remains of this order have been compared anew to ascertain which are genuine Enydoids, and which Hydraspides. The modifications noticed in the form have suggested their subdivision into several tribes or sub-families. (Compare p. 355.)

## GENERA OF TIIE 8OB-FANILY OF NECTEMTDOIDSE.

I. Pricimers, Ag. Horizontal alveolar surface of the upper as well as the lower jaw very broad, and divided by a ridge, the crest of which is tuberculate, and parallel to the cutting edge of the jaws. This edge is either smooth or serrate. The front of the alveolar margin of the upper jaw is either emarginated or more or less decply notched, with or without a projecting tooth on either side (Pl. 27, fig. 5). Lower jaw very flat, with a hook or sharp point in front, behind which a keel extends along the symphysis, on each side of which there is a deep pit; alveolar surface spreading inward beyond the vertical branches of the jaw. Horny sheath of the lower jaw rough externally. A row of large scales, in the shape of a fold, along the outer ellge of the forefeet (PI. 27, fig. 1-3). Tessellation of the epidermis, amounting to scales upon the neck, but not upon the loose skin between the legs. The clawless fifth toe of the hind foot forms an angular projection on the posterior edge of the foot (Pl. 27, fig. 1-3). The color varies greatly with age, and even in different specinens of the same age. When young, the whole surface has more or less confluent ocellated and crescent or lozenge-shaped figures, which become more transverse afterwards, and may be resolved into simple blotches in old age. The clars also vary greatly in length and strength; sometimes, especially in half grown specimens, those of the three middle toes exceed the length of the whole foot. In the young, the medinn row of scales forms a blunt keel along the back, which fades entirely in the adult. The scales are at first smooth, or rather finely granulated; afterwards radiating rugosities appenr upon their periphery, while in old age ${ }^{\text {' }}$ they are longitudinally rugose.

Prrcinemrs nugosa, dg. ${ }^{2}$ Its most prominent specific character consists in the

[^0]Sc. Phil., 185.1, p. 189,) it had been described betore, by Slaw, as Testuilo rugosa. Merrens and Schlegel consider it as a variety of Emys serrata, while Say and Inrlan have aetually contounded it with Emys serrata, from whiel it differs, even generieally. Gray also describes it ns Emys serratin (Emys irrigatn, LSell). Emys rivulata, Gray, is not apecilieally distinet. Dumeril and bibron deseribe it under three


[^0]:    ${ }^{1}$ This shows how unsatisfactory specific characters must be which are ilerived from the direction, or even the presence, of these rugusities.
    : This species is well known to the American naturalists, under the name of Emys ruloriventris, (Hollirwok, N. Amer. Ilerp.. vol. 1. p. 55. pl. ©.) Girst aplied to it lig Major LeConte; hut, as this ahle observer has himself acknowledged, (Proc. Ac. Nat.

