

Fig. 3.—Perradial section through the entire Medusa, five times the natural size. Strong longitudinal and transverse muscular folds are visible in the interior of the gastral cavity (*gp*), also eight gastral grooves (*gr*) between the eight adradial ridges of the gastral wall. The eight radial canals (*cr*) open above into the gastral cavity, by the gastral opening (*go*). Eight wide, folded genital sacs (*sc*) run out from the proximal halves of the radial canals, and are fastened to the subumbrella (*mw*) by the vertical leaf-shaped mesogoniæ (or genital mesenteries, *wr*). *ug* Gelatinous substance of the umbrella. *al* Oral lobes. *cc* Circular canal. *v* Velum. *vm* Free margin of the velum.

Fig. 4.—Subumbral view of the Medusa, seen from below, three times the natural size (comp. Pl. III. fig 2). The outer thick-walled abaxial half of the broad velum is separated by a deep circular furrow from the inner thin-walled half, which projects like a folded œsophagus. *vw* Subumbral, *ve* exumbral surface of the velum. *vm* Free margin of the velum. *aw* Oral marginal with the lobial swelling. *g* Gastral cavity.

Figs. 5–8.—Four radial sections through the umbrella margin, slightly enlarged, in four directly following meridian planes, at the four points indicated in fig. 10 by the letters *ABCD*. The radial section in fig. 7 (*A*) touches a sucking-cup of the first size (*xa*), in fig. 8 (*B*) a sucking-cup of the second size (*xb*), in fig. 5 (*C*) a sucking-cup of the third size (*xc*), in fig. 6 (*D*) a sucking-cup formed of many smaller sucking-cups (*xd*). The following letters have the same signification in all the figures: *yt* the endodermal chordal axis of the solid sucking tentacle, *u* the gelatinous substance of the umbrella, *e* the exumbrella, *cc* the circular canal, *du* its umbral, *dw* its subumbral endodermal epithelium; *dp* glandular endodermal tufts and folds of the marginal wall of the circular canal, *mw* muscular layer of the subumbrella, *gw* ectodermal epithelium of the subumbrella, *vw* subumbral epithelium, *ve* exumbral epithelium of the velum; *mv* muscular layer of the velum; *nc* urticating ring, *rc* nerve ring.

Fig. 9.—Oblique tangential section through a portion of the umbrella margin, slightly enlarged, *cc* arching of the circular canal between the projecting folds and tufts of its marginal wall (*dp*); *n* urticating epithelium, and *d* solid chordal axis of several sucking-cups.

Fig. 10.—Portion of the umbrella margin, seen from the outside, ten times the natural size. Lettering, comp. figs. 5–8. *er* Radial rib of the exumbrella.

Figs. 11, 12.—The lower, free half of the œsophagus, three times the natural size; fig. 11 interradian, fig. 12 perradial section. *ak* Perradial angles. *al* Oral lobes.