

The *Arms* are unequal, the fourth pair being the shortest (considerably so on the right side); the first, second, and third are subequal; they are on an average of about the same length as the body, smoothly conical, and taper evenly to fine points. The *suckers* (fig. 14) are in two series throughout, pedunculate, spherical, with a lateral aperture directed inwards (figs. 11, 12); the *horny ring* is smooth and surrounded by a few large papillæ. The *hectocotylus* is not developed. There is no trace of an *umbrella*. The *buccal membrane* is well developed and has the usual seven points, but they are not very well marked nor provided with suckers; the membrane is not connected with the arms by ligaments. There seems to be only one *lip*, which is thick and papillate (fig. 13).

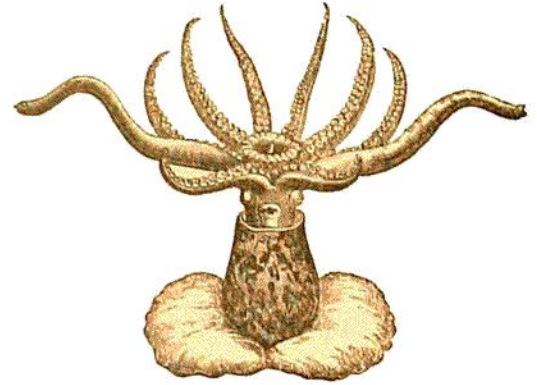


FIG. 3.—*Promachoteuthis megaptera*, Hoyle; natural size.

The *Tentacles* arise directly between the third and fourth arms, exactly resembling them at their origin, and being obviously serially homologous with them (figs. 10, 13); the *stem* is swollen at first and somewhat more than one third up the arms narrows rather suddenly to about half its previous diameter. The *club* is wanting in the unique specimen.

The *Surface* is smooth.

The *Colour* is a dull purplish madder, paler on the fins (especially their under surface) and on the arms and tentacles.

The *Gladius* has not been extracted.

Dimensions.

Length, total (to end of mutilated tentacle),	50 mm.	
End of body to mantle-margin,	15 "	
End of body to eye,	18 "	
Breadth of body,	9 "	
Breadth of head,	6 "	
Length of fin,	11 "	
Breadth across both fins,	23 "	
Diameter of largest sucker on sessile arm,	0.75 "	
	Right.	Left.
Length of first arm,	13 mm.	14 mm.
Length of second arm,	14.5 "	15 "
Length of third arm,	14 "	14 "
Length of fourth arm,	7 "	12 "
Length of tentacle (mutilated),	22 "	25 "
Number of suckers on first arm,	37	37
Number of suckers on second arm,	39	39
Number of suckers on third arm,	35	39
Number of suckers on fourth arm,	20	31