

Subgenus 1. *Rhaphidococcus*, Haeckel, 1862, Monogr. d. Radiol., p. 365  
(*sensu emandato*).

*Definition*.—Pores of the spherical shell regular or subregular, all of nearly equal size and similar form. Radial spines arising from all the nodal-points of the network.

1. *Acanthosphæra tenuissima*, Haeckel.

*Heliosphæra tenuissima*, Haeckel, 1862, Monogr. d. Radiol., p. 351, Taf. ix. fig. 2.

Shell extremely thin walled, eight to ten times as broad as one pore. Meshes or pores regular, hexagonal, with thread-like bars; five to seven on the radius. At each nodal-point (between every three meshes) arises a bristle-shaped radial spine, as long as the diameter of one pore.

*Dimensions*.—Diameter of the shell 0.2 to 0.25, of the meshes or pores 0.025 to 0.03, bars below 0.0001; length of the spines 0.03.

*Habitat*.—Mediterranean (Messina), North Atlantic (Canary Islands).

2. *Acanthosphæra tenuis*, n. sp.

Shell very thin walled, about twenty times as broad as one pore. Meshes subregular, hexagonal, with thread-like bars; twelve to fourteen on the radius. At each nodal-point arises a bristle-shaped radial spine, about as long as the radius.

*Dimensions*.—Diameter of the shell 0.3 to 0.35, pores 0.015 to 0.018, bars below 0.001; length of the spines 0.12 to 0.16.

*Habitat*.—Central Pacific, Stations 266 to 274, depth 2350 to 2925 fathoms.

3. *Acanthosphæra macropora*, n. sp.

Shell thin walled, five to six times as broad as one mesh. Pores regular, circular, hexagonally framed, ten to twelve times as broad as the bars. Radial spines bristle-shaped, as long as the diameter of one pore, arising from all the nodal-points.

*Dimensions*.—Diameter of the shell 0.07 to 0.08, pores 0.012, bars 0.001; length of the spines 0.012.

*Habitat*.—Central Pacific, Station 271, surface.

4. *Acanthosphæra micropora*, n. sp.

Shell thick walled, forty to fifty times as broad as one pore. Pores regular, circular, hexagonally framed, half as broad as the bars. Radial spines bristle-shaped, as long as the radius of the shell, arising from all the nodal-points.

*Dimensions*.—Diameter of the shell 0.22, pores 0.003, bars 0.006; length of the spines 0.1.

*Habitat*.—South Pacific, Station 288, surface.