

long as the radius, zigzag, with short denticles. Radial spines very long and stout, quadrangularly-prismatic, with four smooth edges.

*Dimensions*.—Diameter of the shell 0·3, parmal pores 0·03, sutural pores 0·01 to 0·025, bars 0·004.

*Habitat*.—Central Pacific, Stations 271 to 274, surface.

#### 4. *Lychnaspis serrata*, n. sp.

Parmal meshes pentagonal, three to four times as broad as the thick bars, smaller than the irregular sutural meshes. By-spines (two hundred to three hundred) scarcely one-third as long as the radius, zigzag, with strong denticles. Radial spines very long, stout, quadrangularly-prismatic, with four serrated edges.

*Dimensions*.—Diameter of the shell 0·22, parmal pores 0·015, sutural pores 0·012 to 0·03, bars 0·004.

*Habitat*.—South Atlantic, Station 330, surface.

#### 5. *Lychnaspis wagenschieberi*, n. sp.

Parmal meshes tetragonal, nearly rhombic, three to four times as broad as the thick bars, smaller than the large irregular sutural meshes. By-spines (about two hundred) large, as long as the radius, with long recurved denticles, very zigzag. Radial main-spines very long, four-sided prismatic. This species differs by the form and size of the spines, and by the square form of the parmal pores from the similar *Lychnaspis polyancistra*, of which the late excellent engraver Wagenschieber, of Berlin, has given such a beautiful figure in my monograph (Taf. xxi. fig. 8).

*Dimensions*.—Diameter of the shell 0·16, parmal pores 0·014, sutural pores 0·015 to 0·02, bars 0·004.

*Habitat*.—Central Pacific, Station 266, surface.

#### 6. *Lychnaspis polyancistra*, Haeckel.

*Dorataspis polyancistra*, Haeckel, 1862, Monogr. d. Radiol., p. 418, Taf. xxi. figs. 7-9.

Parmal meshes roundish, tetragonal, or nearly square, two to three times as broad as the thick bars, smaller than the irregular sutural meshes. By-spines (about two hundred) thin, half as long as the radius, zigzag, with blunt denticles. Radial main-spines stout, in the inner half cylindrical, in the outer half (of the same length) conical, pointed.

*Dimensions*.—Diameter of the shell 0·12, parmal pores 0·012, sutural pores 0·01 to 0·04, bars 0·004.

*Habitat*.—Mediterranean (Messina), surface.