DESCRIPTION OF TWO NEW SPECIES OF LAMELLIBRANCHS FROM
MARINE BANDS OF THE YORKSHIRE COALFIELD.

BY WHEELTON HIND, M.D., B.S., F.R.C.S., F.G.S.

(*Manuscript received 14th November, 1908.*)

AVICULOPECTEN CULPINI, sp. nov. Plate XL., Figs. 1 and 2.

Specific Characters :—Shell small; quadrate. The left valve moderately convex. The hinge line straight, produced and pointed posteriorly. Ears large, deep, and well defined, the anterior with six deeply-impressed radiating grooves separated by ridges; the posterior concave, with one central, thin, radiating ridge and numerous fine concentric striæ; its margin arcuate. The body of the valve is ornamented with many radiating, sharp raised, equidistant, slightly nodulose ribs, some of which start at the umbo, but as they become separated in their passage across the shell, new ones arise between each pair.

The right valve has a somewhat similar ornament, but the radiating lines are much finer and the whole valve is much flatter.

Dimensions :—A left valve measures: Antero-posteriorly, 12 mm.; Dorso-ventrally, 12 mm.

Localities :—Brodsworth and Bentley.

Observations :—Mr. Culpin has been fortunate enough to find a left valve of this shell at both Brodsworth and Bentley. It belongs to the group of *A. tabulatus*, being characterised by a very long spur along the upper border of the posterior ear. The Bentley specimen shows the external ornament. The Brodsworth specimen is the interior of the valve and has the ears perfectly preserved. I figure a specimen with two valves from Bentley.

SCALDIA CARBONARIA, sp. nov. Plate XL., Fig. 3.

Specific Characters :—Shell small, orbicular, gibbose. Margin formed by a single curve which passes from the anterior extremity of the hinge line without any break to the posterior, the curvature becoming somewhat flattened along the posterior

Figs. 1 and 2.—*AVICULOPECTEN CULPINI*.

Fig. 3.—*SCALDIA CARBONARIA*.

Proc. Yorks. Geol. Soc., Vol. XVI., Plate XL.

border. Hinge line arcuate. Umbo small, pointed, sub-central. The shell is regularly swollen, but somewhat compressed towards the posterior superior angle.

Exterior :—The shell is ornamented with very fine concentric lines of growth.

Dimensions :—A left valve measures : Antero-posteriorly, 7 mm. ; Dorso-ventrally, 7 mm. ; Gibbosity of valve, 1 mm.

Localities :—Brodsworth ; Wentbridge Boring, 193 and 333½ feet from the surface.

Observations :—I refer this species without hesitation to *Scaldia*, although I have not seen the hinge. It has been found by Mr. Culpin at Brodsworth, and by Mr. E. Hummel at two horizons in the Wentbridge Boring.

The species is much larger than *Scaldia minuta*, Hind, from the Coal Measures of North Staffordshire, but smaller than the Carboniferous Limestone species, and the concentric markings are much finer than in the latter species.