

Janusz SAWONIEWICZ

Revision of some type-specimens of European
Ichneumonidae (Hymenoptera), 3

[With 2 Text-figures]

Abstract. The paper concerns 17 species of the *Ichneumonidae*, subfamily *Phygadeuontinae*. Based on several collections, the descriptive types of 41 species-group forms described by 18 authors have been investigated, 8 lectotypes selected, 24 new synonyms and 6 new combinations proposed. A key to the European short-winged females and their males of the genus *Pleolophus* TOWNES is provided.

This paper contains a revision of some recovered types described by W. AERTS, Th. DESVIGNES, J. B. BRIDGMAN, A. FOERSTER, J. F. GMELIN, J. L. C. GRAVENHORST, H. HABERMEHL, Z. V. KISS, J. KRIECHBAUMER, B. LANGE, E. OZOLS, P. ROSSI, O. SCHMIEDEKNECHT, C. G. THOMSON, G. SZÉPLIGETI, E. L. TASCHENBERG, A. ULBRICHT, J. W. ZETTERSTEDT.

The materials used in this paper were borrowed from several institutions listed below:

- CM — Castel Museum, Norwich, England,
- IOR — Instytut Ochrony Roślin, Poznań, Poland,
- IPSF — Institut für Pflanzenschutzforschung, Eberswalde-Finow, German Democratic Republic,
- MN — Museum für Naturkunde der Humboldt-Universität, Berlin, German Democratic Republic,
- NMS — Natur-Museum und Forschungs-Institut, Senckenberg, Frankfurt/M., Federal Republic Germany,
- SMH — Staatliche Museen Heidecksburg, Rudolstadt, German Democratic Republic,
- TMA — Természettudományi Múzeum Állattára, Budapest, Hungary,
- UH — Martin-Luther-Universität, Halle, German Democratic Republic,
- UW — Uniwersytet Wrocławski, Muzeum Przyrodnicze, Wrocław, Poland,
- ZF — Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Federal Republic Germany,
- ZIL — Zoological Institute, Lunds Universitet, Sweden.
- ZSBS — Zoologische Sammlung des Bayerischen Staates, München, Federal Republic Germany.

Megacara vagans (GRAVENHORST, 1829)

Cryptus (Phygadeuon) vagans GRAVENHORST, 1829: 738. — Lectotype (♀) by designation of AUBERT (1968: 181): "f", Coll. GRAVENHORST, Wrocław (UW).

Acanthocryptus nigriceps THOMS. var. *novus* KISS, 1930: 115. **Syn. nov.** — Lectotype (♂) by designation of SAWONIEWICZ (1984: 317): "Szilágycseh Dr Z. KISS", Coll. TMA, Budapest.

Phygadeuon novus: SAWONIEWICZ 1984: 317.

The above synonym is based on the revision of *Megacara* TOWNES by TOWNES (1983: 186–189) who gave redescriptions of the both sexes.

Rhembobius bifrons (GMELIN in LINNAEUS, 1790), **comb. nov.**

Ichneumon bifrons GMELIN in LINNAEUS, 1790: 2718. Type lost.

Cryptus (Phygadeuon) bifrons: GRAVENHORST 1829: 698.

Phygadeuon (Microcryptus) rufoniger BRIDGMAN, 1889: 415. **Syn. HORSTMANN** (1972: 223). — Lectotype (♀) by designation of HORSTMANN (1972: 223): "Ashdown Forest 10.11.85", from the underside: "J. R. BILLUPS", Coll. BRIDGMAN, Norwich (CM).

Microcryptus minimus LANGE, 1911: 541. **Syn. OEHLKE, HORSTMANN.** — Holotype (♂) det. HORSTMANN: "Javornik 1423 m. Croatia MEUSEL 15.6.10.", Coll. IPSF, Eberswalde.

Rhembobius quadrispinus (GRAVENHORST, 1829)

Cryptus (Phygadeuon) quadrispinus GRAVENHORST, 1829: 674. — Neotype (♂) by designation of FRILLI (1974: 109): "m", Coll. GRAVENHORST, Wrocław (UW). Lectotype (♀) lost.

Rhyssolabus albicoxis KISS, 1915: 24. **Syn. nov.** — Lectotype (♂) here designated: "Betlen Dr KISS", "*Rhyssolabus leucocoxalis* [sic!] KISS det. Zilahi KISS"; — paralectotype (1 ♂) as above. Coll. TMA, Budapest. The holotype and lectotype in Budapest are labelled as *Rh. leucocoxalis* KISS. KISS has never published such a name, and the both specimens perfectly agree with the description of *Rh. albicoxis* KISS.

KISS (1924: 45) synonymized *Rh. albicoxis* KISS with *Acanthocryptus quadrispinus* F. [sic!].

Cubocephalus femoralis (THOMSON, 1873)

Cratocryptus femoralis THOMSON, 1873: 527. — Lectotype (♂) here designated: "Skb" [= Skabersjö], "*femoralis*". Syntypes (1 ♂ and 1 ♀) det. FITTON (1982: 24). Lectotype in Coll. THOMSON, Lund (ZIL).

Cratocryptus Kriegeri HABERMEHL, 1911: 605. **Syn. ROMAN** (1912: 267). — Lectotype (♀) here designated: "Rostock, M. 24.7.97, KRIEGER l.", "*Cratocryptus Kriegeri* HABERM. ♀", Coll. MN, Berlin.

Oresbius bipunctatus (SCHMIEDEKNECHT, 1932)

Microcryptus bipunctatus SCHMIEDEKNECHT, 1932: 80. — Holotype (♀) det. SAWONIEWICZ (1984: 318): "Blankenburg in Thüringen", "*Microcryptus* ♀ n.sp.", Coll. MN, Berlin.

Microcryptus leucocerus AERTS, 1953: 10. **Syn. nov.** — Holotype (♀) det. HORSTMANN: "Köln ... 21.7.47 AERTS", "*Microcryptus* ♀ det. HEDWIG", "*Microcryptus leucocerus* ♀ AERTS", Coll. AERTS, Bonn (ZF).

The holotype of *M. leucocerus* AERTS is a teratological specimen with feebly granulate frons and posterior part of tergites; antennae reddish-yellow, without white band.

Host: *Pristiphora abietina* (CHRIST.).

Oresbius leucopsis (GRAVENHORST, 1829)

Cryptus leucopsis GRAVENHORST, 1829: 467. — Lectotype (♂) by designation of TOWNES (TOWNES, MOMOI, TOWNES 1965: 156): without label, Coll. GRAVENHORST, Wrocław (UW).

Cryptus (Phygadeuon) nyctemerus GRAVENHORST, 1829: 647. **Syn. FRILLI** (1974: 173). — Lectotype (♂) by designation of FRILLI (1974: 173): without label, Coll. GRAVENHORST, Wrocław (UW).

Mesocryptus nigriventris THOMSON, 1896: 2384. **Syn. nov.** — Holotype (♀): "Hall.", "*nigriventris*", Coll. THOMSON, Lund (ZIL). AUBERT (1966: 129) erroneously labelled the ♀ as: "Lectotypus *Aptesis (Microcryptus) nigriventris* THS. ♀ J. F. AUBERT 1961" (vide: FITTON 1982: 54).

Oresbius leucopsis: FRILLI 1974: 173.

Oresbius nyctemerus: FRILLI 1974: 171, redescription of ♂. TOWNES, MOMOI, TOWNES (1965: 156) incorrectly placed this species in the genus *Cuboccephalus* RATZ.

Host: *Dineura virididorsata* (RETZ.).

Oresbius nivalis (ZETTERSTEDT, 1838)

Cryptus nivalis ZETTERSTEDT, 1838: 369. — Holotype (♂) det. HORSTMANN (1968: 311): "*C. nivalis* ♂ im jugo alp.", Coll. ZETTERSTEDT, Lund (ZIL).

Cryptus opacus TASCHENBERG, 1865: 88. **Syn. nov.** — Holotype (♂) det. OEHLKE (SAWONIEWICZ 1984: 319): "17/5", Coll. TASCHENBERG, Halle (UH).

Microcryptus borealis THOMSON, 1883: 862. **Syn. ROMAN** (1925: 5). — Lectotype (♀): "Lpl." [= Lappland], "*basalis*"; — paralectotype (1 ♂): "Lpl.". Lectotype and paralectotype here designated. The syntypes det. FITTON (1982: 61). Coll. THOMSON, Lund (ZIL).

Oresbius nivalis: JUSSILA 1973: 16.

Giraudia grisescens (GRAVENHORST, 1829)

Cryptus grisescens GRAVENHORST, 1829: 464. — Lectotype (♂) and paralectotypes (3 ♂♂) here designated: without labels, Coll. GRAVENHORST, Wrocław (UW).

Plectrocryptus scansor THOMSON, 1890: 1532. Syn. MORLEY (1907: 9). — Holotype (♀) det. FITTON (1982: 77): "Gbg" [= Göteborg], Coll. THOMSON, Lund (ZIL).

Plectrocryptus scansor THOMS. var. *nigritarsis* ULBRICHT, 1910: 5. **Syn. nov.** — Lectotype (♂) here designated: "Krefeld 10. Hülserbr. ULBRICHT", "76", "Typus", Coll. TMA, Budapest.

Pleolophus larvatus (GRAVENHORST, 1829)

Cryptus (Phygadeuon) larvatus GRAVENHORST, 1829: 662. — Holotype (♂) lost (FRILLI 1974: 175).

Microcryptus alutaceus THOMSON, 1883: 863. **Syn. nov.** — Lectotype (♂) here designated: "Norl." [= Norrland], "*Microcryptus alutaceus* THS. 1883, Syntype ♂ det. M.G. FITTON 1978", Coll. THOMSON, Lund (ZIL); second syntype (♂) (ZIL): "Norl." belong to *Pleolophus ?sericans* (GRAV.). The specimen published by AUBERT (1972: 148) as lectotype has no type status (vide: FITTON 1982: 60).

Microcryptus curtulus KRIECHBAUMER var. *polystictus* KRIECHBAUMER, 1891: 171. **Syn. nov.** — Holotype (♂) det. SAWONIEWICZ (1984: 321): "90/602", "... var. *polysticta* m.", Coll. KRIECHBAUMER, München (ZSBS).

Microcryptus discedens SCHMIEDEKNECHT, 1905: 648. **Syn. nov.** — Holotype (♀) det. OEHLKE (OEHLKE, TOWNES 1969: 398): "*Microcryptus discetens* [sic!] ♀ SCHMIEDEK.", Coll. SCHMIEDEKNECHT, Rudolstadt (SMH).

Pleolophus larvatus: OEHLKE 1966: 831–832, redescription ♀♂.

ROMAN (1925: 5) erroneously synonymized *M. discedens* SCHMIEDEKN. with *Pleolophus sericans* (GRAV.).

Host: *Gilpinia frutetorum* (FABR.).

Pleolophus micropterus (GRAVENHORST, 1815), **bona species**

Ichneumon micropterus GRAVENHORST, 1815: 26. In Coll. GRAVENHORST (UW) type absent. According to original description.

Aptesis formosa FOERSTER, 1850: 84. **Syn. nov.** Type? According to original description.

I. micropterus GRAV. and *A. formosa* FOERST. have been considered as variations of *Pleolophus brachypterus* (GRAV.). *I. micropterus* GRAV. was erroneously synonymized with *P. brachypterus* (GRAV.) by AUBERT (1971: 34).

Pleolophus brachypterus (GRAVENHORST, 1815)

Ichneumon brachypterus GRAVENHORST, 1815: 29. — Lectotype (♀) and paralectotype (1 ♀) here designated: without labels. Locus typicus: Cieplice (= Warmbrunn), Poland. Coll. GRAVENHORST, Wrocław (UW).

Remarks. The original description of *I. brachypterus* GRAV. contains only

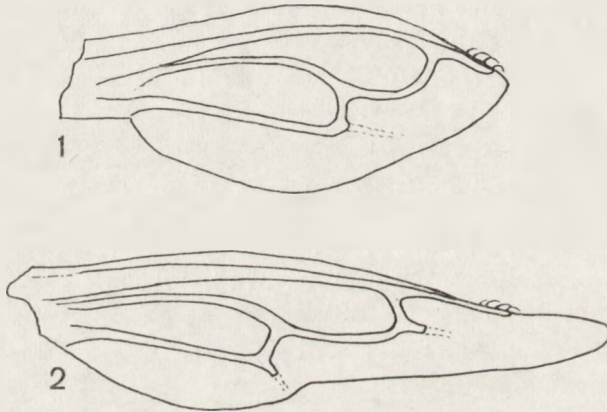
- descriptions of three variants (var. 1, 2 and 3) each based on a single female. I consider them as syntypes because he did not describe the proper form but only variants. There are only two females under *I. brachypterus* in Coll. GRAVENHORST. Both glued on mica squares (from Cieplice, leg. MANGER) and they represent var. 2 and 3. There is no specimen of var. 1 in the collection. I designate ♀ var. 3 as lectotype, and as paralectotype — ♀ var. 2 (damaged head and abdomen from tergite II lost). Based on both above females and the description of var. 1 I consider them a single species.
- Aptesis assimilis* FOERSTER, 1850: 88. **Syn. nov.** — Holotype (♀) det. DILLER: "JC4M7", "*Aptesis assimilis* FRST.", Coll. FOERSTER, München (ZSBS).
- Microcryptus curtulus* KRIECHBAUMER, 1891: 171. **Syn. nov.** — Lectotype (♂) by designation of AUBERT (1974: 267): "86/176", "*Microcryptus curtulus* ♂ m.", Coll. KRIECHBAUMER, München (ZSBS).
- Hemichneumon hungaricus* KISS, 1924: 47. **Syn. nov.** — Holotype (♂, KISS published as ♀) det. DILLER (1983: 56): "Borosjenő Diószeghy", "Typus", "*Hemichneumon ... hungaricus* KISS ...", Coll. TMA, Budapest.
- Habrocryptus antennalis* KISS, 1924: 55. **Syn. nov.** — Holotype (♂) det. SAWONIEWICZ (1984: 321): "Borosjenő VII 17", Coll. TMA, Budapest.
- A. assimilis* FOERST. has been considered as a variation of *P. brachypterus* (GRAV.). *M. curtulus* KRIECHB. has been reported as a valid species in *Pleolophus* TOWNES (AUBERT 1974: 267, SAWONIEWICZ 1984: 321) with its synonym *H. antennalis* KISS (SAWONIEWICZ 1984: 321).

Pleolophus vestigialis (FOERSTER, 1850), **comb. nov.**

- Aptesis vestigialis* FOERSTER, 1850: 90. — Holotype (♀, DILLER erroneously designated it as the lectotype): "Ar. 874", "*Aptesis vestigialis* ♀ FRST.", Coll. FOERSTER, München (ZSBS).
- Aptesis aphyoptera* FOERSTER, 1850: 89. **Syn. nov.** — Type lost? According to original description.
- Microcryptus unifasciatus* SCHMIEDEKNECHT, 1905: 653. **Syn. nov.** — Types? The above synonymy is based on the original description, figure (SCHMIEDEKNECHT 1908: 77, Taf. 4, Fig. 1) and one female (syntype?): "*Microcryptus (Aptesis) unifasciatus* ♀ SCHMIEDEKNECHT Thüringen" (original label by SCHMIEDEKNECHT), Coll. IOR, Poznań.
- Microcryptus triangularis* KISS, 1924: 64. **Syn. nov.** — Holotype (♂) det. SAWONIEWICZ (1984: 322): "Oroszmező Dr. KISS", Coll. TMA, Budapest.
- Microcryptus angustipetiolatus* OZOLS, 1934: 4. **Syn. nov.** I have not seen the type. The synonym above is proposed according to original description and figures (OZOLS 1934, Taf. I, Figs. B, and Taf. II, Figs. E and F). JONAITIS (1981: 240) synonymized *M. angustipetiolatus* OZOLS with "*Aptesis unifasciatus* SCHMIEDEKN.", and SAWONIEWICZ (1984: 322) synonymized *M. triangularis* KISS with *Pleolophus unifasciatus* (SCHMIEDEKN.).

KEY TO THE EUROPEAN SHORT-WINGED FEMALES AND THEIR MALES OF
THE GENUS *PLEOLOPHUS* TOWNES

1. ♀. Ocellus small, HO : OOL = 1 : 2.5–2.7; front wing reaching to middle of propodeum.
 - ♂. Face entirely black. *P. micropterus* (GRAV.).
- ♀. Ocellus larger, HO : OOL = 1 : 1.4–2.0; front wing reaching to apex of propodeum.
 - ♂. Face at least with orbits ivory to red-yellow 2.
2. ♀. Hind wing broad — Fig. 1; frons shiny, in the median part punctured, interspaces not granulate; frons and propodeum with brown hairs; ovipositor in lateral aspect high, with distinct nodus.
 - ♂. Apical margin of clypeus normal; face only with the orbits ivory *P. brachypterus* (GRAV.).
- ♀. Hind wing narrow — Fig. 2; frons in the median part punctured, interspaces granulate; frons and propodeum with silver hairs; ovipositor in lateral aspect narrow, with smaller nodus.
 - ♂. Apical margin of clypeus upturned; face with the orbits and V-like spot at the middle, ivory. *P. vestigialis* (FOERST.).



Figs. 1–2. *Pleolophus* spp., hind wing, ♀: 1 — *P. brachypterus* (GRAV.), 2 — *P. vestigialis* (FOERST.).

Thrybius ungulatus (GRAVENHORST, 1829), **comb. nov.**

Hoplismenus ungulatus GRAVENHORST, 1829: 430. — Holotype (♂): without label, Coll. GRAVENHORST, Wrocław (UW).

Thrybius praedator (ROSSI, 1792), **comb. nov.**

Ichneumon praedator ROSSI, 1792: 116. — Holotype (♀): without label, Coll. GRAVENHORST, Wrocław (UW).

Cryptus praedator GRAVENHORST, 1829: 633. **Syn. nov.** — Holotype (♀): without label, Coll. GRAVENHORST, Wrocław (UW).

Hoplismenus leucopygus GRAVENHORST, 1829: 492. **Syn. nov.** — Holotype (♂): without label, Coll. GRAVENHORST, Wrocław (UW).

Cryptus elegans DESVIGNES, 1856: 57. **Syn. nov.** — Type not examined.

Hygrocryptus Dreveseni THOMSON, 1873: 514. **Syn. nov.** Type not examined.

Two the last names HEDWIG (1935: 13) and KERRICH (1938: 174) synonymized with *Hoplismenus leucopygus* GRAV.

The history of the types of *I. praedator* ROSSI and *C. praedator* GRAVENHORST is rather complicated. GRAVENHORST till 1829 did not know the paper by ROSSI (1792) because he did not cite it. Although GRAVENHORST knew that ROSSI had named the female as *I. praedator*, he described it as a new species and used the same species name "*praedator*" as ROSSI. GRAVENHORST often described new species in this manner using unpublished names that he had got from other persons. Based on a single ♀ from the Coll. GRAVENHORST (UW), original descriptions by ROSSI and GRAVENHORST, and remarks by KRIECHBAUMER (1873: 23–26) I consider the female being the holotype of both *I. praedator* ROSSI and *C. praedator* GRAV. and therefore both names are objective synonyms and secondary homonyms in the genus *Thrybius* TOWNES.

Aritranis fugitiva (GRAVENHORST, 1829)

Cryptus fugitivus GRAVENHORST, 1829: 515. — Lectotype (♀) by designation of FRILLI (1978: 155): "f", Coll. GRAVENHORST, Wrocław (UW).

Habrocryptus collaris TSCHEK var. *obscuratus* KISS, 1930: 107. **Syn. nov.** Junior homonym of *Habrocryptus polytomus* TSCHEK var. *obscuratus* KISS, 1924: 56. — Holotype (♀, erroneously published by KISS as ♂): "Kaisd", "Typus", "*Habrocryptus collaris* TSCHEK var. *nigratus* [sic!] KISS" (label?), Coll. TMA, Budapest. The holotype in Budapest is labelled as "*Habrocryptus collaris* TSCHEK var. *nigratus* KISS". KISS has never published such a name, and the specimen perfectly agrees with the description of var. *obscuratus* KISS.

Ischnus facialis (SZÉPLIGETI, 1916), **comb. nov.**

Cryptus facialis SZÉPLIGETI, 1916: 247. — Lectotype (♀): "Novi Kertész", from the underside: "1899 VI 20"; "*Cryptus facialis* n. sp."; — paralectotype (1 ♀): "Buccari. 14 VI". Both types by designation of VAN ROSSEM, Coll. TMA, Budapest.

Enclisis rubi (HABERMEHL, 1921), **comb. nov.**

Microcryptus rubi HABERMEHL, 1921: 82. — Holotype (♂): "Von Dr. ENSLIN aus *Rubus*-Stengel erz.", "*Microcryptus rubi* HABERM. ♂", Coll. HABERMEHL, Frankfurt (NMS).

Hoplocryptus alboclypeatus KISS, 1924: 58. **Syn. nov.** — Holotype (♂) det. SAWONIEWICZ (1986: 376): "Retyezát Diószeghy", Coll. KISS, Budapest (TMA).

Pterocryptus niger SZÉPLIGETI, 1916

Pterocryptus niger SZÉPLIGETI, 1916: 250. — Holotype (♀): "Budapest SZÉPLIGETI", "*Pterocryptus niger* n. sp.", Coll. TMA, Budapest.

ACKNOWLEDGEMENTS

I would like to express my sincere thanks to the following persons and institutions who have lent material for the present study: Dr. R. DANIELSSON (Lund — ZIL), Mr. E. DILLER (München — ZSBS), Dr. M. DORN (Halle — UH), Dr. A. G. IRWIN (Norwich — CM), Dr. M. KAK (Wrocław — UW), Dr. F. KOCH (Berlin — MN), Dr. J. P. KOPELKE (Frankfurt/M. — NMS), Dr. K. H. LAMPE (Bonn — ZF), Mr. W. MATZ (Rudolstadt — SMH), Dr. J. OEHLKE (Eberswalde — IPSF), Dr. J. PAPP (Budapest — TMA) and Prof. W. WĘGOREK (Poznań — IOR).

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Instytut Zoologii PAN

ul. Wilcza 64

00-950 Warszawa, P.O.B.1007

STRESZCZENIE

[Tytuł: Rewizja niektórych typów opisowych europejskich *Ichneumonidae* (*Hymenoptera*), 3]

W pracy zawarto rewizję 41 typów opisowych gatunków i odmian opisanych przez 18 autorów, które należą do 17 gatunków z podrodziny *Phygadeuontinae* (*Ichneumonidae*). Wyznaczono 8 lektotypów, ustalono 24 nowe synonimy i 6 nowych kombinacji. Umieszczono również klucz do oznaczania samic o zredukowanych skrzydłach i ich samców z rodzaju *Pleolophus* TOWNES.

РЕЗЮМЕ

[Заглавие: Ревизия некоторых описательных типов европейских *Ichneumonidae* (*Hymenoptera*), 3]

В работе содержится ревизия 41 описательных типов видов и разновидностей принадлежащих к 17 видам из подсемейства *Phygadeuontinae* (*Ichneumonidae*), описанных 18 авторами. Автор обозначил 8 лектотипов, установил 24 новых синонима и 6 новых комбинаций. Замещен также ключ для самок с редуцированными крыльями и их самцов из рода *Pleolophus* TOWNES.

Redaktor pracy — prof. dr J. Nast