

evaginated as a low papilla armed with hooks. The whole armed portion of the vas deferens was about 3 mm. long, by about .08 in diameter, increasing to .1 mm. on the point. The number of the longitudinal rows of hooks towards the point was twenty-five, arranged quincuncially; farther back there were twelve to fifteen;<sup>1</sup> in a single row I counted about 170 hooks. The *hooks* are yellow coloured, slightly bent, the hindermost being .02 mm. long;<sup>2</sup> their form and structure as usual. The retractor muscle of the penis is much as usual, but rather longer, as Semper<sup>3</sup> has already stated. The *dart-gland* is a large yellowish coil of about 4 mm. in diameter; unrolled, its length was 10 cm. by about .5 mm. in breadth; its lumen and structure are as usual. The gland gradually passes into the *ampulla*, which was of an elongated spindle shape, and measured 7 mm. in length by .8 mm. in diameter; its very narrow cavity is roundish in section, the structure being as usual. The *duct* of this gland is a little longer than the ampulla, and a little thicker than the gland, with strong walls (fig. 11, *d*). The *dart-sac* is elongated-conical, slightly bent, and 7.5 mm. long, with a diameter of .9 mm. posteriorly, and 2 mm. in front; its anterior end, like the anterior margin of the præputium, is black. The inside of the thick walls shows strong transverse folds above, and slight longitudinal ones beneath; behind, quite at the base of the sac, is the depressed *dart-cone* (fig. 11, *a*), in the cavity of which is the *dart* (fig. 11, *b*), the darker basal portion of which (fig. 11, *c*) is visible through the walls of the sac. The *dart*<sup>4</sup> is straight, pale yellowish in colour, dirty brownish-yellow at the root; its length is 1.76 mm., and diameter .03 mm. at the apex, .16 mm. at the base; the aperture (fig. 12, *a*) at the apex is in form nearly like that of the previous species—circular; the walls of the dart contain the usual cells, especially towards the apex (fig. 12), where they are also larger. The retractor and protrusor muscles of the dart-sac are as usual.

About half (1 mm.), of the white *foot gland* (fig. 8, *b*) projected freely in the middle line; the gland is somewhat more flattened than in the previous species, the cavity extends through the entire length of the gland; the duct is generally as long as the gland itself, and opens by a narrow slit; just in front of the opening is the end of the genital furrow.

<sup>1</sup> Semper (*loc. cit.*, p. 257) gives the number of "cartilaginous teeth" in the "rings" as twenty or more in front.

<sup>2</sup> According to Semper (*loc. cit.*, p. 257) the height is .02 to .07.

<sup>3</sup> *Loc. cit.*, p. 259.

<sup>4</sup> Semper has already (*loc. cit.*, Taf. xxii. fig. 3) figured the dart.