

The dentition of a eugeneodontiform shark from the Lower Pennsylvanian of Derbyshire, UK

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The anterior part of a medium-sized shark surrounded by hundreds of ostracod shells was found at the end of the last century in a dark limestone nodule from the Kinderscoutian (Bashkirian, Pennsylvanian) near Carsington, Derbyshire (England, UK). The shark is a caseodontoid eugeneodontiform, most probably belonging to *Campodus agassizianus*. Its dentition is of the crushing type, highly heterodont, but the symphyseal tooth whorl, typical of the most of eugeneodontiforms, was not found. The teeth are symmetrical labio-lingually which is unique in this group. The analysis of the available data leads to the conclusion that neither the tooth whorls of “*Campodus variabilis*” sensu Eastman, nor the mandibular dentition of “*Agassizodus variabilis*” sensu St. John and Worthen represent the genus *Campodus* and that these specimens deserve a new, probably common, name.

Key words: Chondrichthyes, Eugeneodontiformes, *Campodus*, teeth, Carboniferous, Bashkirian, UK, England.

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