

21. *Dictyophimus bütschlii*, n. sp. (Pl. 60, fig. 2).*Lamprotripus horridus*, Haeckel, 1881, Prodrömus et Atlas.

Shell spiny, flatly pyramidal, with deep collar stricture. Relative length of the two joints = 1 : 2, breadth = 1 : 5. Cephalis subspherical, with numerous long, bristle-shaped spines and a larger ramified horn. Thorax also spiny, flatly vaulted, with large, subregular, hexagonal meshes and thin bars; its three spiny ribs prolonged into three very long and thin, prismatic, widely divergent feet, twice to four times as long as the thorax.

Dimensions.—Cephalis 0.04 long, 0.04 broad; thorax 0.08 long, 0.2 broad.

Habitat.—South Pacific, Station 284, surface.

22. *Dictyophimus hertwigii*, n. sp. (Pl. 60, fig. 3).*Lamprotripus spinosus*, Haeckel, 1881, Prodrömus et Atlas.

Shell spiny, flatly pyramidal, with sharp collar stricture. Relative length of the two joints = 1 : 2, breadth = 1 : 5. Cephalis subspherical, with irregular roundish pores, numerous small spines and a large, oblique, prismatic horn of the same length, bearing on its distal end a bunch of small divergent spines. Thorax pyramidal, with larger irregular polygonal pores and thin bars; its three strong, widely divergent ribs spiny, straight, and prolonged into three prismatic slender feet of the same length. Central capsule with three lobes depending into the thorax.

Dimensions.—Cephalis 0.04 long, 0.04 broad; thorax 0.08 long, 0.2 broad.

Habitat.—Central Pacific, Stations 270 to 274, surface.

Genus 535. *Tripocyrtis*,¹ n. gen.

Definition.—Sethopilida (vel Dicyrtida triradiata aperta) with three complete thoracic ribs, prolonged into three latticed divergent feet on the peristome. Cephalis with an apical horn.

The genus *Tripocyrtis* has been derived from the preceding *Dictyophimus* by complete fenestration of the three basal feet, which throughout their whole length become united by complete lattice-work. This genus is closely allied to *Plectaniscus*.

1. *Tripocyrtis plagoniscus*, n. sp. (Pl. 60, fig. 10).

Cephalis subspherical, with large, roundish meshes and a stout, three-sided pyramidal, irregularly branched horn of twice the length. Thorax with a small number of large, irregular, polygonal meshes and three stout curved ribs about as long as the cephalic horn.

Dimensions.—Cephalis 0.06 long, 0.07 broad; thorax 0.11 long, 0.16 broad.

Habitat.—Central Pacific, Station 266, surface.

¹ *Tripocyrtis* = Basket with a tripod; τριπόδος, κυρτός.