3. Siliquaria, Bruguière, 1792.

Siliquaria (Tenagodus) bernardii, Mörch.

Tenagodus bernardii, Mörch, Journ. de conch., 1860, vol. viii. p. 368, and 1865, vol. xiii. p. 23, pl. iv. fig. 3.

Siliquaria bernardii, Reeve, Conch. Icon., vol. xx. pl. iv. fig. 9.

May or April 1873. North Atlantic. Deep water.

Habitat.—Senegal (Reeve).

Family Turritellide, Gray, 1857.

Genus Turritella, Lam., 1799.

The genus Turritella is a group well defined, as regards the shell, the animal, and the operculum; nor is it unmanageably large. There is therefore no prima facic reason for breaking it up as Gray has done; and his destructive process has not justified itself in the characters of the genera he proposed, which are neither strongly marked nor constant. The consequence is that the lists of species arranged under Turritella (with subgen. Haustator), Torcula, and Zaria are arbitrary in the extreme; and these divisions only cause confusion.

There are two remarkable features of Turritella which do not seem to have been noticed. first is the system of microscopic spirals which covers the entire shell, and which I have found on every even fairly preserved specimen which I have examined. The second is the presence of an This is very distinctly recognisable in Turritella carlottæ and in Turritella austrina, and somewhat doubtfully in Turritella admirabilis. It is filmy, calcareous, and in drying seems to contract, so as to rise off the surface of the shell in the furrows, remaining attached only to the tops of the spirals and in the suture. It also splits in the lines of growth. All this renders it of course very caducous; and, as Mr E. A. Smith remarks, "the fact of all Turritellas appearing to be devoid of an epidermis is quite comprehensible, seeing how excessively thin it is in this instance" (i.e., of Turritella carlottæ, which I had sent to him for examination). Hardly sufficient importance seems generally given to the sinuation of the outer lip, which is a feature quite as distinctly marked as in Pleurotoma.

Species.

- 1. Turritella bicingulata, Lam.
- 2. Turritella cingulifera, Sow.
- 3. Turritella exoleta (Linne).
- Turritella fascialis, Menke.
- 5. Turritella fastigiata, Adams and Reeve.
- 6. Turritella knysnäensis, Krauss.
- 7. Turritella rosea, Quoy and Gaimard.
- 8. Turritella sinuata, Reeve.
- 9. Turritella cordismei, Wats.

- Turritella austrina, Wats.
- 11. Turritella deliciosa, Wats.
- 12. Turritella admirabilis. Wats.
- 13. Turritella lamellosa, Wats.
- 14. Turritella runcinata, Wats.
- 15. Turritella accisa, Wats.
- 16. Turritella carlottæ, Wats.
- 17. Turritella philippensis, Wats.
- 18. Turritella (Eglisia) tricarinata, Adams and Reeve.