

posteriorly is first downwards then upwards; it is covered at the middle by a large lobe of the hermaphrodite gland; when stretched, the gut measured 11 mm. in length and .75 mm. in diameter. The inner surface has longitudinal folds, one of which is especially developed. The cavity of the gut contained a quantity of unrecognisable animal matter.

The lobes of the *liver*, within the papillæ, are tuberos; the almost spherical cnidophorous sacs are united to them by a short ligament; they were full of cnidæ of oval shape, and measuring from .005 to .007 mm.

The pericardium and the contained heart were typical, and also the yellowish-white *renal syrinx* situated in the neighbourhood of the renal pore.

The yellowish *hermaphrodite gland* has a length of 7 mm. and a breadth and height of about 3.5 mm.; it is conical in shape; along the dorsal surface there is a wide and deep furrow for the main hepatic duct; the gland shows traces of division into halves, each composed of a considerable number of lobes, which are themselves divided into smaller lobules. The lobules have the usual structure, and the testicular portion, which is white in colour, is easily distinguished from the yellow ovarian follicles. The somewhat thick *hermaphrodite duct* which takes its rise from the hollowed-out anterior part of the gland, is white in colour, and of inconsiderable length, gradually passing into the ampulla.—The *anterior genital mass* is large, 5.5 mm. long, 4 mm. broad, and 3.5 mm. high; about the middle of the upper surface there is a square saddle-shaped hollow for the stomach. The opaque whitish-yellow *ampulla* of the hermaphrodite duct is about five times the thickness of the duct itself; it forms the posterior end of the genital mass, and is coiled upon itself; when unrolled it measures about 12 mm. long, by .8 mm. in diameter. The male branch immediately becomes the coiled *vas deferens*; this is very thick walled and white in colour, when unrolled measuring some 13 mm. in length and .6 mm. in diameter throughout its whole extent; it passes above into the excavated base of the (invaginated) *penis*. The penis is short and sac-like, about 2.5 mm. in length, yellowish-white in colour; the cavity of the *præputium* is almost entirely filled by the strongly developed conical yellowish glans, which is entirely unarmed. The *vesicula seminalis* is spherical. The *mucous gland* shows many coils, and is chalk-white; the *albuminiparous gland* is dirty yellow.

There is hardly any doubt that this species is a *Rizzolia*; since it agrees so closely with that genus in the character of the mandibles, in the armature of the tongue, and the structure of the penis; the ringed form of the rhinophoria is probably merely dependent upon contraction. The peculiar structure of the denticles of the mandibular process will perhaps render this species easier of recognition.