very much and ends in a long whip-like tail, bearing a fin-lobe above and below, near the tip. A long fin passes down the back, nearly the whole length, and in front of it, immediately behind the head, there rises a high first dorsal fin, triangular in shape, and provided with a powerful anterior spine, curiously serrated upon its front edge. The wing-like pectoral fins are a most striking feature as they possess a fleshy peduncle or arm portion, and the pointed fins protrude most prominently on each side of the head. When lying flat against the body they extend over one-fifth of its length. A similar but much smaller pair, the ventral fins, protrude some distance behind the pectoral fins. Both pairs are like very flexible grey wings, resembling Indian rubber in texture, semi-transparent, and supported by horny fin-I was enabled to examine specimens of both sexes, a fortunate circumstance as they differ considerably in their external characters. On the forehead of the male, between the eves, there exists a finger-like protruberance partly bent upon itself, with a flattened tip, fimbriated, and studded underneath with sharp denticles. This spine-covered surface fits into a soft mucous depression in front. Oil and mucus occur in the cavity which is no doubt glandular in nature. One writer has suggested that it is phosphorescent, and that the Chimæra carries a lamp upon its forehead; while Buckland fancifully compared it to a crown, whence he says, the Norwegians have called the Chimæra the "king fish" and also the "King of the Herrings."

The hind part of each ventral fin forms a separate bifurcate appendage, covered with a soft glandular membrane complexly folded and perforated by a longitudinal channel.

The male shark and skate have similar curious structures but in the Chimæra they are even more complex and curious, and impossible to be clearly described without the aid of figures.

The eyes are large and brilliant, unprovided with lids, and show a glowing green opalescent in the living fish. The iris is of a pale steel-blue colour. Buckland presaged that "the eye in life must have a monstrous and fierce appearance" and