

behind; they extend to within 1 mm. of the anterior margin, but are separated by about 5 mm. posteriorly: the *mantle-margin* projects far over the head dorsally, and is slightly emarginate ventrally. The *siphon* is conical, reaching two-thirds up to the gap between the ventral arms.

*The Head* is short and broad; the *eyes* prominent.

*The Arms* are subequal, their order of length being 4, 3, 1, 2; they are about one-fourth as long as the body and taper to fine points: the dorsal are conical with a very slight ridge up the outer aspect, the third pair have a similar ridge; the ventral are flattened and bear a distinct crest. The *suckers* (figs. 19, 20) are in four series throughout and of moderate size, set obliquely on short peduncles, with meridional grooves on the outside: the *horny ring* bears twenty to twenty-five long, square-cut, irregular teeth on its distal semicircumference (fig. 20), and outside it is an area covered with closely set papillæ. The *hectocotylus* was not observed, both the specimens being females. The *umbrella* is slight, reaching only as high as the sixth row of suckers between the third and fourth arms, where it is widest; as usual it is entirely absent between the two ventral arms. The *buccal membrane* has the usual seven points. The *spermatid pad* is not developed; the *outer lip* is smooth, except for a few ridges due to contraction; the *inner* bears numerous small papillæ.

*The Tentacles* are about as long as the body, the *stem* being three-sided: the *club* is short, flattened, and expanded, with a protective membrane on either side and a broad web down the back, reaching along the stem for a distance equal to half the length of the club (fig. 15); it bears six larger *suckers* in the central row, a series of smaller ones on either side, and some very minute ones along each margin: at the top are fifteen to twenty in four series. The *horny ring* of the large suckers has twenty-five to thirty teeth in its distal semicircle (fig. 18); those of the smaller about ten.

*The Surface* is smooth, except for a few irregular inconstant papillæ on one side of the ventral surface and below the eye.

*The Colour* is a pale yellowish-grey, darker above.

*The Jaws* are shown in figs. 16, 17.

*The Shell* (figs. 21, 22, 23) is oval in *outline*, broadest anteriorly to the middle, tapering somewhat rapidly and ending in a semicircle in front; posteriorly it tapers gently, and, then rounding off, ends in two almost straight lines, which meet at a right angle at the base of the spine. The *chitinous margin* is but slightly uncovered on the *dorsal surface*, which shows two grooves diverging as they pass forwards, separating three ribs, and is covered with rounded papillæ arranged in curves parallel to the anterior margin. The *ventral surface* has a rather deep and broad median groove: the *last loculus* has an index of 34, and is bounded posteriorly by a wavy line with three curves; the *striated area* is hollowed, so that this part of the shell is thin; the