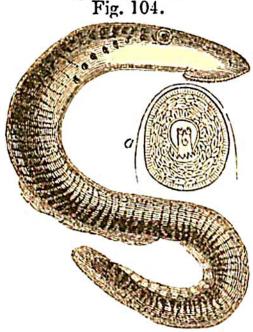
their skeletons, are the most imperfect of all the Vertebrates. They have neither *pectoral* nor *ventral* fins. Their *body*, apparently headless and eyeless, terminates anteriorly in a circular or semicircular fleshy *lip*, supported by a cartillaginous ring. Their *gills* consist of pouches instead



Lamprey (Petromyzon fluvialis.) a. The Sucking mouth with its armature of teeth.

of pectinated organs. By means of their mouth, which, as well as the tongue, is armed with teeth, they fix themselves to fishes, and derive their nutriment from them. The *lamprey*,* *lamperne*,† and *hag*, &c., belong to this Order.

Order 2.—The Selacians have gills, fixed by their outer margin, and not disengaged as in the Osseans, and they expel the water by lateral openings. To this Order the sharks and the rays belong.

Order 3.—The Sturionians agree with the Ossean Fishes in their gills, but their skeleton is cartilaginous. They have only a single orifice, covered with an operculum. The sole genera included in this Order are the Sturgeon,‡ and the Sea-ape.§

Sub-class 2.—The Osseans Cuvier divides into four Orders, viz., Acanthopterygians, Malacopterygians, Lophobranchians, and Plectognathians. These Orders, for reasons before assigned, I shall reverse.

Order 1. (Cuv. 6.)—Plectognathian Fishes. Gill-covers concealed under a thick skin. Ribs rudimental. Ventral

- * Petromyzon fluvialis, &c. + P.1
- + P. branchialis ?

‡ Accipenser.

- 6 Chimæra monstrosa.
- || Vol. i. p. 160, and above, p. 234.