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## Pleuroptyx in the Iowa Coal Measures

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## PLEUROPTYX IN THE IOWA COAL MEASURES.

BY J. A. UDDEN.

At a horizon of some hundred feet above the base of the Coal Measures in Fairfield township in Jefferson county is a seam of a concretionary limestone varying from two to five feet in thickness. It crops out on the hillside in a creek that follows the south side of the abandoned embankment of the Chicago, Burlington & Quincy railroad, where this leaves the new line, about a mile and a half west of the city of Fairfield. The ledge has been quarried in several places close to the line of the old road, where some pits are still seen. On this limestone lies a black, fissile bituminous shale, lumps of which are seen in the old pits. Last summer the writer found in one of these lumps a bone which he thought might be a phalanx of some early batrachian. This was submitted to Prof. C. R. Eastman of the Museum of Comparative Zoology, who identified it as belonging to *Pleuroptyx clavatus* Cope, discovered in the Coal Measures of Ohio. In the lump of shale which contained this bone some small enamelled rhomboidal scales and a few small conical teeth were also observed, and associated with these were some slender and polished bony spines and impressions of numerous small ostracods. The abundance of vertebrate remains was confined to a single lump of the shale, but it suggests that the locality might deserve a more thorough exploration.