



**A Type Catalog of Fossil Invertebrates
(Arthropoda: Chelicerata) in the Yale
Peabody Museum**

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(Received 8 May 1996)

Abstract

Type material for 60 nominal species of fossil chelicerates are in the Invertebrate Paleontology Collections of Yale University's Peabody Museum of Natural History. Primary types for 46 nominal species include 41 holotypes, and 5 syntypes (representing 3 nominal species). Secondary types for 15 nominal species include 31 paratypes. Tertiary types of 19 nominal species include 35 hypotypes. Most types are from Mazon Creek (Illinois), Warren (Pennsylvania), Elmo (Kansas) and Buffalo (New York) and have been described by C.E. Beecher, James Hall, E.N. Kjellesvig-Waering and Alexander Petrunkevitch.

Key Words

Type Catalog, Chelicerata, Yale Peabody Museum, Elmo, Mazon Creek, Warren, Buffalo, C.E. Beecher, James Hall, E.N. Kjellesvig-Waering, Alexander Petrunkevitch.

Introduction

This catalog lists all known fossil chelicerate types in the Invertebrate Paleontology Collections housed in Yale University's Peabody Museum of Natural History. This is the third in a series of type catalogs of fossil invertebrates and is a product of an ongoing computerization project to improve the accessibility of the type collections.

During the late 1800s Othniel C. Marsh acquired many fossils from the area of Mazon Creek (Grundy County), Illinois for the Yale Peabody Museum. Several of these specimens were purchased from S.S. Strong, a private collector from Morris, Illinois. Unfortunately, Strong did not provide specific localities for his collections and a survey of the O.C. Marsh correspondence in the Yale archives has not produced a more specific locality than is given in the text for these specimens.

Organization

Specimens are listed under the originally described binomen; genera and species within genera are indexed alphabetically. Each entry includes the catalog number used by the Division of Invertebrate Paleontology prefixed with the abbreviation YPM and the type status of the original designation, followed by all known references to that name. Any subsequent designations are listed under the original designation and are cross-referenced in the body of the text. Locality descriptions follow

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ISBN No. 0-91532-41-6

each entry or set of entries for each binomen. Errors and inconsistencies are footnoted at the bottom of each binomen.

The type designations used are holotype and syntype for name bearers; paratype for secondary types; hypotype is used for all tertiary types. Name bearers and secondary types are defined as used in the *International Code of Zoological Nomenclature* (1985). Tertiary types or hypotypes are treated here as any described, figured or measured specimen used in a publication to augment the knowledge of a previously defined species, or any referred specimen that can not be placed unequivocally in a known species (e.g. *Anthracoscorpio* (?) sp.).

Locality descriptions follow each entry or set of entries with identical locality data. The locality information includes the stratigraphy, geography, collector and date. Stratigraphy has been standardized using *Stratigraphic Nomenclature Databases for the United States, its Possessions and Territories* (MacLachlan et al., 1992).

Catalog of Chelicerata

Adelophthalmus mansfieldi (Hall)

HYPOTYPE YPM 18607

Kjellesvig-Waering, E.N. 1963. *Fieldiana: Geol.* v.12,n.6,p.96.[†]

Middle Pennsylvanian, Allegheny Fm, Darlington Sh Mbr. Just below Darlington coal, near Cannelton, Beaver Co., Pennsylvania, USA. Collector: Lacre, R.D.

[†]This specimen is incorrectly cited as YPM 2569 on the table on page 96.

***Alloscorpius granulosis* (Petrunkevitch)**
see *Ectonotus miniatus* Petrunkevitch and *Eoscorpius granulosis* (Petrunkevitch)

***Anthracoscorpio*(?) sp.**

see *Eoscorpius granulosis* (Petrunkevitch)

***Architarbus minor* Petrunkevitch**

HOLOTYPE YPM 189

Petrunkevitch, Alexander. 1913. *Trans. Conn. Acad. Arts Sci.* v.18,p.128,tf.81, 82,pl.13,f.81,82.

Petrunkevitch, Alexander. 1945a. *Ill. St. Mus. Sci. Pap.* v.3,n.2,p.21,tf.2.

Petrunkevitch, Alexander. 1949. *Trans. Conn. Acad. Arts Sci.* v.37,p.166.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Architarbus rotundatus* Scudder**

HYPOTYPE YPM 185

Petrunkevitch, Alexander. 1913. *Trans. Conn. Acad. Arts Sci.* v.18,p.125,tf.79,80, pl.13,f.78,79.

Petrunkevitch, Alexander. 1945a. *Ill. St. Mus. Sci. Pap.* v.3,n.2,p.20.

HYPOTYPE YPM 186, 187

Petrunkevitch, Alexander. 1913. *Trans. Conn. Acad. Arts Sci.* v.18,p.125.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

Argioidae incertae sedis

HYPOTYPE YPM 26776

Petrunkevitch, Alexander. 1942. *Trans. Conn. Acad. Arts Sci.* v.34,art.3,p.342.[†]

Tertiary, Oligocene. On Baltic coast, near village of Polangen, a few hours from Koenigsberg, East Germany.

[†]An accession number, 3602b, was incorrectly used to refer to this specimen on page 342.

***Arthrolycosa antiqua* Harger**

HOLOTYPE YPM 161

Harger, Oscar. 1874. *Am. J. Sci.* ser.3,v.7, p.219,1ff.

Scudder, S.H. 1884. *Proc. Am. Acad. Arts Sci.* s.v.20,p.15.

Beecher, C.E. 1889. *Am. J. Sci.* ser.3,v.38, art.38,p.219,tf.1-3.

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.89, tf.53, pl.8,f.44.

Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.101.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. In the lower part of the "true Coal Measures", Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

HOLOTYPE YPM 162

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.90,pl.8,f.43.

Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.101.

HOLOTYPE YPM 163

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.90,tf.54.

Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.101.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Arthrolycosa danielsi* Petrunkevitch**

HOLOTYPE YPM 164

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.91.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Daniels, L.E.

***Bellinurus danae* Meek and Worthen**

HOLOTYPE YPM 28140[†]

Meek, F.B. and A.H. Worthen. 1865. Proc. Acad. Nat. Sci. (Philadelphia) p.44.

Meek, F.B. and A.H. Worthen. 1866. Ill. Geol. Sur. v.2,sec.2,p.395,pl.32,f.2.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Near the base of the Coal Measures, on the S side of the Illinois River at Morris, Grundy Co., Illinois, USA. Collector: Bronson, J.G.

[†]Anderson (1994) declared that an "extensive literature search failed to reveal the repository of

the holotype" of *Bellinurus danae* and declared two specimens (MCZ 4673 and 4686) described by Raymond (1944) to be neotypes of this species. The holotype (YPM 28140) is present at Peabody and available for study.

***Caduceator minutus* Petrunkevitch**

HOLOTYPE YPM 26777

Petrunkevitch, Alexander. 1942. Trans. Conn. Acad. Arts Sci. v.34,art.3,p.354, pl.55,f.510-515,pl.69,f.619.[†]

Petrunkevitch, Alexander. 1958. Trans. Conn. Acad. Arts Sci. v.41,art.2,p.279.

Tertiary, Oligocene. On Baltic coast, near village of Polangen, a few hours from Koenigsberg, East Germany.

[†]An accession number, 3602-(3), is incorrectly cited on page 354 and a private number, 3, was used in the explanation for pl.55,f.5110-515 and pl.69,f.619 for this specimen.

***Calcitro fisheri* Petrunkevitch**

HOLOTYPE YPM 17380

Petrunkevitch, Alexander. 1945b. Am. J. Sci. v.243,n.6,p.320,tf.1-5,pl.1(left).

Pliocene. Travertine, along a brecciated and shattered fault zone of the Supai Fm, Bonner Quarry, in a canyon on the N side of Black Mesa, about ten miles SW of Ashfork, Yavapai Co., Arizona, USA. Collector: Fisher, J.W.

***Discotarbus deplanatus* Petrunkevitch**

HOLOTYPE YPM 174

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.120,tf.75,76, pl.12,f.70.

Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.175.

PARATYPE YPM 175

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.120.

Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.175.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Eoctonus miniatus* Petrunkevitch**

HOLOTYPE YPM 131

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.51,tf.15, pl.3,f.14.

Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.15,tf.40-43.

Kjellesvig-Waering, E.N. 1986. Paleont. Am. n.55,p.96,t.35,pl.4,f.1,2.

PARATYPE YPM 132

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.51,pl.3,f.15.

=*Alloscorpium granulosis* (Petrunkevitch). Paratype. Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.15.

=*Paraisobuthus virginiae* Kjellesvig-Waering. Holotype. Kjellesvig-Waering, E.N. 1986. Paleont. Am. n.55,p.207,tf.91.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Eolinus theryi* Petrunkevitch**

HYPOTYPE YPM 26779

Petrunkevitch, Alexander. 1942. Trans. Conn. Acad. Arts Sci. v.34,art.3,p.428, pl.49,f.456-460.

Petrunkevitch, Alexander. 1958. Trans. Conn. Acad. Arts Sci. v.41,art.2,p.337.

HYPOTYPE YPM 26780

Petrunkevitch, Alexander. 1942. Trans. Conn. Acad. Arts Sci. v.34,art.3,p.428, pl.6,f.52,pl.57,f.528.

Petrunkevitch, Alexander. 1958. Trans. Conn. Acad. Arts Sci. v.41,art.2,p.337.

Oligocene. On Baltic coast, near village of Polangen, Germany.

***Eoscorpium carbonarius* (Meek and Worthen)**

see *Eoscorpium granulosis* (Petrunkevitch)

***Eoscorpium danielsi* Petrunkevitch**

HOLOTYPE YPM 138†

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.43.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Daniels, L.E.

†This specimen is only represented by a cast; the whereabouts of the actual specimen is unknown.

***Eoscorpium granulosis* Petrunkevitch**

HOLOTYPE YPM 128

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.45,tf.9, pl.2,f.10.

=*Alloscorpium granulosis* (Petrunkevitch). Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.153.

=*Alloscorpium granulosis* (Petrunkevitch). Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.29.

=*Eoscorpium carbonarius* (Meek and Worthen). Hypotype. Kjellesvig-Waering, E.N. 1986. Paleont. Am. n.55,p.163,tf.71A.

PARATYPE YPM 130

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.45.

=*Alloscorpium granulosis* (Petrunkevitch). Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.153.

=*Alloscorpium granulosis* (Petrunkevitch). Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.29.

=*Palaeobuthus distinctus* Petrunkevitch. Hypotype. Kjellesvig-Waering, E.N. 1986. Paleont. Am. n.55,p.135,tf.57.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

PARATYPE YPM 129

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.45,pl.3,f.11,12.

=*Alloscorpium granulosis* (Petrunkevitch). Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.153.

=*Alloscorpium granulosus* (Petrunkevitch).
Petrunkevitch, Alexander. 1953. Mem.
Geol. Soc. Am. n.53,p.29.

=*Telmatoscorpium brevipecten* Kjellesvig-
Waering. Holotype. Kjellesvig-Waering,
E.N. 1986. Paleont. Am. n.55,p.210,tf.93.

Middle Pennsylvanian, Desmoinesian,
Carbondale Fm, Francis Creek Sh Mbr. Mazon
Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

***Eoscorpium typicus* Petrunkevitch**

PARATYPE YPM 126

Petrunkevitch, Alexander. 1913. Trans.
Conn. Acad. Arts Sci. v.18,p.39,pl.1,f.1.

Petrunkevitch, Alexander. 1949. Trans.
Conn. Acad. Arts Sci. v.37,p.152.

Petrunkevitch, Alexander. 1953. Mem.
Geol. Soc. Am. n.53,p.27.

=*Anthracoscorpium* (?) sp. Hypotype.
Kjellesvig-Waering, E.N. 1986. Paleont. Am.
n.55,p.109,tf.44.

PARATYPE YPM 127

Petrunkevitch, Alexander. 1913. Trans.
Conn. Acad. Arts Sci. v.18,p.39.

Petrunkevitch, Alexander. 1949. Trans.
Conn. Acad. Arts Sci. v.37,p.152.

Petrunkevitch, Alexander. 1953. Mem.
Geol. Soc. Am. n.53,p.27.

=*Palaebuthus distinctus* Petrunkevitch.
Hypotype. Kjellesvig-Waering, E.N. 1986.
Paleont. Am. n.55,p.135,tf.56.

Middle Pennsylvanian, Desmoinesian,
Carbondale Fm, Francis Creek Sh Mbr. Mazon
Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

***Euproops danae* (Meek and Worthen)**

HYPOTYPE YPM 16909, 16910

Raymond,P.E. 1944. Bull. Mus. Comp.
Zool. (Harvard Univ.). v.94,n.10,p.484.

HYPOTYPE YPM 25590

Kobayashi, Teiichi. 1933. Japanese J. Geol.
Geog. v.10,n.3-4,p.181,pl.16,f.3.

HYPOTYPE YPM 28514

Fisher, D.C. 1979. Mazon Creek Fossils.
Academic Press: New York p.415,f.4c,4d.

Middle Pennsylvanian, Desmoinesian,
Carbondale Fm, Francis Creek Sh Mbr. Mazon
Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

***Euproops laevicula* Raymond**

HOLOTYPE YPM 16912

Raymond,P.E. 1944. Bull. Mus. Comp.
Zool. (Harvard Univ.). v.94,n.10,p.490,tf.13.

PARATYPE YPM 16916

Raymond,P.E. 1944. Bull. Mus. Comp.
Zool. (Harvard Univ.). v.94,n.10,p.490.

Middle Pennsylvanian, Desmoinesian,
Carbondale Fm, Francis Creek Sh Mbr. Mazon
Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

***Eurypterus beecheri* Hall**

HOLOTYPE YPM 24347

Hall, James. 1884. Penn. 2nd. Geol. Surv.
Rpt. Prog. PPP p.30,pl.3,f.1.

Hall, James and J.M. Clarke. 1888.
Paleontology of New York.
v.7,p.156,pl.27,f.5.

Clarke, J.M. and Rudolph Ruedemann.
1912. Mem. New York St. Mus. n.14,v.1-
2,p.310,tf.67.

=*Stylonurus beecheri* (Hall). Beecher, C.E.
1900. Am. J. Sci. ser.4,v.10,p.146.

=*Stylonurus beecheri* (Hall). Ruedemann,
Rudolf. 1939. Wagner Free Inst. Sci. card 5.†

Late Devonian, Chemung Grp. Sandstone [of
Chemung Grp] at Warren, Warren Co., Pennsyl-
vania, USA. Collector: Beecher, C.E., 1870.

†Ruedemann (1939) cites on card 5 that this
specimen is missing but it has been subsequently
found.

***Eurypterus mansfieldi* Hall**

SYNTYPE YPM 18606

Hall, James. 1884. Penn. 2nd. Geol. Surv.
Rpt. Prog. PPP. p.32,pl.5,f.1.

Alleghany River series, shale immediately below the Darlington Cannel Coal, near Cannelton, Darlington Township, Beaver Co., Pennsylvania, USA.

***Eurypterus remipes lacustris* Harlan**

HYPOTYPE YPM 18612

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1128,tbl.(p.1129).† ††

=*Eurypterus remipes remipes* DeKay.

Hypotype. Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1132,tf.18,19, tbl.(p.1133),pl.145,f.3.† ††† ††††

Late Silurian, Salina Grp, Bertie Ls, Williamsville Dolostone Mbr. Near Buffalo, Erie Co., New York, USA.

††It has been determined that this is one specimen. Kjellesvig-Waering attributes the part and counterpart of this single specimen to two different subspecies, *Eurypterus remipes remipes* DeKay and *Eurypterus remipes lacustris* Harlan.

††An accession number, 915, was used incorrectly to refer to this specimen in the table on page 1129.

†††The YPM specimen number 9003 was used incorrectly to refer to this specimen on page 1132 and pl.145,f.3, and 9003C was used to refer to this specimen on the table on page 1133.

††††The locality for this specimen was erroneously reported as "...from the Fiddler's Green formation at Jerusalem Hill, Litchfield, Herkimer County, New York."

***Eurypterus remipes remipes* DeKay**

HYPOTYPE YPM 33547

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1132,pl.143,f.1.†

Late Silurian, Salina Grp, Bertie Ls, Williamsville Dol Mbr. Buffalo Park, 4 or 5 mi N of Buffalo. Erie Co., New York, USA. Collector: Fairchild, J.L.

HYPOTYPE YPM 33548†

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1132,pl.143,f.2,pl.144,f.1.

Late Silurian, Bertie Ls, Williamsville Dol Mbr?. probably Buffalo, Erie Co., New York, USA.

HYPOTYPE YPM 33553

Hall, James. 1859. Paleontology of New York. v.3,pt.1-2,p.404,pl.80,f.3.††

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1132.

HYPOTYPE YPM 26326, 26327

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1132.

HYPOTYPE YPM 26328

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1132.†††

Late Silurian, Salina Grp, Bertie Ls, Fiddlers Green Dol Mbr. upper (Phelps) beds of Fiddlers Green, Jerusalem Hill, Litchfield. Herkimer Co. New York, USA.

HYPOTYPE YPM 33550

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1132.††††

Late Silurian, Bertie Ls, Williamsville Dol Mbr?. Probably Buffalo, Erie Co., New York, USA.

††These specimens (YPM 33547 and 33548) have the locality incorrectly cited as Jerusalem Hill (New York) and as YPM 9003A and 9003B.

††YPM 33553 is the counterpart of a specimen in the New York State Museum (NYSM 13144) that is illustrated on pl.80,f.3.

†††YPM 26328 is incorrectly cited as YPM 9009 on p.1132.

††††Kjellesvig-Waering's (1958) measurements for YPM 33550 are from a latex cast and therefore, are inaccurate.

see *Eurypterus remipes lacustris* Harlan

***Eurypterus tetragonophthalmus* Fischer**

HYPOTYPE YPM 9002

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1137.

HYPOTYPE YPM 33551, 33552

Kjellesvig-Waering, E.N. 1958. J. Paleont. v.32,n.6,p.1136.

Late Silurian. Livonia, Soviet Union.

***Eurypterus (Anthroconectes) sellardsi* Dunbar**

SYNTYPE YPM 25701

Dunbar, C.O. 1924. Am. J. Sci. ser.5,v.7, n.39,p.200,pl.2,f.C.

=*Lepidoderma sellards* (Dunbar). Kjellesvig-Waering, E.N. 1948. Ill. St. Mus. Sci. Pap. v.3,n.4,p.38.

SYNTYPE YPM 25702

Dunbar, C.O. 1924. Am. J. Sci. ser.5,v.7, n.39,p.200,pl.2,f.D.

=*Lepidoderma sellardsi* (Dunbar). Kjellesvig-Waering, E.N. 1948. Ill. St. Mus. Sci. Pap. v.3,n.4,p.38.

Early Permian, Sumner Grp, Wellington Fm. top of Zone A of the "Insect Hill" section, middle Wellington Fm, 3 mi S and .7 mi E of cross roads at SE corner of Elmo, sec21 and sec28,T16S, R02E. Dickinson Co. Kansas. USA. Collector: Dunbar, C.O., 1921.

***Flegia succini* Petrunkevitch**

HOLOTYPE YPM 26723

Petrunkevitch, Alexander. 1942. Trans. Conn. Acad. Arts Sci. v.34,art.3,p.269, pl.52,f.484-492,pl.69,f.624.[†]

Petrunkevitch, Alexander. 1958. Trans. Conn. Acad. Arts Sci. v.41,art.2,p.154.

Tertiary, Oligocene. On Baltic coast, near village of Polangen, a few hours from Koenigsberg, Germany.

[†]A private number,1, was used on pl.52,f.484-492 for this specimen.

***Geralinura gigantea* Petrunkevitch**

PARATYPE YPM 147

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.65,tf.25,26, pl.5,f.25.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Geratarbus minutus* Petrunkevitch**

PARATYPE YPM 178

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.119.

Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.172.

HOLOTYPE YPM 176

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.119,tf.73,74, pl.11,f.69.

=*Orthotarbus minutus* (Petrunkevitch). Petrunkevitch, Alexander. 1945a. Ill. St. Mus. Sci. Pap. v.3,n.2,p.27,tf.7,8.

=*Orthotarbus minutus* (Petrunkevitch). Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.172.

PARATYPE YPM 177

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.119.

=*Orthotarbus minutus* (Petrunkevitch). Petrunkevitch, Alexander. 1945a. Ill. St. Mus. Sci. Pap. v.3,n.2,p.29.

=*Orthotarbus minutus* (Petrunkevitch). Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.172.

PARATYPE YPM 179 - 181

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.119.

=*Orthotarbus minutus* (Petrunkevitch). Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.172.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Heterotarbus ovatus* Petrunkevitch**

HOLOTYPE YPM 172

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.115.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Daniels, L.E.

***Kasibelinurus randalli* (Beecher)**

See *Prestwichia randalli* Beecher.

***Kustarachne conica* Petrunkevitch**

HOLOTYPE YPM 153

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.72.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon

Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

***Lepidoderma sellardsi* (Dunbar)**

see *Eurypterus (Anthraconectes) sellardsi*
Dunbar

***Liomesaspis laevis* Raymond**

PARATYPE YPM 16913

Raymond, P.E. 1944. Bull. Mus. Comp.
Zool. (Harvard Univ.). v.94,n.10,p.499,tf.8.

PARATYPE YPM 16914

Raymond, P.E. 1944. Bull. Mus. Comp.
Zool. (Harvard Univ.). v.94,n.10,p.499.

PARATYPE YPM 16915

Raymond, P.E. 1944. Bull. Mus. Comp.
Zool. (Harvard Univ.). v.94,n.10,p.499,tf.10.

Middle Pennsylvanian, Desmoinesian,
Carbondale Fm, Francis Creek Sh Mbr. Mazon
Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

***Metatarbus triangularis* Petrunkevitch**

HOLOTYPE YPM 182

Petrunkevitch, Alexander. 1913. Trans.
Conn. Acad. Arts Sci. v.18,p.122,tf.77,78,
pl.11,f.66,67.

Petrunkevitch, Alexander. 1945a. Ill. St.
Mus. Sci. Pap. v.3,n.2,p.24,tf.3,4.

Petrunkevitch, Alexander. 1949. Trans.
Conn. Acad. Arts Sci. v.37,p.175.

Middle Pennsylvanian, Desmoinesian,
Carbondale Fm, Francis Creek Sh Mbr. Mazon
Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

***Orthotarbus minutus* (Petrunkevitch)**

HYPOTYPE YPM 595

Petrunkevitch, Alexander. 1945a. Ill. St.
Mus. Sci. Pap. v.3,n.2,p.29.

Petrunkevitch, Alexander. 1949. Trans.
Conn. Acad. Arts Sci. v.37,p.176.

Middle Pennsylvanian, Desmoinesian,
Carbondale Fm, Francis Creek Sh Mbr. Mazon
Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

see *Geratarbus minutus* Petrunkevitch

***Palaeobuthus distinctus* Petrunkevitch**

HOLOTYPE YPM 133

Petrunkevitch, Alexander. 1913. Trans.
Conn. Acad. Arts Sci. v.18,p.53,tf.16,
pl.1,f.5.

Petrunkevitch, Alexander. 1953. Mem.
Geol. Soc. Am. n.53,p.22.

Kjellesvig-Waering, E.N. 1986. Paleont. Am.
n.55,p.135,tf.55.

Middle Pennsylvanian, Desmoinesian,
Carbondale Fm, Francis Creek Sh Mbr. Mazon
Creek, Grundy Co., Illinois, USA. Collector:
Strong, S.S.

see *Eoscorpis granulosis* (Petrunkevitch)
and *Eoscorpis typicus* Petrunkevitch

***Paleolimulus avitus* Dunbar**

PARATYPE YPM 26317

Dunbar, C.O. 1923. Am. J. Sci. ser.5,v.5,
n.30,p.444,tf.7.

HOLOTYPE YPM 26324

Dunbar, C.O. 1923. Am. J. Sci. ser.5,v.5,
n.30,p.444,tf.2,4,5,6.

Raymond, P.E. 1944. Bull. Mus. Comp.
Zool. (Harvard Univ.). v.94,n.10,p.505.

Caster, K.E. 1938. J. Paleont. v.12,n.2,p.40.

PARATYPE YPM 26325

Dunbar, C.O. 1923. Am. J. Sci. ser.5,v.5,
n.30,p.444.

Early Permian, Sumner Grp, Wellington Fm. 4
inch dense blue ls bed, top of Zone A (Dunbar,
1924,AJS) of the "Insect Hill" section, middle
Wellington, 3 mi S and .7 mi E of crossroads at
SE cor. of Elmo, SE1/4SW1/4SE1/4sec21,
T16S,R02E, Dickinson Co., Kansas, USA.
Collector: Dunbar, C.O., 1921.

***Palaeopisthacanthus schucherti*
Petrunkevitch**

HOLOTYPE YPM 140

Petrunkevitch, Alexander. 1913. Trans.
Conn. Acad. Arts Sci. v.18,p.48,tf.11,12,
pl.2,f.8,9.

Petrunkevitch, Alexander. 1949. Trans.
Conn. Acad. Arts Sci. v.37,p.154.

Petrunkévitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.33.

Vogel, B.R. and C.J. Durden. 1966. J. Paleont. p.655,tf.1,2,pl.81,f.1-3.

Kjellesvig-Waering, E.N. 1986. Paleont. Am. n.55,p.232,tf.103,104.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Paleolimulus? randalli* (Beecher)**

see *Prestwichia randalli* Beecher

***Paleolimulus signata* (Beecher)**

see *Prestwichia signata* Beecher

***Paraisobothus virginiae* Kjellesvig-Waering**

see *Ectonotus miniatus* Petrunkevitch

***Paramphibius avitus* (Dunbar)**

see *Paleolimulus avitus* Dunbar

***Polyochera punctuata* Scudder**

HYPOTYPE YPM 158[†]

Petrunkévitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.78.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Daniels, L.E.

[†]This specimen is only represented by a cast; the whereabouts of the actual specimen is unknown.

***Prestwichia randalli* Beecher**

HOLOTYPE YPM 9010

Beecher, C.E. 1902. Am. Geol. v.29,n.3, p.144,tf.1.

=*Paleolimulus? randalli* (Beecher). Dunbar, C.O. 1923. Am. J. Sci. ser.5,v.5,n.30, p.444,tf.7.

=*Paleolimulus? randalli* (Beecher). Caster, K.E. 1938. J. Paleont. v.12,n.2,p.40.

=*Paleolimulus? randalli* (Beecher). Ruedemann, Rudolf. 1939. Wagner Free Inst. Sci. card 14.

=*Kasibalinurus randalli* (Beecher). Babcock, L.E., M.D. Wegweiser, A.D. Wegweiser,

T.M. Stanely and S.C. McKenzie. 1995. Penn. Geol. v.26,n.2,p.5,tf.1A.

PARATYPE YPM 30655, 30656

Beecher, C.E. 1902. Am. Geol. v.29,n.3, p.144.

=*Paleolimulus? randalli*. (Beecher).

Ruedemann, Rudolf. 1939. Wagner Free Inst. Sci. card14.

=*Kasibalinurus randalli* (Beecher). Babcock, L.E., M.D. Wegweiser, A.D. Wegweiser, T.M. Stanely and S.C. McKenzie. 1995. Penn. Geol. v.26,n.2,p.5,tf.1B.

Late Devonian, Chemung Grp. Ackley Station, Warren, Warren Co., Pennsylvania, USA. Collector: Randall, F.A.

***Prestwichia signata* Beecher**

HOLOTYPE YPM 26319[†]

Beecher, C.E. 1904. Am. J. Sci. ser.4,v.18, p.24,tf.1.

=*Paleolimulus signatus* (Beecher). Dunbar, C.O. 1923. Am. J. Sci. ser.5,v.5,n.30, p.450,tf.8.

Early Permian, Chase Grp, Fort Riley Ls. 3 mi W of Stockdale. Riley Co. Kansas. USA.

[†]This specimen is only represented by a cast; the whereabouts of the actual specimen is unknown.

***Pringlia bispinosa* Raymond**

HOLOTYPE YPM 16911

Raymond, P.E. 1944. Bull. Mus. Comp. Zool. (Harvard Univ.). v.94,n.10,p.503,tf.11.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Protophrynus carbonarius* Petrunkevitch**

HOLOTYPE YPM 151

Petrunkévitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.69.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Daniels, L.E.

***Protopilio longipes* Petrunkevitch**

HOLOTYPE YPM 171

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.110,tf.68, pl.10,f.57.

=*Nemastomoides longipes* (Petrunkevitch).

Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.46.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Protosolpuga carbonaria* Petrunkevitch**

HOLOTYPE YPM 155

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.74,tf.40, pl.6,f.32.

Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.292.

Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.112.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

***Steatoda succini* Petrunkevitch**

HYPOTYPE YPM 26725

Petrunkevitch, Alexander. 1942. Trans. Conn. Acad. Arts Sci. v.34,art.3,p.280, pl.53,f.499-502,pl.54,f.503.[†]

Tertiary, Oligocene. On Baltic coast, near village of Polangen, a few hours from Koenigsberg, Germany.

[†]An accession number, 3602, was used incorrectly on page 280 and pl.53,f.499-502 and pl.54,f.503.

***Strabops thacheri* Beecher**

HOLOTYPE YPM 9001

Beecher, C.E. 1901. Am. J. Sci. ser.4,v.12, p.365,pl.7.

Clarke, J.M. and Rudolph Ruedemann. 1912. Mem. New York St. Mus. n.14,v.1-2,p.152,tf.31,pl.1,pl.4,f.5,pl.13,f.2.

Schuchert, Charles. 1916. Proc. Nat. Acad. Sci. v.2,p.728.

Raasch, G.O. 1939. Spec. Pap. Geol. Soc. Am. n.19,p.145,pl.20,f.2,3.

Cambrian, Arbuckle Grp, Potosi Dolostone. Lower members of Potosi Dolostone, Flat River, Saint Francois Co., Missouri, USA. Collector: Thacher, A.

***Stylonurus beecheri* (Hall)**

see *Eurypterus beecheri* Hall.

***Telmatoscorpio brevipecten* Kjellesvig-Waering**

see *Eoscorpis granulatus* (Petrunkevitch).

***Telyphrynus elongatus* Petrunkevitch**

HOLOTYPE YPM 148

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.66.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Daniels, L.E.

***Tethneus twenhofeli* Petrunkevitch**

HOLOTYPE YPM 25588

Petrunkevitch, Alexander. 1922. Trans. Conn. Acad. Arts Sci. v.25,art.3,p.265,tf.31.

Oligocene, Florissant Lake Beds. Colorado. USA.

***Trigonomartus pustulatus* (Scudder)**

HYPOTYPE YPM 168

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.103,tf.62, pl.9,f.51.

Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.256.

Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.90.

HYPOTYPE YPM 167[†]

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.103.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Daniels, L.E.

[†]This specimen is only represented by a cast; the whereabouts of the actual specimen is unknown.

Trigonoscorpio americanus

Petrunkevitch

HOLOTYPE YPM 139

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.47.

Eoscorpium carbonarius Meek and Worthen. Hypotype. Kjellesvig-Waering, E.N. 1986. Paleont. Am. n.55,p.163,tf.74.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Daniels, L.E.

***Trigonotarbus schucherti* Petrunkevitch**

HOLOTYPE YPM 169

Petrunkevitch, Alexander. 1913. Trans. Conn. Acad. Arts Sci. v.18,p.106,tf.63,64, pl.10,f.53,54.

Petrunkevitch, Alexander. 1949. Trans. Conn. Acad. Arts Sci. v.37,p.256.

Petrunkevitch, Alexander. 1953. Mem. Geol. Soc. Am. n.53,p.94.

Middle Pennsylvanian, Desmoinesian, Carbondale Fm, Francis Creek Sh Mbr. Mazon Creek, Grundy Co., Illinois, USA. Collector: Strong, S.S.

Acknowledgements

Loren Babcock and Paul Selden reviewed this manuscript. Many thanks to Brent Horstman for editing and formatting this catalog.

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