shells. My learned friend, Savigny, in his elaborate and admirable work on The Invertebrate Animals, who also considers them as a separate class, denominates them Ascidians,* dividing them into two orders, Tethydans and Thalidans. † Many alcyons of Linné and others, are now referred to the class we are treating of.

The characters of the class may be thus stated: ANIMAL, either gelatinous or leathery, covered by a double tunic, or envelope. The external one, analogous to the shell of Molluscans, distinctly organized, provided with two apertures, the one oral, for respiration and nutrition, the other anal; the interior envelope, analogous to their mantle, provided also with two apertures adhering to those of the outer one. Body oblong, irregular, divided interiorly into many cavities, without a head; gills occupying, entirely or in part, the surface of a cavity within the mantle; mouth placed towards the bottom of the respiratory cavity between the gills; alimentary tube, open at both ends; a ganglion, sending nerves to the mouth and anus.

These animals are either simple or aggregate; fixed or floating: the simple ones are sometimes sessile, ‡ and sometimes sit upon a footstalk.§ The aggregate ones possess many characters in common with the polypes, inhabiting, as it were, a common body, somewhat analogous to the polypary, except that it is more intimately connected with the animals that it encloses: the mouth of all is surrounded with rays or tentacles, as is also, in many, the anal orifice; but in their organization they differ very widely, exhibiting traces of a nervous system, and even, in some, of one of circulation. The fixed ones are commonly attached to rocks or other inorganized substances, but sometimes they are parasitic; thus a species of botrylle || envelopes, like a cloak, certain

* Ascidiæ.

+ Tethydes, Thalides.

- # Cynthia. \ Clavelina.
- Botryllus polycyclus.