

## GRAPTOLITHUS PRISTINIFORMIS.

*Description*.—Stipe simple, with serratures on both sides ; serratures closely arranged, very oblique, acute, mucronate ; thirty-two in the space of an inch.

This species approaches to *G. pristis* (Pal. N.Y., vol I., p. 265, pl. 72, fig. 1), but the serratures are more ascending, and the extremities more distinctly mucronate. The specimens observed however, are imperfect fragments, which are very closely compressed, being barely a film upon the surface of the shale, and the determination is somewhat unsatisfactory.

*Locality and Formation*.—Point Lévy ; Hudson River Group.  
*Collector*.—J. Richardson.

## GRAPTOLITHUS ENSIFORMIS.

(Genus RETIOLITES ? Barrande.)

*Description*.—Stipe simple, sub-ensiform or elongate-spatulate, usually broader in the middle and narrower towards the extremities ; a central rib, with strongly marked obliquely ascending striæ which reach the margins ; serratures obscure, apparently corresponding to the striæ ; margin usually well defined.

Several specimens of this form occur on a single slab of slate, associated with *G. tenaculatus* and *G. quadribrachiatus*. The oblique striæ apparently indicate the direction of the serratures, and in one specimen there is an appearance of obtuse indentations upon the margin ; but it is scarcely possible at the present time to define satisfactorily the character of these serratures. In form and general character this species differs from all the others sufficiently to be readily distinguished.

*Locality and Formation*.—Point Lévy ; Hudson River Group.  
*Collectors*.—J. Richardson, Sir W. E. Logan, James Hall.

## GRAPTOLITHUS TENTACULATUS.

(Genus RETIOLITES, Barrande.)

*Description*.—Stipe simple, linear, elongate-lanceolate or sometimes elongate-elliptical when entire ; mid-rib double, extending much beyond the apex of the frond ; exterior margins when entire, reticulate and armed with mucronate points, (and with mucronate points alone, or smooth, when imperfect,) with an extended setiform tentacle-like process from each side of the basal extremity ; substance of the centre reticulate or cellular ?