

*Dimensions.*—Diameter of the shell 0·25 to 0·3, of the meshes or pores 0·012 to 0·015, bars below 0·001; length of the main spines 0·03, basal breadth 0·007.

*Habitat.*—Central Pacific, Stations 272 to 274, depth 2350 to 2750 fathoms.

## 2. *Heliosphæra actinota*, Haeckel.

*Heliosphæra actinota*, Haeckel, 1862, Monogr. d. Radiol., p. 352, Taf. ix. fig. 3.

Shell very thin walled, about ten times as broad as one mesh. Pores regular, hexagonal, with thread-like bars; six to eight on the radius. Radial spines at the nodal-points of the network, bristle-shaped, scarcely broader than the bars; about twenty main spines as long as the diameter of the shell, and numerous by-spines, only one-third to one-half as long as the former.

*Dimensions.*—Diameter of the shell 0·2 to 0·25, of the meshes 0·02 to 0·03, bars below 0·001; length of the main spines 0·2 to 0·3.

*Habitat.*—Mediterranean (Messina), Atlantic (Canaries, Azores), surface.

## 3. *Heliosphæra echinoides*, Haeckel.

*Heliosphæra echinoides*, Haeckel, 1862, Monogr. d. Radiol., p. 352, Taf. ix. fig. 4.

Shell thin walled, about six times as broad as one mesh. Pores regular, hexagonal, eight times as broad as the bars. Radial spines arising, not from the nodal-points of the network, but from the midst of the bars (very rare disposition!); twenty main spines regularly disposed, as long as the radius, four times as long as the numerous by-spines; all spines bristle-shaped, of the same breadth as the bars.

*Dimensions.*—Diameter of the shell 0·09, pores 0·015, bars 0·002; length of the main spines 0·04.

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

## 4. *Heliosphæra elegans*, Haeckel.

*Heliosphæra elegans*, Haeckel, 1862, Monogr. d. Radiol., p. 353, Taf. ix. fig. 5.

Shell very thin walled, about ten times as broad as one mesh. Pores regular, hexagonal, with thread-like bars, which are crossed by tangential bars, so that each side of a hexagon exhibits a regular rectangular cross (exactly the same as in Pl. 19, fig. 5). All radial spines bristle-shaped, as thin as the bars, and arising from the nodal-points; twenty main spines as long as the radius, numerous by-spines scarcely one-sixth as long.

*Dimensions.*—Diameter of the shell 0·26, pores 0·026, bars below 0·001; length of the main spines 0·13.

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

## 5. *Heliosphæra pectinata*, n. sp. (Pl. 26, fig. 9).

*Acanthosphæra pectinata*, Haeckel, 1881, Atlas.

Shell thick walled, combed, about fourteen times as broad as one mesh. Pores subregular, circular, with elevated hexagonal frames, three times as broad as the bars. Radial spines very