

numerous and stout; thirty to forty main spines, three-sided pyramidal, nearly as long as the radius, as broad as one mesh; by-spines small, conical, everywhere scattered at the nodal-points of the network and on the high combs of the bars.

*Dimensions*.—Diameter of the shell 0.16, pores 0.012, bars 0.004; length of the main spines 0.07, basal breadth 0.016.

*Habitat*.—West Tropical Pacific, Station 225, depth 4475 fathoms.

6. *Heliosphæra coronata*, n. sp. (Pl. 26, figs. 6, 6a).

*Acanthosphæra coronata*, Hæckel, 1881, Atlas.

Shell thick walled, about ten times as broad as one mesh. Pores regular, circular, five times as broad as the bars; each pore surrounded by a regular coronal of six short, conical by-spines (fig. 6a); twenty to thirty main spines, also conical, half as long as the radius, as broad as one pore.

*Dimensions*.—Diameter of the shell 0.15, pores 0.015, bars 0.003; length of the main spines 0.04, basal breadth 0.015.

*Habitat*.—Central Pacific, Station 272, depth 2600 fathoms.

7. *Heliosphæra floribunda*, n. sp.

Shell thick walled, about ten times as broad as one mesh. Pores regular, six-lobed, twice as broad as the bars; each pore surrounded by six small conical by-spines (as in Pl. 28, figs. 1, 1b); twenty main spines regularly disposed, cylindro-conical, as long as the diameter of the shell or longer.

*Dimensions*.—Diameter of the shell 0.15, pores 0.015, bars 0.008; length of the main spines 0.16, breadth 0.008.

*Habitat*.—Central Pacific, Station 268, depth 2900 fathoms.

8. *Heliosphæra cristata*, n. sp.

Shell thick walled, about twelve times as broad as one mesh. Pores subregular, circular, twice as broad as the bars; each pore surrounded by an elegant coronal of ten to twenty small, conical by-spines; twenty main spines regularly disposed, conical, only one-third as long as the radius, as broad at the base as one mesh.

*Dimensions*.—Diameter of the shell 0.25, pores 0.02, bars 0.01; length of the main spines 0.04, basal breadth 0.02.

*Habitat*.—South Pacific, Station 285, depth 2375 fathoms.

9. *Heliosphæra castanella*, n. sp.

Shell thick walled, about twenty times as broad as one mesh. Pores regular, circular, of the same breadth as the bars. Whole surface densely covered with innumerable bristle-shaped by-spines, half as long as the radius; fifty to eighty main spines, conical, nearly as long as the diameter,