

PLATE VIII.

Gnathophausia longispina, G. O. Sars.

(Anatomy).

- Fig. 1. Ocular segment, with right eye (*o*) and right antennular peduncle, from above.
- Fig. 2. Anterior lip (*L*) and mandibles with their palps, from below.
- Fig. 3. Terminal joint of mandibular palp; more highly magnified.
- Fig. 4. Cutting edges of mandibles.
- Fig. 5. Posterior lip.
- Fig. 6. Maxillæ of first pair, with palp.
- Fig. 7. Maxillæ of second pair. *p*, palp; *ex*, exognath; *x*, pigmented basal protuberance.
- Fig. 8. Maxilliped. *x*, concave surface occurring in place of the exopodite; *ep*, epipodite.
- Fig. 9. Leg of first pair, or gnathopod, with attached gill.
- Fig. 10. Leg of second pair. *ep*, rudimentary epipod.
- Fig. 11. Bases of a pair of legs, with the attached gills *in situ*.
- Fig. 12. Gill, isolated.
- Fig. 13. Extremity of a gill-branch; more highly magnified.
- Fig. 14. Leg of last pair, with male sexual aperture (*p*) and the rudimentary gill (*br*).
- Fig. 15. Male sexual aperture; more highly magnified.
- Fig. 16. Trunk, with maxillipeds, legs, and gills *in situ*, viewed from the ventral face.
- Fig. 17. Trunk, together with first caudal segment and oral parts, from right side. The carapace is removed to show the seven segments of the trunk with their gills. *L*, anterior lip; *M*, mandible; *p*, mandibular palp; *m'*, maxilla of first pair; *m²*, maxilla of second pair; *x*, pigmented basal protuberance of same; *mp'*, maxilliped; *ep*, epipodite of same; *mp²*, leg of first pair or gnathopod.
- Fig. 18. A pleopod.
- Fig. 19. Chain of ventral ganglia; 1-9 those belonging to anterior division, following (1-6) caudal.
- Fig. 20. Part of the anterior division of the chain, together with the great ventral artery (*a*); more highly magnified.