Subgenus 1. *Cladococcalis*, Haeckel.

Definition.—Branches of the spines simple, not ramified. Pores regular, all of nearly equal size and similar form.

1. *Cladococcus arborescens*, J. Müller.

> *Cladococcus arborescens*, J. Müller, 1858, Abhandl. d. k. Akad. d. Wiss. Berlin, p. 31, Taf. i. fig. 2.

Pores of the spherical shell regular, hexagonal, three times as broad as the bars; three to four on the radius. Ten to twenty spines, three-sided prismatic, two to three times as long as the shell diameter; towards the distal end each spine with three branches (one lateral simple straight branch on each edge of the spine).

Dimensions.—Diameter of the shell 0·1, pores 0·012, bars 0·004; length of the spines 0·2 to 0·3, breadth 0·02.

Habitat.—Mediterranean (Nice); North Atlantic, Canary Islands, surface.

2. *Cladococcus spinifer*, Haeckel.

> *Cladococcus spinifer*, Haeckel, 1862, Monogr. d. Radiol., p. 368, Taf. xiii. fig. 9.

Pores regular, circular, hexagonally framed, three times as broad as the bars; five to six on the radius. Radial spines, arising from all the nodal-points of the network, three-sided, longer than the shell diameter, with six to twelve simple verticillate branches (two to four branches on each edge).

Dimensions.—Diameter of the shell 0·08, pores 0·01, bars 0·003; length of the spines 0·1, breadth 0·03.

Habitat.—Mediterranean (Messina), surface.

3. *Cladococcus penicillus*, n. sp.

Pores subregular, hexagonal, twice as broad as the bars; eight to ten on the radius. Sixty to eighty radial spines, three-sided prismatic, pencil-shaped, longer than the shell diameter; each at the distal end with a brush or pencil composed of nine to twenty-one short, simple, curved branches (three to seven on each edge).

Dimensions.—Diameter of the shell 0·1, pores 0·006, bars 0·003; length of the spines 0·12 to 0·16, breadth 0·006.

Habitat.—Central Pacific, Station 271, surface.

Sugenus 2. *Cladococcinus*, Haeckel.

Definition.—Branches of the spines simple, not ramified. Pores irregular, of different size or form.