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ADDITIONAL NOTES ON NEPHRITICERINA

BY AUG. F. FOERSTE



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Editor: Eugene S. McCartney

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ADDITIONAL NOTES ON NEPHRITICERINA

By AUG. F. FOERSTE

THE type of Nephriticerina alpenensis showed very well the rate of enlargement of the conch, its lengthwise curvature, the ornamentation of the surface of its shell, the location of the siphuncle and the form of one of its segments. It was very misleading, however, when an attempt was made to determine the character of its aperture. A second specimen, from the same locality and horizon, presents an entirely different appearance along the upper part of its living chamber, and one much more likely to be correct. Hence it is figured and described in the following lines. It fails, however, to reveal some of the features well shown by the first specimen, such as the ornamentation of the surface of the shell and the location and character of the siphuncle.

Nephriticerina alpenensis Foerste (Plate I, Figs. 1 A, B; Text Fig. 1 A, B)

Nephriticerina alpenensis Foerste, Contrib. Mus. Geol. Univ. Michigan, Vol. 2, no. 9, p. 195, 1927.

A second specimen of *Nephriticerina*, from the same locality and horizon as the type of *Nephriticerina alpenensis*, is assumed to belong to the same species. This specimen is a cast of the interior of the living chamber and is of interest chiefly because it gives a more accurate idea of the form of the aperture than could be obtained from the specimen described first. The margin of this aperture, at least in the second specimen, is approximately directly transverse to the curving central axis of the chamber, except on its convexly curved ventral side, where it curves downward for a distance of about 16 mm., producing a hyponomic sinus about 40 mm. wide at its top. The chamber is strongly depressed dorso-

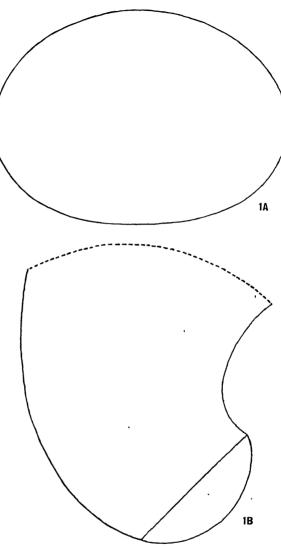


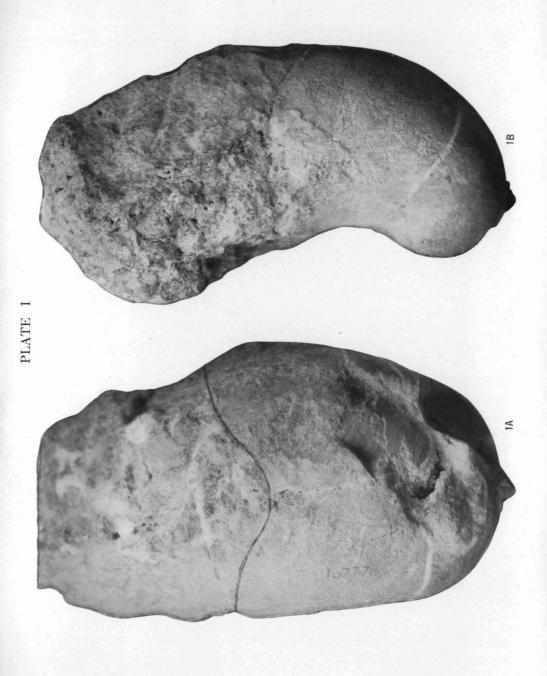
Fig. 1. Nephriticerina alpenensis Foerste. Same specimen as that represented on Plate I. A, cross-section with the ventral part of the outline at the top of the figure; B, lateral view, outlining more distinctly the suture of the septum at the base of the living chamber. There is no trace of the siphuncle. For the latter see Contributions from the Museum of Geology, University of Michigan, Vol. 2, Plate V, Figure 5, 1927.

ventrally. At the aperture its lateral diameter is 79 mm, and its dorso-ventral one is 59 mm. The corresponding diameters at the bottom of the specimen are estimated at 57 mm. and 36 mm. The dorsal side of the cross-section is distinctly more flattened than the ventral side. Along the convexly curved ventral outline of the chamber the level of the highest part of the aperture is 80 mm. above the suture of the septum at its base. Along the concavely curved dorsal outline this interval is about 40 mm. The concavity of the septum at its base is 15 mm. Its maximum concavity appears to be dorsad of the center of the conch. The base of the specimen is broken in such a manner that no trace of the siphuncle is retained. In the absence of any trace of the vertical ribs on the surface of the shell the reference of this specimen to Nephriticerina can be regarded as only tentative, but the correctness of this reference is highly probable in view of the occurrence of this specimen at the same locality and horizon as the genotype.

Locality and horizon. — From the quarry of the Michigan Alkali Company, at Alpena, Michigan, in the Alpena limestone. Specimen No. 10777 in the Museum of Paleontology, University of Michigan.

PLATE I

Fig. 1. Nephriticerina alpenensis Foerste. — A, ventral view, showing the outline of the aperture with its hyponomic sinus. The lower part of the specimen is crushed; B, lateral view of the same specimen, showing the rate of its lengthwise curvature. See also Figure 1A and B on page 152. Specimen No. 10777, Museum of Paleontology, University of Michigan.



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