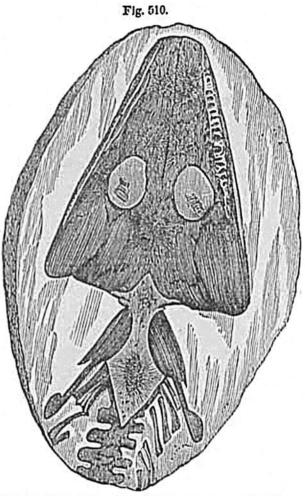
the skeletons of no less than three distinct species of air-breathing reptiles, which were described by the late Prof. Goldfuss under the generic name of Archegosaurus. The ichthyolites and plants found in the same strata

left no doubt that these remains belonged to the true coal period. The skulls, teeth, and the greater portions of the skeleton, nay, even a large part of the skin, of two of these reptiles have been faithfully preserved in the centre of spheroidal concretions of clay-iron-stone. The largest of these lizards, Archegosaurus Decheni, must have been 3 feet 6 inches long. annexed drawing represents the skull and neck bones of the smallest of the three, of the natural size. They were considered by Goldfuss as saurians, but by Herman von Meyer as most nearly allied to the Labyrinthodon, and therefore, as before explained (p. 340), having many characters intermediate between batrachians and saurians. The Archegosaurus minor, Goldfuss. Fossil reptile from the coal-measures, Saarbrück. remains of the extremities



leave no doubt that they were quadrupeds, "provided," says von Meyer, "with hands and feet terminating in distinct toes; but these limbs were weak, serving only for swimming or creeping." The same anatomist has

pointed out certain points of analogy between their bones and those of Proteus anguinus; and Prof. Owen has observed to me that they make an approach to the Proteus in the shortness of their ribs. Two specimens of these ancient reptiles retain a large part of the outer skin, which con-



Imbricated covering of skin of Arche-gosaurus medius, Goldf.; magnified.*

sisted of long, narrow wedge-shaped, tile-like, and horny scales, arranged in rows. (See fig. 511.)

Cheirotherian footprints in coal-measures, United States .- In 1844, the very year when the Apateon or Salamander of the coal was first met with in the country between the Moselle and the Rhine, Dr. King published an account of the footprints of a large reptile discovered by him

· Goldfuss, Neue Jennische Lit. Zeit. 1848; and Von Meyer, Quart. Geol. Journ. vol. iv. Miscell. p. 51.