

inferior portion ; the upper margin is straight. The umbo projects slightly over the carina. The two carinal margins touch one another over a long distance beneath the carina.

Length of the capitulum, 7 mm.

*Peduncle* short, conical. Scales large, calcareous ; the edges very prominent. They are not numerous, and are placed in horizontal rows ; vertically no distinct rows can be made out.

I opened one of the specimens, but the animal had been destroyed. I opened a second ; it had the animal still within it, but its condition was very poor. So I am able to give only the following information.

The *labrum* is bullate ; its free edge is furnished with a row of small but distinct and pointed teeth ; the palpi are not very elongate, rather robust, furnished with hairs not only at the extremity but also at the sides. The *mandibles* have three teeth and a very short inferior angle, which is strongly pectinated. The *maxillæ* have the edge nearly straight ; only a trace of a notch behind the very broad upper spines. The *outer maxillæ* have the bristles not divided into separate tufts. The so-called olfactory orifices are not placed on highly protuberant excrescences.

The first pair of *cirri* has unequal branches. The most anterior one is shorter and very thick, the posterior one is much more elongate ; the latter has seven, the former five segments. A distinct interval separates the first cirrus from the five posterior pairs, which are much more elongate.

The *caudal appendages* are uniarticulate.

I found in one of the specimens a small complemental male attached to the interior surface of each scutum near its occludent margin. They were not in a condition fit for investigation.

This species was taken at two Stations, which, however, are close to one another :— Station 146, December 29, 1873 ; lat. 46° 46' S., long. 45° 31' E.; depth, 1375 fathoms ; bottom temperature, 1°·5 C.; bottom, Globigerina ooze. One specimen. Station 147, December 30, 1873 ; lat. 46° 16' S., long. 48° 27' E.; depth, 1600 fathoms ; bottom temperature, 0°·8 C.; bottom, Globigerina ooze. Three specimens.

*Scalpellum parallelogramma*, n. sp. (Pl. III. figs. 15, 16, and Pl. IX. figs. 1–5).

Surface of the valves covered by yellowish, chitinous membrane. Valves fourteen. Carina simply bowed, massive, with the umbo at the apex ; the flat roof is bordered on each side by a distinct ridge, the flat sides are at right angles with the roof, which considerably increases in width from the upper to the lower end. Upper latera quadrant-shaped, with the arched side notched. Rostrum wine-glass shaped. Peduncle very short. Males three.