Besides the two species of Forskål, Péron and LeSueur refer three others to the genus Cephea: 1, C. polychroma Pér. and LeS.; 2, C. ocellata Pér. and LeS.; and 3, C. fusca Pér. and LeS. An attentive comparison of the descriptions of these species shows the first to be a Cotylorhiza, the Cassiopea borbonica Delle Ch., or Rhizostoma borbonica Esch.; the second a genuine Cephea, allied to C. octostyla; and the third a Polyrhiza, allied to P. Cephea. Lamarck has added nothing to this genus, but simply copied Péron and LeSueur. The Cephea capensis Q. and G., Zool. Uran., p. 568, is, very likely, a genuine Rhizostoma, while the Cephea mosaica Q. and G. (Rhizostoma mosaica Esch.) constitutes a distinct genus, which I have called Catostylus. To these must be added the following new genera.

Diplopilus Ag. In the figure of Polyrhiza Cephea, published by Forskål, the summit of the umbrella is depressed, and evidently injured. In the centre of the depression there appear singular bodies which could not be understood by reference to any known Medusa. Among the drawings of Discophora made during the U. S. Exploring Expedition by J. P. Couthouy, Esq., there is, however, one representing an Acaleph of the same family, which explains this puzzle. From the centre of the umbrella arises a cupola, occupying about one third of the whole diameter, made up of large conical tubercles, and standing out prominently from the upper part of This dome corresponds, in extent, to the central cavity, and is the part sunk in the figure of Forskal. its outline arise eight simple radiating tubes, which reach the base of the eight eyes. In each of the segments thus circumscribed arise ten or twelve simple chymiferous tubes, which anastomose in arches at some distance, and then, doubling their number, radiate in a straight course for twice the distance, towards the margin, where they anastomose again, and, increasing further in number, reach the margin The margin of the disk is in a network of anastomoses. divided, in each segment, into eight pointed lobes. actinostome consists of four broad arms, with numerous fringes and many slender tentacles along their whole margin. Each flat arm is broadly furcate at its extremity.