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New placognath Eunicida (Polychaeta) from the Ordovician and Silurian of Poland

ABSTRACT: Four species of placognath Eunicida (Polychaeta) represented by isolated jaws and jaw apparatuses are described from Ordovician and Silurian erratic boulders collected along the Baltic coast in Poland. One new genus (Rakvereprion gen. n.) and two new species (Mochtyella angelini sp. n., and M. grazynae sp. n.) are erected.

INTRODUCTION

Eunicida with placognath jaw apparatuses make an extinct group of Polychaeta known since the Ordovician through Permian. Some doubtful placognath eunicids were also reported from the Triassic (Kozur 1971, Zawidzka 1975). Isolated jaws were for the first time described by Hinde (1879) but they were erroneously assigned to the Staurocephalidae. Their proper systematic position has been recognized by Kielan-Jaworowska (1961, 1962, 1966) who described well-preserved jaw apparatuses from the Ordovician and Silurian of Poland. Placognath apparatuses were also studied by Szaniawski (1968, 1970), Szaniawski & Wrona (1973), and Jansonius & Craig (1974); an anterior part of undeterminable apparatus was described by Taugourdeau (1971).

In the present paper, four species of placognath Eunicida are described from Ordovician and Silurian erratic boulders from Poland. One genus (Rakvereprion gen. n.) and two species (Mochtyella angelini sp. n. and M. grazynae sp. n.) are new.

Acknowledgements. Heartfelt thanks are extended to Professor A. Urbanek for kindly estimating the geological age of boulder No. MZ/47 on the basis of graptoloids, and to J. Dzik, M. Sc., for dating the other boulders on the basis of conodonts. The author is also greatly indebted to Mrs. D. Sławik for drawing the figures.

MATERIAL AND METHODS

The eunicid jaws described in the present paper have been extracted from three erratic boulders from along the Baltic coast.

Boulder No. MZ/25 derived from Orzechowo, province of Słupsk, 0.40 kg. The rock resembles the Baltic Limestone. Upper Caradocian, Amorphognathus superbus Zone (Oandu or Lower Rakvere Stage of the Estonian sequence; cf. Mierzejewski & Mierzejewska 1975). Fauna: polychaetes Rakvereprion balticus (Eisenack) and Vistulella kozlowskii Kielan-Jaworowska.

Boulder No. MZ/47 derived from Orzechowo, province of Słupsk, 0.65 kg. Dark grey, medium-grained limestone. Ludlovian. Fauna: chitinozoans Ancyrochitina sp.; fragments of eurypterid cuticle; græptolites Epigraptus sp., Dendrotubus cf. wimani Kozłowski, Dendrotubus erraticus Kozłowski, Bulmanicrusta cf. latialata Kozłowski, Neocucullograptinae, and indeterminable Diplograptidae; polychaetes Mochtyella angelini sp. n., Mochtyella sp., Paulinites sp., and ?Polychaetaspis sp.

Boulder No. MZ/142 derived from Poddebie, province of Słupsk, 0.50 kg. Light grey, coarse-grained limestone. Upper Silurian. Fauna: conodonts; chitinozoans; fragments of eurypterid cuticle; rhabdopleurids; polychaetes Mochtyella angelini sp. n., Mochtyella grazynae sp. n., Mochtyella cf. fragilis Szaniawski, Paulinites spp., Polychaetaspis sp., Skalenoprion sp., Xanthoprion sp., and Vistulella kozlowskii Kielan-Jaworowska.

The placognath eunicid fossils were etched out with $15^{\circ}/_{\circ}$ acetic acid. Kozłowski's "wet" technique of extracting microfossils from residuum was used, as described in detail by Kielan-Jaworowska (1966). The investigated material is housed at the Museum of the Earth of the Polish Academy of Sciences, Warsaw.

The electron micrographs were taken with JEOL JSM S-1 at the Nencki Institute of Experimental Biology, Polish Academy of Sciences, Warsaw.

The scolecodont descriptive terms are mainly those of Kielan-Jaworowska (1966); some other terms are also used, introduced earlier by the present author (Mierzejewski 1978).

SYSTEMATIC DESCRIPTION

Order Eunicida Dales, 1962
Superfamily Mochtyellacea Kielan-Jaworowska, 1966
Family Mochtyellidae Kielan-Jaworowska, 1966
Genus MOCHTYELLA Kielan-Jaworowska, 1961

Type species: Mochtyella cristata Kielan-Jaworowska, 1961
Diagnosis: See Kielan-Jaworowska (1968, p. 52).

Remarks. — Although opting for nomenclatory dualism, some authors treated isolated jaws in terms of "orthotaxonomy" (Kielan-Jaworowska 1966) or even regarded them as a basis to erect new species in this very classification (Szaniawski 1970). Eller (e.g. 1945) described both compound and simple jaws as Staurocephalites Hinde, 1879. The latter name is nomen dubium as was shown by Szaniawski & Wrona (1973) and hence, some Eller's species can be attributed to the genus Mochtyella Kielan-Jaworowska. However, a species can be undoubtfully assigned to the genus Mochtyella only when the right compound jaw is known to consist of main, second, and basal ridges. In fact, right compound jaws with

second ridge lacking occur in the genus Multiprion Szaniawski & Wrona as well as in Mochtyella.

Any species erected exclusively after a left compound jaw cannot be ultimately assigned to particular mochtyellid genera, since there are three genera with left compound jaws consisting of main and laeobasal ridges, viz. Mochtyella Kielan-Jaworowska, Multiprion Szaniawski & Wrona, and Oxyprion Szaniawski. Then, generic attribution of those species requires further studies on the type localities and new findings.

The systematic position of Mochtyella duplicidentata Szaniawski, 1970, appears doubtful. In fact, the species has been described after a jaw appearatus but Szaniawski (1970) supposed that the right jaw lacked both second and basal ridges. If so, the species cannot be attributed to the genus Mochtyella, as compoundness of a right jaw is the diagnostic generic feature (cf. Kielan-Jaworowska 1986).

The name Mochtyella multilamellata Szaniswski, 1970, is to be regarded as synonymous (cf. Mierzejewski 1978) with M. fragilis Szaniswski, 1970.

Then, the following species are assigned to the genus Mochtyella:

- M. angelini sp. n.
- M. cristata Kielan-Jaworowska, 1961
- ?M. duplicidentata Szaniawski, 1970
- M. elleri Jansonius & Craig. 1974
- M. fragilis Szaniawski, 1970, emend. Mierzejewski, 1978
- M. grazynae sp. n.
- M. kielanae Szaniawski & Wrona, 1973
- M. polonica Kielan-Jaworowska, 1966
- M. trapezoidea Kielan-Jaworowska, 1966
- M. tripulus (Eller, 1945)

Occurrence: Lower Ordovician to Upper Devonian, ?Carboniferous; Europe, North America, Africa.

Mochtyella angelini sp. n. (Pl. 1, Figs 1—3)

1986. Mochtyella sp. c; Z. Kielan-Jaworowska, p. 58, Pl. 4, Fig. 3. 1986. Mochtyella sp. d; Z. Kielan-Jaworowska, p. 59, Pl. 4, Fig. 4.

Holotype: Incomplete jaw apparatus (MIr, MII, 5 left anterior teeth and 6 right lateral teeth) presented in Pl. 1, Fig. 1.

Type locality and horizon: Erratic boulder No. MZ/142 derived from Poddebie, province of Shupsk, Poland; Upper Silurian.

Derivation of the name: In honour of N.P. Angelin who was the first student of isolated jaws of the fossil Polychaeta.

Diagnosis: Both right had left MI strongly compressed laterally. Basal ridge distinctly denticulated, 0.17—0.30 total-jaw long. Second ridge straight, smooth, very narrow, 0.19—0.31 total-jaw long. Laeobasal ridge prominent, denticulate, half total-jaw long. Anterior teeth (not less than 5 in number) decreasing in size anteriorly; the last one provided with 3 tips. Lateral teeth subtriangular, relatively short.

Denticle formula:

МП		MIr
Laeobasal ridge Main ridge	16—18 13—17	Basel ridge 5-10 Main ridge 13-17 Second ridge smooth

Material: Apart from the type specimen, a single left compound law associated with 2 anterior teeth, 18 isolated MIr, and 17 isolated MII.

Description. — Right and left MI vary in length from 0.42 up to 2.23 mm.

Right MI is strongly compressed laterally, fairly narrow in dorsal view, wide in lateral view. The jaw width ranges from 0.16 to 0.28 of the length. In dorsal view, the jaw is anteriorly pointed or seldom slightly rounded. The anterior margin is straight or slightly arcuate, distinctly oblique relative to the outer and inner ones. The outer and inner margins are very distinct, subparallel, somewhat convergent posteriorly. The posterior margin is rounded or irregular. The main ridge is straight and displays 13-17 denticles decreasing gradually in size posteriorly; in a few cases, the most posterior part of the ridge is smooth. The basal ridge ranges from 0.17 to 0.30 of the total-jaw length. It is very prominent and distinctly denticulated; the denticles are 5-10 in number and decrease in size posteriorly. In very small specimens, the basal ridge may be denticulated but indistinctly. The second ridge is smooth, straight or slightly arcuate, very narrow, parallel to the main one. It ranges from 0.17 to 0.31 of the total-jaw length. In lateral view, tne jaw is very wide anteriorly, somewhat tapering posteriorly, with straight denticulated margin. In ventral view, the myocoele opening is narrow; the furrows associated with the main and basal ridges are distinctly separated.

Left MI is somewhat less compressed laterally than the right one. Its width ranges from 0.21 to 0.30 of the length. In dorsal view, all the margins appear as mirror images of the MIr margins. The main ridge resembles that of the right jaw. The laeobasal ridge displays 16-18 denticles decreasing in size anteriorly. It attains or even exceeds half the total-jaw length and is separated from the main ridge by a fairly wide furrow. It is commonly broken off. In lateral view, the jaw is very wide anteriorly, somewhat tapering posteriorly, with straight denticulated margin. In ventral view, the furrows associated with the ridges are distinctly separated one from the other.

Six right lateral teeth are known, adherent to the right slope of MIr; they are subtriangular and fairly short. The total number of lateral teeth is, however, unknown.

Five left anterior teeth are known; they are fairly large but decrease in size anteriorly; the last one is provided with three tips. The total number of anterior teeth is unknown. In a single specimen (Pl. 1, Fig. 3a), one anterior tooth with three tips and another one with one tip are housed in the MII myocoele.

Remarks. — Isolated right MI from erratic boulders of Silurian age attribut-

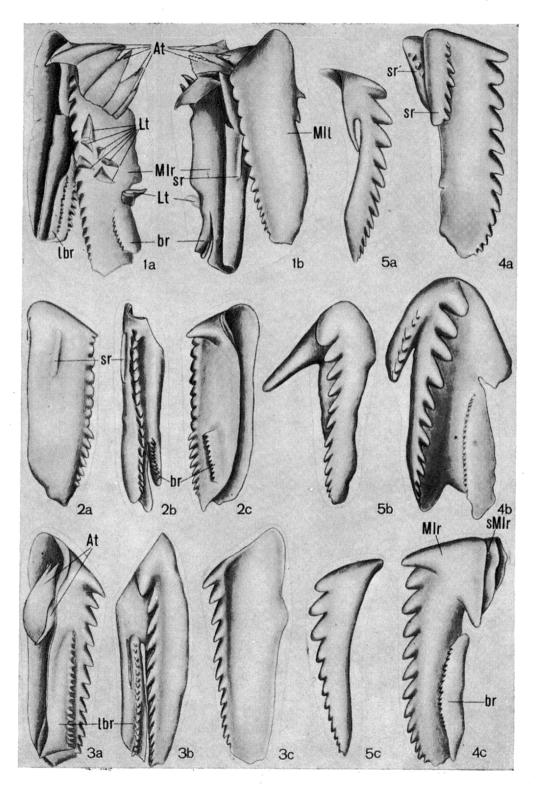
PLATE 1

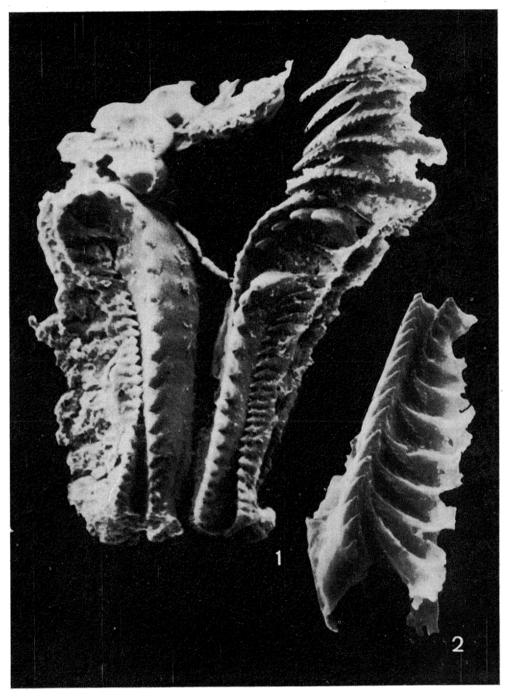
Abbreviations: At anterior tooth, br basal ridge, lbr lacobasal ridge, Lt lateral tooth, MR left maxilla, Mir right maxilla, sr second ridge, sr' second ridge of secondary maxilla, sMir secondary Mir

Mochtyella angelini sp. n.; Ludlovian, erratic boulder No. MZ/142 1a-b Holotype, jaw apparatus in two views; specimen No. MZ VIII.O/142p/1, X70 2a c Right MI in left lateral, dorsal, and right lateral views; specimen No. MZ VIII.O/142p/3, ×70 3a-c Left MI in left lateral, dorsal, and right lateral views; specimen No. MZ VIII.O/142p/2, ×70

Mochtyella grazynae sp. n.; Ludlovian erratic boulder No. MZ/142 4a-c Holotype, right MI in left lateral, dorsal, and right lateral views; specimen No. MZ VIII.O/142p/6, × ca. 150

5a—c Left MI in right lateral, dorsal, and left lateral views; specimen No. MZ VIII.O/142p/7, ×70





1 Vistulella kozlowskii Kielan-Jaworowska; jaw apparatus; specimen No. MZ VIII.O/25p/6; SEM micrograph, \times 185 Upper Ordovician (Amorphognathus superbus Zone), erratic boulder No. MZ/25

2 Rakvereprion balticus (Eisenack); left MI along with laeobasal plate; specimen No. MZ VIII.O/25p/7; SEM micrograph, $\times 300$ Upper Ordovician (Amorphognathus superbus Zone), erratic boulder No. MZ/25

ed by Kielan-Jaworowska (1966) to two distinct species appear to fall within the range of intrapopulation variability of Mochtyella angelini sp. n.

The investigated species resembles most closely the Silurian species M. trapezoidea Kielan-Jaworowska; the most important difference is in the absence of second ridge in the latter species. The investigated species resembles also M. kielanae Szaniawski & Wrona; the differences are in the distinctness of both outer and inner margins due to the massiveness of the jaws, the smoothness of the second ridge, and the more distinctly denticulated basal ridge of M. angelini. Furthermore, both the species differ also in the outline of left and right anterior margins of MI. According to Kielan-Jaworowska (1966), M. kielanae (= M. sp. b Kielan-Jaworowska, 1966) and M. angelini represent distinct phyletic lineages; namely, cristata-group and trapezoidea-group, respectively. Then, one may claim that the morphological similarity of both the species is due to a parallel evolution.

Occurrence. - Upper Silurian erratic boulders of Poland.

Mochtyella grazynae sp. n. (Pl. 1, Figs 4-5)

Holotype: Right MI presented in Pl. 1, Fig. 4.

Type locality and horizon: Erratic boulder No. MZ/142 derived from Poddebie, province of Słupsk, Poland; Upper Silurian.

Derivation of the name: In honour of my wife, Grazyna Mierzejewska, student of the fossil Polychaeta.

Diagnosis: Both right and left MI very wide and translucent. Main ridges of both jaws almost straight. Second ridge almost straight, distinctly denticulated, 0.35 total-jaw long. Basal ridge denticulated, 0.55—0.65 total-jaw long. Laeobasal ridge unknown; as judged from the morphology of incomplete MI, it is a mirror image of basal ridge.

Denticle formula:

МП		MIr
Lacobasal ridge Main ridge	? 12—13	Basal ridge 16—20 Main ridge 13—16 Second ridge 7

Material: Apart from the type specimen, 5 isolated MII, 3 isolated MII, 4 isolated basal and/or laeobasal ridges.

Description. — Right and left MI vary in length from 0.46 up to 1.85 mm. Right MI is wide and translucent, considerably flattened dorsally. It is twice as long as wide. Its anterior margin is more or less pointed. The outer and inner margins are very irregular. The posterior margin is very broad, ragged in outline. The main ridges is almost straight and displays 13—16 denticles. The basal ridge ranges from 0.55 to 0.65 of the total-jaw length. It displays 16—20 denticles distinctly arcuate in lateral view. The second ridge occurs in the middle of the anterior half of the left slope. It attains 0.35 of the total-jaw length and displays 7 distinct denticles. In lateral view, the jaw is somewhat arcuate, fairly wide anteriorly, markedly tapering posteriorly. In ventral view, the furrow associated with the main ridge is deeper and wider than those associated with the second and basal ridges.

The type specimen (MIr) is a single pharate jaw. The secondary jaw is complete, rather weakly embedded within the primary one.

Any complete left MI is unknown. The main ridge displays 12—13 denticles decreasing in size posteriorly and slightly bent outwards. The laeobasal ridge is

unknown; however, as judged from the morphology of incomplete jaws, it is probably a mirror image of the basal ridge.

Any lateral or anterior teeth are unknown.

Remarks. — The investigated species resembles most closely H. fragilis Szaniawski; the most important differences are in its almost straight main ridges of both MI, the position of the second ridge and its more distinct denticulation, the more prominent denticulation of the basal ridge, and the wider outlines of both MI.

Incomplete MI of the investigated species are easily recognizable, since an absence of basal and laeobasal ridges results in very large false shanks (Pl. 1, Fig. 5).

Isolated basal and/or laeobasal ridges of *M. grazynae* sp. n. resemble in their general shape and arcuateness the jaws attributed to *Lunoprionella* Eisenack; however, there are no constrictions among the teeth of the invesigated basal ridges, while such constrictions are typical of the genus *Lunoprionella* (cf. Eisenack 1975). As a matter of fact, the latter genus represents undoubtedly the placognath Eunicida and it may be synonymous with an older genus of this group.

Occurrence. — Upper Silurian erratic boulders of Poland.

Genus VISTULELLA Kielan-Jaworowska, 1961 Type species: Vistulella kozlowskii Kielan-Jaworowska, 1961

Revised diagnosis: Jaw appearatus consisting of basal plate, heobasal plate, intercalary tooth, lacointercalary tooth, left MI, bipartite right MI (MIra and MIrb), and 6 pairs of denticulated anterior teeth. Basal plate strongly clongate, almost equal in length to MIra, somewhat covering it dorsally. Denticles at basal plate very long anteriorly, decreasing in size posteriorly. Myococle of basal plate with a narrow opening. Intercalary tooth in front of basal plate MIra and MIrb subrectangular; the former an order of magnitude longer than the latter. MIIr bent, clongate, situated along the inner margin of MIrb and the anterior part of inner margin of MIra. Lacobasal plate and lacointercalary tooth forming mirror images of basal plate and intercalary tooth, partly covering left MI dorsally.

Remarks. — Kielan-Jaworowska (1966) claimed that the jaws called now by the present author as MIrb and MIIr (Text-fig. 1) are to be regarded as homo logous with MIIr of other mochtyellid genera, viz. second ridge of Mochtyella and MIIr of Pistoprion. In contrast, the present author is of the opinion that the denticles at MIrb continue with those at MIra and may be jointly conceived as a mirror image of MII. Then, the denticles at MII and MIra+MIrb of Vistulella make counterparts of the main ridges of MII and MIr of Mochtyella, respectively while MIIr of Vistulella corresponds exactly to the second ridge of Mochtyella One may claim that the apparatus Vistulella developed due to a separation of ancestral second ridge from the compound jaw and its subsequent transformation into a distinct element MIIr, and a transversal splitting of the main ridge of MIr into MIra and MIrb.

Occurrence. — Ordovician to Devonian; Europe, North America.

Vistulella kozlowskii Kielan-Jaworowska, 1961 (Text-fig. 1; Pl. 2, Fig. 1)

1961. Vistulella kozlowskii n. sp.; Z. Kielan-Jaworowska, p. 243, Text-fig. 2, Pls 1—4. 1966. Vistulella kozlowskii Kielan-Jaw.; Z. Kielan-Jaworowska, p. 64, Text-fig. 5c.

1975. Vistulella kozlowskii Kielan-Jaw.; G. Mierzejewska & P. Mierzejewski, p. 99, Text-fig. 1.

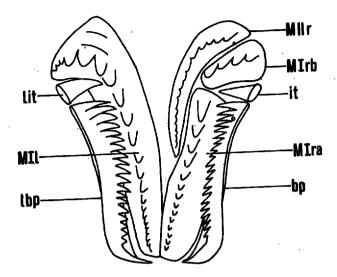


Fig. 1. Diagrammatic sketch of jaw apparatus of Vistulella kozlowskii Kielan-Jawo-rowska

bp basal plate, it intercalary tooth, ibr lacobasal ridge, it iacointercalary tooth
MII left maxilla I, Mira posterior part of right maxilla I, Mirb anterior part of right maxilla I,

MII right maxilla II

From Kielan-Jaworowska (1961); modified

Diagnosis: As for the genus.

Material: 2 apparatuses and right side of another one, numerous isolated and connected jaws.

Remarks. — The investigated specimens are entirely consistent with the description given by Kielan-Jaworowska (1961), except of the absence of a subtriangular surface in front of the anterior part of denticulated ridge at MII. The illustrated apparatus differs from the type specimen in the presence of six instead of only four anterior teeth. Thus, it is the most complete apparatus of the genus Vistulella recorded insofar.

Occurrence. — Upper Ordovician to Upper Silurian, ?Devonian; Europe, North America.

Genus RAKVEREPRION gen. n. Type species: Staurocephalites? balticus Eisenack, 1975

Derivation of the name: Rakvere, after the occurrence in the Rakvere Stage of Estonia and its equivalents; Greek prion, saw.

Diagnosis: Jaw apparatus of placognath type with symmetric posterior part consisting of right and left MI, basal and lacobasal plates. Anterior part of the apparatus unknown. MIr almost straight, slightly bent outwards in its anterior part, clongate. Basal plate clongate, compressed laterally, equal in length to MIr, adhering to its outer margin. MII and keedbasal plate forming mirror images of MIr and basal plate.

Remarks. — The type species of the genus has been tentatively assigned by Eisenack (1975) to the genus Staurocephalites Hinde, 1879. Actually, however, the latter name is nomen dubium.

The holotype of the type species of Rakvereprion gen. n. is in the form of MIr along with basal plate. The apparatus fragments investigated in the present paper make mirror images of both MIr and basal plate and hence, can be regarded as MIl along with laeobasal plate. Then, the posterior part of the apparatus can be restored and the genus can be defined.

Kielan-Jaworowska (1966) mentioned an undescribed apparatus with its MI resembling MI and MII of Xanioprion Kielan-Jaw. attached one to the other; the apparatus was assigned to Xanioprion sp. Actually, it may be congeneric with Rakvereprion. One may claim that Rakvereprion is closely related to Xanioprion, the main difference being in the wholeness of the apparatus elements in the former genus, while they are split transversally in the latter one. In fact, Rakvereprion appears intermediate between the Mochtyellidae and Xanioprionidae.

Rakvereprion balticus (Eisenack, 1975) (Pl. 2, Fig. 2)

1975. Staurocephalites? balticus n. sp.; A. Eisenack, p. 248, Text-figs 45—49. Emended diagnosis: Both MIr and MII strongly elongate, with ridges denticulated at the whole jaw or smoothening posteriorly. Anterior denticles at both MIr and MII often weakly denticulated. Basal and laeobasal plates with very long, secondarily denticulated denticles decreasing in size posteriorly.

Material: Two MII along with laeobasal plates.

Description. — Left MI is 0.3—0.4 mm long. It is strongly compressed laterally, almost straight, slightly bent outwards in its anterior part. The ridge displays a series of denticles decreasing in size posteriorly; its posterior part is indistinctly denticulated or smooth. The first denticle is very small, the next 2—3 ones are often weakly denticulated. The lateral slopes are steep. The inner and outer margins are slightly bent antero-laterally. The anterior and posterior margins are rounded.

Basal and laeobasal plates are very similar to each other. They are compressed laterally with denticles decreasing in size posteriorly. The anterior denticles are very long, claw-like, very acute. All the denticles are secondarily denticulated.

Anterior part of the jaw apparatus is unknown.

Occurrence. — Upper Ordovician: Europe.

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P. MIERZEJEWSKI

NOWE WIELOSZCZETY PLAKOGNATYCZNE Z ORDOWIKU I SYLURU POLSKI

(Streszczenie)

Na podstawie aparatów szczękowych i izolowanych szczek opisano cztery gatunki wieloszczetów plakognatycznych z rzędu Eunicida z ordowickich i sylurskich głazów narzutowych północnej Polski (patrz fig. 1 oraz pl. 1—2). Ustanowiono jeden nowy rodzaj (Rakvereprion gen. n.) i dwa nowe gatunki (Mochtyella angelini sp. n., M. grazynae sp. n.) oraz przeprowadzono homologizacje szczęk Vistulella Kielan-Jaworowska ze szczękami Mochtyella Kielan-Jaworowska.