

ART. II.—THE NAUTILUS OF THE BROOKFIELD LIMESTONE.—
NAUTILUS BROOKFIELDI, N. SP.—Rev. Dr. HONEY-
MAN, D. C. L.

(Read January 10, 1887.)

OUR attention has been particularly directed to this subject by the presentation to the Museum of a fine specimen of this fossiliferous limestone, by J. J. FALCONER, of the Acadia Iron Works. Large quantities of this limestone from the Brookfield quarries, Colchester County, are used at these works in the reduction of the iron ores. Our specimen was happily rescued from the furnace.

It measures 6 x 5 inches; its greatest thickness is four inches. It shows the distinct remains of a dozen *nautili*. The habitation chambers of six individuals are seen upon one side. These are of medium size. Others that we have collected from the same limestones are larger. Those of our specimen measure 2.2 inches along the outer curves. Another of the same size, which is separate and has parts of upper chambers attached, has a girth of 3 and 3.3. The form of the empty chambers is sub-elliptical; the siphuncle is central. This species is very distinct from the *Nautilus avonensis*, Dawson. Of this we have two larger body chambers from the Avon limestones, Windsor. The siphuncle has its characteristic position, *dorsal*. A still more beautiful specimen of the chamber of habitation of this species is from the Brookfield limestones. It is a cast full of the shells of brachiopoda. Its siphuncle is dorsal. It has two lateral ridges; the middle is slightly convex. Our new species wants these ridges and the middle is concave. We name the species, *Nautilus brookfieldi*. The limestones are of Lower Carboniferous age.