E. diaphana Ag., p. 322, Pl. 34, figs. 1-9.—Thaumantias diaphana Ag., Mem. Amer. Acad., IV. p. 300, figs. 1 and 2.—Nahant (Agassiz); Naushon (A. Agassiz).

Laomedea Lamx.1 - Campanularia Lmk. (p. p.).

L. amphora Ag., p. 311, Pl. 30. - Massachusetts Bay (Agassiz).

7th Family. Oceania Esch.² (So restricted as to exclude the Nucleiferae Less., and the Geryonopsidae Ag.). — Eucopidae Gegent. (p. p.). Oceania Pér. and Lest. (restricted). — Thaumantias Esch. — Callichroma Dujard. — Epenthesis McCr. — Phialidium Leuck.

O. phosphorica Pér. and LeS.—Thaumantias cymbaloides Esch.—T. hemisphærica Esch., Forbes, Nak. Med., Pl. 8, fig. 2.—English Channel (Péron and LeSueur). — Thaumantias insconspicua Forbes, Pl. 8, fig. 3, Hebrides, —T. punctata Forbes, Pl. 10, fig. 1, Isle of Man, —T. lineata Forbes, Pl. 11, fig. 1, Zelland, —T. pileata Forbes, Pl. 11, fig. 2, North Ireland, —T. sarnica Forbes, Pl. 11, fig. 4, Guernsey, — are probably different stages of growth only of T. hemisphærica.—Oceania ampullacea Sars, belongs also to this series.

- ¹ Without a renewed comparison, it is impossible for me to refer to their proper genus, the many species of Campanularia and Laomedea already described, since it is known that among them there are types of different genera; belonging even to different families.
- 2 Compare note 2, p. 346. It is far more difficult to define correctly the families of this sub-order, than those of the Tubularians, for the simple reason that comparatively few free Medusa of this type can be referred with certainty to the Hydroids from which they arise, and the medusa-bads of a large number of the Hydroids, have not been observed at all. Under these circumstances, the attempt at a classification, here presented, should be considered as containing hints, rather than ma-Starting, however, from principles ture results. which have proved a safe guide, whenever the data on hand were sufficient, I have considered as belonging to distinct families all those free Meduste and Hydroids which have distinct patterns. Thus, the Aglauridae are separated on account of the flat-topped bell, and the position of their re-

productive organs, even though their mode of reproduction is unknown. To the characters assigned to the Circeida by Forbes, I would add their clongated, cylindrical form. The Polyorchidae are quite remarkable for their branching, chymiferous tubes, and their pendent, reproductive organs; the Melicertida for their eight radiating tubes. their lobed, reproductive organs, and their wide and short actinostome; the Laodiceida for their that form, the extensive lobes of their actinostome, and their peculiar marginal appendages. The free medusa of Lafea cornuta Lamz., lately observed, and the peculiarities of this Hydroid, show that this family cannot be united with the Oceanidae proper, and still less with the Geryonida with which Forbes associates them. Gegenbauer has appreciated their difference correctly; but he has given them a name which cannot be retained. All these families are destitute of eyes, and have only an accumulation of pigment upon the base of the tentacles, or circhi alternating with them. The Eucopida and Oceanida, on the contrary, have distinct eyes; but in the Eucopidae they are at-