DESCRIPTION OF TWO NEW SPECIES OF GASTROPODA FROM THE UPPER
LIAS OF YORKSHIRE. BY REV. JOHN HAWELL, M.A.
(Read 29th October, 1896.)

PLATE XXXV.

During the visit of the Yorkshire Geological and Polytechnic Society to Whitby, early in August last, two species of Gastropod Shells were found in the Upper Lias, both of which appear to be not only new to the Yorkshire Lias, but, so far as I have been able to ascertain, new to science. Both of these were found in the Jet Rock, or zone of *Ammonites serpentinus*, at Saltwick Nab, near Whitby. The interest of these discoveries will be appreciated when the following facts are borne in mind: first, that the Palæontology of the Upper Lias of Yorkshire, and especially of the Whitby neighbourhood, has been very exhaustively worked out, especially as regards conchology, and that very little has been added since the publication of Messrs. Tate and Blake's admirable work on the "Yorkshire Lias"; secondly, that these authors are only able to record two species of *Gastropoda* as having been found in the zone of *Ammonites serpentinus* in Yorkshire, namely *Natica buccinoides*, and *Euomphalus minutus*, although special facilities have been afforded by the mining of jet. It is also a very notable circumstance that both of these species were discovered by a lady—Mrs. Kendall.

ACTÆONINA KENDALLII, SP. NOV.

The first discovered of the shells referred to is a species of *Actæonina*, of which the following is a *diagnosis*:—

Shell thin, ovate, whorls three, shoulder of whorls almost a right angle; space between suture and shoulder convex; spire short; about 15 well-defined impressed spiral *striæ* on the last whorl, at pretty regular distances apart; the space near the suture is, however, free from these striations, the uppermost of them coming just below the shoulder; fainter intermediate impressed *striæ*, varying in number from none to three, and irregular in their position and degree of definiteness; growth lines fairly well pronounced; commencing from

the suture they curve forwards so as to form an angle of about forty-five degrees with the *carina* at the shoulder ; this forward curving is continued until they reach the middle of the whorl when they bend backwards. The lines of growth are interrupted by the larger *striae*, but some of the stronger growth lines cross some of the secondary striations without interruption. Length four millimetres, width three millimetres.

Four specimens were obtained, but none of them are in very satisfactory condition. The shells are pyritous. As they were discovered by Mrs. Kendall and communicated to me by Professor Kendall, who is doing so much for Yorkshire Geology, I propose for the species the name of *Actæonina kendallii*.

TURBO SALTVICIENSIS, SP. NOV.

The other new Gastropod which I have to bring to your notice is a *Turbo*, of which the following is a description :—

Shell a truncated cone with four evenly rounded whorls ; apex very obtuse, the primary whorl being almost discoidal ; suture moderately deep ; base slightly flattened ; umbilicus well pronounced, but shallow ; mouth nearly round, but rather pointed at the suture ; peristome not continuous ; outer lip very thin ; columellar lip slightly reflected at the suture ; spiral *striae* very numerous, fine, and regular, crossed by the lines of growth, which are about equally close set, fine, and regular. Shell in its present condition very thin. Height one and a-half millimetres, width one millimetre.

Some pieces of shale, obtained at Saltwick, are crowded with these little shells, of which I noticed at least one hundred and forty. They are pyritous, and exteriorly in excellent condition. The internal nacreous portion of the shell has, however, been dissolved, though it appears in some instances to give a whitish crystalline appearance to the internal cast when the shell is broken away, especially in the upper whorls. I propose for this species the name of *Turbo saltviciensis*, from Saltwick, the place where it was found.

One specimen resembles the type, except that it has three ridges on the last whorl. This variety may be named *tricarinata*.

Geo. West & Sons lith. et imp.

1. 2. *Actæonina Kendalhi*.
 3. 4. *Turbo Saltviciensis*.
 5. " " var *tricarinata*.