tenna with one tooth; a long central spine on the posterior border of the dorsal shield, but no lateral spines; length 60 mm. A single specimen of this species occurred (Station LXXIII.). On comparing the figures of these two species and of their anatomical details with those of *Lophogaster* given by Sars, one is struck by their great general similarity; but there are characters presented by the new genus, particularly in connection with the dorsal shield, which not only entirely separate it from *Lophogaster*, but enlarge our views on the whole schizopod group. In both species the shield is sculptured by ridges traversing it in different directions, and in both there is a long spiny rostrum; but this shield is merely a soft duplicature of the skin connected with the body only anteriorly, and leaving five thoracic segments entirely free. In the structure of the shield and in its mode of attachment, *Gnathophausia* has the greatest resemblance to *Apus* among all crustaceans, but it differs from it widely in other respects. *Nebalia* is the only schizopod in which the carapace is not connected with the posterior thoracic segments, but in that genus the form of the carapace is totally different, and the genera are otherwise in no way nearly related. Neither the antennæ, nor the scales, nor the parts of the mouth, present any marked differences from those of *Lophogaster*, with the exception of the second maxillæ. These, with nearly the same form as in the Norwegian genus, bear a pair of accessory eyes. Such eyes are well known at the base of the thoracic and even of the abdominal limbs in the EUPHAUSIDÆ, a family with which the LOPHOGASTRIDÆ have otherwise nothing in common, but hitherto they have not been met with in any other animal on any of the manducatory organs.

Of the eight pairs of legs seven are ambulatory, only the first pair is, as in *Lophogaster*, transformed into maxillipeds. The gills are arborescent, and attached to the bases of the legs. The abdomen and its appendages scarcely differ from those of *Lophogaster*. We find here also that the last segment is apparently