

much longer than the other pair; the second pair is not spine-like, but tubercular, blunt-ended, apparently forming the antennary gland-cone with its terminal channel.

*Mouth Organs.*—It is extremely difficult to say whether the small differences observed between the mouth organs of the present and those of larger specimens are of any specific value; here on the left mandible the cutting edge has nine teeth, and the secondary plate has ten, the cutting edge of the right mandible has nine teeth; the rows of denticles on the crown of the molar tubercle were here seen to number about twenty, forming a serried mass; the outer plate of the first maxillæ has on its inner margin four setæ, followed by three rather narrow spines; these are followed without interruption on the apical margin by a connected series of spines successively stouter, seven in number, to which succeeds the set of six or seven stout spines grouped round the outer apex; there are also several submarginal setæ; the outer plates of the maxillipeds have five teeth on the inner margin, the one nearest the apex being irregularly jagged.

*First Gnathopods* less than one-fifth of an inch long; *Second Gnathopods* a quarter of an inch; *First Peræopods* eleven-twentieths; *Second Peræopods* sixteen-twentieths; *Third Peræopods* a little over an inch; *Fourth Peræopods* eighteen-twentieths of an inch; *Fifth Peræopods* nine-twentieths; the relative lengths of the fourth and fifth joints of the various peræopods are like those described for Specimen F from Station 196; the *First Uropods* are six-twentieths of an inch long to the extremity of the narrow outer branch, the length of the branch being two-twentieths; the coalesced inner ramus is slightly shorter; the *Second Uropods* are five-twentieths of an inch long, the outer ramus almost two-twentieths.

*Pleopods.*—Peduncles as long as the rami; coupling spines very slender, joints of the rami numbering from ten to twelve, the first joint in each ramus very long.

*Telson* as usual very small and shallow, not so broad as the peduncles of the uropods, not so long as broad, its distal margin rounded.

*Length.*—The figure at the top of the Plate is intended to represent the natural size, and according to this it would not be more than an inch and a quarter long, but the specimen was in a crumpled flaccid condition, and might possibly have been in life rather longer.

*Locality.*—Station 170A, July 14, 1874; off the Kermadec Islands; lat. 29° 45' S., long. 178° 11' W.; depth, 630 fathoms; bottom, volcanic mud; bottom temperature, 39°·5; surface temperature, 65°·2. One specimen, male or young. Trawled.

*Cystisoma spinosum* (Fabricius). Specimen E.

This specimen of moderate size was taken comparatively near to specimen G, the distance between their respective localities being about 3 degrees of latitude and 17