

7. *Lychnaspis rottenburgii*, n. sp. (Pl. 135, fig. 4).

Parmal meshes roundish, about twice as broad as the thick bars, and for the most part smaller than the irregular sutural meshes. By-spines (about two hundred to two hundred and fifty) thin, zigzag, half as long as the radius. Radial main-spines very strong, cylindrical in the inner half, in the outer half much thicker and conical, pointed. I call this species in honour of my learned friend, the great patron of zoological studies, Mr. Paul Rottenburg, of Glasgow.

*Dimensions*.—Diameter of the shell 0·15, parmal pores 0·012, sutural pores 0·01 to 0·03, bars 0·006.

*Habitat*.—Central Pacific, Station 270, depth 2925 fathoms.

8. *Lychnaspis undulata*, n. sp. (Pl. 135, fig. 2).

Parmal meshes circular, twice as broad as the thick bars, on an average of the same size as the irregular sutural meshes. By-spines (one hundred and fifty to two hundred) very thin, barbed and zigzag, as long as the radius. Radial main-spines cylindrical; their outer pointed part longer than the inner part.

*Dimensions*.—Diameter of the shell 0·1, parmal pores 0·01, sutural pores 0·01, bars 0·005.

*Habitat*.—Tropical Atlantic, Station 343, surface.

9. *Lychnaspis longissima*, n. sp. (Pl. 134, fig. 6).

Parmal meshes circular, very small, of the same breadth as the thick bars, much smaller than the irregular sutural meshes. By-spines (one hundred to one hundred and ten) very long and thin, zigzag, twice as long as the diameter of the shell. Radial main-spines very long and strong, cylindrical (at the base quadrangular, pyramidal), four to six times as long as the diameter of the shell, and one fourth as thick as its radius.

*Dimensions*.—Diameter of the shell 0·08, parmal pores 0·002, sutural pores 0·01 to 0·015, bars 0·003; length of the radial spines 0·3 to 0·5.

*Habitat*.—Tropical Pacific (Philippines), Stations 200 to 215, surface.

10. *Lychnaspis minima*, n. sp. (Pl. 134, figs. 7, 8).

Parmal meshes circular, very small, only half as broad as the thick bars, much smaller than the irregular sutural meshes. By-spines (one hundred to one hundred and ten) half as long as the radius, zigzag. Radial main-spines thick, in the inner part cylindrical, in the outer shorter part conical, of very variable size.

*Dimensions*.—Diameter of the shell 0·05, parmal pores 0·002, sutural pores 0·006 to 0·012, bars 0·004.

*Habitat*.—Antarctic Ocean, Station 154, surface.