

3. *Acanthonia denticulata*, n. sp.

Spines quadrangular prismatic, with prominent elegantly denticulated edges, of equal breadth throughout their whole length. Both ends pyramidal, without leaf-cross. (Similar to *Amphilonche denticulata*, but with the twenty spines all equal, and with spherical central capsule.)

*Dimensions*.—Length of the spines 0·12 to 0·16, breadth 0·008.

*Habitat*.—Central Pacific, Stations 266 to 274, surface.

4. *Acanthonia mülleri*, Haeckel.

*Acanthometra mülleri*, Haeckel, 1862, Monogr. d. Radiol., p. 379, Taf. xv. fig. 3, Taf. xviii. fig. 6.

Spines quadrangular, nearly prismatic, but tapering gradually from the pyramidal base towards the distal bifid apex, which bears two thin, parallel, or little divergent teeth; four edges elegantly denticulated; base without leaf-cross. Central capsule yellowish or reddish.

*Dimensions*.—Length of the spines 0·12 to 0·18, basal breadth 0·005.

*Habitat*.—Mediterranean (Messina); Atlantic, Stations 348 to 352, surface.

5. *Acanthonia fragilis*, Haeckel.

*Acanthometra fragilis*, Haeckel, 1862, Monogr. d. Radiol., p. 380, Taf. xv. fig. 4, Taf. xviii. fig. 7.

Spines quadrangular, nearly prismatic, but gradually thickened from the pyramidal base towards the distal truncated end; four edges regularly denticulated; base without leaf-cross. Central capsule opaque.

*Dimensions*.—Length of the spines 0·5 and more, basal breadth 0·002 to 0·003, distal breadth 0·008 to 0·016 or more.

*Habitat*.—Mediterranean (Messina); North Atlantic, Station 354, surface.

6. *Acanthonia convexa*, n. sp.

Spines quadrangular, with four broad lamellar, convex, prominent edges, which from the broader middle part are thinned towards the two emarginated ends; each end with a small quadrangular pyramid, without leaf-cross. All the twenty spines of this species exhibit nearly the same form, which is seen in the caudal or posterior (geotomical) spine of *Amphilonche anomala* (Monogr. d. Radiol., Taf. xviii. fig. 23, b).

*Dimensions*.—Length of the spines 0·12 to 0·16, breadth in the middle part 0·02 to 0·025.

*Habitat*.—North Pacific, Station 244, surface.

7. *Acanthonia concava*, n. sp.

Spines quadrangular, with four broad lamellar, concave, prominent edges, which from the smaller middle part are broadened towards the two emarginated ends; each end with a small quadrangular