

roundish, double-contoured pores, irregularly disposed. Mouth constricted, two-thirds as broad as the thorax, with a broad, hyaline peristome.

*Dimensions*.—Cephalis 0.02 long, 0.03 broad; thorax 0.09 long, 0.06 broad.

*Habitat*.—East coast of Australia, Station 164, surface.

7. *Dictyocephalus mediterraneus*, n. sp. (Pl. 62, fig. 2).

Shell rough, thin-walled, with slight collar stricture. Length of the two joints = 3 : 10, breadth = 4 : 8. Cephalis hemispherical, with small, circular pores. Thorax ovate, truncate, with much larger circular pores of different sizes and thin bars between them. Mouth little constricted, two-thirds as broad as the thorax, with a narrow, hyaline peristome.

*Dimensions*.—Cephalis 0.03 long, 0.04 broad; thorax 0.1 long, 0.08 broad.

*Habitat*.—Mediterranean, Smyrna (Haeckel), surface.

8. *Dictyocephalus papillosus*, Haeckel.

*Eucyrtidium papillosum*, Ehrenberg, 1872, Abhandl. d. k. Akad. d. Wiss. Berlin, p. 293, Taf. vii. fig. 10.

Shell thin-walled, papillate, with obliterated collar stricture. Length of the two joints = 2 : 7, breadth = 3 : 5. Cephalis hemispherical, with small, circular pores. Thorax slenderly ovate, with larger, subregular, circular pores, separated by oblique series of conical papillæ. Mouth with a broad, hyaline peristome (the "third articulus" of Ehrenberg), separated by a stricture from the little broader thorax.

*Dimensions*.—Cephalis 0.02 long, 0.03 broad; thorax 0.07 long, 0.05 broad.

*Habitat*.—Western Tropical Pacific (Philippine Sea), depth 3300 fathoms.

9. *Dictyocephalus tabulatus*, n. sp.

Shell thin-walled, papillate, with obliterated collar stricture. Length of the two joints = 2 : 10, breadth = 3 : 7. Cephalis hemispherical, with small, circular pores. Thorax slenderly ovate, truncate, with large, subregular, circular, hexagonally-framed pores. Mouth little constricted nearly as broad as the thorax, with a broad, hyaline peristome.

*Dimensions*.—Cephalis 0.02 long, 0.03 broad; thorax 0.1 long, 0.07 broad.

*Habitat*.—Central Pacific, Station 271, depth 2425 fathoms.

10. *Dictyocephalus reticulum*, Haeckel.

*Dictyocephalus reticulum*, Haeckel, 1862, Monogr. d. Radiol., p. 297.

*Eucyrtidium reticulum*, Ehrenberg, 1861, Monatsber. d. k. preuss. Akad. d. Wiss. Berlin, p. 300.

Shell thin-walled, smooth, with deep collar stricture. Length of the two joints = 2 : 8, breadth = 3 : 5. Cephalis subspherical, with small, circular pores. Thorax campanulate, with