

from below, showing the antennæ and mouth organs *in situ*; the appearance of these in a lateral view is given in the adjacent figure on the right; below the figure *maxp.* is a figure of the dilated stomach.

*First Gnathopods.*—Side-plates sharply produced forwards. First joint curiously twisted, narrow at the base, then greatly widened by the backward bend of the hind margin, this margin then crossing the surface to the lower apex of the sinuous front margin, the joint at the elbow being much wider than above or below it; as in the preceding specimen the second and third joints have some small spines on the hind margin; in this genus, as in many genera of the Hyperina, the third joint, having assumed the form of a small wrist, is an exception to Spence Bate's rule, that in the gnathopods the third joint always *underrides* the fourth; the much dilated wrist has the broadly produced front apex scarcely perceptibly pectinate; the chela-forming process has on the front or inner margin five teeth besides denticles, and on the hinder or outer margin eight teeth and a few denticles; the apical tooth is additional; the hind margin of the hand has nine teeth.

*Second Gnathopods.*—The first joint a little curved, the lower part of the front channelled; the front apex of the wrist not produced downwards, nor nearly so large as in the first pair, finely pectinate, and carrying three or four little teeth, the chela-process with seven teeth on the front margin, one of them being an accessory denticle to the apical tooth; the hind margin is pectinate for some distance from the base, and then divided into four or five teeth; the hind margin of the hand has eight teeth.

*Third Peræopods* with the first joint a long oval, not quite twice as long as broad.

*Fourth Peræopods.*—The first joint not at all longer than the first joint of the preceding pair, but with the upper part very much wider, the lower margin in front of the second joint scarcely or not produced below that joint; the third, fourth, and fifth joints with the front margin closely pectinate with large and small teeth; the finger having some small decurrent teeth along much of the inner margin.

*Fifth Peræopods.*—The first joint much longer than wide, widest at the centre, the width there exceeding the length of all the other joints together, those joints being nearly as in specimen A.

*Pleopods.*—The rami with fourteen or fifteen joints.

*Uropods* very similar to those of the species just named.

*Telson* as long as the third uropods, its breadth rather more than two-thirds of its length, more rounded apically than in specimen A.

*Length*, in the bent position figured, two-fifths of an inch.

*Locality.*—July 1875, North Pacific, between Japan and Honolulu; lat. 35° N.; surface. Male specimen.

*Remarks.*—A female specimen from the same locality has the first joint of the first