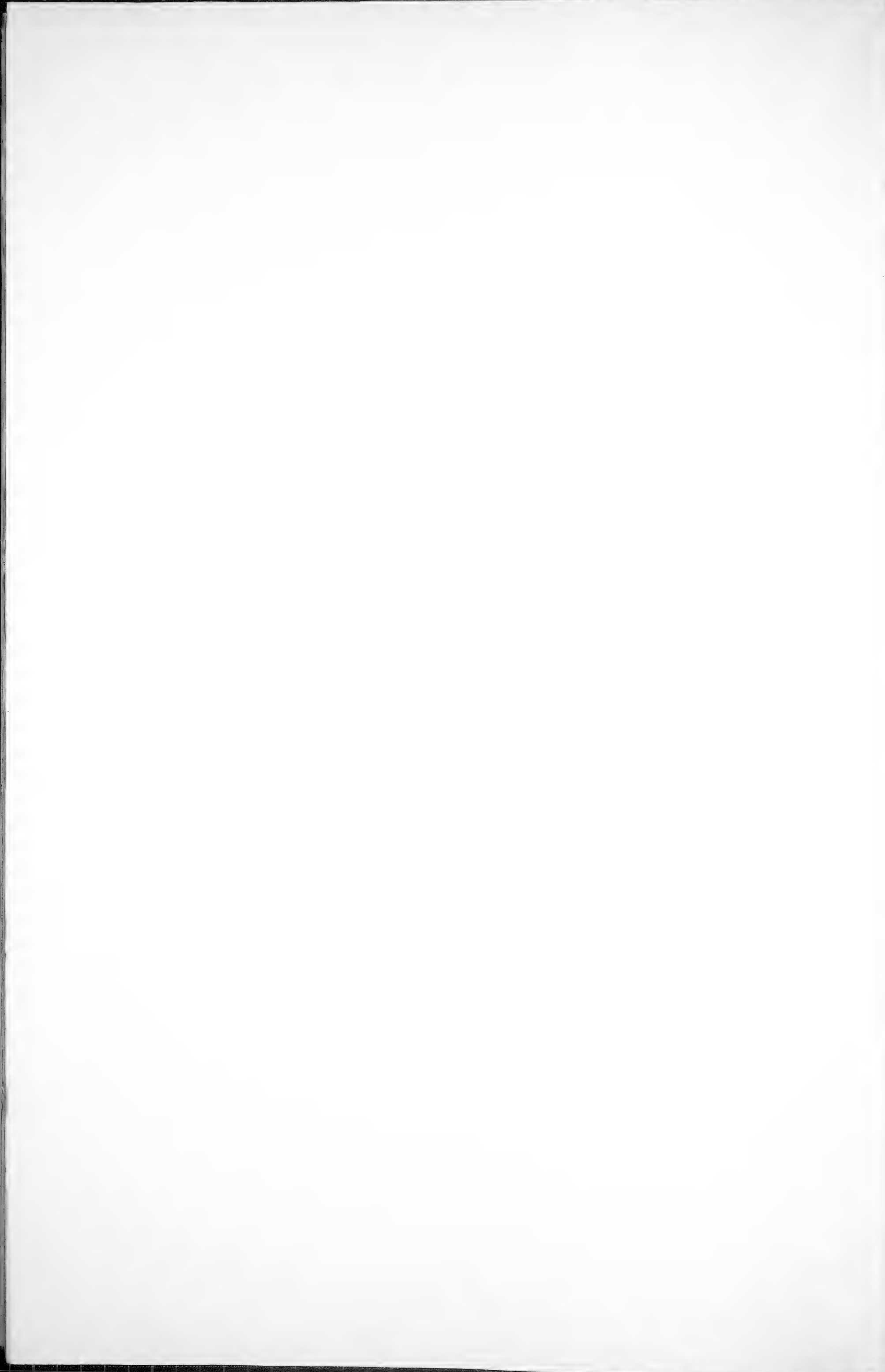
609 *Cynthia*. G.
 610 *Phallusia violacea*. G.
 611 *Ascidia menestrans*. G.
 612. a *Bullonia costata*. G.

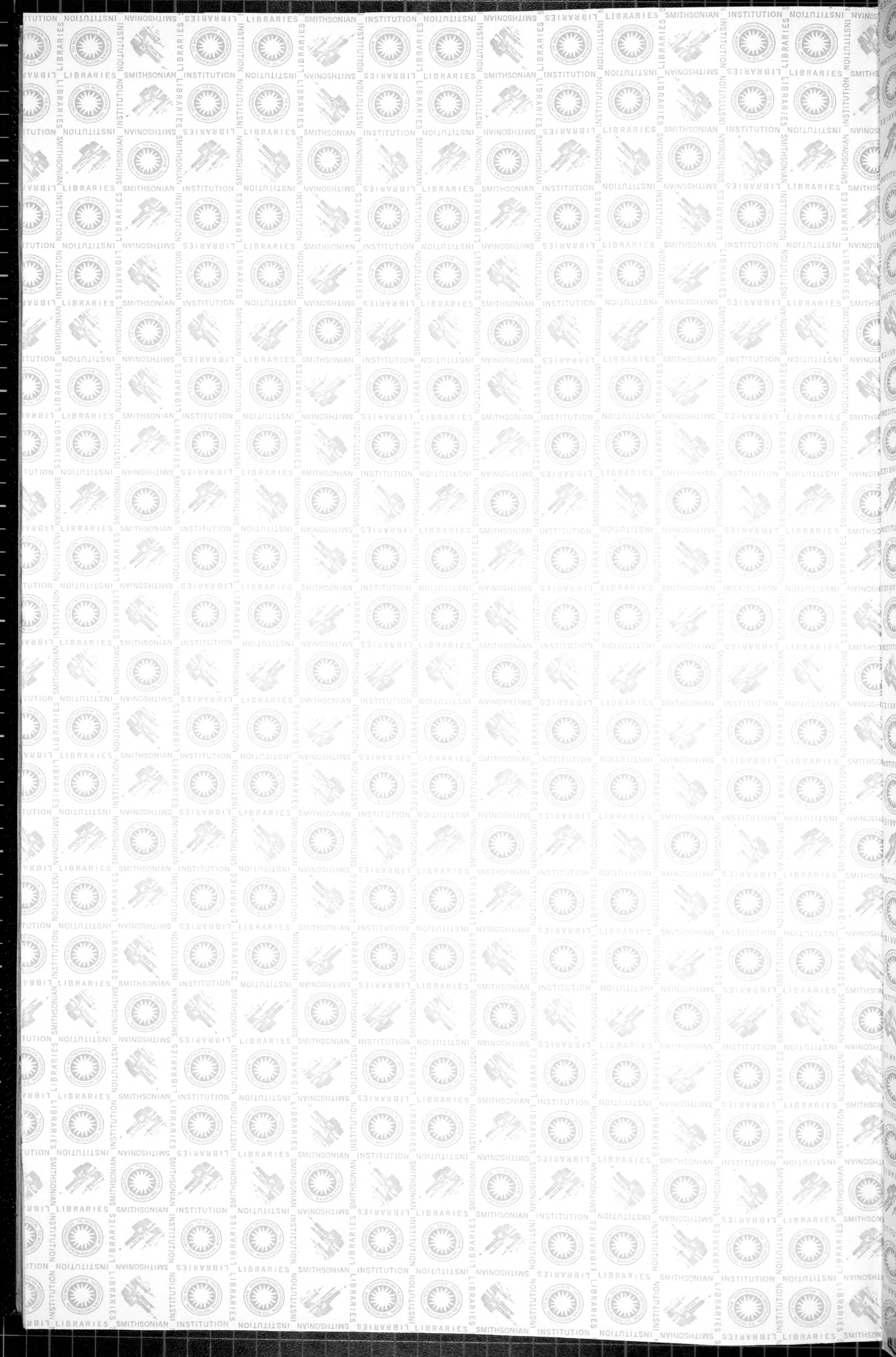
613 *Ascidium*
 614 a, b *Botryllus*
 615 *Eucodium arborescens*. G.
 616 "

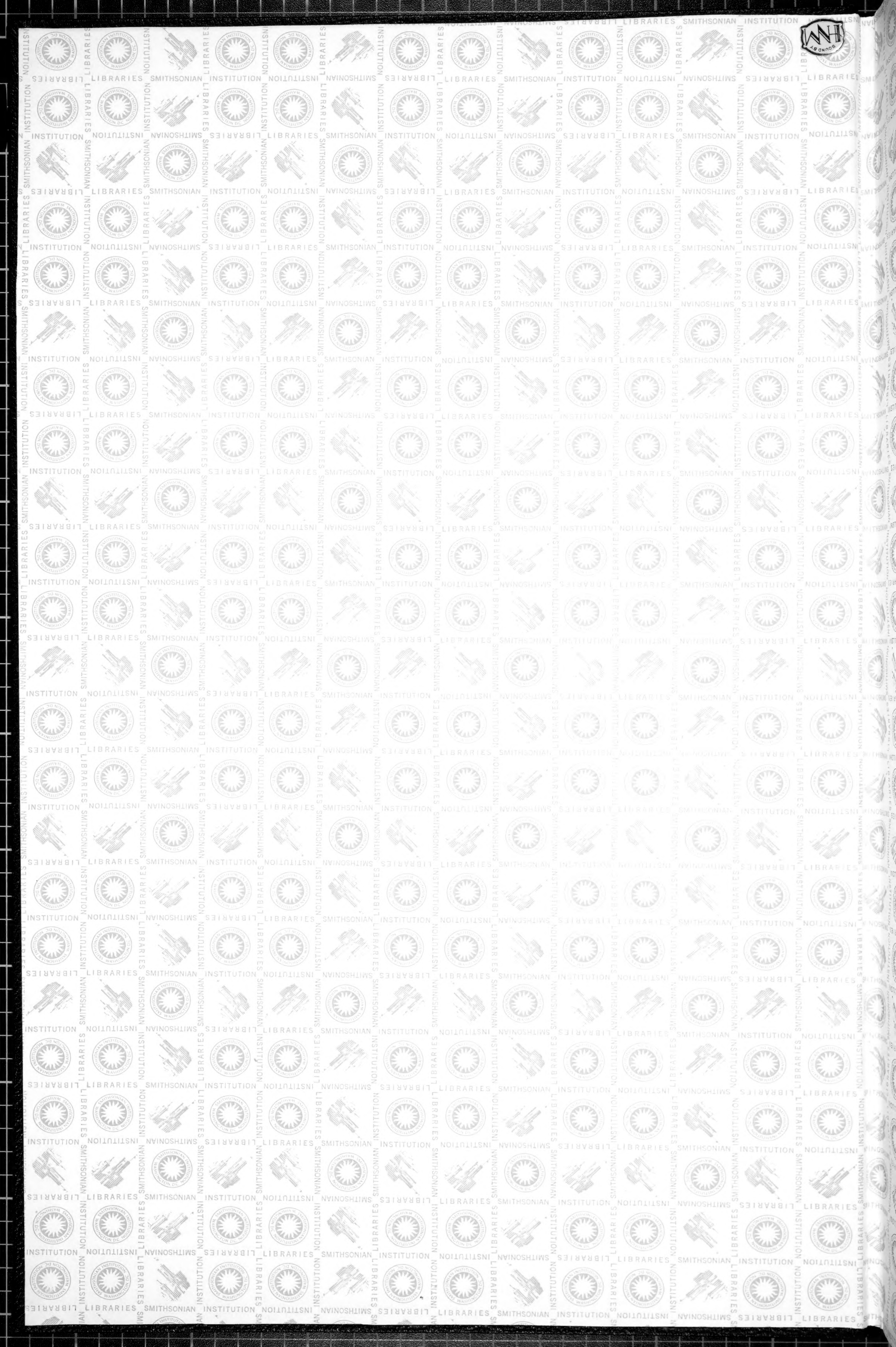
617 *Eucodium*
 618 *Eucodium lividum*. G.
 619 *Dissodinium*?
 620 a *Polydinium*
 621 a, b *Niphobolus*?
 W. H. Dougl. 8c

Drawn by J. DeSoto,
 J. D. Dana
 & J. P. Coulson









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