

from so great a depth as 1900 fathoms, but that the Stations at which the two species were obtained are separated by nearly half the circumference of the globe is a circumstance not open to any such explanation. The first pair of side-plates, the hands of the second gnathopods, and the postero-lateral angles of the third pleon-segment are serviceable marks for distinguishing the two species.

*Orchomene cavimanus*, n. sp. (Pl. XXII.).

*Rostrum* obsolete, lateral lobes of the head produced, much rounded; postero-lateral angles of the third pleon-segment scarcely rounded, fourth pleon-segment with a dorsal depression, and the hinder part of the dorsal margin forming a sharpened point slightly tip-tilted and raised above the succeeding segment; sixth segment ridged on each side of the telson.

*Eyes* large, placed near the front of the head, wider below than above.

*Upper Antennæ*.—First joint tumid, second and third very short, third excavated below; flagellum of thirteen joints, the first as long as five of the following joints together, the brush of cylinders in ten or eleven rows, cylinders on many of the other joints also; secondary flagellum of five joints, of which the first is much the longest.

*Lower Antennæ*.—Gland-cone moderately prominent but small, third joint longer than the composite first and second, and as long as the fifth joint; fourth joint longer than the fifth, both being furred on the upper margin; flagellum of fifteen or sixteen small joints in the female specimen here described.

*Epistome* prominent, with a rounded lobe curving down just over and in front of the top of the upper lip. The Plate gives a figure representing the epistome between the palps of the two mandibles, with the upper lip, two mandibles, and lower lip in position; the left mandible with its secondary plate is shown projecting a little in advance of the right mandible; the inner side of the right mandible is figured on the other side of the Plate.

*The Mandibles* and *Lower Lip* resemble those of *Orchomene musculosus*, but with the parts adjacent to the molar tubercle less furred, and the palps more slenderly built, the third joint being also shorter in comparison with the second.

*First Maxillæ* similar to those of *Orchomene musculosus*, but the inner plate more elongated.

*Second Maxillæ*.—Outer plate broader than inner, not very much longer, spine-fringed border not very oblique; armature of inner plate as in *Orchomene musculosus*.

*Maxillipeds* narrow, inner plates reaching nearly as far as the apex of the first joint of the palp, with three teeth on the straight apical margin; outer plates scarcely reaching as far forward as second joint of palp, with fourteen small nodulous teeth on the inner, and reaching round to the apical margin, with two much larger teeth on the outer part of