

which have not that protection from an external shell, which is afforded by the shell of the *N. Pompilius* to its inhabitant, that has no ink-bag. No ink, or ink-bags have been ever seen within the shell of any fossil *Nautilus* or *Ammonite*: had such a substance existed in the body of the animals that occupied their outer chamber,

altered by pressure. It is composed of a thin laminated substance (see Pl. 44", Fig. 1, d.), which in some parts is brilliantly nacreous, whilst in other parts it presents simply the appearance of horn. The outer surface of this cup is marked transversely with gentle undulations, which probably indicate stages of growth. Miss Baker has a *Belemnite* from the inferior *Oolite* near Northampton, in which one half of the fibrous cup being removed, the structure of the conical shell of the alveolus is seen impressed on a cast of iron-stone, and exhibits undulating lines of growth, like those on the exterior of the shell of *N. Pompilius*.

M. Blainville, although he had not seen a specimen of *Belemnite* in which the anterior horny conical chamber is preserved, has argued from the analogy of other cognate chambered shells that such an appendage was appertinent to this shell. The soundness of his reasoning is confirmed by the discovery of the specimen before us, containing this part in the form and place which he had predicted. "Par analogie elle était donc évidemment dorsale et terminale, et lorsqu'elle était complète, c'est-à-dire pourvue d'une cavité, l'extrémité postérieure des viscères de l'animal (très-probablement l'organe sécréteur de la génération et partie du foie) y était renfermée."—Blainville *Mém. sur les Bèlemnites*. 1827. Page 28.

Count Munster (*Mem. Geol. par A. Boue*, 1832, V. 1, Pl. 4, Figs. 1, 2, 3, 15) has published figures of very perfect *Belemnites* from Solenhofen, in some of which the anterior horny sheath is preserved, to a distance equal to the length of the solid calcareous portion of the *Belemnite* (Pl. 44', Figs. 10, 11, 12, 13), but in neither of these are there any traces of an ink-bag.