

Second pair of antennæ with a scaphocerite as long as the peduncle of the first pair, and armed on the outer margin subapically with a small tooth.

The first pair of gnathopoda is generic in character.

The second pair is long; the three proximal joints are long and robust, the next long and slender, and the terminal uniarticulate, slender, and fringed with hairs.

The first pair of pereopoda is short, slender, and carries a small but strong curved process attached to the posterior margin of the ischium. The other pereopoda are missing.

The pleopoda are long and slender, slightly shortening posteriorly.

The outer margin of the external plate of the rhipidura is armed with a tooth one-third from the base, and distally fringed with short hairs; the inner margin is fringed with long hairs, as are also both margins of the inner plate.

Length, 8 mm. (0.3 in.).

*Habitat.*—North Atlantic Ocean.

*Observations.*—This species bears a strong resemblance to *Sergestes rinkii*, Kröyer, but differs in the following points:—in having the rostrum one-third the length of the ophthalmopoda, or about one-fourth the length of the carapace, instead of being short and rudimentary; the ophthalmus planted obliquely on the stalk, instead of being symmetrically even (*vide* Kröyer's figure, pl. ii. fig. 3); a sharp, projecting, mesial tooth on the ventral surface of the first and second somites of the pleon, and an obtuse projection on the three following somites; the ophthalmopoda subequal to the peduncle of the first pair of antennæ, instead of not reaching beyond the extremity of the second joint; a small tubercular process attached to the posterior margin of the ischium of the first pair of pereopoda, not present in *Sergestes rinkii* (Kröyer has figured the appendages separately); the terminal pair of pleopoda, which helps to form the rhipidura, armed on the outer margin with a sharp tooth that is nearer the basal articulation than is the extremity of the telson, while that of *Sergestes rinkii* is much nearer the distal extremity.

*Sergestes fermerinkii*, n. sp. (Pl. LXXVI. fig. 4).

Carapace rather less than a third of the length of the animal. Rostrum smooth, sharp and horizontal, about one-fourth the length of the carapace. Frontal margin produced to a sharp tooth at the outer orbital angle.

First somite of the pleon dorsally smooth and laterally furnished with a short anteriorly directed tooth or tubercle. Second somite subequal and smooth. Third, fourth and fifth dorsally armed near the posterior margin with a strong tooth; as is also